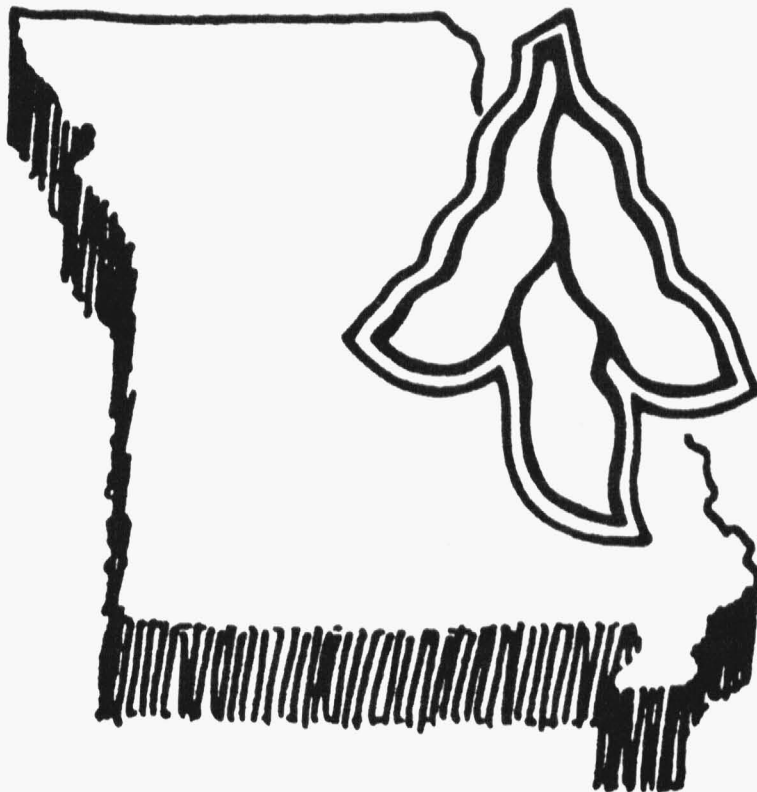


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Missouri Soybean

6 Missouri Variety Performance

r, Morris, Mason, Knerr, Thomas, Lankheit

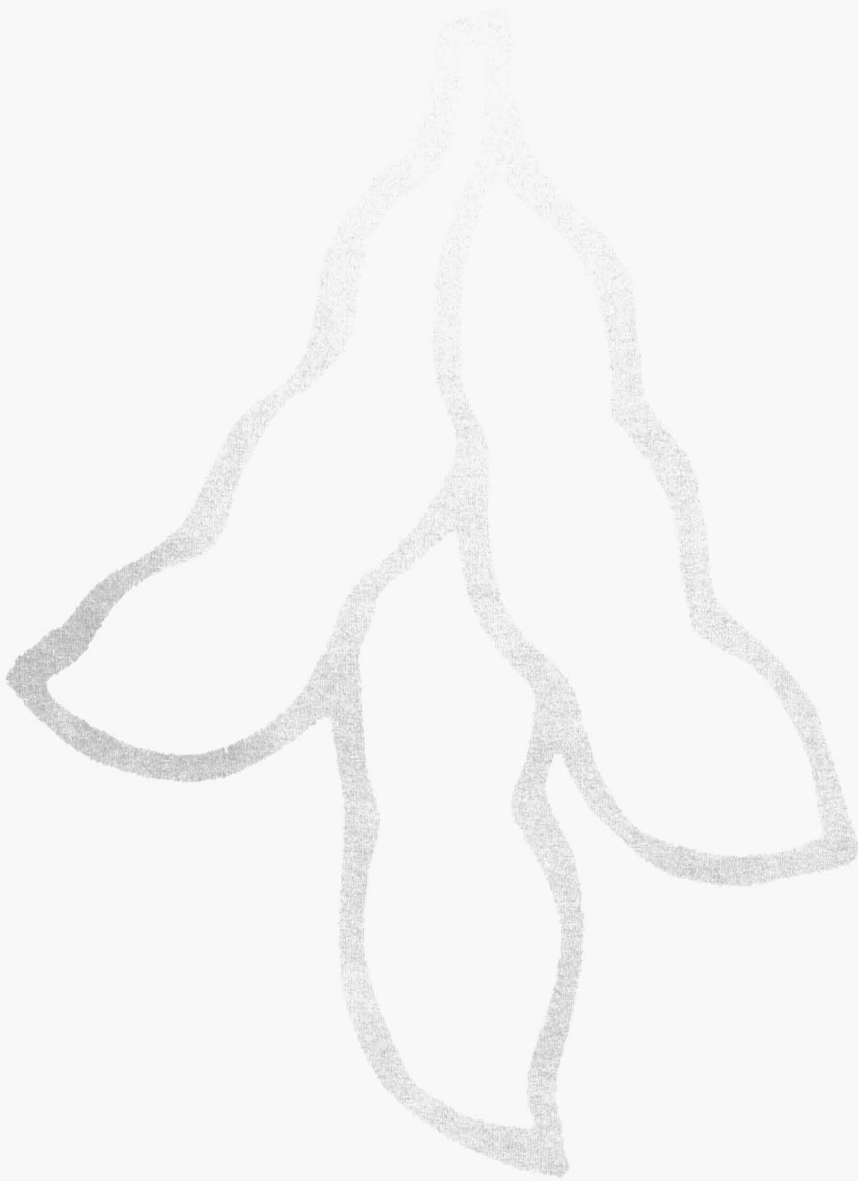


Special Report 500

November 1996

**Agricultural Experiment Station
College of Agriculture, Food and Natural Resources
University of Missouri-Columbia
in cooperation with
Missouri Soybean Merchandising Council**

The Soybean Checkoff is in Good Hands



Soybean farmers are in charge of the soybean checkoff investment. In Missouri an unpaid-13 member farmer board gives all soybean growers a voice in setting policies and direction for all checkoff funds. There's also review and evaluation built into every program to make sure that checkoff investments you make are the best ones, and programs deliver what they promise. We're all in this together and we would like to know your ideas. Let us hear from you!

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Merchandising Council**

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ACKNOWLEDGEMENTS

The authors recognize and express their appreciation to the following individuals for their part in making the 1996 soybean trials possible: Gene Millard, Osborn; Don Null, Hundley Whaley Research Center, Albany; Harry Hayen, Chillicothe; Randall Smoot, Supervisor, Greenley Memorial Center, Novelty; Bruce and Robert Boyes, Benton City; Ryland Utlaut, Grand Pass; Frank Swisher, Marshall; John Poehlmann, Superintendent, Agronomy Research Center, Columbia; John Cobb, High Hill; Bill Cook, Garden City; Wally Norton, Lamar; Sherrell Bean, Lamar; Glenn Nothdurft, Oran; Randy Arington, Bertrand; and Jake Fisher, Superintendent, Delta Center, Portageville and Clarkton.

Additional recognition is given to Dr. Terry Niblack, Dr. George Smith, and Mr. Robert Heinz for their assistance in conducting the cyst nematode screening and field tests.

Special recognition is also given to: Bob Rudolph, Livingston County; Cecilia Griswold, Knox County; Gary Hoette, Montgomery County; Ron Alexander, Saline County and Rick Mammon, Barton County for their assistance in recording soybean maturity dates.

MISSOURI CROP PERFORMANCE

1996

SOYBEAN

This report is a contribution of the Department of Agronomy, University of Missouri Agricultural Experiment Station. The work was supported in part by fees from companies and organizations submitting varieties for evaluation. Soybeans were first included in the University of Missouri's variety testing program in 1973. The number of entries in the program increased from 51 in 1973 to 382 in 1989. There were 373 varieties in the program in 1996.

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. Four types of tests were conducted. "Standard" full-season tests evaluated experimental lines and released varieties, brands, and blends currently marketed in Missouri. The "Cyst Nematode" tests evaluated experimental lines and released varieties, brands, and blends on sites heavily infested with cyst nematodes. "Double crop" tests evaluated the same range of materials when planted after harvest of wheat. "Drill" tests compare varieties response to narrow row seeding. All producers of soybean seed were eligible to submit entries for these evaluations in 1996. 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 \$100 per location was charged for each entry. Additionally selected varieties were also evaluated in wide versus narrow row spacing.

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

Data Recorded. Maturity group classification was provided by the entry sponsor. Maturity data were recorded when approximately 75 percent of the pods had turned color. Maturity group check varieties were; 3.0 Jack, 4.0 Pioneer 9392, 5.0 Hill, and 6.0 Pioneer 9592. Lodging and height were determined immediately before harvest. A scale of 1 to 5 was used to score lodging. Interpretation of the scale is as follows:

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

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

Cyst Nematode Screening. Soil naturally infested with soybean cyst nematodes (SCN) was collected from several Missouri locations. The screening isolates used in testing were Race 1, Race 3, and Race 4. All entries submitted to the program as SCN resistant were tested for reaction in these soils.

Electronic Accessibility of Data. Results of the Missouri Crop Performance Trials are now available in two forms: the printed Special Report and Missouri's Agricultural Electronic Bulletin Board. Variety test information is accessible from the MAIN MENU under "CROP PERFORMANCE TESTING" of the AgEBB. The system number for the AgEBB is 573/882-8289. If you need assistance call 573/882-4827 for help from the system staff.

PART I
STANDARD SOYBEAN TRIALS

EXPERIMENTAL PROCEDURES

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

Locations. On the basis of geographical characteristics, the state was divided into regions. Soybean variety evaluation trials were located in the northern, central, southwestern and south-eastern regions of the state. Trial locations are shown on the adjacent map. In 1996, the locations for these trials were on (1) the Gene Millard farm near Osborn in Dekalb Co.; (2) the Harry Hayden farm near Chillicothe in Livingston Co.; (3) the Greenley Memorial Center near Novelty in Knox Co.; (4) the Ryland Utlaut farm near Grand Pass in Saline Co.; (5) the Agronomy Research Center near Columbia in Boone Co.; (6) the John Cobb farm near High Hill in Montgomery Co.; (7) the Bill Cook farm near Garden City in Cass Co.; (8) the Wally Norton farm near Lamar in Barton Co.; (9) the Glenn Nothdurft farm near Oran in Scott Co.; and (10) the Delta Research Center near Portageville in Pemiscott Co.



SUMMARY OF RESULTS

Soybean varieties and blends were evaluated in eleven standard studies in 1996. Data from these tests are presented in Tables 2 through 16. Management practices applied at each location are given on the individual tables.

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

TABLE 1. YIELD SUMMARY FOR STANDARD SOYBEAN TESTS

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Osborn	144	45-62	54	2
Chillicothe	144	24-57	42	3
Novelty	144	42-69	58	4
Grand Pass	130	59-76	68	6
Columbia	130	27-54	41	7
High Hill	130	52-74	60	8
Garden City	71	39-67	57	10
Lamar	71	24-41	31	11
Oran	82	35-56	46	13
Portageville Loam	82	25-52	40	14
Portageville Clay	82	32-53	44	15

TABLE 2. Performance of Soybean Varieties evaluated near Osborn (DeKalb County) on the Gene Millard Farm during 1995-96 and on the Bill and Gary Meyer Farm during 1994.

Planted: 13 June 1996
 Harvested: 17, 18 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Grundy Silt Loam
 Soil Test: pH=6.5, OM=2.8%, P=77, K=271

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

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=9.3, June=4.3, July=5.1, Aug.=2.8, Sept.=4.8, TOTAL=26.3 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 2								
COMMERCIAL VARIETIES								
Terra-TS285	9-26	25.5	1.0	53.5**	--	--	--	--
Reeds Brand 222	9-22	32.3	1.0	48.9*	43.2	53.5*	46.1	48.5
MFA Morsoy 2913	9-23	33.8	1.0	45.4	--	--	--	--
AVERAGE	9-24	30.5	1.0	49.3	44.3	53.1	46.8	48.9
L.S.D. AT .10 ¹	3	4.0	NS	6.3	2.4	3.6		
C.V. %	0.7	9.6		9.3	5.3	5.6		
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-25							
Gateway 390	10-03	36.3	1.3	61.9**	--	--	--	--
Kruger K-3777	10-01	35.2	1.0	61.7*	--	--	--	--
Pioneer Variety 9395	10-01	36.2	1.2	59.2*	--	--	--	--
Kruger K-3606	9-27	34.6	1.0	58.9*	--	--	--	--
NC+ 3A67	10-01	31.5	1.0	58.7*	--	--	--	--
Lewis 390	10-01	37.2	1.7	58.6*	--	--	--	--
Merschman Fillmore IV	10-01	32.4	1.0	58.6*	46.7*	65.9*	52.7	57.1
Stine 3660	10-01	33.1	1.0	58.5*	46.9*	62.7*	52.7	56.0
Desoy 3717	10-01	36.1	1.0	58.5*	49.6*	--	54.1	--
Terra-TS364	10-01	30.2	1.0	58.2*	48.6*	--	53.4	--
Kruger K-3848	10-01	32.7	1.0	57.9*	47.7*	65.8*	52.8	57.1
Stine 3780	10-01	37.3	1.3	57.5*	--	--	--	--
Willcross RR2357	9-27	33.0	1.0	57.5*	--	--	--	--
Lewis 360	10-01	30.8	1.0	57.2	--	--	--	--
Macon	10-01	32.3	1.0	56.9	47.7*	--	52.3	--
Stine 3870	10-01	31.7	1.2	56.9	--	--	--	--
Dyna-Gro 3395	10-01	35.2	1.2	56.8	--	--	--	--
Kruger K-3828	10-01	36.0	1.2	56.7	--	--	--	--
Asgrow A3244	9-28	32.9	1.2	56.6	--	--	--	--
LG Seeds LG6369	9-28	34.0	1.0	56.6	--	--	--	--
Lewis 349	10-01	33.2	1.2	56.5	43.5	--	50.0	--
Kruger K-3939	10-01	35.8	1.0	56.4	50.3**	63.1*	53.4	56.6
Kruger K-3505	9-28	34.0	1.0	56.3	--	--	--	--
Merschman Madison IV	10-01	35.6	1.3	56.3	--	--	--	--
Wilson 3670	9-28	33.1	1.0	56.3	48.1*	--	52.2	--
Merschman Kennedy IV	10-01	34.8	1.0	56.3	46.8*	67.4**	51.6	56.8
LG Seeds LG6395	10-01	29.4	1.2	56.1	--	--	--	--
Midwest Seed Gen. G 3996	10-01	36.7	1.3	55.9	48.5*	--	52.2	--
Willcross 92-B	10-01	35.4	1.2	55.9	45.6	57.0	50.8	52.8
Kruger K-3939+	10-01	38.0	1.2	55.9	--	--	--	--
Golden Harvest H-1388	10-01	36.4	1.3	55.8	46.5	62.0*	51.2	54.8
Dairyland DSR-365	10-01	32.9	1.0	55.8	46.3	--	51.1	--
Kruger K-3333+	9-27	35.0	1.2	55.7	--	--	--	--
Fontanelle 6104	10-03	38.7	1.2	55.4	44.3	66.6*	49.8	55.4
Mark Seed 9735	10-01	29.7	1.2	55.4	48.4*	--	51.9	--
Patriot 371	10-01	32.2	1.0	55.2	--	--	--	--
Patriot 337	9-26	31.3	1.0	55.1	--	--	--	--
Midwest Seed Gen. G 3555	9-28	34.0	1.0	55.0	46.1	--	50.6	--
Ciba Seeds 3362	10-01	34.9	1.0	54.9	43.8	65.1*	49.3	54.6
AgriPro Seeds AP 3868	10-01	32.1	1.0	54.9	44.9	--	49.9	--

TABLE 2. Continued

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (ln)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Terra-TS345	10-01	33.4	1.0	54.9	--	--	--	--
Willcross 9536	9-28	33.4	1.0	54.9	48.1*	--	51.5	--
Midland 8356	9-28	34.2	1.2	54.8	47.3*	--	51.1	--
Golden Harvest H-1353	10-01	32.9	1.2	54.7	47.4*	60.3	51.1	54.1
Midwest Seed Gen. G 3626	10-01	30.6	1.0	54.7	--	--	--	--
AgriPro Seeds AP 3616	10-01	30.8	1.0	54.6	--	--	--	--
Fontanelle 6100	10-01	33.6	1.0	54.6	46.4	59.8	50.5	53.6
Kruger K-3769	9-28	33.4	1.0	54.5	--	60.9*	--	--
Stine 3480	9-28	31.4	1.2	54.4	--	--	--	--
Northrup King S30-06	9-28	34.3	1.0	54.4	--	--	--	--
Kruger K-3808	10-01	36.1	1.5	54.3	49.6*	63.3*	52.0	55.7
NeCo 7392	10-01	36.2	1.2	54.3	44.7	62.5*	49.5	53.8
MFA Morsoy 9137	10-01	33.9	1.2	54.3	43.5	66.5*	48.9	54.8
Dyna-Gro 3368	10-01	33.3	1.0	54.3	46.5	58.2	50.4	53.0
Kruger K-3737	9-28	34.8	1.0	54.0	--	--	--	--
Asgrow A3834	10-03	32.2	1.0	53.9	45.8	--	49.8	--
Merschman Truman IV	9-28	33.2	1.0	53.8	--	59.2	--	--
NeCo 7384	10-01	33.5	1.0	53.8	--	62.2*	--	--
Terra-TS393	10-01	36.3	1.2	53.8	--	--	--	--
ICI D371	10-01	34.6	1.0	53.7	47.0*	62.5*	50.4	54.4
NeCo 7354	9-28	31.2	1.0	53.6	45.2	57.8	49.4	52.2
Midwest Seed Gen. G 3410	9-28	32.6	1.3	53.6	--	--	--	--
Mark Seed 9533	9-27	35.4	1.2	53.6	--	--	--	--
Willcross 92-A	10-01	36.0	1.0	53.5	45.7	62.5*	49.6	53.9
Dairyland DSR-325	9-27	35.2	1.0	53.4	--	--	--	--
Desoy 3424	9-27	31.4	1.0	53.4	--	--	--	--
Iroquois	9-27	34.3	1.0	53.3	--	--	--	--
Merschman Eisenhower III	10-02	37.0	1.0	53.2	44.5	64.1*	48.9	53.9
Fontanelle 3376	10-01	36.4	1.0	53.1	--	--	--	--
Kruger K-3949	10-01	33.7	1.0	53.1	--	--	--	--
Lewis 322	9-28	32.6	1.0	53.1	45.6	--	49.4	--
Hamilton	10-02	34.6	1.2	53.0	44.6	51.6	48.8	49.7
Kruger K-3525	9-27	32.2	1.0	53.0	48.5*	64.1*	50.8	55.2
Northrup King S35-35	10-01	33.1	1.0	52.9	47.3*	61.9*	50.1	54.0
Willcross RR2347	10-01	34.1	1.0	52.9	--	--	--	--
Mycogen 395	10-01	34.4	1.0	52.7	43.8	--	48.3	--
Desoy 3424B	9-28	32.7	1.2	52.6	--	--	--	--
Kruger K-3888	10-01	32.1	1.2	52.6	--	--	--	--
Willcross 9540-B	10-01	32.2	1.0	52.3	--	--	--	--
Stine 3470	10-01	30.0	1.0	52.0	--	--	--	--
Dekalb CX399	10-01	38.1	1.2	52.0	47.0*	--	49.5	--
Kruger K-3727	9-28	31.5	1.0	51.9	49.7*	65.7*	50.8	55.8
Kruger K-3525E	9-28	31.4	1.0	51.6	--	--	--	--
Terra-TS315	9-28	34.0	1.2	51.3	--	--	--	--
Willcross 9435-B	10-01	31.7	1.2	51.1	43.6	59.5	47.4	51.4
Dekalb CX377	10-01	35.5	1.2	50.4	--	56.9	--	--
Pioneer Variety 9352	9-27	31.5	1.2	50.3	--	--	--	--
MFA Morsoy 8838	9-27	37.9	1.3	50.2	45.4	54.3	47.8	50.0
Reeds Brand 390	10-01	32.5	1.0	50.2	47.1*	60.0	48.7	52.4
MFA Morsoy 9233	10-01	29.8	1.0	50.2	48.8*	59.4	49.5	52.8
Northrup King S39-11	10-03	40.5	1.2	50.1	47.3*	53.8	48.7	50.4
MFA Morsoy 438	10-01	34.6	1.2	50.0	48.4*	--	49.2	--
Willcross 9435-A	10-01	33.1	1.0	49.9	44.3	58.3	47.1	50.8
Medallion M3205	9-28	34.3	1.0	49.7	--	--	--	--
Pioneer Variety 9306	9-23	30.2	1.0	49.7	--	--	--	--
Mycogen 5373	9-25	33.3	1.2	49.6	45.7	65.2*	47.7	53.5
Willcross 9531	9-27	30.0	1.0	49.3	48.9*	--	49.1	--
Stine 3380	9-28	31.1	1.0	49.3	--	--	--	--
Reeds Brand 330 STS	10-01	38.7	1.7	48.9	44.3	--	46.6	--
Mark Seed 9632	9-28	30.3	1.0	48.2	--	--	--	--
Saline	10-01	41.0	1.3	47.9	--	--	--	--
Willcross RR2397	10-05	37.2	1.3	47.1	--	--	--	--
Pioneer Variety 9362	10-01	33.1	1.0	47.0	44.8	61.7*	45.9	51.2
Golden Harvest H-1328	10-01	29.3	1.0	46.8	44.0	60.7	45.4	50.5

TABLE 2. Continued

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
EXPERIMENTAL VARIETIES								
MFA Exp. 3758	10-01	32.1	1.0	59.1*	--	--	--	--
Kruger K-3701	10-01	31.5	1.0	55.8	--	--	--	--
Mark Seed Ex. 835	10-01	34.7	1.0	55.3	--	--	--	--
Golden Harvest X-316	9-25	30.2	1.0	52.8	--	--	--	--
Fontanelle Exp. 9474	10-01	32.7	1.3	50.4	--	--	--	--
Kruger K-3555SCN	9-28	32.8	1.0	49.0	--	--	--	--
Kruger K-3444SCN	9-28	35.3	1.0	47.8	--	--	--	--
AVERAGE	10-01	33.7	1.1	54.0	46.1	60.0	50.0	53.4
L.S.D. AT .10 ¹	2	2.2	0.3	4.6	3.6	6.6		
C.V. %	0.6	4.7		6.3	5.7	6.8		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	10-01							
Merschman Atlanta III	10-06	38.0	2.7	62.3**	46.4	59.5*	54.4	56.1
Terra-TS415	10-01	36.0	1.7	59.5*	49.5*	--	54.5	--
Kruger K-4040+	10-01	31.0	1.2	58.3*	51.8**	--	55.1	--
Willcross 9640	10-01	36.0	1.8	58.3*	--	--	--	--
Merschman Phoenix	10-05	33.0	1.2	57.8*	--	--	--	--
Asgrow A4341	10-05	35.0	1.3	57.0	--	--	--	--
Terra-TS474	10-06	40.0	2.5	56.9	47.3	--	52.1	--
Magellan	10-04	41.0	1.7	56.5	47.1	57.1*	51.8	53.6
Dekalb CX411	10-03	34.0	1.0	56.3	46.2	59.5*	51.3	54.0
Reeds Brand 445	10-03	40.0	1.7	56.3	47.9	51.2	52.1	51.8
Kruger K-4343	10-05	39.0	1.5	56.2	--	--	--	--
Northrup King S42-60	10-04	34.0	1.5	56.1	47.9	57.3*	52.0	53.8
Stine 3973	10-05	32.0	1.0	56.1	--	--	--	--
Midland 8410	10-01	34.0	1.2	55.5	--	--	--	--
MFA Morsoy 441SCN	10-05	40.0	1.7	54.9	--	--	--	--
Merschman Richmond III	10-07	42.0	1.8	54.8	48.2	--	51.5	--
ICI D454	10-06	41.0	1.5	54.8	--	--	--	--
Merschman Cleveland III	10-05	47.0	1.8	54.7	46.0	52.4	50.4	51.0
NC+ 4A10	10-01	35.0	1.2	54.6	48.1	55.7*	51.4	52.8
MFA Morsoy 8842	10-02	43.0	1.7	54.1	48.3*	50.9	51.2	51.1
Willcross RR2407	10-02	37.0	1.3	54.1	--	--	--	--
Mustang	10-07	41.0	2.0	53.0	--	--	--	--
Stressland	10-04	43.0	1.7	52.9	47.9	55.1*	50.4	52.0
Golden Harvest H-1407	10-01	35.0	1.2	52.7	47.6	53.4	50.2	51.2
Cisne	10-05	35.0	1.2	52.5	49.6*	--	51.1	--
Terra-TS402	10-01	34.0	1.0	52.5	47.0	54.2	49.8	51.2
Kruger K-4101+	10-02	37.0	1.3	52.2	49.7*	58.3*	51.0	53.4
Willcross 9540-A	10-02	31.0	1.0	51.3	46.7	--	49.0	--
Kruger K-4440	10-03	38.0	1.0	49.9	--	--	--	--
AgriPro Seeds AP 4020	10-01	28.0	1.0	48.1	--	--	--	--
5.0 Maturity Group Check##	10-08							
AVERAGE	10-03	37.0	1.5	55.0	47.2	54.3	51.1	52.2
L.S.D. AT .10 ¹	2	2.4	0.5	4.6	3.5	6.6		
C.V. %	0.6	4.9		6.1	3.9	7.5		
TRIAL AVERAGE		34.4	1.2	54.1	46.3	58.4	50.2	52.9

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

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.

TABLE 3. Performance of Soybean Varieties evaluated near Chillicothe (Livingston County) on the Harry Hayen Farm during 1995-96.

Planted: 2 May 1996
 Harvested: 3 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putman Silt Loam
 Soil Test: pH=5.9, OM=2.8%, P=39, K=302

Fertilizer: N=0; P₂O₅=60; K₂O=120
 Herbicide: Pre: Dual + Canopy
 Post: Basagran, Poast +
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=10.9, June=2.9, July=4.3, Aug.=3.4, Sept.=5.6, TOTAL=27.1 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	MATURITY GROUP 2							
COMMERCIAL VARIETIES								
MFA Morsoy 2913	9-08	24.8	1.0	30.9**	--	--	--	--
Terra-TS285	9-07	21.3	1.0	25.7	--	--	--	--
Reeds Brand 222	9-08	23.0	1.0	24.2	40.0*	--	32.1	--
AVERAGE	9-08	23.0	1.0	26.9	39.5		33.2	
L.S.D. AT .10 ¹	NS	1.5	NS	4.4	3.5			
C.V. %	0.1	4.9		12.0	8.9			
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-10							
Kruger K-3939+	9-14	31.0	1.0	49.1**	--	--	--	--
Willcross RR2357	9-14	31.0	1.0	48.1*	--	--	--	--
MFA Morsoy 9137	9-16	33.0	1.0	47.7*	40.0	--	43.9	--
Dyna-Gro 3395	9-19	29.0	1.0	47.6*	--	--	--	--
Reeds Brand 330 STS	9-19	36.0	1.1	47.6*	42.6	--	45.1	--
Lewis 349	9-14	31.0	1.1	47.5*	44.2*	--	45.9	--
Stine 3870	9-17	28.0	1.0	47.4*	--	--	--	--
Hamilton	9-14	29.0	1.0	47.0*	41.9	--	44.5	--
NeCo 7354	9-15	27.0	1.0	46.9*	43.3*	--	45.1	--
MFA Morsoy 8838	9-18	36.0	1.1	46.8*	41.3	--	44.1	--
Asgrow A3834	9-20	31.0	1.0	46.8*	42.4	--	44.6	--
Kruger K-3828	9-14	29.0	1.0	46.7*	--	--	--	--
Desoy 3717	9-14	30.0	1.0	46.6*	44.4*	--	45.5	--
Macon	9-14	28.0	1.0	46.6*	40.8	--	43.7	--
Mycogen 5373	9-16	31.0	1.1	46.5*	42.8*	--	44.7	--
Reeds Brand 390	9-18	31.0	1.0	46.4*	46.3*	--	46.3	--
Willcross 92-A	9-18	30.0	1.0	46.1*	41.8	--	44.0	--
NeCo 7392	9-17	31.0	1.0	45.8*	43.0*	--	44.4	--
Merschman Kennedy IV	9-14	31.0	1.0	45.7*	45.3*	--	45.5	--
Lewis 390	9-18	32.0	1.0	45.6*	--	--	--	--
Merschman Fillmore IV	9-13	29.0	1.0	45.1*	43.7*	--	44.4	--
Willcross 92-B	9-18	30.0	1.0	45.0*	47.3*	--	46.2	--
Kruger K-3808	9-15	30.0	1.0	44.9*	43.3*	--	44.1	--
MFA Morsoy 438	9-16	30.0	1.0	44.9*	44.7*	--	44.8	--
Terra-TS393	9-18	32.0	1.0	44.8*	--	--	--	--
Willcross 9435-B	9-14	28.0	1.0	44.7*	43.2*	--	44.0	--
Gateway 390	9-21	32.0	1.0	44.6*	--	--	--	--
Midwest Seed Gen. G 3996	9-17	29.0	1.0	44.5*	40.9	--	42.7	--
Mark Seed 9735	9-13	28.0	1.0	44.3*	41.7	--	43.0	--
Saline	9-16	36.0	1.0	44.3*	--	--	--	--
Mark Seed 9632	9-11	30.0	1.0	44.2*	--	--	--	--
Willcross 9435-A	9-14	26.0	1.0	44.1*	42.6	--	43.4	--
Lewis 322	9-10	31.0	1.0	44.1*	46.6*	--	45.4	--
Golden Harvest H-1353	9-15	31.0	1.1	44.0*	48.0*	--	46.0	--
Kruger K-3769	9-16	31.0	1.0	44.0*	--	--	--	--
Northrup King S39-11	9-16	32.0	1.1	43.9*	38.5	--	41.2	--
Wilson 3670	9-14	31.0	1.0	43.8*	43.2*	--	43.5	--
Lewis 360	9-14	27.0	1.0	43.6*	--	--	--	--
Merschman Madison IV	9-20	30.0	1.1	43.4*	--	--	--	--
Dekalb CX399	9-15	30.0	1.0	43.3*	42.4	--	42.8	--

TABLE 3. Continued

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Kruger K-3949	9-17	29.0	1.0	43.0	--	--	--	--
Willcross RR2347	9-10	31.0	1.0	42.9	--	--	--	--
Terra-TS364	9-13	30.0	1.0	42.8	42.6	--	42.7	--
NC+ 3A67	9-13	28.0	1.0	42.7	--	--	--	--
Midwest Seed Gen. G 3626	9-13	29.0	1.0	42.6	--	--	--	--
Kruger K-3939	9-12	30.0	1.0	42.6	44.5*	--	43.6	--
Pioneer Variety 9395	9-12	30.0	1.0	42.6	--	--	--	--
Ciba Seeds 3362	9-14	31.0	1.0	42.4	42.0	--	42.2	--
Fontanelle 6100	9-16	31.0	1.0	42.3	46.6*	--	44.5	--
Merschman Truman IV	9-11	29.0	1.0	41.9	--	--	--	--
NeCo 7384	9-15	31.0	1.1	41.8	--	--	--	--
Stine 3660	9-13	30.0	1.0	41.6	41.2	--	41.4	--
Kruger K-3606	9-08	25.0	1.0	41.5	--	--	--	--
Kruger K-3777	9-11	26.0	1.0	41.4	--	--	--	--
Stine 3780	9-12	26.0	1.0	41.4	--	--	--	--
Desoy 3424B	9-10	30.0	1.0	41.4	--	--	--	--
Willcross 9536	9-14	30.0	1.0	41.3	46.7*	--	44.0	--
Willcross RR2397	9-19	31.0	1.1	41.2	--	--	--	--
Kruger K-3525	9-11	27.0	1.0	41.0	45.2*	--	43.1	--
Kruger K-3848	9-13	28.0	1.0	41.0	45.7*	--	43.4	--
Midland 8356	9-12	29.0	1.0	40.9	43.9*	--	42.4	--
Desoy 3424	9-11	27.0	1.0	40.8	--	--	--	--
Willcross 9540-B	9-17	28.0	1.0	40.8	--	--	--	--
Kruger K-3525E	9-12	30.0	1.0	40.6	--	--	--	--
AgriPro Seeds AP 3616	9-15	28.0	1.0	40.2	--	--	--	--
Terra-TS315	9-12	30.0	1.0	40.2	--	--	--	--
Golden Harvest H-1388	9-14	30.0	1.0	40.1	44.4*	--	42.3	--
Fontanelle 6104	9-20	30.0	1.0	39.9	41.7	--	40.8	--
Kruger K-3333+	9-12	28.0	1.0	39.8	--	--	--	--
Kruger K-3505	9-10	30.0	1.0	39.8	--	--	--	--
Northrup King S30-06	9-10	28.0	1.0	39.8	--	--	--	--
Medallion M3205	9-12	29.0	1.0	39.7	--	--	--	--
LG Seeds LG6369	9-10	30.0	1.0	39.4	--	--	--	--
Kruger K-3888	9-14	29.0	1.0	39.4	--	--	--	--
Stine 3480	9-10	30.0	1.0	39.3	--	--	--	--
ICI D371	9-14	32.0	1.1	39.3	45.0*	--	42.2	--
Iroquois	9-10	29.0	1.0	39.2	--	--	--	--
Mycogen 395	9-12	28.0	1.0	39.0	38.8	--	38.9	--
AgriPro Seeds AP 3868	9-17	27.0	1.0	38.9	48.3**	--	43.6	--
Terra-TS345	9-13	27.0	1.0	38.8	--	--	--	--
Dairyland DSR-365	9-12	28.0	1.0	38.7	44.7*	--	41.7	--
LG Seeds LG6395	9-19	25.0	1.0	38.7	--	--	--	--
Kruger K-3737	9-11	30.0	1.0	38.7	--	--	--	--
Mark Seed 9533	9-11	29.0	1.0	38.6	--	--	--	--
Dekalb CX377	9-14	30.0	1.0	38.1	--	--	--	--
Pioneer Variety 9352	9-13	27.0	1.0	38.1	--	--	--	--
Patriot 337	9-12	24.0	1.0	37.9	--	--	--	--
Dyna-Gro 3368	9-16	32.0	1.0	37.8	41.3	--	39.6	--
Stine 3470	9-12	26.0	1.0	37.3	--	--	--	--
Merschman Eisenhower III	9-18	30.0	1.0	37.0	40.7	--	38.9	--
Willcross 9531	9-09	24.0	1.0	36.9	39.4	--	38.2	--
Pioneer Variety 9362	9-11	28.0	1.0	36.3	46.8*	--	41.6	--
Dairyland DSR-325	9-11	29.0	1.0	36.3	--	--	--	--
Northrup King S35-35	9-11	24.0	1.0	36.2	45.9*	--	41.1	--
MFA Morsoy 9233	9-11	27.0	1.0	35.8	42.2	--	39.0	--
Stine 3380	9-11	28.0	1.0	35.7	--	--	--	--
Pioneer Variety 9306	9-08	25.0	1.0	35.5	--	--	--	--
Asgrow A3244	9-11	25.0	1.0	35.2	--	--	--	--
Patriot 371	9-11	26.0	1.0	35.1	--	--	--	--
Midwest Seed Gen. G 3410	9-12	29.0	1.0	34.5	--	--	--	--
Midwest Seed Gen. G 3555	9-13	29.0	1.0	34.4	40.2	--	37.3	--
Kruger K-3727	9-13	26.0	1.0	34.0	45.2*	--	39.6	--
Fontanelle 3376	9-11	30.0	1.0	33.7	--	--	--	--
Golden Harvest H-1328	9-13	27.0	1.0	33.4	38.7	--	36.1	--

TABLE 3. Continued

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
EXPERIMENTAL VARIETIES								
Kruger K-3701	9-15	29.0	1.0	42.6	--	--	--	--
MFA Exp. 3758	9-14	31.0	1.0	42.2	--	--	--	--
Mark Seed Ex. 835	9-11	30.0	1.0	38.7	--	--	--	--
Golden Harvest X-316	9-09	25.0	1.0	38.2	--	--	--	--
Kruger K-3444SCN	9-11	32.0	1.0	37.7	--	--	--	--
Fontanelle Exp. 9474	9-11	28.0	1.0	37.4	--	--	--	--
Kruger K-3555SCN	9-11	30.0	1.0	36.7	--	--	--	--
AVERAGE	9-14	29.2	1.0	41.5	42.9		42.2	
L.S.D. AT .10 ¹	2	2.1	NS	5.8	5.5			
C.V. %	0.6	5.4		10.3	9.3			
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-20							
Reeds Brand 445	9-24	38.0	1.1	57.4**	43.4*	--	50.4	--
Kruger K-4440	9-22	35.0	1.2	52.5*	--	--	--	--
Willcross RR2407	9-19	33.0	1.0	50.2	--	--	--	--
Willcross 9640	9-19	31.0	1.1	50.1	--	--	--	--
Terra-TS474	9-25	37.0	1.1	48.8	36.9	--	42.8	--
Midland 8410	9-17	32.0	1.0	47.6	--	--	--	--
Magellan	9-17	33.0	1.1	47.2	43.0*	--	45.1	--
Merschman Atlanta III	9-23	32.0	1.2	47.1	35.4	--	41.3	--
Terra-TS402	9-16	31.0	1.0	46.7	40.3	--	43.5	--
Terra-TS415	9-18	30.0	1.0	46.5	44.2*	--	45.4	--
Dekalb CX411	9-18	27.0	1.0	46.1	43.9*	--	45.0	--
Cisne	9-19	29.0	1.0	46.0	47.6**	--	46.8	--
Kruger K-4101 +	9-15	32.0	1.0	46.0	45.8*	--	45.9	--
Merschman Phoenix	9-22	30.0	1.0	45.5	--	--	--	--
Stine 3973	9-23	33.0	1.1	44.4	--	--	--	--
Merschman Cleveland III	9-19	38.0	1.2	44.2	36.2	--	40.2	--
Willcross 9540-A	9-17	28.0	1.0	44.1	42.2*	--	43.2	--
AgriPro Seeds AP 4020	9-19	28.0	1.0	43.6	--	--	--	--
Merschman Richmond III	9-21	33.0	1.0	43.6	40.3	--	42.0	--
Stressland	9-20	36.0	1.1	43.4	45.0*	--	44.2	--
MFA Morsoy 8842	9-18	33.0	1.0	43.1	43.2*	--	43.2	--
Mustang	9-21	33.0	1.0	43.1	--	--	--	--
ICI D454	9-21	32.0	1.0	43.0	--	--	--	--
MFA Morsoy 441SCN	9-21	28.0	1.0	41.7	--	--	--	--
NC+ 4A10	9-17	30.0	1.0	41.6	37.1	--	39.4	--
Golden Harvest H-1407	9-17	29.0	1.0	41.3	43.1*	--	42.2	--
Northrup King S42-60	9-19	28.0	1.1	41.2	43.3*	--	42.3	--
Kruger K-4040 +	9-16	26.0	1.0	40.1	45.6*	--	42.9	--
Kruger K-4343	9-18	32.0	1.0	39.3	--	--	--	--
Asgrow A4341	9-19	27.0	1.0	38.1	--	--	--	--
5.0 Maturity Group Check##	10-03							
AVERAGE	9-19	31.5	1.0	45.1	41.2		43.2	
L.S.D. AT .10 ¹	1	2.0	0.1	5.2	5.4			
C.V. %	0.4	4.8		8.6	9.6			
TRIAL AVERAGE		29.5	1.0	42.0	42.1		42.0	

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

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.

TABLE 4. Performance of Soybean Varieties evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1994-96.

Planted: 3 May 1996
 Harvested: 8 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=7.0, OM=2.3%, P=28, K=136

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

Cyst Nematode Population at Harvest: 1500 Eggs / 250cc of Soil
 Growing Season Rainfall: May=10.1, June=4.0, July=3.8, Aug.=7.0, Sept.=2.7, TOTAL=27.6 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 2								
COMMERCIAL VARIETIES								
Terra-TS285	9-16	24.3	1.0	50.1**	--	--	--	--
Reeds Brand 222	9-10	28.3	1.0	49.8	40.4*	50.1*	45.1	46.8
MFA Morsoy 2913	9-15	28.5	1.0	46.4	--	--	--	--
AVERAGE	9-14	27.0	1.0	48.8	39.6	47.0	44.2	45.1
L.S.D. AT .10 ¹	2	2.0	NS	NS	3.5	3.5		
C.V. %	0.4	5.4		5.8	8.8	6.3		
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-22							
Pioneer Variety 9395	9-24	35.3	1.0	69.4**	--	--	--	--
AgriPro Seeds AP 3616	9-24	30.3	1.0	68.4*	--	--	--	--
Kruger K-3777	9-23	30.4	1.0	67.5*	--	--	--	--
Kruger K-3525E	9-23	31.2	1.3	67.3*	--	--	--	--
Willcross RR2357	9-25	32.6	1.0	67.3*	--	--	--	--
MFA Morsoy 9137	9-25	33.4	1.0	66.8*	38.4	48.8	52.6	51.3
Kruger K-3606	9-21	30.3	1.0	66.6*	--	--	--	--
Terra-TS315	9-23	34.8	1.0	66.3*	--	--	--	--
Dyna-Gro 3395	9-28	35.6	1.0	66.0*	--	--	--	--
Desoy 3424	9-20	30.7	1.0	66.0*	--	--	--	--
Willcross 9435-A	9-24	30.6	1.0	65.8*	40.4	48.1	53.1	51.4
Pioneer Variety 9352	9-23	30.2	1.0	65.2*	--	--	--	--
Willcross 9435-B	9-24	31.7	1.0	64.8*	38.3	58.2*	51.6	53.8
AgriPro Seeds AP 3868	9-27	33.6	1.0	64.8*	45.6*	--	55.2	--
Northrup King S39-11	10-01	35.3	1.3	64.7*	44.8*	53.3	54.8	54.3
Willcross 9536	9-24	34.5	1.0	64.6*	35.2	--	49.9	--
NeCo 7354	9-24	29.3	1.0	63.7*	41.7	53.9	52.7	53.1
Dekalb CX399	9-27	33.8	1.2	63.6*	43.8*	--	53.7	--
Merschman Madison IV	10-01	34.4	1.3	63.5*	--	--	--	--
NeCo 7392	9-27	34.3	1.0	63.3*	39.2	51.5	51.3	51.3
Gateway 390	10-01	35.2	1.0	63.2*	--	--	--	--
Kruger K-3939	9-22	34.7	1.0	63.1*	44.9*	53.6	54.0	53.9
Wilson 3670	9-22	32.8	1.0	62.5*	44.3*	--	53.4	--
Reeds Brand 330 STS	10-01	37.0	1.7	62.4*	38.1	--	50.3	--
MFA Morsoy 438	10-01	34.7	1.5	62.2*	41.4	--	51.8	--
Asgrow A3244	9-22	29.5	1.0	62.1*	--	--	--	--
Willcross 9540-B	9-28	32.1	1.0	62.0*	--	--	--	--
Lewis 390	9-27	33.3	1.0	61.8*	--	--	--	--
MFA Morsoy 8838	10-01	36.9	1.2	61.5*	41.0	54.5*	51.3	52.3
ICI D371	9-25	33.6	1.0	61.5*	42.0	51.3	51.8	51.6
Golden Harvest H-1353	9-25	34.5	1.2	61.3*	40.1	48.9	50.7	50.1
Pioneer Variety 9306	9-13	29.8	1.0	61.2*	--	--	--	--
Lewis 322	9-22	33.3	1.0	61.2*	46.8*	--	54.0	--
Hamilton	9-25	30.9	1.2	61.0*	33.8	59.8*	47.4	51.5
Willcross 92-A	10-01	34.4	1.0	60.8	41.5	53.0	51.2	51.8
Willcross 92-B	10-01	33.2	1.0	60.7	43.7*	46.3	52.2	50.2
Willcross RR2397	10-01	36.6	1.0	60.7	--	--	--	--
Kruger K-3525	9-23	28.5	1.0	60.6	47.2**	60.9*	53.9	56.2
Kruger K-3939+	9-25	32.5	1.0	60.6	--	--	--	--
NeCo 7384	9-24	31.7	1.0	60.6	--	53.1	--	--

TABLE 4. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Medallion M3205	9-22	31.9	1.0	60.1	--	--	--	--
Merschman Truman IV	9-23	31.6	1.0	60.1	--	49.1	--	--
Dyna-Gro 3368	9-24	31.7	1.3	60.0	41.0	54.5*	50.5	51.8
Kruger K-3505	9-23	33.3	1.0	59.9	--	--	--	--
Dekalb CX377	9-25	33.4	1.0	59.8	--	51.6	--	--
Saline	9-28	35.2	1.0	59.7	--	--	--	--
Midwest Seed Gen. G 3626	9-25	30.9	1.0	59.7	--	--	--	--
Fontanelle 6104	10-01	33.9	1.0	59.6	43.9*	59.5*	51.8	54.3
Lewis 349	9-24	34.1	1.2	59.6	43.4*	--	51.5	--
Terra-TS364	9-25	30.5	1.0	59.5	41.0	--	50.3	--
Kruger K-3737	9-20	31.4	1.0	59.1	--	--	--	--
Kruger K-3828	9-25	30.8	1.0	58.9	--	--	--	--
Kruger K-3949	9-28	31.9	1.2	58.9	--	--	--	--
Mark Seed 9735	9-24	29.7	1.0	58.9	41.9	--	50.4	--
Desoy 3424B	9-21	31.6	1.0	58.7	--	--	--	--
Fontanelle 6100	9-26	30.8	1.0	58.7	41.9	51.0	50.3	50.5
Midwest Seed Gen. G 3410	9-23	31.5	1.2	58.7	--	--	--	--
Lewis 360	9-25	29.4	1.0	58.7	--	--	--	--
NC+ 3A67	9-24	29.4	1.0	58.6	--	--	--	--
Golden Harvest H-1388	9-24	33.4	1.0	58.6	41.7	49.8	50.2	50.0
Kruger K-3333 +	9-23	30.2	1.0	58.2	--	--	--	--
Golden Harvest H-1328	9-22	29.4	1.0	58.0	35.4	52.0	46.7	48.5
Merschman Kennedy IV	9-27	31.8	1.0	57.8	43.1*	48.8	50.5	49.9
Asgrow A3834	10-01	31.6	1.0	57.6	42.8*	--	50.2	--
Kruger K-3727	9-24	30.4	1.0	57.5	46.8*	53.7	52.2	52.7
Desoy 3717	9-24	33.6	1.2	57.5	47.0*	--	52.3	--
Mark Seed 9632	9-22	32.6	1.0	57.4	--	--	--	--
Stine 3470	9-24	29.2	1.0	57.3	--	--	--	--
Patriot 371	9-25	30.8	1.0	57.2	--	--	--	--
Midwest Seed Gen. G 3996	10-01	34.5	1.2	57.1	42.0	--	49.6	--
Pioneer Variety 9362	9-21	30.9	1.0	57.0	41.6	57.9*	49.3	52.2
Mycogen 5373	9-25	32.7	1.0	56.9	38.4	53.3	47.7	49.5
Stine 3480	9-23	32.0	1.0	56.8	--	--	--	--
Northrup King S35-35	9-20	27.8	1.0	56.7	42.5*	51.6	49.6	50.3
Merschman Eisenhower III	10-01	33.8	1.2	56.7	42.6*	57.5*	49.7	52.3
Patriot 337	9-21	27.9	1.0	56.4	--	--	--	--
Dairyland DSR-325	9-19	32.9	1.0	55.8	--	--	--	--
Kruger K-3888	9-28	31.1	1.0	55.8	--	--	--	--
Mycogen 395	9-26	32.1	1.0	55.7	40.8	--	48.3	--
Reeds Brand 390	9-27	33.0	1.0	55.5	42.0	55.5*	48.8	51.0
Iroquois	9-17	31.9	1.0	55.2	--	--	--	--
Fontanelle 3376	9-21	33.2	1.0	54.6	--	--	--	--
Macon	9-25	28.1	1.0	54.4	34.7	--	44.6	--
Terra-TS345	9-26	31.1	1.0	54.3	--	--	--	--
Dairyland DSR-365	9-26	29.7	1.0	54.3	40.1	--	47.2	--
Kruger K-3848	9-23	30.2	1.0	54.1	42.1	54.8*	48.1	50.3
MFA Morsoy 9233	9-22	29.4	1.0	54.0	42.4	50.7	48.2	49.0
Kruger K-3769	9-23	32.3	1.0	53.5	--	45.2	--	--
Terra-TS393	10-01	31.7	1.0	53.4	--	--	--	--
Ciba Seeds 3362	9-26	31.4	1.0	53.3	38.0	55.3*	45.7	48.9
LG Seeds LG6395	9-27	28.2	1.0	53.2	--	--	--	--
LG Seeds LG6369	9-21	31.3	1.0	52.9	--	--	--	--
Stine 3780	9-23	29.9	1.0	52.8	--	--	--	--
Mark Seed 9533	9-21	33.2	1.0	52.5	--	--	--	--
Midwest Seed Gen. G 3555	9-21	32.3	1.0	52.5	40.9	--	46.7	--
Stine 3380	9-19	29.8	1.0	50.9	--	--	--	--
Stine 3870	9-28	29.4	1.0	50.9	--	--	--	--
Northrup King S30-06	9-21	30.4	1.0	50.4	--	--	--	--
Kruger K-3808	9-26	30.0	1.0	50.3	42.8*	55.0*	46.6	49.4
Merschman Fillmore IV	9-22	29.4	1.0	50.2	41.2	50.5	45.7	47.3
Stine 3660	9-23	30.5	1.0	49.4	38.1	51.4	43.8	46.3
Willcross RR2347	9-18	31.6	1.0	48.9	--	--	--	--
Willcross 9531	9-17	24.5	1.0	47.8	40.4	--	44.1	--
Midland 8356	9-21	31.4	1.0	42.5	41.2	--	41.9	--

TABLE 4. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
EXPERIMENTAL VARIETIES								
Kruger K-3555SCN	9-18	31.7	1.0	64.4*	--	--	--	--
Kruger K-3701	9-22	31.3	1.0	62.0*	--	--	--	--
Kruger K-3444SCN	9-20	32.6	1.0	57.6	--	--	--	--
Fontanelle Exp. 9474	9-23	31.3	1.0	55.8	--	--	--	--
Golden Harvest X-316	9-20	26.6	1.0	53.9	--	--	--	--
Mark Seed Ex. 835	9-19	32.3	1.0	51.2	--	--	--	--
MFA Exp. 3758	9-23	32.0	1.0	50.8	--	--	--	--
AVERAGE	9-24	31.8	1.0	58.7	41.0	51.7	49.9	50.5
L.S.D. AT .10 ¹	2	2.1	0.2	8.5	4.7	7.2		
C.V. %	0.5	4.9		10.7	8.3	8.6		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-30							
Asgrow A4341	10-01	32.6	1.2	66.8**	--	--	--	--
Magellan	10-01	37.0	1.0	59.2	38.9*	57.0*	49.1	51.7
Dekalb CX411	9-28	32.8	1.0	59.0	41.7*	55.4*	50.4	52.0
Willcross 9640	10-01	33.9	1.2	58.6	--	--	--	--
Mustang	10-03	38.0	1.3	58.3	--	--	--	--
Kruger K-4101 +	10-01	31.9	1.3	57.1	39.3*	46.3	48.2	47.6
Stine 3973	10-03	34.2	1.0	56.8	--	--	--	--
Merschman Atlanta III	10-02	35.8	1.8	56.6	32.2	58.0*	44.4	48.9
Stressland	10-03	39.5	1.0	56.4	37.2	50.7	46.8	48.1
Reeds Brand 445	10-03	38.3	1.3	56.2	38.0*	61.1**	47.1	51.8
Kruger K-4440	10-01	36.1	1.0	55.9	--	--	--	--
MFA Morsoy 441SCN	10-02	32.0	1.0	55.7	--	--	--	--
Merschman Phoenix	10-03	32.2	1.2	55.7	--	--	--	--
Merschman Cleveland III	10-01	37.1	1.5	55.2	42.5**	49.5	48.9	49.1
ICI D454	10-01	37.5	1.0	54.6	--	--	--	--
MFA Morsoy 8842	10-01	34.9	1.0	54.5	37.4*	50.0	46.0	47.3
Terra-TS474	10-05	36.3	3.0	54.4	35.7	--	45.1	--
Willcross RR2407	10-01	32.8	1.2	54.2	--	--	--	--
Kruger K-4343	10-01	35.9	1.5	54.1	--	--	--	--
Northrup King S42-60	10-01	32.0	1.3	53.9	41.1*	57.5*	47.5	50.8
AgriPro Seeds AP 4020	10-01	30.7	1.0	53.8	--	--	--	--
Terra-TS415	10-01	33.6	1.0	53.7	40.9*	--	47.3	--
Willcross 9540-A	9-28	30.3	1.0	52.2	44.5*	--	48.4	--
Merschman Richmond III	10-02	36.4	1.2	51.7	35.4	--	43.6	--
NC+ 4A10	9-26	33.0	1.0	51.4	35.2	53.9	43.3	46.8
Kruger K-4040 +	9-25	29.4	1.0	50.8	41.2*	--	46.0	--
Midland 8410	9-27	32.0	1.0	50.7	--	--	--	--
Cisne	10-01	32.2	1.2	49.7	40.5*	--	45.1	--
Golden Harvest H-1407	9-26	31.2	1.0	46.7	39.2*	58.0*	43.0	48.0
Terra-TS402	9-26	31.8	1.0	45.4	37.8*	49.6	41.6	44.3
5.0 Maturity Group Check##	10-09							
AVERAGE	9-30	34.0	1.2	54.6	37.4	53.5	46.0	48.5
L.S.D. AT .10 ¹	2	2.0	0.3	7.2	5.2	6.4		
C.V. %	0.4	4.4		9.8	10.4	7.4		
TRIAL AVERAGE		32.2	1.1	57.6	40.0	52.0	48.8	49.9

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

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.

TABLE 5. Performance of Soybean Varieties evaluated at three Northern Missouri locations (Osborn, Chillicothe and Novelty) during 1996.

Osborn Planted: 13 June 1996 Harvested: 17,18 October 1996 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Grundy Silt Loam Previous Crop: Corn SCN Pop. : 0 Eggs G. Season Moisture: 26.3 In.	Chillicothe Planted: 2 May 1996 Harvested: 3 October 1996 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Putnam Silt Loam Previous Crop: Corn SCN Pop.: 0 Eggs G. Season Moisture: 27.1 In.	Novelty Planted: 3 May 1996 Harvested: 8 October 1996 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Putnam Silt Loam Previous Crop: Corn SCN Pop.: 1500 Eggs G. Season Moisture: 27.6 In.
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Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Osborn	Chillicothe	Novelty	Mean	Osborn	Chillicothe	Novelty	Mean

MATURITY GROUP 2

COMMERCIAL VARIETIES

Terra-TS285	1.0	1.0	1.0	1.0	53.5**	25.7	50.1**	43.1**
Reeds Brand 222	1.0	1.0	1.0	1.0	48.9*	24.2	49.8	41.0*
MFA Morsoy 2913	1.0	1.0	1.0	1.0	45.4	30.9**	46.4	40.9*
AVERAGE	1.0	1.0	1.0	1.0	49.3	26.9	48.8	41.7
L.S.D. AT .10	NS	NS	NS	NS	6.3	4.4	NS	2.6
C.V. %					9.3	12.0	5.8	8.7

MATURITY GROUP 3

COMMERCIAL VARIETIES

Willcross RR2357	1.0	1.0	1.0	1.0	57.5*	48.1*	67.3*	57.6**
Pioneer Variety 9395	1.2	1.0	1.0	1.1	59.2*	42.6	69.4**	57.1*
Kruger K-3777	1.0	1.0	1.0	1.0	61.7*	41.4	67.5*	56.9*
Dyna-Gro 3395	1.2	1.0	1.0	1.1	56.8	47.6*	66.0*	56.8*
Gateway 390	1.3	1.0	1.0	1.1	61.9**	44.6*	63.2*	56.6*
MFA Morsoy 9137	1.2	1.0	1.0	1.1	54.3	47.7*	66.8*	56.3*
Kruger K-3606	1.0	1.0	1.0	1.0	58.9*	41.5	66.6*	55.7*
Lewis 390	1.7	1.0	1.0	1.2	58.6*	45.6*	61.8*	55.3*
Kruger K-3939+	1.2	1.0	1.0	1.1	55.9	49.1**	60.6	55.2*
NeCo 7354	1.0	1.0	1.0	1.0	53.6	46.9*	63.7*	54.7*
Lewis 349	1.2	1.1	1.2	1.2	56.5	47.5*	59.6	54.5*
NeCo 7392	1.2	1.0	1.0	1.1	54.3	45.8*	63.3*	54.5*
AgriPro Seeds AP 3616	1.0	1.0	1.0	1.0	54.6	40.2	68.4*	54.4*
Merschman Madison IV	1.3	1.1	1.3	1.2	56.3	43.4*	63.5*	54.4*
Desoy 3717	1.0	1.0	1.2	1.1	58.5*	46.6*	57.5	54.2*
Wilson 3670	1.0	1.0	1.0	1.0	56.3	43.8*	62.5*	54.2*
Kruger K-3828	1.2	1.0	1.0	1.1	56.7	46.7*	58.9	54.1
Kruger K-3939	1.0	1.0	1.0	1.0	56.4	42.6	63.1*	54.0
Willcross 92-B	1.2	1.0	1.0	1.1	55.9	45.0*	60.7	53.9
Hamilton	1.2	1.0	1.2	1.1	53.0	47.0*	61.0*	53.7
Willcross 9536	1.0	1.0	1.0	1.0	54.9	41.3	64.6*	53.6
Terra-TS364	1.0	1.0	1.0	1.0	58.2*	42.8	59.5	53.5
Willcross 9435-B	1.2	1.0	1.0	1.1	51.1	44.7*	64.8*	53.5
Willcross 92-A	1.0	1.0	1.0	1.0	53.5	46.1*	60.8	53.5
Desoy 3424	1.0	1.0	1.0	1.0	53.4	40.8	66.0*	53.4
Golden Harvest H-1353	1.2	1.1	1.2	1.2	54.7	44.0*	61.3*	53.3
NC+ 3A67	1.0	1.0	1.0	1.0	58.7*	42.7	58.6	53.3
Willcross 9435-A	1.0	1.0	1.0	1.0	49.9	44.1*	65.8*	53.3
Merschman Kennedy IV	1.0	1.0	1.0	1.0	56.3	45.7*	57.8	53.3
Lewis 360	1.0	1.0	1.0	1.0	57.2	43.6*	58.7	53.2
Kruger K-3525E	1.0	1.0	1.3	1.1	51.6	40.6	67.3*	53.2
Dekalb CX399	1.2	1.0	1.2	1.1	52.0	43.3*	63.6*	53.0
Reeds Brand 330 STS	1.7	1.1	1.7	1.5	48.9	47.6*	62.4*	53.0
AgriPro Seeds AP 3868	1.0	1.0	1.0	1.0	54.9	38.9	64.8*	52.9
Northrup King S39-11	1.2	1.1	1.3	1.2	50.1	43.9*	64.7*	52.9
Mark Seed 9735	1.2	1.0	1.0	1.1	55.4	44.3*	58.9	52.9
Lewis 322	1.0	1.0	1.0	1.0	53.1	44.1*	61.2*	52.8
Asgrow A3834	1.0	1.0	1.0	1.0	53.9	46.8*	57.6	52.8
MFA Morsoy 8838	1.3	1.1	1.2	1.2	50.2	46.8*	61.5*	52.8

TABLE 5. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Osborn	Chillich	Novelty	Mean	Osborn	Chillich	Novelty	Mean
Terra-TS315	1.2	1.0	1.0	1.1	51.3	40.2	66.3*	52.6
Macon	1.0	1.0	1.0	1.0	56.9	46.6*	54.4	52.6
Midwest Seed Gen. G 3996	1.3	1.0	1.2	1.2	55.9	44.5*	57.1	52.5
MFA Morsoy 438	1.2	1.0	1.5	1.2	50.0	44.9*	62.2*	52.4
Midwest Seed Gen. G 3626	1.0	1.0	1.0	1.0	54.7	42.6	59.7	52.3
NeCo 7384	1.0	1.1	1.0	1.0	53.8	41.8	60.6	52.1
Kruger K-3505	1.0	1.0	1.0	1.0	56.3	39.8	59.9	52.0
Merschman Truman IV	1.0	1.0	1.0	1.0	53.8	41.9	60.1	51.9
Fontanelle 6100	1.0	1.0	1.0	1.0	54.6	42.3	58.7	51.9
Kruger K-3949	1.0	1.0	1.2	1.1	53.1	43.0	58.9	51.7
Stine 3870	1.2	1.0	1.0	1.1	56.9	47.4*	50.9	51.7
Willcross 9540-B	1.0	1.0	1.0	1.0	52.3	40.8	62.0*	51.7
Fontanelle 6104	1.2	1.0	1.0	1.1	55.4	39.9	59.6	51.6
Kruger K-3525	1.0	1.0	1.0	1.0	53.0	41.0	60.6	51.5
Golden Harvest H-1388	1.3	1.0	1.0	1.1	55.8	40.1	58.6	51.5
ICI D371	1.0	1.1	1.0	1.0	53.7	39.3	61.5*	51.5
Merschman Fillmore IV	1.0	1.0	1.0	1.0	58.6*	45.1*	50.2	51.3
Asgrow A3244	1.2	1.0	1.0	1.1	56.6	35.2	62.1*	51.3
Pioneer Variety 9352	1.2	1.0	1.0	1.1	50.3	38.1	65.2*	51.2
Kruger K-3333+	1.2	1.0	1.0	1.1	55.7	39.8	58.2	51.2
Mycogen 5373	1.2	1.1	1.0	1.1	49.6	46.5*	56.9	51.0
Kruger K-3848	1.0	1.0	1.0	1.0	57.9*	41.0	54.1	51.0
Desoy 3424B	1.2	1.0	1.0	1.1	52.6	41.4	58.7	50.9
Dyna-Gro 3368	1.0	1.0	1.3	1.1	54.3	37.8	60.0	50.7
Reeds Brand 390	1.0	1.0	1.0	1.0	50.2	46.4*	55.5	50.7
Kruger K-3769	1.0	1.0	1.0	1.0	54.5	44.0*	53.5	50.7
Terra-TS393	1.2	1.0	1.0	1.1	53.8	44.8*	53.4	50.7
Kruger K-3737	1.0	1.0	1.0	1.0	54.0	38.7	59.1	50.6
Stine 3780	1.3	1.0	1.0	1.1	57.5*	41.4	52.8	50.6
Saline	1.3	1.0	1.0	1.1	47.9	44.3*	59.7	50.6
Stine 3480	1.2	1.0	1.0	1.1	54.4	39.3	56.8	50.2
Ciba Seeds 3362	1.0	1.0	1.0	1.0	54.9	42.4	53.3	50.2
Mark Seed 9632	1.0	1.0	1.0	1.0	48.2	44.2*	57.4	49.9
Patriot 337	1.0	1.0	1.0	1.0	55.1	37.9	56.4	49.8
Medallion M3205	1.0	1.0	1.0	1.0	49.7	39.7	60.1	49.8
Stine 3660	1.0	1.0	1.0	1.0	58.5*	41.6	49.4	49.8
Kruger K-3808	1.5	1.0	1.0	1.2	54.3	44.9*	50.3	49.8
Willcross RR2397	1.3	1.1	1.0	1.1	47.1	41.2	60.7	49.7
Dairyland DSR-365	1.0	1.0	1.0	1.0	55.8	38.7	54.3	49.6
LG Seeds LG6369	1.0	1.0	1.0	1.0	56.6	39.4	52.9	49.6
Dekalb CX377	1.2	1.0	1.0	1.1	50.4	38.1	59.8	49.4
Kruger K-3888	1.2	1.0	1.0	1.1	52.6	39.4	55.8	49.3
Terra-TS345	1.0	1.0	1.0	1.0	54.9	38.8	54.3	49.3
LG Seeds LG6395	1.2	1.0	1.0	1.1	56.1	38.7	53.2	49.3
Patriot 371	1.0	1.0	1.0	1.0	55.2	35.1	57.2	49.2
Iroquois	1.0	1.0	1.0	1.0	53.3	39.2	55.2	49.2
Mycogen 395	1.0	1.0	1.0	1.0	52.7	39.0	55.7	49.1
Merschman Eisenhower III	1.0	1.0	1.2	1.1	53.2	37.0	56.7	49.0
Midwest Seed Gen. G 3410	1.3	1.0	1.2	1.2	53.6	34.5	58.7	48.9
Stine 3470	1.0	1.0	1.0	1.0	52.0	37.3	57.3	48.9
Pioneer Variety 9306	1.0	1.0	1.0	1.0	49.7	35.5	61.2*	48.8
Northrup King S35-35	1.0	1.0	1.0	1.0	52.9	36.2	56.7	48.6
Dairyland DSR-325	1.0	1.0	1.0	1.0	53.4	36.3	55.8	48.5
Mark Seed 9533	1.2	1.0	1.0	1.1	53.6	38.6	52.5	48.2
Willcross RR2347	1.0	1.0	1.0	1.0	52.9	42.9	48.9	48.2
Northrup King S30-06	1.0	1.0	1.0	1.0	54.4	39.8	50.4	48.2
Kruger K-3727	1.0	1.0	1.0	1.0	51.9	34.0	57.5	47.8
Midwest Seed Gen. G 3555	1.0	1.0	1.0	1.0	55.0	34.4	52.5	47.3
Fontanelle 3376	1.0	1.0	1.0	1.0	53.1	33.7	54.6	47.1
Pioneer Variety 9362	1.0	1.0	1.0	1.0	47.0	36.3	57.0	46.8
MFA Morsoy 9233	1.0	1.0	1.0	1.0	50.2	35.8	54.0	46.7
Golden Harvest H-1328	1.0	1.0	1.0	1.0	46.8	33.4	58.0	46.1
Midland 8356	1.2	1.0	1.0	1.1	54.8	40.9	42.5	46.1
Stine 3380	1.0	1.0	1.0	1.0	49.3	35.7	50.9	45.3
Willcross 9531	1.0	1.0	1.0	1.0	49.3	36.9	47.8	44.7

TABLE 5. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Osborn	Chillico	Novelty	Mean	Osborn	Chillico	Novelty	Mean
EXPERIMENTAL VARIETIES								
Kruger K-3701	1.0	1.0	1.0	1.0	55.8	42.6	62.0*	53.5
MFA Exp. 3758	1.0	1.0	1.0	1.0	59.1*	42.2	50.8	50.7
Kruger K-3555SCN	1.0	1.0	1.0	1.0	49.0	36.7	64.4*	50.0
Mark Seed Ex. 835	1.0	1.0	1.0	1.0	55.3	38.7	51.2	48.4
Golden Harvest X-316	1.0	1.0	1.0	1.0	52.8	38.2	53.9	48.3
Fontanelle Exp. 9474	1.3	1.0	1.0	1.1	50.4	37.4	55.8	47.9
Kruger K-3444SCN	1.0	1.0	1.0	1.0	47.8	37.7	57.6	47.7
AVERAGE	1.1	1.0	1.1	1.1	54.0	41.5	58.7	51.4
L.S.D. AT .10	0.3	NS	0.2	0.1	4.6	5.8	8.5	3.4
C.V. %					6.3	10.3	10.7	10.0
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
Reeds Brand 445	1.7	1.1	1.3	1.4	56.3	57.4**	56.2	56.6**
Willcross 9640	1.8	1.1	1.2	1.4	58.3*	50.1	58.6	55.7*
Merschman Atlanta III	2.7	1.2	1.8	1.9	62.3**	47.1	56.6	55.3*
Magellan	1.7	1.1	1.0	1.3	56.5	47.2	59.2	54.3*
Asgrow A4341	1.3	1.0	1.2	1.2	57.0	38.1	66.8**	54.0*
Dekalb CX411	1.0	1.0	1.0	1.0	56.3	46.1	59.0	53.8*
Terra-TS474	2.5	1.1	3.0	2.2	56.9	48.8	54.4	53.4
Terra-TS415	1.7	1.0	1.0	1.2	59.5*	46.5	53.7	53.2
Merschman Phoenix	1.2	1.0	1.2	1.1	57.8*	45.5	55.7	53.0
Kruger K-4440	1.0	1.2	1.0	1.1	49.9	52.5*	55.9	52.8
Willcross RR2407	1.3	1.0	1.2	1.2	54.1	50.2	54.2	52.8
Stine 3973	1.0	1.1	1.0	1.0	56.1	44.4	56.8	52.4
Kruger K-4101 +	1.3	1.0	1.3	1.2	52.2	46.0	57.1	51.8
Mustang	2.0	1.0	1.3	1.4	53.0	43.1	58.3	51.5
Merschman Cleveland III	1.8	1.2	1.5	1.5	54.7	44.2	55.2	51.4
Midland 8410	1.2	1.0	1.0	1.1	55.5	47.6	50.7	51.3
Stressland	1.7	1.1	1.0	1.3	52.9	43.4	56.4	50.9
MFA Morsoy 441SCN	1.7	1.0	1.0	1.2	54.9	41.7	55.7	50.8
ICI D454	1.5	1.0	1.0	1.2	54.8	43.0	54.6	50.8
MFA Morsoy 8842	1.7	1.0	1.0	1.2	54.1	43.1	54.5	50.6
Northrup King S42-60	1.5	1.1	1.3	1.3	56.1	41.2	53.9	50.4
Merschman Richmond III	1.8	1.0	1.2	1.3	54.8	43.6	51.7	50.0
Kruger K-4343	1.5	1.0	1.5	1.3	56.2	39.3	54.1	49.9
Kruger K-4040 +	1.2	1.0	1.0	1.1	58.3*	40.1	50.8	49.7
Cisne	1.2	1.0	1.2	1.1	52.5	46.0	49.7	49.4
NC+ 4A10	1.2	1.0	1.0	1.1	54.6	41.6	51.4	49.2
Willcross 9540-A	1.0	1.0	1.0	1.0	51.3	44.1	52.2	49.2
AgriPro Seeds AP 4020	1.0	1.0	1.0	1.0	48.1	43.6	53.8	48.5
Terra-TS402	1.0	1.0	1.0	1.0	52.5	46.7	45.4	48.2
Golden Harvest H-1407	1.2	1.0	1.0	1.1	52.7	41.3	46.7	46.9
AVERAGE	1.5	1.0	1.2	1.2	55.0	45.1	54.6	51.6
L.S.D. AT .10	0.5	0.1	0.3	0.2	4.6	5.2	7.2	2.9
C.V. %					6.1	8.6	9.8	8.4
TRIAL AVERAGE	1.2	1.0	1.1	1.1	54.1	42.0	57.6	51.2

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety at the .10 level.

NS Not significant.

TABLE 6. Performance of Soybean Varieties evaluated near Grand Pass (Saline County) on the Ryland Utlaut Farm during 1995-96, near Marshall on the Frank Swisher Farm during 1994.

Planted: 21 May 1996
 Harvested: 14 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Heynie Silt Loam
 Soil Test: pH=6.4, OM=1.9%, P=39, K=313

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

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=8.1, June=3.6, July=6.7, Aug.=1.2, Sept.=2.5, TOTAL=22.1 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-13							
Terra-TS364	9-17	41.6	1.2	75.2**	50.2	--	62.7	--
Kruger K-3606	9-15	42.3	1.4	74.2*	--	--	--	--
Kruger K-3939+	9-17	46.3	1.5	74.1*	--	--	--	--
Stine 3870	9-22	45.0	1.2	73.7*	--	--	--	--
Stine 3780	9-21	44.8	1.2	73.4*	--	--	--	--
Asgrow A3834	9-21	41.5	1.0	72.1*	50.0	--	61.1	--
Merschman Kennedy IV	9-15	46.2	1.1	71.9*	52.7	62.8*	62.3	62.5
Kruger K-3769	9-15	43.9	1.1	71.5*	54.2	69.5*	62.9	65.1
Pioneer Variety 9395	9-18	44.4	1.0	71.1*	--	--	--	--
Macon	9-16	43.9	1.5	71.1*	45.3	--	58.2	--
AgriPro Seeds AP 3616	9-15	39.4	1.0	70.9*	--	--	--	--
Willcross 9540-B	9-21	42.3	1.0	70.9*	--	--	--	--
Merschman Madison IV	9-21	42.3	1.3	70.8*	--	--	--	--
NeCo 7392	9-21	47.2	1.4	70.8*	50.2	63.4*	60.5	61.5
Stine 3660	9-16	41.0	1.1	70.6*	52.9	--	61.8	--
Dyna-Gro 3368	9-16	44.5	1.2	70.6*	53.6	57.6	62.1	60.6
NeCo 7384	9-15	45.0	1.1	70.3*	--	61.5	--	--
LG Seeds LG6395	9-20	43.6	1.2	70.3*	--	--	--	--
Kruger K-3888	9-18	45.9	1.0	70.2	--	--	--	--
Bergmann-Taylor 366STS	9-18	45.3	2.4	70.1	50.4	--	60.3	--
Hamilton	9-20	44.4	1.5	69.5	48.6	52.6	59.1	56.9
Pioneer Variety 9352	9-14	42.0	1.1	69.4	--	--	--	--
Midland 8356	9-17	44.6	1.0	69.4	--	--	--	--
Lewis 390	9-21	46.6	1.6	69.3	54.0	--	61.7	--
Asgrow A3732	9-18	49.0	1.0	69.1	51.5	--	60.3	--
Patriot 391	9-21	46.7	2.2	68.9	--	--	--	--
Willcross 92-B	9-20	45.0	1.2	68.7	45.2	58.8	57.0	57.6
Kruger K-3737	9-14	45.9	1.5	68.6	--	--	--	--
Dyna-Gro 3395	9-21	46.2	1.8	68.6	--	--	--	--
Pioneer Variety 9381	9-18	41.6	1.0	68.4	48.6	65.7*	58.5	60.9
Kruger K-3505	9-14	43.0	1.5	68.0	--	--	--	--
Willcross 9536	9-14	44.9	1.2	67.8	51.6	--	59.7	--
Mycogen 5373	9-15	43.0	1.2	67.5	54.0	67.2*	60.8	62.9
Saline	9-19	48.2	1.7	67.4	--	--	--	--
Willcross 9435-B	9-13	43.5	1.2	67.3	45.9	59.8	56.6	57.7
Willcross 92-A	9-21	46.1	1.4	67.3	49.6	64.8*	58.5	60.6
MFA Morsoy 438	9-20	46.1	1.2	67.0	50.3	--	58.7	--
Ciba Seeds 3362	9-13	44.0	1.2	67.0	58.5*	59.6	62.8	61.7
Patriot 390	9-19	44.9	1.2	66.9	--	--	--	--
Kruger K-3525	9-11	40.1	1.1	66.9	60.0**	--	63.5	--
Dekalb CX399	9-19	46.8	1.5	66.8	55.0	51.7	60.9	57.8
Kruger K-3939	9-19	45.8	1.2	66.5	52.1	61.8	59.3	60.1
Merschman Eisenhower III	9-20	46.2	1.0	66.0	49.4	64.4*	57.7	59.9
Golden Harvest H-1353	9-16	43.2	1.2	65.9	57.8*	68.2*	61.9	64.0
MFA Morsoy 9137	9-16	43.0	1.2	65.8	56.8*	66.2*	61.3	62.9
NC+ 3A96	9-22	49.3	1.0	65.3	--	--	--	--
Lewis 367	9-17	47.4	1.2	65.3	--	--	--	--
Reeds Brand 390	9-20	43.1	1.0	65.1	52.9	59.6	59.0	59.2
Stine 3480	9-13	43.5	1.4	65.1	--	--	--	--
AgriPro Seeds AP 3868	9-17	42.2	1.0	65.1	--	--	--	--

TABLE 6. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Kruger K-3525E	9-12	43.4	1.6	65.1	--	--	--	--
Terra-TS345	9-16	43.5	1.0	64.9	--	--	--	--
Terra-TS393	9-21	45.5	1.0	64.6	--	--	--	--
Willcross 9435-A	9-15	39.6	1.2	63.9	51.9	63.8*	57.9	59.9
Lewis 391	9-16	44.6	1.1	63.8	--	--	--	--
Northrup King S39-11	9-20	48.7	1.5	63.8	46.9	63.6*	55.4	58.1
Reeds Brand 330 STS	9-22	47.7	1.6	63.5	49.2	--	56.4	--
NeCo 7354	9-13	42.6	1.2	63.5	53.0	58.8	58.3	58.4
Pioneer Variety 9362	9-9	43.9	1.1	63.3	48.6	71.3**	56.0	61.1
Golden Harvest H-1328	9-16	43.0	1.0	61.9	--	--	--	--
Willcross RR2397	9-20	45.0	1.0	61.2	--	--	--	--
MFA Morsoy 8838	9-20	47.7	1.5	61.2	48.1	51.4	54.7	53.6

EXPERIMENTAL VARIETIES

MFA Exp. 3758	9-16	43.4	1.2	73.0*	--	--	--	--
Prize Exp. 9-3	9-15	41.9	1.5	67.4	--	--	--	--
Prize Exp. 2-15	9-12	46.2	1.0	67.1	--	--	--	--
Fontanelle Exp. 9474	9-14	41.3	1.0	67.1	--	--	--	--
Prize Exp. 5-4	9-16	46.1	1.3	66.7	--	--	--	--
Dairyland DST 3308	9-15	48.8	2.2	66.0	--	--	--	--
AVERAGE	9-17	44.5	1.3	68.0	50.8	59.0	59.4	59.3
L.S.D. AT .10 ¹	2	2.8	0.4	4.9	4.6	9.4		
C.V.%	0.7	4.7		5.3	6.6	9.7		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-22							
NC+ 4A47	9-28	47.9	2.2	76.2**	--	--	--	--
Willcross 9447-B	9-24	47.5	2.5	74.7*	46.6	54.5*	60.7	58.6
Northrup King S42-60	9-23	45.7	1.9	73.5*	48.4	52.0*	61.0	58.0
NeCo 7446	9-27	49.7	1.0	72.7*	--	--	--	--
Mycogen 470	9-27	49.8	1.9	72.4*	45.7	--	59.1	--
Stine 4650	9-26	47.1	2.7	71.9*	44.1	56.0*	58.0	57.3
Willcross RR2407	9-22	45.1	1.7	71.9*	--	--	--	--
NeCo 7416	9-22	45.4	1.7	70.7*	--	--	--	--
Willcross 9447-A	9-28	50.9	2.3	70.4	44.4	54.1*	57.4	56.3
Merschman Nashville	9-28	48.9	1.8	70.0	48.0	--	59.0	--
Golden Harvest H-1407	9-21	43.7	1.1	69.9	49.7	52.6*	59.8	57.4
Medallion M4007	9-21	41.0	1.1	69.6	--	--	--	--
Kruger K-4040+	9-21	40.1	1.0	69.3	54.8**	--	62.1	--
Gateway 400	9-22	46.6	1.1	69.1	--	--	--	--
Dekalb CX445	9-26	49.7	1.9	68.7	--	--	--	--
KS4694	9-28	47.5	1.2	68.7	48.4	47.4	58.6	54.8
Kruger K-4242	9-24	46.8	1.0	68.6	--	--	--	--
Midland 8410	9-22	43.8	1.0	68.5	--	--	--	--
Willcross 9640	9-22	43.6	2.0	68.3	--	--	--	--
AgriPro Seeds AP 4400	9-23	46.9	1.7	68.2	46.3	--	57.3	--
AgriPro Seeds AP 4343	9-22	45.8	1.2	68.2	51.3*	--	59.8	--
NeCo 7484	9-27	49.2	1.8	67.9	46.3	47.4	57.1	53.9
Northrup King S46-44	9-27	52.4	1.6	67.9	--	51.8*	--	--
Merschman Atlanta III	9-27	46.5	2.7	67.9	42.9	54.1*	55.4	55.0
Terra-TS474	9-23	47.2	2.0	67.9	40.2	--	54.1	--
ICI D454	9-26	51.3	2.1	67.7	--	--	--	--
Terra-TS402	9-21	45.7	1.2	67.7	47.7	46.8	57.7	54.1
Stine 3973	9-26	45.0	1.8	67.7	--	--	--	--
Merschman Phoenix	9-27	43.6	1.8	67.6	--	--	--	--
Willcross 9540-A	9-22	43.4	1.0	67.6	47.3	--	57.5	--
Merschman Cleveland III	9-26	53.3	1.8	67.6	--	47.3	--	--
Reeds Brand 445	9-27	47.9	1.7	67.6	49.3	53.6*	58.5	56.8

TABLE 6. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Patriot 451	9-25	46.6	1.4	67.3	--	--	--	--
Terra-TS415	9-21	42.9	1.2	67.1	50.9*	--	59.0	--
Kruger K-4440	9-22	47.8	1.0	67.0	--	--	--	--
Kruger K-4545	9-26	50.5	1.5	66.9	48.5	--	57.7	--
Kruger K-4343	9-22	49.1	1.5	66.7	--	--	--	--
Kruger K-4101+	9-21	47.3	1.0	66.6	49.6	41.6	58.1	52.6
Magellan	9-23	46.6	1.7	66.5	46.3	48.0	56.4	53.6
Cisne	9-22	42.9	1.1	66.5	48.7	--	57.6	--
Merschman Richmond III	9-26	49.9	1.8	66.5	50.1	--	58.3	--
Asgrow A4341	9-24	43.9	1.0	66.3	--	--	--	--
Dekalb CX411	9-21	41.8	1.0	66.1	52.2*	56.0*	59.2	58.1
Patriot 7415	9-22	50.6	1.5	66.0	--	--	--	--
MFA Morsoy 9245SCN	9-24	50.0	1.4	65.8	49.1	50.9*	57.5	55.3
Mycogen 429	9-23	44.6	1.7	65.6	48.2	--	56.9	--
Merschman Houston III	9-28	50.4	2.8	65.1	45.8	53.2*	55.5	54.7
MFA Morsoy 9348	9-27	50.5	2.1	64.8	48.9	45.8	56.9	53.2
Mycogen 5430	9-23	42.2	1.0	64.5	--	--	--	--
Stressland	9-26	45.4	1.5	64.3	46.8	48.4	55.6	53.2
Ciba Seeds 3474	9-26	48.8	1.7	63.9	45.5	--	54.7	--
Mustang	9-25	50.0	1.3	63.8	--	--	--	--
NC+ 4A10	9-21	42.6	1.0	63.2	--	--	--	--
MFA Morsoy 444SCN	9-28	51.0	1.2	63.1	47.9	--	55.5	--
MFA Morsoy 8842	9-22	48.3	1.5	62.4	45.8	48.7*	54.1	52.3
Asgrow A4138	9-23	46.4	2.3	62.1	46.6	48.1	54.4	52.3
Willcross 9345	9-25	48.8	1.8	61.0	--	48.8*	--	--
LG Seeds JMS4240	9-24	49.8	1.8	60.6	47.2	55.7*	53.9	54.5
MFA Morsoy 441SCN	9-24	48.3	2.3	60.0	--	--	--	--
Willcross RR2467	9-28	53.5	2.3	59.3	--	--	--	--
EXPERIMENTAL VARIETIES								
S92-2712	9-22	42.9	1.1	66.8	--	--	--	--
S92-2716	9-22	41.5	1.0	64.0	--	--	--	--
5.0 Maturity group Check##	10-03							
AVERAGE	9-24	47.0	1.6	67.2	47.3	49.9	57.2	54.8
L.S.D. AT .10 ¹	2	3.8	0.6	5.7	4.2	7.6		
C.V. %	0.6	5.6		6.2	6.4	9.4		
TRIAL AVERAGE		45.7	1.4	67.6	49.0	54.7	58.3	57.1

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

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

TABLE 7. Performance of Soybean Varieties evaluated near Columbia (Boone County) on the Agronomy Research Center during 1995-96

Planted: 25 April 1996
 Harvested: 19 September 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.8, OM=2.4%, P=131, K=430

Fertilizer: N=0; P₂O₅=70; K₂O=90
 Herbicide: Pre: Dual + Lexone
 Post: Poast +, Blazer
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 1970 Eggs / 250cc of Soil
 Growing Season Rainfall: May=3.5, June=4.0, July=5.4, Aug.=1.8, Sept.=4.7, TOTAL=19.4 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	MATURITY GROUP 3							
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-01							
Dyna-Gro 3368	9-06	31.9	1.0	42.7*	41.1*	--	41.9	--
Northrup King S39-11	9-07	35.9	1.1	42.6*	43.9*	--	43.3	--
Pioneer Variety 9362	9-03	27.9	1.0	42.5*	45.6*	--	44.1	--
LG Seeds LG6395	9-09	25.6	1.0	41.2*	--	--	--	--
Asgrow A3732	9-08	29.9	1.1	41.1*	39.2	--	40.2	--
Dyna-Gro 3395	9-08	31.9	1.0	40.8*	--	--	--	--
Pioneer Variety 9395	9-06	29.6	1.0	40.6*	--	--	--	--
MFA Morsoy 9137	9-07	29.1	1.0	40.5*	39.0	--	39.8	--
Merschman Kennedy IV	9-07	29.6	1.1	40.3*	40.7*	--	40.5	--
Stine 3480	9-04	27.1	1.0	40.3*	--	--	--	--
Lewis 391	9-05	33.1	1.0	40.2*	--	--	--	--
Saline	9-06	33.6	1.2	40.1*	--	--	--	--
AgriPro Seeds AP 3616	9-05	26.0	1.0	39.8*	--	--	--	--
NC + 3A96	9-06	31.0	1.0	39.6*	--	--	--	--
Hamilton	9-07	24.7	1.0	39.3*	37.1	--	38.2	--
Stine 3660	9-07	26.3	1.0	39.3*	41.8*	--	40.6	--
NeCo 7384	9-07	24.9	1.0	39.3*	--	--	--	--
Kruger K-3606	9-01	25.5	1.0	39.2*	--	--	--	--
Pioneer Variety 9381	9-04	26.7	1.0	38.9*	40.8*	--	39.8	--
Kruger K-3939 +	9-06	29.1	1.0	38.8*	--	--	--	--
Terra-TS393	9-09	29.4	1.1	38.7*	--	--	--	--
MFA Morsoy 8838	9-09	31.4	1.0	38.4*	41.0*	--	39.7	--
Merschman Madison IV	9-09	31.3	1.0	38.3*	--	--	--	--
Stine 3780	9-06	26.6	1.0	38.2*	--	--	--	--
Kruger K-3525	9-01	25.9	1.0	38.0*	41.7*	--	39.9	--
Pioneer Variety 9352	9-05	25.5	1.0	37.8*	--	--	--	--
Willcross 92-B	9-09	29.2	1.0	37.6*	42.4*	--	40.0	--
Willcross 9435-A	9-05	27.2	1.0	37.6*	42.1*	--	39.9	--
Willcross 92-A	9-09	27.0	1.0	37.5*	46.4**	--	42.0	--
Kruger K-3505	9-04	28.2	1.0	37.5*	--	--	--	--
Macon	9-06	26.1	1.0	37.3*	45.8*	--	41.6	--
Terra-TS364	9-06	25.7	1.0	37.0	43.2*	--	40.1	--
Kruger K-3737	9-03	27.7	1.0	36.9	--	--	--	--
Lewis 390	9-08	27.3	1.0	36.8	42.8*	--	39.8	--
Kruger K-3939	9-05	31.7	1.0	36.8	39.7	--	38.3	--
MFA Morsoy 438	9-08	29.4	1.1	36.6	34.6	--	35.6	--
Ciba Seeds 3362	9-06	29.2	1.0	36.0	39.1	--	37.6	--
NeCo 7392	9-09	28.0	1.0	35.9	37.4	--	36.7	--
NeCo 7354	9-07	25.7	1.0	35.7	44.8*	--	40.3	--
Golden Harvest H-1353	9-06	29.3	1.0	35.5	41.7*	--	38.6	--
Merschman Eisenhower III	9-08	31.3	1.0	35.3	38.8	--	37.1	--
Reeds Brand 330 STS	9-10	30.0	1.0	35.1	36.8	--	36.0	--
Mycogen 5373	9-06	29.0	1.0	35.1	37.8	--	36.5	--
Asgrow A3834	9-09	27.2	1.0	35.1	44.8*	--	40.0	--
Stine 3870	9-09	26.5	1.0	35.0	--	--	--	--
Patriot 391	9-07	26.5	1.0	34.4	--	--	--	--
Dekalb CX399	9-06	28.6	1.0	33.9	37.8	--	35.8	--
Willcross 9435-B	9-04	24.6	1.0	33.9	38.1	--	36.0	--
Golden Harvest H-1328	9-02	26.1	1.0	33.9	--	--	--	--
Golden Harvest K-3888	9-06	26.8	1.0	33.9	--	--	--	--

TABLE 7. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Patriot 390	9-08	26.7	1.0	33.3	--	--	--	--
Willcross 9536	9-07	28.0	1.0	33.2	41.3*	--	37.3	--
Bergmann-Taylor 366STS	9-07	30.6	1.0	33.0	39.5	--	36.3	--
Lewis 367	9-04	31.6	1.0	32.9	--	--	--	--
AgriPro Seeds AP 3868	9-06	26.5	1.0	32.4	--	--	--	--
Willcross RR2397	9-10	28.9	1.0	32.3	--	--	--	--
Kruger K-3769	9-05	27.8	1.0	32.2	44.3*	--	38.3	--
Willcross 9540-B	9-04	26.8	1.0	31.5	--	--	--	--
Kruger K-3525E	9-04	24.7	1.0	31.3	--	--	--	--
Reeds Brand 390	9-09	23.8	1.0	30.4	40.3*	--	35.3	--
Midland 8356	9-05	27.2	1.0	30.2	--	--	--	--
Terra-TS345	9-05	24.4	1.0	27.0	--	--	--	--
EXPERIMENTAL VARIETIES								
Prize Exp. 5-4	9-04	31.1	1.0	43.5**	--	--	--	--
MFA Exp. 3758	9-07	27.0	1.0	42.8*	--	--	--	--
Dairyland DST 3308	9-05	29.9	1.0	40.9*	--	--	--	--
Prize Exp. 2-15	9-02	30.2	1.0	37.4*	--	--	--	--
Fontanelle Exp.9474	9-02	25.7	1.0	35.7	--	--	--	--
Prize Exp. 9-3	9-01	29.6	1.0	34.9	--	--	--	--
AVERAGE	9-06	28.2	1.0	36.9	40.1		38.5	
L.S.D. AT .10 ¹	2	2.7	0.1	6.4	6.6			
C.V.%	0.5	7.0		12.6	12.0			

MATURITY GROUP 4**COMMERCIAL VARIETIES**

4.0 Maturity Group Check##	9-10							
Magellan	9-10	32.8	1.0	53.7**	45.4*	--	49.6	--
MFA Morsoy 444SCN	9-18	34.6	1.4	53.2*	48.6*	--	50.9	--
Northrup King S46-44	9-15	37.1	1.1	51.6*	--	--	--	--
MFA Morsoy 9245SCN	9-12	35.5	1.0	51.5*	43.4	--	47.5	--
Asgrow A4138	9-09	33.6	1.0	50.8*	48.1*	--	49.5	--
Mycogen 5430	9-12	27.9	1.0	50.0*	--	--	--	--
MFA Morsoy 9348	9-17	34.7	1.1	48.9*	50.1**	--	49.5	--
Mustang	9-13	34.1	1.0	48.9*	--	--	--	--
Northrup King S42-60	9-11	31.4	1.0	48.9*	44.3*	--	46.6	--
NC+ 4A47	9-13	32.5	1.4	48.7*	--	--	--	--
NeCo 7416	9-09	31.3	1.0	48.5*	--	--	--	--
Willcross RR2407	9-09	31.4	1.1	48.3*	--	--	--	--
Asgrow A4341	9-10	29.4	1.1	48.1	--	--	--	--
Kruger K-4545	9-15	37.1	1.0	47.9	44.6*	--	46.3	--
AgriPro Seeds AP 4400	9-12	30.0	1.0	47.9	44.9*	--	46.4	--
MFA Morsoy 441SCN	9-09	29.4	1.0	47.8	--	--	--	--
Willcross 9345	9-12	32.8	1.0	47.6	--	--	--	--
Merschman Houston III	9-16	34.1	1.1	47.6	42.4	--	45.0	--
NeCo 7446	9-18	33.2	1.1	47.2	--	--	--	--
Dekalb CX445	9-12	34.1	1.0	47.1	--	--	--	--
NC+ 4A10	9-09	27.5	1.0	47.1	--	--	--	--
Merschman Atlanta III	9-15	33.7	1.4	47.0	39.9	--	43.5	--
ICI D454	9-10	32.3	1.0	46.9	--	--	--	--
Ciba Seeds 3474	9-12	35.9	1.0	46.8	40.0	--	43.4	--
Willcross 9447-A	9-16	34.8	1.1	46.5	38.2	--	42.4	--
Merschman Nashville	9-15	36.0	1.2	46.4	42.6	--	44.5	--
Mycogen 470	9-15	34.9	1.0	46.1	40.9	--	43.5	--
Merschman Richmond III	9-11	33.8	1.0	46.1	42.5	--	44.3	--
Patriot 7415	9-08	34.1	1.1	46.0	--	--	--	--
KS4694	9-18	31.2	1.0	45.8	35.1	--	40.5	--
Medallion M4007	9-06	28.8	1.0	45.8	--	--	--	--
Willcross 9640	9-09	28.7	1.0	45.5	--	--	--	--

TABLE 7. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MFA Morsoy 8842	9-09	32.8	1.0	45.2	47.3*	--	46.3	--
LG Seeds JMS4240	9-09	31.3	1.0	45.1	46.1*	--	45.6	--
Kruger K-4101 +	9-09	30.4	1.0	45.0	46.0*	--	45.5	--
Mycogen 429	9-10	33.5	1.0	44.9	42.5	--	43.7	--
NeCo 7484	9-16	34.0	1.1	44.9	47.3*	--	46.1	--
Stine 4650	9-12	33.4	1.5	44.7	42.9	--	43.8	--
Kruger K-4440	9-11	33.6	1.1	44.5	--	--	--	--
Reeds Brand 445	9-15	35.8	1.0	44.1	45.9*	--	45.0	--
Midland 8410	9-09	26.6	1.0	44.1	--	--	--	--
AgriPro Seeds AP 4343	9-11	28.0	1.0	44.0	42.8	--	43.4	--
Cisne	9-12	27.3	1.0	43.9	49.0*	--	46.5	--
Terra-TS402	9-09	28.4	1.0	43.8	44.6*	--	44.2	--
Kruger K-4343	9-08	32.5	1.0	43.7	--	--	--	--
Willcross 9540-A	9-08	26.2	1.0	43.4	41.2	--	42.3	--
Kruger K-4242	9-09	27.0	1.0	43.4	--	--	--	--
Willcross 9447-B	9-13	36.6	1.1	43.3	44.7*	--	44.0	--
Stressland	9-12	34.9	1.0	43.3	40.6	--	42.0	--
Stine 3973	9-14	29.5	1.0	43.3	--	--	--	--
Dekalb CX411	9-09	25.9	1.0	43.1	40.2	--	41.7	--
Willcross RR2467	9-19	37.2	1.2	43.0	--	--	--	--
Merschman Cleveland III	9-11	34.0	1.1	42.8	--	--	--	--
Kruger K-4040 +	9-07	25.4	1.0	42.6	46.5*	--	44.6	--
Terra-TS474	9-17	33.2	1.1	42.5	38.8	--	40.7	--
Golden Harvest H-1407	9-08	27.4	1.0	42.5	50.1**	--	46.3	--
Merschman Phoenix	9-12	28.8	1.0	41.4	--	--	--	--
Terra-TS415	9-09	27.3	1.0	41.4	44.6*	--	43.0	--
Gateway 400	9-08	27.1	1.0	40.3	--	--	--	--
Patriot 451	9-12	29.6	1.0	40.3	--	--	--	--
EXPERIMENTAL VARIETIES								
S92-2716	9-09	26.7	1.0	43.5	--	--	--	--
S92-2712	9-09	27.2	1.0	42.1	--	--	--	--
5.0 Maturity group Check##	9-20							
AVERAGE	9-12	31.6	1.1	45.8	43.0		44.4	
L.S.D. AT .10 ¹	2	2.7	0.2	5.4	6.2			
C.V.%	0.6	6.3		8.6	10.5			
TRIAL AVERAGE		29.8	1.0	41.2	41.6		41.4	

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

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

TABLE 8. Performance of Soybean Varieties evaluated near High Hill (Montgomery County) on the John Cobb Farm during 1994-96.

Planted: 26 April 1996
 Harvested: 30 September 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.2, OM=2.6%, P=36, K=293

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

Cyst Nematode Population at Harvest: 200 Eggs / 250cc of Soil
 Growing Season Rainfall: May=6.5, June=5.5, July=6.3, Aug.=4.3, Sept.=2.4, TOTAL=24.8 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-10							
Stine 3870	9-12	31.1	1.0	65.5**	--	--	--	--
Dyna-Gro 3395	9-15	34.6	1.2	64.5*	--	--	--	--
Kruger K-3525	9-14	27.9	1.0	63.9*	46.9*	--	55.4	--
Kruger K-3939	9-17	31.6	1.0	63.8*	45.7	25.2	54.8	44.9
Willcross 9536	9-16	32.2	1.0	63.3*	45.9*	--	54.6	--
NC+ 3A96	9-17	33.1	1.0	63.0*	--	--	--	--
Asgrow A3834	9-16	28.5	1.0	62.5*	49.2*	--	55.9	--
Kruger K-3525E	9-15	30.9	1.0	62.4*	--	--	--	--
Pioneer Variety 9362	9-14	29.1	1.0	62.1*	46.4*	33.2**	54.3	47.2
Willcross 92-A	9-14	31.2	1.0	62.0*	44.5	29.0*	53.3	45.2
Lewis 390	9-19	31.9	1.2	61.3*	47.2*	--	54.3	--
Saline	9-15	36.1	1.3	60.9*	--	--	--	--
Golden Harvest H-1353	9-13	31.5	1.0	60.9*	45.1	26.8	53.0	44.3
Pioneer Variety 9395	9-15	31.4	1.0	60.7*	--	--	--	--
Kruger K-3606	9-16	29.0	1.0	60.4*	--	--	--	--
Willcross 92-B	9-12	31.6	1.0	60.3*	44.3	25.2	52.3	43.3
Dyna-Gro 3368	9-16	31.2	1.0	60.2*	46.2*	28.3	53.2	44.9
Merschman Kennedy IV	9-15	31.9	1.0	59.9	45.4	25.4	52.7	43.6
Willcross 9540-B	9-16	26.4	1.0	59.7	--	--	--	--
Bergmann-Taylor 366STS	9-15	35.7	1.2	59.7	41.6	--	50.7	--
Stine 3780	9-19	28.7	1.0	59.7	--	--	--	--
Pioneer Variety 9352	9-13	28.6	1.0	59.6	--	--	--	--
Stine 3660	9-14	28.4	1.0	59.6	50.2*	--	54.9	--
LG Seeds LG6395	9-17	29.3	1.0	59.4	--	--	--	--
Merschman Madison IV	9-15	31.2	1.3	59.3	--	--	--	--
Stine 3480	9-16	29.2	1.0	59.2	--	--	--	--
Kruger K-3769	9-12	30.2	1.0	59.0	46.5*	28.8	52.8	44.8
Kruger K-3939+	9-18	31.6	1.0	58.9	--	--	--	--
Merschman Eisenhower III	9-16	33.0	1.0	58.8	42.6	25.3	50.7	42.2
MFA Morsoy 438	9-19	31.7	1.0	58.6	40.4	--	49.5	--
AgriPro Seeds AP 3868	9-17	28.4	1.0	58.1	--	--	--	--
Reeds Brand 390	9-16	30.7	1.0	58.0	44.6	23.8	51.3	42.1
Asgrow A3732	9-16	30.3	1.0	57.9	44.7	--	51.3	--
MFA Morsoy 9137	9-13	32.0	1.0	57.9	43.3	30.0*	50.6	43.7
Macon	9-14	29.2	1.0	57.7	43.5	--	50.6	--
Reeds Brand 330 STS	9-17	34.4	1.7	57.7	44.0	--	50.9	--
NeCo 7392	9-12	31.1	1.0	57.2	44.1	28.3	50.7	43.2
Willcross RR2397	9-13	32.5	1.0	57.2	--	--	--	--
Terra-TS364	9-19	28.5	1.0	57.2	48.2*	--	52.7	--
Patriot 391	9-15	33.7	1.2	57.0	--	--	--	--
Willcross 9435-B	9-18	27.5	1.0	56.9	45.8*	30.4*	51.4	44.4
AgriPro Seeds AP 3616	9-19	27.9	1.0	56.9	--	--	--	--
MFA Morsoy 8838	9-19	35.4	1.2	56.8	49.9*	28.7	53.4	45.1
Willcross 9435-A	9-17	28.8	1.0	56.5	42.9	29.2*	49.7	42.9
NeCo 7354	9-15	29.1	1.0	56.4	50.9*	33.2**	53.7	46.8
Ciba Seeds 3362	9-17	30.0	1.0	56.3	41.0	28.5	48.7	41.9
NeCo 7384	9-14	31.1	1.0	55.8	--	24.6	--	--
Terra-TS345	9-20	29.0	1.0	55.7	--	--	--	--
Terra-TS393	9-16	30.9	1.0	55.4	--	--	--	--
Patriot 390	9-20	30.3	1.0	55.2	--	--	--	--

TABLE 8. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	Kruger K-3505	9-14	30.3	1.0	55.1	--	--	--
Kruger K-3737	9-18	31.4	1.0	54.4	--	--	--	--
Midland 8356	9-15	27.7	1.0	54.0	--	--	--	--
Northrup King S39-11	9-20	32.5	1.0	54.0	48.8*	26.8	51.4	43.2
Kruger K-3888	9-15	30.0	1.0	53.9	--	--	--	--
Lewis 391	9-15	33.5	1.0	53.3	--	--	--	--
Golden Harvest H-1328	9-18	24.7	1.0	53.1	--	--	--	--
Dekalb CX399	9-20	30.6	1.0	52.9	44.7	26.1	48.8	41.2
Hamilton	9-14	30.3	1.0	52.9	46.3*	27.1	49.6	42.1
Mycogen 5373	9-16	30.9	1.0	52.5	42.2	27.3	47.4	40.7
Pioneer Variety 9381	9-14	26.8	1.0	52.4	43.3	28.8	47.8	41.5
Lewis 367	9-21	35.3	1.0	52.2	--	--	--	--
EXPERIMENTAL VARIETIES								
Dairyland DST 3308	9-18	33.9	1.0	60.3*	--	--	--	--
MFA Exp. 3758	9-17	29.5	1.0	59.9	--	--	--	--
Prize Exp. 5-4	9-21	32.7	1.0	56.8	--	--	--	--
Prize Exp. 2-15	9-21	32.4	1.0	56.1	--	--	--	--
Fontanelle Exp.9474	9-17	28.5	1.0	54.9	--	--	--	--
Prize Exp. 9-3	9-15	31.2	1.0	54.3	--	--	--	--
AVERAGE	9-16	30.8	1.0	58.1	44.6	26.3	51.4	43.0
L.S.D. AT .10 ¹	6	1.9	0.2	5.4	5.2	4.2		
C.V.%	1.7	4.6		6.7	8.5	9.7		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-19							
Merschman Atlanta III	10- 1	34.2	1.9	73.8**	46.8*	32.3	60.3	51.0
NC+ 4A47	10- 1	34.4	2.2	70.8*	--	--	--	--
Terra-TS474	9-27	35.4	2.3	70.1*	47.4*	--	58.8	--
MFA Morsoy 9348	9-28	36.5	1.6	69.1*	47.2*	34.8	58.2	50.4
Mycogen 470	10- 1	37.2	1.8	67.9	49.5**	--	58.7	--
Mustang	10- 1	36.7	1.2	67.4	--	--	--	--
Merschman Nashville	9-27	35.5	1.5	66.7	47.5*	--	57.1	--
NeCo 7416	9-25	33.8	1.0	66.5	--	--	--	--
Asgrow A4341	10- 1	30.2	1.0	66.5	--	--	--	--
MFA Morsoy 444SCN	9-27	35.2	1.0	66.1	46.9*	--	56.5	--
MFA Morsoy 9245SCN	10- 1	38.3	1.0	65.7	44.1	36.8*	54.9	48.9
Dekalb CX445	9-27	37.2	1.2	65.5	--	--	--	--
Stine 4650	9-25	32.8	1.8	65.4	43.3	37.6*	54.4	48.8
Willcross RR2407	10- 1	33.3	1.0	65.3	--	--	--	--
Willcross 9447-A	10- 1	37.3	1.5	65.2	43.9	34.7	54.6	47.9
Willcross 9640	9-26	33.6	1.0	65.2	--	--	--	--
NeCo 7446	9-23	33.3	1.1	65.0	--	--	--	--
Kruger K-4343	10- 1	34.0	1.0	64.9	--	--	--	--
Kruger K-4440	9-26	34.2	1.0	64.8	--	--	--	--
Ciba Seeds 3474	9-27	35.3	1.5	64.7	46.1*	--	55.4	--
Merschman Houston III	9-26	36.0	1.8	64.7	43.1	34.7	53.9	47.5
Merschman Cleveland III	9-22	39.8	1.0	64.6	--	33.6	--	--
Northrup King S42-60	9-24	31.8	1.0	64.5	44.0	27.7	54.3	45.4
Stine 3973	10- 1	33.6	1.0	64.5	--	--	--	--
Patriot 451	9-27	33.6	1.0	64.3	--	--	--	--
MFA Morsoy 441SCN	10- 1	32.6	1.0	64.2	--	--	--	--
ICI D454	10- 1	36.1	1.0	64.0	--	--	--	--
Northrup King S46-44	9-20	39.3	1.3	63.8	--	39.3*	--	--
Kruger K-4545	9-27	34.5	1.2	63.7	45.0	--	54.4	--
KS4694	9-25	34.2	1.1	63.6	43.2	38.7*	53.4	48.5
Merschman Richmond III	9-24	37.4	1.0	63.4	43.6	--	53.5	--
Willcross 9447-B	9-26	35.8	1.2	63.3	47.9*	38.4*	55.6	49.9
Asgrow A4138	9-22	34.9	1.0	63.3	43.4	34.0	53.4	46.9
Mycogen 5430	9-25	31.3	1.0	62.6	--	--	--	--
NeCo 7484	9-26	36.6	1.5	62.2	45.9*	33.3	54.1	47.1

TABLE 8. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	Kruger K-4242	9-24	28.5	1.0	62.1	--	--	--
Kruger K-4040+	9-24	31.2	1.0	61.7	44.2	--	53.0	--
Merschman Phoenix	9-27	31.5	1.0	61.7	--	--	--	--
Reeds Brand 445	9-26	38.7	1.9	61.4	42.0	36.9*	51.7	46.8
AgriPro Seeds AP 4400	9-20	32.2	1.0	61.4	44.3	--	52.9	--
MFA Morsoy 8842	9-26	36.2	1.0	61.3	45.3*	31.8	53.3	46.1
Terra-TS415	9-24	32.7	1.0	61.2	45.5*	--	53.4	--
Stressland	10-01	36.2	1.2	61.0	44.0	34.5	52.5	46.5
Mycogen 429	9-21	37.1	1.0	60.8	37.6	--	49.2	--
Willcross 9345	9-23	36.3	1.2	60.4	--	31.9	--	--
Kruger K-4101+	10-01	32.8	1.0	59.8	38.4	33.1	49.1	43.8
Willcross RR2467	9-27	36.9	1.4	59.6	--	--	--	--
AgriPro Seeds AP 4343	9-20	31.5	1.0	59.4	40.4	--	49.9	--
Cisne	10-01	29.3	1.0	59.3	46.7*	--	53.0	--
Medallion M4007	10-01	28.6	1.0	59.3	--	--	--	--
Midland 8410	9-27	30.1	1.0	58.6	--	--	--	--
Gateway 400	9-26	32.5	1.0	58.4	--	--	--	--
Dekalb CX411	9-23	29.0	1.0	58.3	41.4	26.1	49.8	41.9
NC+ 4A10	9-23	29.7	1.0	57.9	--	--	--	--
Golden Harvest H-1407	9-23	30.7	1.0	57.7	47.9*	36.2*	52.8	47.3
Magellan	10-01	34.9	1.0	57.5	48.6*	37.8*	53.1	48.0
Patriot 7415	9-21	34.3	1.0	57.4	--	--	--	--
Willcross 9540-A	9-25	27.0	1.0	56.9	42.2	--	49.6	--
LG Seeds JMS4240	10-01	35.6	1.0	56.9	43.7	36.6*	50.3	45.7
Terra-TS402	9-24	29.2	1.0	55.3	44.7	32.9	50.0	44.3
EXPERIMENTAL VARIETIES								
S92-2716	9-27	28.9	1.0	61.0	--	--	--	--
S92-2712	9-25	27.3	1.0	60.8	--	--	--	--
5.0 Maturity group Check##	10-05							
AVERAGE	9-26	33.8	1.2	62.9	43.8	34.8	53.4	47.2
L.S.D. AT .10 ¹	NS	2.1	0.3	5.8	4.2	5.9		
C.V.%	1.9	4.5		6.8	7.0	10.4		
TRIAL AVERAGE		32.2	1.1	60.4	44.2	30.3	52.3	50.0

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

NS Not significant.

TABLE 9. Performance of Soybean Varieties evaluated at three Central Missouri locations (Grand Pass, Columbia and High Hill) during 1996.

Grand Pass Planted: 21 May 1996 Harvested: 14 October 1996 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Heynie Silt Loam Previous Crop: Corn SCN Pop. : 0 Eggs G. Season Moisture: 22.1 In.	Columbia Planted: 25 April 1996 Harvested: 19 September 1996 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Mexico Silt Loam Previous Crop: Corn SCN Pop.: 1970 Eggs G. Season Moisture: 19.4 In.	High Hill Planted: 26 April 1996 Harvested: 30 September 1996 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Mexico Silt Loam Previous Crop: Corn SCN Pop.: 200 Eggs G. Season Moisture: 24.8 In.
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Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Gr.Pass	Colmba	H.Hill	Mean	Gr.Pass	Columbia	H.Hill	Mean

MATURITY GROUP 3

COMMERCIAL VARIETIES

Stine 3870	1.2	1.0	1.0	1.1	73.7*	35.0	65.5**	58.1*
Dyna-Gro 3395	1.8	1.0	1.2	1.3	68.6	40.8*	64.5*	58.0*
Kruger K-3606	1.4	1.0	1.0	1.1	74.2*	39.2*	60.4*	57.9*
Dyna-Gro 3368	1.2	1.0	1.0	1.1	70.6*	42.7*	60.2*	57.8*
Pioneer Variety 9395	1.0	1.0	1.0	1.0	71.1*	40.6*	60.7*	57.5*
Merschman Kennedy IV	1.1	1.1	1.0	1.1	71.9*	40.3*	59.9	57.4*
Kruger K-3939 +	1.5	1.0	1.0	1.2	74.1*	38.8*	58.9	57.3*
Stine 3780	1.2	1.0	1.0	1.1	73.4*	38.2*	59.7	57.1*
LG Seeds LG6395	1.2	1.0	1.0	1.1	70.3*	41.2*	59.4	57.0*
Asgrow A3834	1.0	1.0	1.0	1.0	72.1*	35.1	62.5*	56.6*
Terra-TS364	1.2	1.0	1.0	1.1	75.2**	37.0	57.2	56.5*
Stine 3660	1.1	1.0	1.0	1.0	70.6*	39.3*	59.6	56.5*
Kruger K-3525	1.1	1.0	1.0	1.0	66.9	38.0*	63.9*	56.3*
Merschman Madison IV	1.3	1.0	1.3	1.2	70.8*	38.3*	59.3	56.1*
Saline	1.7	1.2	1.3	1.4	67.4	40.1*	60.9*	56.1*
Pioneer Variety 9362	1.1	1.0	1.0	1.0	63.3	42.5*	62.1*	56.0*
NC + 3A96	1.0	1.0	1.0	1.0	65.3	39.6*	63.0*	56.0*
Asgrow A3732	1.0	1.1	1.0	1.0	69.1	41.1*	57.9	56.0*
AgriPro Seeds AP 3616	1.0	1.0	1.0	1.0	70.9*	39.8*	56.9	55.9*
Lewis 390	1.6	1.0	1.2	1.3	69.3	36.8	61.3*	55.8*
Kruger K-3939	1.2	1.0	1.0	1.1	66.5	36.8	63.8*	55.7*
Willcross 92-A	1.4	1.0	1.0	1.1	67.3	37.5*	62.0*	55.6*
Pioneer Variety 9352	1.1	1.0	1.0	1.0	69.4	37.8*	59.6	55.6*
Willcross 92-B	1.2	1.0	1.0	1.1	68.7	37.6*	60.3*	55.5*
Macon	1.5	1.0	1.0	1.2	71.1*	37.3*	57.7	55.4*
NeCo 7384	1.1	1.0	1.0	1.0	70.3*	39.3*	55.8	55.1*
Stine 3480	1.4	1.0	1.0	1.1	65.1	40.3*	59.2	54.9*
Willcross 9536	1.2	1.0	1.0	1.1	67.8	33.2	63.3*	54.8
MFA Morsoy 9137	1.2	1.0	1.0	1.1	65.8	40.5*	57.9	54.7
NeCo 7392	1.4	1.0	1.0	1.1	70.8*	35.9	57.2	54.6
Bergmann-Taylor 366STS	2.4	1.0	1.2	1.5	70.1	33.0	59.7	54.3
Kruger K-3769	1.1	1.0	1.0	1.0	71.5*	32.2	59.0	54.2
MFA Morsoy 438	1.2	1.1	1.0	1.1	67.0	36.6	58.6	54.1
Golden Harvest H-1353	1.2	1.0	1.0	1.1	65.9	35.5	60.9*	54.1
Willcross 9540-B	1.0	1.0	1.0	1.0	70.9*	31.5	59.7	54.0
Hamilton	1.5	1.0	1.0	1.2	69.5	39.3*	52.9	53.9
Kruger K-3505	1.5	1.0	1.0	1.2	68.0	37.5*	55.1	53.5
Norhrup King S39-11	1.5	1.1	1.0	1.2	63.8	42.6*	54.0	53.5
Patriot 391	2.2	1.0	1.2	1.5	68.9	34.4	57.0	53.4
Merschman Eisenhower III	1.0	1.0	1.0	1.0	66.0	35.3	58.8	53.4
Kruger K-3737	1.5	1.0	1.0	1.2	68.6	36.9	54.4	53.3
Pioneer Variety 9381	1.0	1.0	1.0	1.0	68.4	38.9*	52.4	53.2
Ciba Seeds 3362	1.2	1.0	1.0	1.1	67.0	36.0	56.3	53.1
Kruger K-3525E	1.6	1.0	1.0	1.2	65.1	31.3	62.4*	52.9
Terra-TS393	1.0	1.1	1.0	1.0	64.6	38.7*	55.4	52.9
Willcross 9435-A	1.2	1.0	1.0	1.1	63.9	37.6*	56.5	52.7
Willcross 9435-B	1.2	1.0	1.0	1.1	67.3	33.9	56.9	52.7
Kruger K-3888	1.0	1.0	1.0	1.0	70.2	33.9	53.9	52.7
Lewis 391	1.1	1.0	1.0	1.0	63.8	40.2*	53.3	52.4
Reeds Brand 330 STS	1.6	1.0	1.7	1.4	63.5	35.1	57.7	52.1

TABLE 9. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)				
	Gr.Pass	Colmba	H.Hill	Mean	Gr.Pass	Columba	H.Hill	Mean
MFA Morsoy 8838	1.5	1.0	1.2	1.2	61.2	38.4*	56.8	52.1
AgriPro Seeds AP 3868	1.0	1.0	1.0	1.0	65.1	32.4	58.1	51.9
NeCo 7354	1.2	1.0	1.0	1.1	63.5	35.7	56.4	51.9
Patriot 390	1.2	1.0	1.0	1.1	66.9	33.3	55.2	51.8
Mycogen 5373	1.2	1.0	1.0	1.1	67.5	35.1	52.5	51.7
Dekalb CX399	1.5	1.0	1.0	1.2	66.8	33.9	52.9	51.2
Reeds Brand 390	1.0	1.0	1.0	1.0	65.1	30.4	58.0	51.2
Midland 8356	1.0	1.0	1.0	1.0	69.4	30.2	54.0	51.2
Willcross RR2397	1.0	1.0	1.0	1.0	61.2	32.3	57.2	50.2
Lewis 367	1.2	1.0	1.0	1.1	65.3	32.9	52.2	50.1
Golden Harvest H-1328	1.0	1.0	1.0	1.0	61.9	33.9	53.1	49.6
Terra-TS345	1.0	1.0	1.0	1.0	64.9	27.0	55.7	49.2
EXPERIMENTAL VARIETIES								
MFA Exp. 3758	1.2	1.0	1.0	1.1	73.0*	42.8*	59.9	58.6**
Dairyland DST 3308	2.2	1.0	1.0	1.4	66.0	40.9*	60.3*	55.7*
Prize Exp. 5-4	1.3	1.0	1.0	1.1	66.7	43.5**	56.8	55.7*
Prize Exp. 2-15	1.0	1.0	1.0	1.0	67.1	37.4*	56.1	53.5
Fontanelle Exp.9474	1.0	1.0	1.0	1.0	67.1	35.7	54.9	52.6
Prize Exp. 9-3	1.5	1.0	1.0	1.2	67.4	34.9	54.3	52.2
AVERAGE	1.3	1.0	1.0	1.1	68.0	36.9	58.1	54.3
L.S.D. AT .10	0.4	0.1	0.2	0.1	4.9	6.4	5.4	3.7
C.V. %					5.3	12.6	6.7	8.7
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
NC+ 4A47	2.2	1.4	2.2	1.9	76.2**	48.7*	70.8*	65.2**
Merschman Atlanta III	2.7	1.4	1.9	2.0	67.9	47.0	73.8**	62.9*
Northrup King S42-60	1.9	1.0	1.0	1.3	73.5*	48.9*	64.5	62.3*
Mycogen 470	1.9	1.0	1.8	1.6	72.4*	46.1	67.9	62.1*
NeCo 7416	1.7	1.0	1.0	1.2	70.7*	48.5*	66.5	61.9*
Willcross RR2407	1.7	1.1	1.0	1.3	71.9*	48.3*	65.3	61.8*
NeCo 7446	1.0	1.1	1.1	1.1	72.7*	47.2	65.0	61.6*
Northrup King S46-44	1.6	1.1	1.3	1.3	67.9	51.6*	63.8	61.1
MFA Morsoy 9245SCN	1.4	1.0	1.0	1.1	65.8	51.5*	65.7	61.0
Merschman Nashville	1.8	1.2	1.5	1.5	70.0	46.4	66.7	61.0
MFA Morsoy 9348	2.1	1.1	1.6	1.6	64.8	48.9*	69.1*	60.9
MFA Morsoy 444SCN	1.2	1.4	1.0	1.2	63.1	53.2*	66.1	60.8
Stine 4650	2.7	1.5	1.8	2.0	71.9*	44.7	65.4	60.7
Willcross 9447-A	2.3	1.1	1.5	1.6	70.4	46.5	65.2	60.7
Dekalb CX445	1.9	1.0	1.2	1.4	68.7	47.1	65.5	60.4
Willcross 9447-B	2.5	1.1	1.2	1.6	74.7*	43.3	63.3	60.4
Asgrow A4341	1.0	1.1	1.0	1.0	66.3	48.1	66.5	60.3
Terra-TS474	2.0	1.1	2.3	1.8	67.9	42.5	70.1*	60.2
Mustang	1.3	1.0	1.2	1.2	63.8	48.9*	67.4	60.0
Willcross 9640	2.0	1.0	1.0	1.3	68.3	45.5	65.2	59.7
Kruger K-4545	1.5	1.0	1.2	1.2	66.9	47.9	63.7	59.5
ICI D454	2.1	1.0	1.0	1.4	67.7	46.9	64.0	59.5
KS4694	1.2	1.0	1.1	1.1	68.7	45.8	63.6	59.4
Magellan	1.7	1.0	1.0	1.2	66.5	53.7**	57.5	59.2
AgriPro Seeds AP 4400	1.7	1.0	1.0	1.2	68.2	47.9	61.4	59.2
Merschman Houston III	2.8	1.1	1.8	1.9	65.1	47.6	64.7	59.1
Mycogen 5430	1.0	1.0	1.0	1.0	64.5	50.0*	62.6	59.0
Kruger K-4440	1.0	1.1	1.0	1.0	67.0	44.5	64.8	58.8
Merschman Richmond III	1.8	1.0	1.0	1.3	66.5	46.1	63.4	58.7
Asgrow A4138	2.3	1.0	1.0	1.4	62.1	50.8*	63.3	58.7
Ciba Seeds 3474	1.7	1.0	1.5	1.4	63.9	46.8	64.7	58.5
Stine 3973	1.8	1.0	1.0	1.3	67.7	43.3	64.5	58.5
Kruger K-4343	1.5	1.0	1.0	1.2	66.7	43.7	64.9	58.4
Merschman Cleveland III	1.8	1.1	1.0	1.3	67.6	42.8	64.6	58.3
NeCo 7484	1.8	1.1	1.5	1.5	67.9	44.9	62.2	58.3

TABLE 9. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Gr.Pass	Colmba	H.Hill	Mean	Gr.Pass	Columba	H.Hill	Mean
Medallion M4007	1.1	1.0	1.0	1.0	69.6	45.8	59.3	58.2
Kruger K-4242	1.0	1.0	1.0	1.0	68.6	43.4	62.1	58.0
Kruger K-4040+	1.0	1.0	1.0	1.0	69.3	42.6	61.7	57.9
Reeds Brand 445	1.7	1.0	1.9	1.5	67.6	44.1	61.4	57.7
Patriot 451	1.4	1.0	1.0	1.1	67.3	40.3	64.3	57.3
MFA Morsoy 441SCN	2.3	1.0	1.0	1.4	60.0	47.8	64.2	57.3
AgriPro Seeds AP 4343	1.2	1.0	1.0	1.1	68.2	44.0	59.4	57.2
Midland 8410	1.0	1.0	1.0	1.0	68.5	44.1	58.6	57.1
Kruger K-4101+	1.0	1.0	1.0	1.0	66.6	45.0	59.8	57.1
Mycogen 429	1.7	1.0	1.0	1.2	65.6	44.9	60.8	57.1
Merschman Phoenix	1.8	1.0	1.0	1.3	67.6	41.4	61.7	56.9
Golden Harvest H-1407	1.1	1.0	1.0	1.0	69.9	42.5	57.7	56.7
Terra-TS415	1.2	1.0	1.0	1.1	67.1	41.4	61.2	56.6
Cisne	1.1	1.0	1.0	1.0	66.5	43.9	59.3	56.6
Patriot 7415	1.5	1.1	1.0	1.2	66.0	46.0	57.4	56.5
MFA Morsoy 8842	1.5	1.0	1.0	1.2	62.4	45.2	61.3	56.3
Willcross 9345	1.8	1.0	1.2	1.3	61.0	47.6	60.4	56.3
Stressland	1.5	1.0	1.2	1.2	64.3	43.3	61.0	56.2
NC+ 4A10	1.0	1.0	1.0	1.0	63.2	47.1	57.9	56.1
Willcross 9540-A	1.0	1.0	1.0	1.0	67.6	43.4	56.9	56.0
Gateway 400	1.1	1.0	1.0	1.0	69.1	40.3	58.4	55.9
Dekalb CX411	1.0	1.0	1.0	1.0	66.1	43.1	58.3	55.8
Terra-TS402	1.2	1.0	1.0	1.1	67.7	43.8	55.3	55.6
LG Seeds JMS4240	1.8	1.0	1.0	1.3	60.6	45.1	56.9	54.2
Willcross RR2467	2.3	1.2	1.4	1.6	59.3	43.0	59.6	54.0
EXPERIMENTAL VARIETIES								
S92-2712	1.1	1.0	1.0	1.0	66.8	42.1	60.8	56.6
S92-2716	1.0	1.0	1.0	1.0	64.0	43.5	61.0	56.2
AVERAGE	1.6	1.1	1.2	1.3	67.2	45.8	62.9	58.6
L.S.D. AT .10	0.6	0.2	0.3	0.2	5.7	5.4	5.8	3.8
C.V. %					6.2	8.6	6.8	8.3
TRIAL AVERAGE	1.4	1.0	1.1	1.2	67.6	41.2	60.4	56.4

** Highest yielding variety in the maturity group.

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

TABLE 10. Performance of Soybean Varieties evaluated near Garden City (Cass County) on the Bill Cook Farm During 1994-96.

Planted: 20 May 1996
 Harvested: 3, 16 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Haig Silt Loam
 Soil Test: pH=6.1, OM=3.2%, P=49, K=289

Fertilizer: N=25; P₂O₅=70; K₂O=120
 Herbicide: Pre: Prowl + Scepter
 Post: Blazer, Basagran
 Irrigation: 0.00 Inches
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 900 Eggs / 250cc of Soil
 Growing Season Rainfall: May=9.0, June=3.6, July=5.7, Aug.=3.9, Sept.=6.2, TOTAL=28.4 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	9-09							
Saline	9-16	39.1	1.0	54.1**	--	--	--	--
Pioneer Variety 9362	9-10	32.5	1.0	53.5*	34.8*	--	44.2	--
Pioneer Variety 9395	9-13	32.0	1.0	50.9*	--	--	--	--
Stine 3870	9-17	30.5	1.0	50.6*	--	--	--	--
Terra-TS393	9-17	33.4	1.0	50.5*	--	--	--	--
Hamilton	9-14	32.0	1.0	49.6*	35.4*	47.7	42.5	44.2
Willcross 92-B	9-17	30.8	1.0	49.1	34.7	46.4	41.9	43.4
Merschman Madison IV	9-19	32.4	1.0	48.2	--	--	--	--
Dyna-Gro 3395	9-17	32.0	1.0	47.8	--	--	--	--
Willcross 92-A	9-17	31.3	1.0	46.9	33.5	47.7	40.2	42.7
Midland Seeds 8393	9-18	37.3	1.1	46.7	31.9	47.8	39.3	42.1
NeCo 7392	9-17	30.5	1.0	46.0	33.7	39.9	39.9	39.9
Ciba 3362	9-14	30.6	1.0	45.9	33.2	43.1	39.6	40.7
AVERAGE	9-16	32.6	1.0	49.2	33.4	44.5	41.3	42.4
L.S.D. AT .10 ⁴	2	1.9	NS	4.8	2.8	NS		
C.V. %	0.4	4.2		7.2	6.2	11.5		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-17							
Terra-TS474	9-23	38.1	1.2	67.1**	29.4	54.8*	48.3	50.4
Stine 4680	9-21	36.6	1.1	65.2*	26.9	57.2**	46.1	49.8
Pioneer Variety 9421	9-15	36.7	1.0	64.5*	--	--	--	--
Merschman Nashville	9-21	40.6	1.1	64.5*	32.2*	--	48.4	--
Willcross RR2407	9-18	33.2	1.0	64.5*	--	--	--	--
Asgrow A4922	9-25	41.9	1.4	64.5*	--	--	--	--
Asgrow A4341	9-19	35.3	1.0	64.4*	--	--	--	--
Ciba 3474	9-20	39.6	1.0	64.2*	30.0	49.9*	47.1	48.0
Merschman Phoenix	9-23	32.6	1.0	64.2*	--	--	--	--
NeCo 7465	9-20	37.4	1.1	64.1*	27.1	--	45.6	--
Northrup King S46-44	9-20	42.6	1.0	63.6*	30.8	51.2*	47.2	48.5
Terra-TS415	9-16	33.5	1.0	63.5*	32.3*	--	47.9	--
NC+ 4A27	9-18	36.8	1.1	63.5*	--	--	--	--
Merschman Atlanta III	9-20	34.7	1.3	63.4*	26.4	49.4	44.9	46.4
Midland Seeds 8487NB	9-21	38.9	1.2	63.4*	28.7	--	46.1	--
Cisne	9-17	33.5	1.0	63.1*	30.9	--	47.0	--
Dekalb CX494	9-20	40.7	1.1	62.9*	--	--	--	--
Merschman Houston III	9-22	41.5	1.1	62.7*	30.1	49.0	46.4	47.3
NeCo 7416	9-17	36.1	1.0	62.6*	--	--	--	--
Willcross 9546	9-20	34.0	1.1	62.2	28.1	--	45.2	--
NeCo 7446	9-22	38.0	1.0	62.0	--	--	--	--
Willcross 9447-A	9-20	39.8	1.1	61.9	26.7	49.8*	44.3	46.1
Midland Seeds 8486	9-21	39.3	1.0	61.9	29.9	--	45.9	--
MFA Morsoy 444SCN	9-20	39.4	1.1	61.7	29.4	--	45.6	--
Midland Seeds 8475	9-20	37.3	1.1	61.4	29.7	--	45.6	--

TABLE 10. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	MFA Morsoy 9348	9-21	39.3	1.0	61.2	27.3	52.8*	44.3
Northrup King S42-60	9-17	33.7	1.0	60.9	29.7	52.6*	45.3	47.7
NeCo 7484	9-21	39.0	1.0	60.8	27.8	--	44.3	--
Stine 4562	9-23	33.3	1.0	60.7	--	--	--	--
Willcross 9447-B	9-20	39.1	1.1	60.5	29.2	48.5	44.9	46.1
Hornbeck HBK 4600	9-19	37.1	1.1	60.5	--	--	--	--
KS4694	9-21	38.0	1.1	60.5	33.0*	55.0*	46.8	49.5
Willcross 9640	9-16	34.1	1.0	60.5	--	--	--	--
Golden Harvest H-1454	9-17	36.7	1.0	60.4	--	--	--	--
Willcross 9345	9-17	39.9	1.0	60.3	--	47.8	--	--
Golden Harvest H-1485	9-23	38.6	1.4	59.9	28.7	--	44.3	--
Merschman Cleveland III	9-18	43.4	1.1	59.4	--	--	--	--
Terra-TS402	9-15	32.4	1.0	59.2	32.1*	48.3	45.7	46.5
Midland Seeds 8410	9-15	32.0	1.0	59.0	31.9*	51.8*	45.5	47.6
Mycogen 429	9-17	37.5	1.0	58.9	--	--	--	--
Dekalb CX445	9-18	39.2	1.0	58.6	28.5	52.6*	43.6	46.6
Stressland	9-18	42.1	1.0	58.6	30.7	51.8*	44.7	47.0
MFA Morsoy 9245SCN	9-18	39.3	1.0	58.6	29.2	47.7	43.9	45.2
Merschman Richmond III	9-19	38.0	1.0	58.3	31.0	--	44.7	--
Willcross RR2467	9-22	44.6	1.1	58.0	--	--	--	--
Midland Seeds 8413	9-19	33.0	1.0	57.6	32.5*	52.3*	45.1	47.5
Mycogen 470	9-20	39.3	1.1	57.6	28.8	--	43.2	--
NC+ 4A10	9-15	31.6	1.0	57.5	--	47.6	--	--
Reeds Brand 445	9-21	38.3	1.1	57.4	29.8	55.6*	43.6	47.6
Willcross 9540-A	9-24	29.7	1.0	48.4	33.4*	--	40.9	--
AVERAGE	9-19	37.3	1.1	61.2	29.7	50.4	45.4	47.1
L.S.D. AT .10 ¹	2	2.7	0.1	4.6	3.0	7.6		
C.V.%	0.5	5.3		5.4	7.4	9.2		

MATURITY GROUP 5

COMMERCIAL VARIETIES

5.0 Maturity Group Check##	9-27							
MFA Morsoy 9152SCN	10-04	30.2	1.4	49.7**	--	41.5	--	--
Delsoy 5500	10-04	34.8	1.9	47.5*	--	--	--	--
Hutcheson	10-08	34.1	3.7	46.8*	25.0*	44.7	35.9	38.8
Clifford	10-02	35.0	2.1	44.3	24.8*	49.7*	34.6	39.6
Buckshot 55	10-08	38.4	3.9	43.0	22.3	46.7	32.7	37.3
Golden Harvest H-1500	9-25	27.6	1.0	42.6	--	--	--	--
Holladay	10-01	31.2	1.0	38.6	25.9*	52.4*	32.3	39.0

EXPERIMENTAL VARIETIES

S93-1475	10-07	37.8	3.6	39.7	--	--	--	--
6.0 Maturity group Check##	10-10							
AVERAGE	10-04	33.6	2.3	44.0	24.1	46.6	34.0	38.2
L.S.D. AT .10 ¹	2	2.0	0.4	3.1	2.7	7.7		
C.V.%	0.4	4.4		5.1	8.2	10.1		

TRIAL AVERAGE

		36.1	1.2	57.1	29.9	48.6	43.5	45.2
--	--	------	-----	------	------	------	------	------

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

NS Not significant.

TABLE 11. Performance of Soybean Varieties evaluated near Lamar (Barton County) on the Wally Norton Farm during 1994-96.

Planted: 21 May 1996
 Harvested: 23 Sept., 17 Oct. 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=6.6, OM=1.4%, P=59, K=229

Fertilizer: N=25; P₂O₅=25; K₂O=30
 Herbicide: Pre: Lasso + Canopy
 Post: Poast +, Basagran
 Irrigation: 0.00 Inches
 Previous Crop: Grain Sorghum

Cyst Nematode Population at Planting: 940 Eggs / 250cc of Soil
 Growing Season Rainfall: May=5.5, June=2.7, July=3.4, Aug.=2.9, Sept.=6.4, TOTAL=20.9 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##

Pioneer Variety 9362	--	25.7	1.0	35.4**	35.2*	--	35.3	--
Saline	--	28.5	1.0	32.5*	--	--	--	--
Pioneer Variety 9395	--	28.1	1.0	28.7	--	--	--	--
Hamilton	--	26.0	1.0	28.7	37.5**	46.6*	33.1	37.6
Ciba 3362	--	24.3	1.0	28.5	30.3	46.7*	29.4	35.2
Dyna-Gro 3395	--	26.4	1.0	27.5	--	--	--	--
Midland Seeds 8393	--	28.1	1.0	27.1	32.4	47.3*	29.8	35.6
Willcross 92-B	--	25.4	1.0	27.0	37.5**	43.5*	32.3	36.0
NeCo 7392	--	25.3	1.0	26.3	37.2*	47.9**	31.8	37.1
Merschman Madison IV	--	26.0	1.0	24.9	--	--	--	--
Stine 3870	--	24.2	1.0	24.8	--	--	--	--
Terra-TS393	--	26.4	1.0	24.7	--	--	--	--
Willcross 92-A	--	24.5	1.0	24.3	36.3*	46.8*	30.3	35.8
AVERAGE		26.1	1.0	27.7	33.7	44.0	30.7	35.1
L.S.D. AT .10⁴		2.7	NS	4.5	3.7	5.0		
C.V. %		7.4		12.0	8.1	7.0		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##

Hornbeck HBK 4600	9-18	30.4	1.0	40.6**	--	--	--	--
NC+ 4A27	9-16	26.1	1.0	40.5*	--	--	--	--
MFA Morsoy 444SCN	9-18	29.5	1.2	40.0*	38.3*	--	39.2	--
Merschman Richmond III	9-17	31.2	1.0	37.2*	36.1*	--	36.7	--
Midland Seeds 8475	9-18	29.3	1.0	36.7*	40.3*	--	38.5	--
Golden Harvest H-1454	9-16	30.2	1.0	36.6*	--	--	--	--
Midland Seeds 8487NB	9-19	30.9	1.2	36.4*	37.7*	--	37.1	--
Northrup King S46-44	9-17	32.9	1.0	36.1*	37.2*	56.7**	36.7	43.3
Terra-TS415	9-15	26.7	1.0	35.5*	29.8	--	32.7	--
Merschman Houston III	9-18	32.6	1.2	35.4*	37.1*	54.1*	36.3	42.2
Asgrow A4922	9-18	34.0	1.3	35.1*	--	--	--	--
MFA Morsoy 9245SCN	9-16	29.5	1.0	34.7	37.9*	48.3	36.3	40.3
Willcross RR2407	9-15	28.5	1.0	34.4	--	--	--	--
Pioneer Variety 9421	9-15	29.4	1.0	34.2	--	--	--	--
Mycogen 429	9-17	31.1	1.0	34.2	--	--	--	--
Ciba 3474	9-18	31.9	1.2	33.5	33.3	52.6*	33.4	39.8
Northrup King S42-60	9-16	29.6	1.2	33.1	29.5	50.7*	31.3	37.8
Stressland	9-17	30.1	1.0	32.8	35.3*	44.0	34.1	37.4
Dekalb CX445	9-17	30.8	1.2	32.6	38.8*	46.5	35.7	39.3
Willcross RR2467	9-18	32.5	1.2	32.6	--	--	--	--
NeCo 7416	9-15	27.9	1.0	31.7	--	--	--	--
Willcross 9345	9-16	31.0	1.0	31.7	--	49.4	--	--
Willcross 9447-B	9-17	30.1	1.3	31.7	34.9	52.0*	33.3	39.5
NC+ 4A10	9-15	28.2	1.0	31.6	--	43.7	--	--
Asgrow A4341	9-16	25.4	1.0	31.6	--	--	--	--

TABLE 11. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Midland Seeds 8486	9-18	33.1	1.0	30.6	34.1	--	32.4	--
Merschman Atlanta III	9-17	29.9	1.3	29.8	30.1	49.6*	30.0	36.5
Golden Harvest H-1485	9-18	30.0	1.0	29.7	34.0	--	31.9	--
Willcross 9640	9-15	29.4	1.0	29.6	34.1	--	--	--
Midland Seeds 8413	9-16	28.1	1.0	29.3	34.1	51.3*	31.7	38.2
Willcross 9447-A	9-18	33.1	1.0	29.3	34.1	55.2*	31.7	39.5
Reeds Brand 445	9-19	31.7	1.0	28.8	35.6*	52.9*	32.2	39.1
MFA Morsoy 9348	9-17	28.8	1.2	28.8	40.6**	52.6*	34.7	40.7
Merschman Nashville	9-19	30.3	1.0	28.6	37.5*	--	33.1	--
Mycogen 470	9-18	31.3	1.0	28.6	39.4*	--	34.0	--
NeCo 7465	9-18	30.9	1.3	28.4	32.9	--	30.7	--
Willcross 9546	9-18	28.9	1.3	28.4	32.6	--	30.5	--
Terra-TS402	9-15	26.8	1.0	28.3	32.8	46.7	30.6	35.9
Merschman Phoenix	9-18	27.4	1.0	28.3	--	--	30.6	--
Cisne	9-17	24.8	1.0	28.1	35.8*	--	32.0	--
Stine 4680	9-18	30.7	1.5	28.1	29.8	52.4*	29.0	36.8
Stine 4562	9-18	26.9	1.0	28.0	--	--	--	--
Midland Seeds 8410	9-17	26.9	1.0	27.9	32.2	45.0	30.1	35.0
NeCo 7484	9-19	29.7	1.2	27.7	31.5	--	29.6	--
Dekalb CX494	9-19	31.1	1.0	27.4	--	--	--	--
Willcross 9540-A	9-18	26.2	1.0	27.4	37.1*	--	32.3	--
Merschman Cleveland III	9-18	32.4	1.0	26.3	--	--	--	--
KS4694	9-18	24.5	1.0	25.0	35.2*	46.6	30.1	35.6
NeCo 7446	9-18	26.5	1.0	24.8	--	--	--	--
Terra-TS474	9-19	30.5	1.3	24.6	30.0	50.0*	27.3	34.9
AVERAGE	9-17	29.6	1.1	31.4	34.2	47.7	32.8	37.8
L.S.D. AT .10 ¹	1	2.5	0.2	5.8	5.4	7.1		
C.V.%	0.3	6.1		13.3	11.5	9.2		

MATURITY GROUP 5

COMMERCIAL VARIETIES

5.0 Maturity Group Check##	9-24							
Delsoy 5500	10- 5	32.1	1.3	36.0**	--	--	--	--
Buckshot 55	10- 1	29.3	4.7	34.9*	30.8	41.9	32.9	35.9
Golden Harvest H-1500	9-23	26.4	1.2	33.3*	--	--	--	--
MFA Morsoy 9152SCN	10- 2	27.7	1.3	31.1*	--	45.3*	--	--
Clifford	10- 1	30.6	1.3	29.5*	32.7*	39.0	31.1	33.7
Hutcheson	10- 8	30.9	1.0	26.2	32.6*	43.2	29.4	34.0
Holladay	9-25	25.4	1.0	24.1	34.5**	43.0	29.3	33.9

EXPERIMENTAL VARIETIES

S93-1475	10- 7	34.9	1.0	31.2*	--	--	--	--
6.0 Maturity Group Check##	10-06							
AVERAGE	10-01	29.7	1.6	30.8	31.5	43.1	31.2	35.1
L.S.D. AT .10 ¹	5	2.9	0.4	6.6	2.0	4.5		
C.V.%	1.4	7.2		15.8	4.7	6.4		

TRIAL AVERAGE		29.0	1.1	30.7	33.7	46.2	32.2	36.9
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¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Maturity group checks as identified on page 4.

NS Not significant.

TABLE 12. Performance of Soybean Varieties evaluated at two Southwest Missouri locations (Garden City and Lamar) during 1996.

Garden City
Planted: 20 May 1996
Harvested: 3, 16 Oct. 1996
Row Spacing: 30 Inches
Planted Population: 156,800 Seeds/A.

Lamar
Planted: 21 May 1996
Harvested: 23 Sept., 17 Oct. 1996
Row Spacing: 30 Inches
Planted Population: 156,800 Seeds/A.

Soil Type: Haig Silt Loam
Previous Crop: Wheat
SCN Population at Planting: 900 Eggs
Growing Season Moisture: 28.4 Inches

Soil Type: Parsons Silt Loam
Previous Crop: Grain Sorghum
SCN Population at Planting: 940 Eggs
Growing Season Moisture: 20.9 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Gardn Cty	Lamar	Mean
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Pioneer Variety 9362	1.0	1.0	1.0	53.5*	35.4**	44.4**
Saline	1.0	1.0	1.0	54.1**	32.5*	43.3*
Pioneer Variety 9395	1.0	1.0	1.0	50.9*	28.7	39.8
Hamilton	1.0	1.0	1.0	49.6*	28.7	39.2
Willcross 92-B	1.0	1.0	1.0	49.1	27.0	38.0
Stine 3870	1.0	1.0	1.0	50.6*	24.8	37.7
Terra-TS393	1.0	1.0	1.0	50.5*	24.7	37.6
Dyna-Gro 3395	1.0	1.0	1.0	47.8	27.5	37.6
Ciba 3362	1.0	1.0	1.0	45.9	28.5	37.2
Midland Seeds 8393	1.1	1.0	1.0	46.7	27.1	36.9
Merschman Madison IV	1.0	1.0	1.0	48.2	24.9	36.6
NeCo 7392	1.0	1.0	1.0	46.0	26.3	36.2
Willcross 92-A	1.0	1.0	1.0	46.9	24.3	35.6
AVERAGE	1.0	1.0	1.0	49.2	27.7	38.5
L.S.D. AT .10	NS	NS	NS	4.8	4.5	4.0
C.V.%				7.2	12.0	10.9

MATURITY GROUP 4

COMMERCIAL VARIETIES

NC+ 4A27	1.1	1.0	1.0	63.5*	40.5*	52.0**
MFA Morsoy 444SCN	1.1	1.2	1.2	61.7	40.0*	50.8*
Hornbeck HBK 4600	1.1	1.0	1.0	60.5	40.6**	50.6*
Midland Seeds 8487NB	1.2	1.2	1.2	63.4*	36.4*	49.9*
Northrup King S46-44	1.0	1.0	1.0	63.6*	36.1*	49.8*
Asgrow A4922	1.4	1.3	1.4	64.5*	35.1*	49.8*
Terra-TS415	1.0	1.0	1.0	63.5*	35.5*	49.5*
Willcross RR2407	1.0	1.0	1.0	64.5*	34.4	49.4*
Pioneer Variety 9421	1.0	1.0	1.0	64.5*	34.2	49.4*
Midland Seeds 8475	1.1	1.0	1.0	61.4	36.7*	49.0*
Merschman Houston III	1.1	1.2	1.2	62.7*	35.4*	49.0*
Ciba 3474	1.0	1.2	1.1	64.2*	33.5	48.8*
Golden Harvest H-1454	1.0	1.0	1.0	60.4	36.6*	48.5*
Asgrow A4341	1.0	1.0	1.0	64.4*	31.6	48.0
Merschman Richmond III	1.0	1.0	1.0	58.3	37.2*	47.8
NeCo 7416	1.0	1.0	1.0	62.6*	31.7	47.2
Northrup King S42-60	1.0	1.2	1.1	60.9	33.1	47.0
Merschman Nashville	1.1	1.0	1.0	64.5*	28.6	46.6
Mycogen 429	1.0	1.0	1.0	58.9	34.2	46.6
Stine 4680	1.1	1.5	1.3	65.2*	28.1	46.6
Merschman Atlanta III	1.3	1.3	1.3	63.4*	29.8	46.6
MFA Morsoy 9245SCN	1.0	1.0	1.0	58.6	34.7	46.6
Merschman Phoenix	1.0	1.0	1.0	64.2*	28.3	46.2
Midland Seeds 8486	1.0	1.0	1.0	61.9	30.6	46.2
NeCo 7465	1.1	1.3	1.2	64.1*	28.4	46.2

TABLE 12. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Gardn Cty	Lamar	Mean
Willcross 9447-B	1.1	1.3	1.2	60.5	31.7	46.1
Willcross 9345	1.0	1.0	1.0	60.3	31.7	46.0
Terra-TS474	1.2	1.3	1.2	67.1**	24.6	45.8
Stressland	1.0	1.0	1.0	58.6	32.8	45.7
Cisne	1.0	1.0	1.0	63.1*	28.1	45.6
Dekalb CX445	1.0	1.2	1.1	58.6	32.6	45.6
Willcross 9447-A	1.1	1.0	1.0	61.9	29.3	45.6
Willcross 9546	1.1	1.3	1.2	62.2	28.4	45.3
Willcross RR2467	1.1	1.2	1.2	58.0	32.6	45.3
Dekalb CX494	1.1	1.0	1.0	62.9*	27.4	45.2
Willcross 9640	1.0	1.0	1.0	60.5	29.6	45.0
MFA Morsoy 9348	1.0	1.2	1.1	61.2	28.8	45.0
Golden Harvest H-1485	1.4	1.0	1.2	59.9	29.7	44.8
NC+ 4A10	1.0	1.0	1.0	57.5	31.6	44.6
Stine 4562	1.0	1.0	1.0	60.7	28.0	44.4
NeCo 7484	1.0	1.2	1.1	60.8	27.7	44.2
Terra-TS402	1.0	1.0	1.0	59.2	28.3	43.8
Midland Seeds 8410	1.0	1.0	1.0	59.0	27.9	43.4
Midland Seeds 8413	1.0	1.0	1.0	57.6	29.3	43.4
NeCo 7446	1.0	1.0	1.0	62.0	24.8	43.4
Mycogen 470	1.1	1.0	1.0	57.6	28.6	43.1
Reeds Brand 445	1.1	1.0	1.0	57.4	28.8	43.1
KS4694	1.1	1.0	1.0	60.5	25.0	42.8
Merschman Cleveland III	1.1	1.0	1.0	59.4	26.3	42.8
Willcross 9540-A###	1.0	1.0	1.0	48.4	27.4	37.9
AVERAGE	1.1	1.1	1.1	61.2	31.4	46.3
L.S.D. AT .10	0.1	0.2	0.1	4.6	5.8	3.8
C.V.%				5.4	13.3	8.6
MATURITY GROUP 5						
COMMERCIAL VARIETIES						
Delsoy 5500	1.9	1.3	1.6	47.5*	36.0**	41.8**
MFA Morsoy 9152SCN	1.4	1.3	1.4	49.7**	31.1*	40.4*
Buckshot 55	3.9	4.7	4.3	43.0	34.9*	39.0*
Golden Harvest H-1500	1.0	1.2	1.1	42.6	33.3*	38.0
Clifford	2.1	1.3	1.7	44.3	29.5*	36.9
Hutcheson	3.7	1.0	2.4	46.8*	26.2	36.5
Holladay	1.0	1.0	1.0	38.6	24.1	31.4
EXPERIMENTAL VARIETIES						
S93-1475	3.6	1.0	2.3	39.7	31.2*	35.4
AVERAGE	2.3	1.6	2.0	44.0	30.8	37.4
L.S.D. AT .10	0.4	0.4	0.3	3.1	6.6	3.7
C.V.%				5.1	15.8	10.5
TRIAL AVERAGE	1.2	1.1	1.2	57.1	30.7	43.9

** Highest yielding variety in the maturity group.

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

NS Not significant.

TABLE 13. Performance of Soybean Varieties evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1994-96.

Planted: 23 May 1996
 Harvested: 11, 31 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Commerce Silt Loam
 Soil Test: pH=5.9, OM=1.9%, P=79, K=289

Fertilizer: N=0; P₂O₅=60; K₂O=80
 Herbicide: Pre: Squadron
 Post: Typhon
 Irrigation: 3.0 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 1680 Eggs / 250cc of Soil
 Growing Season Rainfall: May=4.7, June=3.0, July=3.3, Aug.=0.5, Sept.=5.0, TOTAL=16.5 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-13							
MFA Morsoy 9348	9-20	40.0	1.6	56.5**	59.0**	51.6	57.8	55.7
MFA Morsoy 444SCN	9-22	37.3	1.2	53.2*	47.8	--	50.5	--
Mycogen 5430	9-14	30.0	1.1	53.1*	--	--	--	--
ICI D478	9-21	43.0	1.2	52.6*	53.3*	--	53.0	--
Ciba 3474	9-19	44.7	1.3	51.6*	--	--	--	--
Eagle 445	9-13	40.7	1.3	50.7*	--	--	--	--
Asgrow A4922	9-24	43.7	1.3	50.5*	48.5	--	49.5	--
Pioneer Variety 9482	9-21	41.7	1.3	50.0*	--	--	--	--
Willcross 9447-B	9-21	41.7	1.5	49.4*	--	--	--	--
Terra-TS474	9-25	41.7	2.0	48.4*	42.9	59.9*	45.7	50.4
Deltapine DP 3456	9-21	35.3	1.1	48.3*	38.7	55.8*	43.5	47.6
Gateway 470	9-18	39.7	1.3	48.2*	--	--	--	--
Deltapine DP 3478	9-20	43.0	1.3	48.1*	52.8*	51.0	50.5	50.6
Terra-TS415	9-14	37.3	1.5	47.8*	58.3*	--	53.1	--
Dekalb CX494	9-21	41.7	1.3	47.6*	--	--	--	--
Stressland	9-16	40.7	1.4	47.3*	47.1	47.1	47.2	47.2
Asgrow A4341	9-18	32.3	1.1	46.3	53.0*	--	49.7	--
Delta King 4860	9-21	36.3	1.3	46.0	--	--	--	--
AgraTech FFR 493	9-27	38.7	1.1	45.8	47.7	49.9	46.8	47.8
Dekalb CX445	9-15	42.3	1.8	45.4	52.0*	55.1	48.7	50.8
HyPerformer HY 4540	9-22	36.7	1.2	45.3	51.6*	44.6	48.5	47.2
Ciba 3362###	9-10	31.0	1.3	44.2	--	--	--	--
Mycogen 470	9-19	42.3	1.3	44.2	--	61.1*	--	--
Northrup King S42-60	9-13	37.3	1.4	44.1	54.1*	54.6	49.1	50.9
Hartz Variety H4994	9-27	42.7	3.4	44.1	46.8	58.8*	45.5	49.9
Willcross 9447-A	9-22	42.3	1.6	44.1	--	--	--	--
Delta King 4875	9-21	44.0	1.9	43.3	50.9*	--	47.1	--
Pioneer Variety 9481	9-21	46.7	1.5	43.3	44.8	--	44.1	--
Cisne	9-12	33.0	1.2	42.8	--	--	--	--
Pioneer Variety 9511	9-27	43.7	1.3	42.4	--	--	--	--
MFA Morsoy 9245SCN	9-12	40.3	1.2	41.9	--	--	--	--
Dixie 478	9-21	41.7	1.2	41.1	45.1	--	43.1	--
Hornbeck HBK 4600	9-20	37.3	1.3	40.2	--	--	--	--
Hornbeck HBK 49	9-28	54.0	2.9	40.1	46.1	--	43.1	--
Terral TV4596	9-18	49.0	1.3	38.3	48.2	--	43.3	--
Dyna-Gro 3495	9-27	51.0	2.8	37.5	41.1	29.1	39.3	35.9
EXPERIMENTAL VARIETIES								
AgraTech Exp. 42794	9-21	46.0	1.8	45.3	--	--	--	--
Deltapine DPX 3480	9-25	43.7	2.5	45.1	--	--	--	--
Deltapine DPX 3497	9-26	48.3	2.1	40.4	--	--	--	--
AVERAGE	9-20	41.1	1.6	46.1	48.6	49.5	47.4	48.1
L.S.D. AT .10 ⁴	3	2.9	0.4	9.4	9.4	9.9		
C.V. %	0.8	5.2		14.9	11.7	12.4		

TABLE 13. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	MATURITY GROUP 5							
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-30							
Delsoy 5500	10-08	32.3	1.6	54.6**	--	--	--	--
Hornbeck HBK 58	10-15	37.1	1.5	52.9*	41.3*	--	47.1	--
Hornbeck HBK 54	10-15	33.2	1.5	52.7*	37.8	--	45.3	--
Deltapine DP 3519	10-01	41.3	1.4	51.4*	41.0*	--	46.2	--
Riverside Robin 5	10-14	31.8	1.5	51.2*	--	38.3	--	--
Delta King 5475	10-08	34.8	1.6	50.6*	45.4*	48.5*	48.0	48.2
Buckshot 55	9-28	41.7	3.6	49.1*	31.7	41.5	40.4	40.8
Hartz Variety H5218	10-07	37.7	1.7	48.6*	40.7*	44.9*	44.7	44.7
Dixie 541	10-05	30.7	1.5	48.5*	--	--	--	--
Pioneer Variety 9594	10-15	41.2	1.7	48.3*	--	--	--	--
Hartz Variety H5050	10-14	43.1	2.1	48.1*	39.8*	--	44.0	--
Pioneer Variety 9552	10-02	33.1	1.6	47.9	--	--	--	--
Dyna-Gro 3576	10-11	33.3	2.7	47.6	48.6*	36.3	48.1	44.2
MFA Morsoy 9152SCN	10-05	24.9	1.4	47.6	--	49.4*	--	--
Northrup King S59-95	10-16	37.7	1.5	47.5	34.7	36.0	41.1	39.4
Hutcheson	10-10	33.3	1.5	47.3	41.8*	44.6*	44.6	44.6
Riverside 5291	10-08	46.5	1.5	46.5	32.6	40.2	39.6	39.8
HyPerformer HSC 501	10-01	25.1	1.5	45.8	38.0	44.7*	41.9	42.8
Asgrow A5547	10-07	31.1	1.6	45.7	36.1	--	40.9	--
Hartz Variety H5545	10-08	34.9	1.2	45.6	37.1	36.8	41.4	39.8
Dixie 579	10-08	28.4	1.5	45.2	46.0*	--	45.6	--
Northrup King S51-00	10-01	39.2	1.6	45.1	--	--	--	--
Hartz Variety H5350	10-13	30.4	1.4	44.5	44.2*	41.3	44.4	43.3
Terral TV5797	10-10	35.9	1.9	44.1	39.6	--	41.9	--
Asgrow A5843	10-10	34.0	1.5	44.0	48.5*	50.9*	46.3	47.8
Riverside 77	10-14	33.6	2.1	43.9	--	--	--	--
Clifford	10-07	29.1	1.5	43.5	47.9*	50.8*	45.7	47.4
HyPerformer AP 572 STS	10-14	32.5	1.5	43.5	--	--	--	--
Deltapine DP 3571	10-04	38.3	1.5	43.5	33.4	--	38.5	--
Holladay	10-07	29.2	1.5	43.4	42.8*	46.9*	43.1	44.4
Riverside 549	10-08	34.6	1.7	43.2	33.1	--	38.2	--
AgraTech FFR 514	10-05	39.4	1.9	42.5	35.8	28.1	39.2	35.5
Northrup King S57-11	10-08	38.3	1.7	41.0	42.8*	41.6	41.9	41.8
Delta King 5850	10-08	35.2	2.0	41.0	40.7*	43.1*	40.9	41.6
Deltapine DP 415	10-06	37.8	2.1	40.2	42.3*	44.2*	41.3	42.2
AgraTech AT 555	10-08	33.6	1.6	39.7	30.4	41.5	35.1	37.2
Riverside 499#	10-01	45.3	1.9	38.9	39.8*	36.7	39.3	38.5
HyPerformer HY 574	10-16	36.2	1.8	37.8	42.1*	41.8	40.0	40.6
EXPERIMENTAL VARIETIES								
ICI Ex6532	10-07	28.6	1.6	50.7*	--	--	--	--
Delta King LDKX-51695	10-14	39.1	1.4	44.7	--	--	--	--
S93-1475	10-08	37.7	1.7	40.4	--	--	--	--
Hartz Variety HX517452	10-07	42.4	1.8	37.0	--	--	--	--
D91-9391	10-08	40.0	2.6	34.8	--	--	--	--
6.0 Maturity Group Check##	10-20							
AVERAGE	10-09	35.3	1.7	45.3	39.3	41.5	42.3	42.0
L.S.D. AT .10 ¹	3	4.6	0.4	6.5	9.5	10.2		
C.V.%	0.7	9.6		10.4	17.7	15.0		
TRIAL AVERAGE		38.1	1.6	45.7	43.5	45.7	44.6	45.0

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

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

Maturity group checks as identified on page 4.

Variety is grouped into a different group than entered.

TABLE 14. Performance of Soybean Varieties evaluated on a Loam Soil near Portageville (Pemiscott County) on the Delta Research Center during 1994-96.

Planted: 17 May 1996
 Harvested: 6, 15 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Tiptonville Silt Loam
 Soil Test: pH=6.0, OM=1.5%, P=94, K=374

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter, Command
 Post: Storm, Basagran
 Irrigation: 1.0 Inches
 Previous Crop: Cotton

Cyst Nematode Population at Planting: 7,200 Eggs / 250cc of Soil
 Growing Season Rainfall: May=4.0, June=7.5, July=5.1, Aug.=0.3, Sept.=6.2, TOTAL=23.1 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-07							
ICI D478	9-16	41.0	1.7	44.9*	42.9*	--	43.9	--
MFA Morsoy 444SCN	9-11	33.1	1.4	44.9*	42.4	--	43.7	--
HyPerformer HY 4540	9-12	32.9	1.4	44.2*	38.4	43.8*	41.3	42.1
Ciba 3474	9-12	37.3	1.4	43.4*	--	--	--	--
Hornbeck HBK 4600	9- 9	32.6	1.4	43.3*	--	--	--	--
Hartz Variety H4994	9-21	29.3	1.5	43.2*	37.8	48.9*	40.5	43.3
Asgrow A4922	9-18	39.7	1.5	43.2*	40.7	--	42.0	--
Delta King 4860	9-14	35.8	1.4	42.7*	--	--	--	--
Dixie 478	9-13	42.2	1.5	41.8*	32.7	--	37.3	--
Pioneer Variety 9511	9-18	41.7	1.3	41.4*	--	--	--	--
Willcross 9447-A	9-13	33.3	1.5	41.3*	--	--	--	--
Pioneer Variety 9482	9-11	37.1	1.7	40.9*	--	--	--	--
Hornbeck HBK 49	9-17	51.8	1.7	39.6*	35.4	--	37.5	--
MFA Morsoy 9245SCN	9-10	33.8	1.4	39.4	--	--	--	--
Deltapine DP 3478	9-13	36.3	1.5	39.2	42.5	45.7*	40.9	42.5
Gateway 470	9-16	39.4	1.5	38.8	--	--	--	--
Terral TV4596	9-12	38.9	1.5	38.2	38.0	--	38.1	--
Ciba 3362###	9- 7	28.7	2.2	37.9	--	--	--	--
Pioneer Variety 9481	9-11	40.0	1.8	37.6	33.7	--	35.7	--
Mycogen 470	9-13	35.3	1.5	37.1	--	42.5	--	--
Dekalb CX494	9-12	35.9	1.5	36.8	--	--	--	--
Eagle 445	9- 5	31.7	1.3	36.7	--	--	--	--
Stressland	9- 6	34.2	1.8	36.4	37.0	44.4*	36.7	39.3
AgraTech FFR 493	9-14	40.0	1.5	36.4	41.0	40.2	38.7	39.2
Delta King 4875	9-12	35.5	1.8	35.8	43.5*	--	39.7	--
Willcross 9447-B	9-13	34.2	1.5	34.7	--	--	--	--
Cisne	9- 7	24.5	2.2	34.7	--	--	--	--
Terra-TS474	9-16	33.7	1.4	34.5	39.7	48.8*	37.1	41.0
Deltapine DP 3456	9-15	37.9	1.8	34.3	40.1	42.0	37.2	38.8
Asgrow A4341	9- 6	28.1	1.5	34.0	41.0	--	37.5	--
Northrup King S42-60	9- 9	30.4	1.5	33.0	42.7*	44.8*	37.9	40.2
Terra-TS415	9- 7	28.7	2.3	32.6	41.2	--	36.9	--
MFA Morsoy 9348	9-12	34.8	1.7	32.2	43.1*	41.9	37.7	39.1
Mycogen 5430	9- 4	27.5	1.5	31.8	--	--	--	--
Dyna-Gro 3495	9-16	48.9	1.7	30.4	39.6	37.6	35.0	35.9
Dekalb CX445	9- 7	33.7	2.0	25.3	46.1*	41.0	35.7	37.5
EXPERIMENTAL VARIETIES								
Deltapine DPX 3480	9-13	41.4	1.5	47.9**	--	--	--	--
AgraTech Exp.42794	9-17	40.2	1.5	37.7	--	--	--	--
Deltapine DPX 3497	9-18	43.5	1.8	31.0	--	--	--	--
Average	9-12	36.0	1.6	38.1	38.9	41.3	38.5	39.4
L.S.D. AT .10^t	5	3.4	0.4	8.3	5.4	7.6		
C.V. %	1.3	6.9		15.8	10.2	11.3		

TABLE 14. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-27							
HyPerformer AP 572 STS	10-08	29.3	1.3	51.8**	--	--	--	--
Hornbeck HBK 54	10-08	26.7	1.2	51.7*	42.3	--	47.0	--
Delsoy 5500	10-01	33.7	1.2	50.4*	--	--	--	--
Holladay	9-26	28.3	1.2	50.2*	45.2*	52.6*	47.7	49.3
Northrup King S57-11	10-02	35.7	1.2	50.2*	45.7*	48.5	48.0	48.1
Dixie 579	10-02	27.3	1.2	49.3*	45.7*	--	47.5	--
Riverside 549	10-06	33.0	1.3	48.1*	43.3	--	45.7	--
Deltapine DP 415	10-01	35.0	1.3	45.7*	43.5	46.6	44.6	45.3
Asgrow A5547	10-01	33.3	1.3	45.6*	44.1	--	44.9	--
Delta King 5850	10-01	34.7	1.3	45.2*	37.5	46.0	41.4	42.9
Buckshot 55	9-21	33.4	1.5	45.2*	42.1	47.2*	43.7	44.8,
Dixie 541	10-01	32.7	1.2	44.6*	--	--	--	--
MFA Morsoy 9152SCN	10-01	26.7	1.2	44.3*	--	51.6*	--	--
Terral TV5797	10-02	38.3	1.2	43.8*	43.1	--	43.5	--
Pioneer Variety 9594	10-06	38.3	1.4	43.3*	--	--	--	--
Pioneer Variety 9552	10-01	28.7	1.2	43.1*	--	--	--	--
Clifford	10-01	29.7	1.2	43.1*	52.6**	56.5*	47.9	50.7
Riverside Robin 5	10-09	29.0	1.3	42.0*	--	56.8*	--	--
HyPerformer HSC 501	9-21	28.0	1.3	41.8*	41.6	47.4	41.7	43.6
Dyna-Gro 3576	10-05	28.7	1.2	41.7*	50.2*	49.4	46.0	47.1
Asgrow A5843	10-06	35.7	1.2	40.2	46.1*	52.2*	43.2	46.2
Hornbeck HBK 58	10-07	35.0	1.2	40.1	43.1	--	41.6	--
Deltapine DP 3519	9-25	33.3	1.2	39.8	38.8	--	39.3	--
Hutcheson	10-06	32.3	1.3	38.3	48.9*	48.3	43.6	45.2
Delta King 5475	10-01	31.3	1.3	38.2	42.5	51.5*	40.4	44.1
Riverside 499#	9-24	50.0	1.3	37.9	35.7	38.9	36.8	37.5
Northrup King S59-95	10-05	36.3	1.3	37.8	48.9*	46.0	43.3	44.2
Hartz Variety H5545	10-04	30.0	1.2	37.4	45.6*	49.8	41.5	44.3
Hartz Variety H5050	10-02	39.0	1.6	36.8	48.1*	--	42.5	--
Deltapine DP 3571	9-25	40.7	1.5	36.4	43.0	--	39.7	--
AgraTech FFR 514	9-23	39.7	1.3	35.8	44.8	50.2	40.3	43.6
HyPerformer HY 574	10-06	35.7	1.3	35.7	49.5*	51.0*	42.6	45.4
AgraTech AT 555	10-05	38.3	1.3	35.7	42.6	46.2	39.2	41.5
Hartz Variety H5350	10-04	33.7	1.2	35.1	44.0	58.6*	39.6	45.9
Riverside 77	10-08	32.3	1.3	33.3	--	--	--	--
Northrup King S51-00	9-23	39.3	1.3	31.4	--	--	--	--
Hartz Variety H5218	9-28	31.7	1.2	29.4	43.9	55.2*	36.7	42.8
Riverside 529I	9-26	50.7	1.3	28.5	38.9	30.1	33.7	32.5
EXPERIMENTAL VARIETIES								
ICI Ex6532	10-01	31.0	1.2	50.3*	--	--	--	--
Delta King LDKX-51695	10-12	35.7	1.2	44.7*	--	--	--	--
Hartz Variety HX517452	9-28	44.0	2.0	43.6*	--	--	--	--
S93-1475	10-03	32.7	1.7	42.1*	--	--	--	--
D91-9391	10-01	40.3	2.2	40.1	--	--	--	--
6.0 Maturity Group Check##	10-15							
AVERAGE	10-02	34.4	1.3	41.5	42.7	49.7	42.1	44.6
L.S.D. AT .10 ¹	3	5.0	0.3	11.2	7.4	8.1		
C.V. %	0.8	10.6		12.6	10.1	10.9		
TRIAL AVERAGE		35.2	1.5	39.9	41.0	45.6	40.4	42.2

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

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

Maturity group checks as identified on page 4.

Variety is grouped into a different maturity group than entered.

TABLE 15. Performance of Soybean Varieties evaluated on a Clay Soil near Portageville (Pemiscott County) on the Delta Research Center during 1994-96.

Planted: 22 May 1996
 Harvested: 6, 17 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Sharkey Silty Clay
 Soil Test: pH=5.8, OM=3.8%, P=94, K=499

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter + Roundup
 Post: Storm
 Irrigation: 0.0 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 240 Eggs / 250cc of Soil
 Growing Season Rainfall: May=4.0, June=7.5, July=5.1, Aug.=0.3, Sept.=6.2, TOTAL=23.1 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-15							
Pioneer Variety 9482	9-23	32.1	1.2	52.9**	--	--	--	--
Asgrow A4341	9-21	27.7	1.2	52.0*	45.3**	--	48.7	--
Dekalb CX445	9-17	34.4	1.5	51.6*	37.9*	37.0	44.8	42.2
Hornbeck HBK 4600	9-22	30.2	1.2	51.4*	--	--	--	--
Gateway 470	9-23	37.6	1.2	49.6*	--	--	--	--
Dekalb CX494	9-23	32.1	1.2	49.3*	--	--	--	--
Pioneer Variety 9511	9-27	37.8	1.2	49.1*	--	--	--	--
Hartz Variety H4994	9-27	23.6	1.2	49.1*	35.7	53.9*	42.4	46.2
MFA Morsoy 9348	9-22	32.1	1.2	46.5*	35.2	46.1	40.9	42.6
MFA Morsoy 444SCN	9-19	30.7	1.2	46.4*	43.6*	--	45.0	--
Mycogen 5430	9-17	27.9	1.2	46.2*	--	--	--	--
Delta King 4860	9-22	28.1	1.2	46.0*	--	--	--	--
Asgrow A4922	9-24	35.3	1.2	45.7*	35.1	--	40.4	--
AgraTech FFR 493	9-25	28.9	1.2	45.3*	41.9*	55.6**	43.6	47.6
ICI D478	9-23	32.5	1.3	44.6	33.1	--	38.9	--
Deltapine DP 3478	9-22	34.9	1.4	44.3	35.0	50.4*	39.7	43.2
Dixie 478	9-25	29.6	1.2	44.2	36.2	--	40.2	--
Stressland	9-19	30.7	1.2	44.2	36.0	43.4	40.1	41.2
HyPerformer HY 4540	9-21	30.4	1.2	44.2	41.7*	51.4*	43.0	45.8
Mycogen 470	9-21	29.9	1.2	43.5	--	42.5	--	--
Willcross 9447-B	9-22	30.0	1.2	43.3	--	--	--	--
Pioneer Variety 9481	9-22	33.7	1.2	42.5	40.0*	--	41.3	--
Deltapine DP 3456	9-22	31.7	1.3	42.3	30.3	46.2	36.3	39.6
Ciba 3474	9-24	30.7	1.6	41.4	--	--	--	--
Hornbeck HBK 49	9-27	40.1	1.7	40.1	34.3	--	37.2	--
MFA Morsoy 9245SCN	9-12	30.6	1.1	40.0	--	--	--	--
Willcross 9447-A	9-21	31.8	1.2	39.7	--	--	--	--
Terral TV4596	9-22	37.8	1.2	39.1	38.0*	--	38.6	--
Eagle 445	9-16	25.3	1.1	38.9	--	--	--	--
Ciba 3362###	9-10	26.9	1.2	38.8	--	--	--	--
Terra-TS474	9-25	33.0	1.5	37.5	35.5	40.2	36.5	37.7
Dyna-Gro 3495	9-28	41.2	1.8	37.3	34.1	50.6*	35.7	40.7
Terra-TS415	9-15	28.2	1.2	36.7	42.9*	--	39.8	--
Delta King 4875	9-21	31.9	1.5	35.8	37.8*	--	36.8	--
Northrup King S42-60	9-14	26.4	1.4	33.5	36.7*	39.1	35.1	36.4
Cisne	9-20	28.1	1.2	32.1	--	--	--	--
EXPERIMENTAL VARIETIES								
AgraTech Exp. 42794	9-24	37.0	1.9	45.6*	--	--	--	--
Deltapine DPX 3497	9-23	40.3	1.6	35.9	--	--	--	--
Deltapine DPX 8480	9-24	34.2	1.7	32.2	--	--	--	--
AVERAGE	9-22	31.9	1.3	43.2	36.5	43.9	39.8	41.2
L.S.D. AT .10 ¹	3	4.2	0.4	7.7	8.8	8.1		
C.V.%	0.8	9.6		13.0	17.6	11.2		

TABLE 15. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group##	10-01							
Pioneer Variety 9594	10-14	25.8	1.4	53.4**	--	--	--	--
Hartz Variety H5350	10-13	25.9	1.3	52.6*	36.3	53.9*	44.5	47.6
Northrup King S57-11	10-10	30.4	1.2	52.3*	36.3	55.3*	44.3	48.0
Delta King 5850	10-11	31.6	1.5	51.7*	30.5	56.5*	41.1	46.2
Delta King 5475	10-07	24.4	1.3	51.3*	40.7*	55.9*	46.0	49.3
Northrup King S59-95	10-14	31.6	1.2	51.0*	38.7*	58.1*	44.9	49.3
Hutcheson	10-09	29.1	1.3	50.9*	43.7*	50.2	47.3	48.3
Buckshot 55	9-28	30.8	1.9	50.9*	37.7*	54.8*	44.3	47.8
Riverside Robin 5	10-14	27.3	1.3	50.3*	--	56.2*	--	--
HyPerformer AP 572 STS	10-12	21.3	1.3	48.3*	--	--	--	--
Delsoy 5500	10-08	28.3	1.4	47.3*	--	--	--	--
Clifford	10-06	25.7	1.3	47.3*	39.7*	49.4	43.5	45.5
Deltapine DP 415	10-05	32.6	1.4	47.0*	37.1	53.2*	42.1	45.8
Hartz Variety H5050	10-14	36.6	1.4	46.7*	41.4*	--	44.1	--
Holladay	10-05	21.0	1.3	46.6*	30.5	54.5*	38.6	43.9
Hartz Variety H5545	10-08	28.6	1.6	46.5*	45.6*	58.0*	46.1	50.0
Terral TV5797	10-11	30.1	1.3	46.5*	39.3*	--	42.9	--
Deltapine DP 3571	10-08	35.8	1.3	46.2	40.5*	--	43.4	--
Dixie 541	10-06	20.9	1.3	46.2	--	--	--	--
Riverside 549	10-09	25.1	1.3	45.7	37.4	--	41.6	--
AgraTech AT 555	10-13	29.1	1.3	45.7	36.8	54.0*	41.3	45.5
Hornbeck HBK 58	10-14	27.5	1.2	45.5	34.1	--	39.8	--
Asgrow A5547	10-05	22.8	1.3	44.5	35.7	--	40.1	--
Asgrow A5843	10-12	27.1	1.3	44.4	36.9	60.4**	40.7	47.2
Deltapine DP 3519	10-04	27.9	1.2	44.3	34.5	--	39.4	--
Dyna-Gro 3576	10-08	26.7	1.7	43.7	35.5	54.0*	39.6	44.4
Hartz Variety H5218	10-05	28.7	1.3	42.9	39.0*	54.7*	41.0	45.5
Northrup King S51-00	10-05	35.4	1.2	42.5	--	--	--	--
AgraTech FFR 514	10-01	34.5	1.4	42.3	39.0*	58.2*	40.7	46.5
Riverside 77	10-15	28.7	2.1	42.3	--	--	--	--
HyPerformer HY 574	10-15	31.4	1.5	42.2	38.1	51.9*	40.2	44.1
MFA Morsoy 9152SCN	10-05	16.8	1.2	41.8	--	53.7*	--	--
Riverside 5291	10-05	37.8	1.8	41.7	30.5	42.2	36.1	38.1
Hornbeck HBK 54	10-13	23.8	1.3	41.3	35.6	--	38.5	--
Pioneer Variety 9552	10-05	23.6	1.3	41.0	--	--	--	--
HyPerformer HSC 501	10-01	20.8	1.3	40.8	35.4	49.8	38.1	42.0
Riverside 499#	10-01	43.3	1.4	39.4	35.2	42.1	37.3	38.9
Dixie 579	10-12	21.9	1.2	39.3	35.6	--	37.5	--
EXPERIMENTAL VARIETIES								
S93-1475	10-09	28.3	1.5	46.1	--	--	--	--
Delta King LDKX-51695	10-13	33.8	1.4	44.9	--	--	--	--
ICI Ex6532	10-06	20.9	1.3	44.5	--	--	--	--
D91-9391	10-07	38.4	3.1	39.5	--	--	--	--
Hartz Variety HX517452	10-04	37.0	2.3	37.9	--	--	--	--
6.0 Maturity Group Check##	10-20							
AVERAGE	10-09	28.5	1.4	45.4	37.6	51.2	41.5	44.7
L.S.D. AT .10 ¹	3	4.7	0.3	7.0	7.9	9.7		
C.V.%	0.7	12.0		11.3	15.2	11.6		
TRIAL AVERAGE		30.1	1.4	44.3	37.1	48.3	40.4	43.1

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

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

Maturity group checks as identified on page 4.

Variety is grouped into a different maturity group than entered.

TABLE 16. Performance of Soybean Varieties evaluated at two Southeast Missouri locations (Oran and Portageville) during 1996.

Oran Planted: 23 May 1996 Harvested: 11, 31 October 1996 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A Soil Type: Commerce Silt Loam Previous Crop: Corn SCN Population at Planting: 1680 Eggs Growing Season Rainfall: 16.5 Inches	Portageville - Loam Planted: 17 May 1996 Harvested: 6, 15 October 1996 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A Soil Type: Tiptonville Loam Previous Crop: Soybean SCN Population at Planting: 7,200 eggs Growing Season Rainfall: 23.1 Inches	Portageville - Clay Planted: 22 May 1996 Harvested: 6, 17 October 1996 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A Soil Type: Sharkey Clay Previous Crop: Soybean SCN Population at Planting: 240 Eggs Growing Season Rainfall: 23.1 Inches
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Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Oran	Portageville		Mean	Oran	Portageville		Mean
		Loam	Clay			Loam	Clay	

MATURITY GROUP 4

COMMERCIAL VARIETIES

MFA Morsoy 444SCN	1.2	1.4	1.2	1.3	53.2*	44.9*	46.4*	48.2*
Pioneer Variety 9482	1.3	1.7	1.2	1.4	50.0*	40.9*	52.9**	47.9*
ICI D478	1.2	1.7	1.3	1.4	52.6*	44.9*	44.6	47.4*
Asgrow A4922	1.3	1.5	1.2	1.3	50.5*	43.2*	45.7*	46.5*
Ciba 3474	1.3	1.4	1.6	1.4	51.6*	43.4*	41.4	45.5*
Hartz Variety H4994	3.4	1.5	1.2	2.0	44.1	43.2*	49.1*	45.5*
Gateway 470	1.3	1.5	1.2	1.3	48.2*	38.8	49.6*	45.5*
MFA Morsoy 9348	1.6	1.7	1.2	1.5	56.5**	32.2	46.5*	45.1*
Hornbeck HBK 4600	1.3	1.4	1.2	1.3	40.2	43.3*	51.4*	45.0*
Delta King 4860	1.3	1.4	1.2	1.3	46.0	42.7*	46.0*	44.9*
HyPerformer HY 4540	1.2	1.4	1.2	1.3	45.3	44.2*	44.2	44.6*
Dekalb CX494	1.3	1.5	1.2	1.3	47.6*	36.8	49.3*	44.6*
Pioneer Variety 9511	1.3	1.3	1.2	1.3	42.4	41.4*	49.1*	44.3*
Asgrow A434I	1.1	1.5	1.2	1.3	46.3	34.0	52.0*	44.1*
Deltapine DP 3478	1.3	1.5	1.4	1.4	48.1*	39.2	44.3	43.9*
Mycogen 5430	1.1	1.5	1.2	1.3	53.1*	31.8	46.2*	43.7*
Stressland	1.4	1.8	1.2	1.5	47.3*	36.4	44.2	42.6*
Willcross 9447-B	1.5	1.5	1.2	1.4	49.4*	34.7	43.3	42.5*
AgraTech FFR 493	1.1	1.5	1.2	1.3	45.8	36.4	45.3*	42.5*
Dixie 478	1.2	1.5	1.2	1.3	41.1	41.8*	44.2	42.4*
Eagle 445	1.3	1.3	1.1	1.2	50.7*	36.7	38.9	42.1
Willcross 9447-A	1.6	1.5	1.2	1.4	44.1	41.3*	39.7	41.7
Deltapine DP 3456	1.1	1.8	1.3	1.4	48.3*	34.3	42.3	41.6
Mycogen 470	1.3	1.5	1.2	1.3	44.2	37.1	43.5	41.6
Pioneer Variety 9481	1.5	1.8	1.2	1.5	43.3	37.6	42.5	41.1
Dekalb CX445	1.8	2.0	1.5	1.8	45.4	25.3	51.6*	40.8
MFA Morsoy 9245SCN	1.2	1.4	1.1	1.2	41.9	39.4	40.0	40.4
Ciba 3362###	1.3	2.2	1.2	1.6	44.2	37.9	38.8	40.3
Terra-TS474	2.0	1.4	1.5	1.6	48.4*	34.5	37.5	40.1
Hornbeck HBK 49	2.9	1.7	1.7	2.1	40.1	39.6*	40.1	39.9
Terra-TS415	1.5	2.3	1.2	1.7	47.8*	32.6	36.7	39.0
Terral TV4596	1.3	1.5	1.2	1.3	38.3	38.2	39.1	38.5
Delta King 4875	1.9	1.8	1.5	1.7	43.3	35.8	35.8	38.3
Northrup King S42-60	1.4	1.5	1.4	1.4	44.1	33.0	33.5	36.9
Cisne	1.2	2.2	1.2	1.5	42.8	34.7	32.1	36.5
Dyna-Gro 3495	2.8	1.7	1.8	2.1	37.5	30.4	37.3	35.1

EXPERIMENTAL VARIETIES

AgraTech Exp.42794	1.8	1.5	1.9	1.7	45.3	37.7	45.6*	42.9*
Deltapine DPX 3480	2.5	1.5	1.7	1.9	45.1	47.9**	32.2	41.7
Deltapine DPX 3497	2.1	1.8	1.6	1.8	40.4	31.0	35.9	35.8
AVERAGE	1.6	1.6	1.3	1.5	46.1	38.1	43.2	42.5
L.S.D. AT .10	0.4	0.4	0.4	0.3	9.4	8.3	7.7	6.1
C.V.%					14.9	15.8	13.0	15.1

TABLE 16. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Oran	Portageville		Mean	Oran	Portageville		Mean
		Loam	Clay			Loam	Clay	
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
Delsoy 5500	1.6	1.2	1.4	1.4	54.6**	50.4*	47.3*	50.8**
Hornbeck HBK 54	1.5	1.2	1.3	1.3	52.7*	51.7*	41.3	48.6*
Buckshot 55	3.6	1.5	1.9	2.3	49.1*	45.2*	50.9*	48.4**
Pioneer Variety 9594	1.7	1.4	1.4	1.5	48.3*	43.3*	53.4**	48.3*
HyPerformer AP 572 STS	1.5	1.3	1.3	1.4	43.5	51.8**	48.3*	47.9*
Riverside Robin 5	1.5	1.3	1.3	1.4	51.2*	42.0*	50.3*	47.8*
Northrup King S57-11	1.7	1.2	1.2	1.4	41.0	50.2*	52.3*	47.8*
Holladay	1.5	1.2	1.3	1.3	43.4	50.2*	46.6*	46.7*
Delta King 5475	1.6	1.3	1.3	1.4	50.6*	38.2	51.3*	46.7*
Dixie 541	1.5	1.2	1.3	1.3	48.5*	44.6*	46.2	46.4*
Hornbeck HBK 58	1.5	1.2	1.2	1.3	52.9*	40.1	45.5	46.2*
Delta King 5850	2.0	1.3	1.5	1.6	41.0	45.2*	51.7*	46.0*
Riverside 549	1.7	1.3	1.3	1.4	43.2	48.1*	45.7	45.7*
Hutcheson	1.5	1.3	1.3	1.4	47.3	38.3	50.9*	45.5*
Northrup King S59-95	1.5	1.3	1.2	1.3	47.5	37.8	51.0*	45.4*
Asgrow A5547	1.6	1.3	1.3	1.4	45.7	45.6*	44.5	45.3*
Deltapine DP 3519	1.4	1.2	1.2	1.3	51.4*	39.8	44.3	45.2*
Terral TV5797	1.9	1.2	1.3	1.5	44.1	43.8*	46.5*	44.8*
Clifford	1.5	1.2	1.3	1.3	43.5	43.1*	47.3*	44.6*
Dixie 579	1.5	1.2	1.2	1.3	45.2	49.3*	39.3	44.6*
MFA Morsoy 9152SCN	1.4	1.2	1.2	1.3	47.6	44.3*	41.8	44.6*
Dyna-Gro 3576	2.7	1.2	1.7	1.9	47.6	41.7*	43.7	44.3*
Deltapine DP 415	2.1	1.3	1.4	1.6	40.2	45.7*	47.0*	44.3*
Hartz Variety H5350	1.4	1.2	1.3	1.3	44.5	35.1	52.6*	44.1
Pioneer Variety 9552	1.6	1.2	1.3	1.4	47.9	43.1*	41.0	44.0
Hartz Variety H5050	2.1	1.6	1.4	1.7	48.1*	36.8	46.7*	43.9
Hartz Variety H5545	1.2	1.2	1.6	1.3	45.6	37.4	46.5*	43.2
Asgrow A5843	1.5	1.2	1.3	1.3	44.0	40.2	44.4	42.9
HyPerformer HSC 501	1.5	1.3	1.3	1.4	45.8	41.8*	40.8	42.8
Deltapine DP 3571	1.5	1.5	1.3	1.4	43.5	36.4	46.2	42.0
AgraTech AT 555	1.6	1.3	1.3	1.4	39.7	35.7	45.7	40.4
Hartz Variety H5218	1.7	1.2	1.3	1.4	48.6*	29.4	42.9	40.3
AgraTech FFR 514	1.9	1.3	1.4	1.5	42.5	35.8	42.3	40.2
Riverside 77	2.1	1.3	2.1	1.8	43.9	33.3	42.3	39.8
Northrup King S51-00	1.6	1.3	1.2	1.4	45.1	31.4	42.5	39.7
Riverside 529I	1.5	1.3	1.8	1.5	46.5	28.5	41.7	38.9
Riverside 499#	1.9	1.3	1.4	1.5	38.9	37.9	39.4	38.7
HyPerformer HY 574	1.8	1.3	1.5	1.5	37.8	35.7	42.2	38.6
EXPERIMENTAL VARIETIES								
ICI Ex6532	1.6	1.2	1.3	1.4	50.7*	50.3*	44.5	48.5*
Delta King LDKX-51695	1.4	1.2	1.4	1.3	44.7	44.7*	44.9	44.8*
S93-1475	1.7	1.7	1.5	1.6	40.4	42.1*	46.1	42.9
Hartz Variety HX517452	1.8	2.0	2.3	2.0	37.0	43.6*	37.9	39.5
D91-9391	2.6	2.2	3.1	2.6	34.8	40.1	39.5	38.1
AVERAGE	1.7	1.3	1.4	1.5	45.3	41.5	45.4	44.1
L.S.D. AT .10	0.4	0.3	0.3	0.2	6.5	11.2	7.0	6.5
C.V.%					10.4	12.6	11.3	15.4
TRIAL AVERAGE	1.6	1.5	1.4	1.5	45.7	39.9	44.3	43.3

- ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the same maturity group.
 ### Variety is not grouped as entered.
 # Variety is grouped into a different maturity group than entered.

PART II

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 1996, screenings were conducted using SCN from soils infested with races 1, 3, and 4*. Race determinations were made on SCN isolates collected from actual trial locations according to standard procedures used by the MU Nematode Diagnostic Laboratory. For each of the isolates used in 1996, the SCN Index and appropriate SCN Race are summarized below.

SCN INDEX

ISOLATE	PEKING	PICKETT	PI 88788	PI 90763	PI 437654
RACE 1	0.0	0.8	4.9	0.0	0.8
RACE 3	0.0	3.4	28.2	0.0	0.0
RACE 4	90.5	75.2	18.1	62.9	0.0

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

In addition to SCN race determination for individual trial locations, the above isolates were used for screening individual varieties for resistance to SCN. One hundred and fifty eight commercial varieties and experimental lines were screened for reaction to the SCN isolates representing races 1, 3, and 4.

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

The SCN screening results are reported in Table 36 in rating form and are based on the individual counts from these three tests. As a rule, low counts are correlated with high resistance to nematodes. Susceptible cultivars may receive low scores due to poorly developed root systems. The standard ratings used in Table 36 for a soybean's response to cyst nematodes are defined below:

SCN INDEX (%)	RATING
0 - 10	R = Resistant
11 - 30	MR = Moderate Resistant
31 - 59	MS = Moderate Susceptible
> 60	S = Susceptible

*Races 1 and 3 are the most common ones in Missouri, representing 68% of all SCN populations. Race 4 is relatively rare in Missouri, but is frequently noted in descriptions of soybean resistance to SCN.

EXPERIMENTAL PROCEDURES

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

Locations. The state was divided into regions that represent areas of different climates and soil types. SCN variety evaluation trials were located in the northern, central, southwestern and southeastern regions of the state. Trial locations are shown on the adjacent map. In 1996, the locations for these trials were on (1) the Harry Hayen farm near Chillicothe in Livingston Co.; (2) the Greenley Memorial Center near Novelty in Knox Co.; (3) the Frank Swisher farm near Marshall in Saline Co.; (4) the Boyes brothers farm near Benton City in Audrain Co.; (5) the Bill Cook farm near Garden City in Cass Co.; (6) the Sherrell Bean farm near Lamar in Barton Co.; (7) the Arington farm near Bertrand in Mississippi Co.; and (8) the Clarkton Research Center near Clarkton in Dunklin Co.



SUMMARY OF RESULTS

Soybean varieties and blends were evaluated in eight cyst nematode studies in 1996. 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 17. 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 17. CYST NEMATODE SOYBEAN YIELD SUMMARY

LOCATION	NUMBER OF ENTRIES	YIELD (BU/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Chillicothe	52	33-50	41	18
Novelty	52	43-60	51	19
Marshall	73	49-76	62	21
Benton City	73	35-51	44	22
Garden City	44	34-51	42	24
Lamar	44	34-48	41	25
Bertrand	31	9-51	33	27
Clarkton	31	16-37	29	28

TABLE 18. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Chillicothe (Livingston County) on the Harry Hayen Farm during 1994-96.

Planted: 2 May 1996
 Harvested: 4 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.3, OM=2.9%, P=36, K=216

Fertilizer: N=0; P₂O₅=60; K₂O=120
 Herbicide: Pre: Dual + Canopy
 Post: Galaxy
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 1800 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=10.9, June=2.9, July=4.3, Aug.=3.4, Sept.=5.6, TOTAL=27.1 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	MATURITY GROUP 3							
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-09							
Reeds Brand 355 SCN	9-19	34.3	1.1	50.5**	43.9*	--	47.2	--
AgriPro Seeds AP 3901SCN	9-19	34.3	1.0	49.1*	--	--	--	--
Reeds Brand 350 SCN	9-20	36.5	1.0	47.5*	40.1	41.0*	43.8	42.9
MFA Morsoy 538 SCN	9-18	31.0	1.0	47.0*	--	--	--	--
Northrup King S39-11	9-15	34.8	1.0	46.5*	40.4	--	43.5	--
Willcross 9539N	9-17	34.3	1.0	44.8	42.0	--	43.4	--
Patriot 7356N	9-14	31.3	1.0	44.3	--	--	--	--
Maverick	9-14	37.0	1.1	43.8	44.2*	--	44.0	--
Willcross 94	9-13	33.0	1.0	43.0	39.8	--	41.4	--
Saline	9-15	34.3	1.1	42.9	40.2	40.0	41.6	41.0
Dekalb CX394c	9-19	35.3	1.0	41.8	37.1	39.8	39.5	39.6
Terra-TR390SCN	9-12	32.5	1.0	41.5	40.3	42.4*	40.9	41.4
Lewis 334	9-10	31.3	1.0	41.1	--	--	--	--
Williams 82####	9-18	38.3	1.1	40.9	39.6	37.2	40.3	39.2
Golden Harvest H-1358	9-12	32.0	1.0	40.9	36.5	41.6*	38.7	39.7
Dairyland DSR-373	9-11	31.0	1.0	40.1	42.7	43.7*	41.4	42.2
Linford	9-16	35.3	1.0	40.1	38.8	37.6	39.5	38.8
Patriot 7372N	9-15	27.3	1.0	39.8	--	--	--	--
Midwest Seed Gen. G 3660N	9-05	33.5	1.0	39.6	38.6	--	39.1	--
Ciba Seeds 3376	9-12	31.5	1.0	39.6	--	--	--	--
AgriPro Seeds AP 3601SCN	9-14	30.5	1.0	39.6	--	--	--	--
Dyna-Gro 3391N	9-12	29.8	1.0	39.1	38.8	--	39.0	--
MFA Morsoy 9335 SCN	9-12	33.0	1.0	39.1	37.7	41.9*	38.4	39.6
Stine 3582	9-12	28.8	1.0	39.0	--	--	--	--
Merschman McKinley III	9-12	31.0	1.0	38.9	--	--	--	--
Pioneer Variety 9362	9-12	28.3	1.0	38.8	38.6	43.1*	38.7	40.2
Dekalb CX340c	9-12	31.8	1.0	38.4	31.2	44.2*	34.8	37.9
Lewis 362	9-12	31.0	1.0	37.8	40.2	--	39.0	--
Patriot 7332N	9-10	31.3	1.0	37.5	--	--	--	--
LG Seeds LG 6343c	9-11	29.8	1.0	37.5	--	--	--	--
MFA Morsoy 9338 SCN	9-15	34.8	1.0	37.5	35.5	42.1*	36.5	38.4
Lewis 391	9-14	30.8	1.0	36.0	40.7	44.5*	38.4	40.4
Pioneer Variety 9363	9-12	30.8	1.0	35.6	--	--	--	--
Patriot 7311N	9-09	27.0	1.0	34.5	--	--	--	--
Mark Seed 95CN27###	9-09	31.0	1.0	32.9	--	--	--	--
EXPERIMENTAL VARIETIES								
Golden Harvest X-365N	9-16	34.5	1.0	44.7	--	--	--	--
Mark Seed Exp.CN33	9-13	30.3	1.0	43.4	--	--	--	--
NMSB-5779	9-19	40.0	1.1	43.4	--	--	--	--
Midland Seeds XP372CN	9-12	32.0	1.0	35.7	--	--	--	--
AVERAGE	9-14	32.4	1.0	40.9	39.7	40.8	40.3	40.5
L.S.D. AT .10 ¹	3	3.4	0.1	4.7	4.5	4.1		
C.V.%	1.0	6.3		9.8	12.0	8.9		

TABLE 18. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-17							
Mustang	9-24	35.3	1.2	48.6**	36.6	41.8*	42.6	42.3
Midwest Seed Gen. G 4320N	9-19	35.0	1.1	46.3*	--	--	--	--
MFA Morsoy 441 SCN	9-22	31.5	1.1	45.1*	42.5*	--	43.8	--
Delsoy 4210	9-23	37.5	1.4	43.8*	39.4	35.1	41.6	39.4
Willcross AP-40	9-16	32.5	1.0	43.5*	44.7*	--	44.1	--
Golden Harvest H-1432	9-24	31.5	1.2	42.6	42.7*	--	42.7	--
ICI D454	9-20	35.3	1.1	42.5	42.8*	44.0*	42.7	43.1
Terra-TS4792	9-24	41.5	1.7	41.0	39.3	--	40.2	--
Merschman Richmond III	9-20	32.5	1.1	38.9	42.4*	43.0*	40.7	41.4
Merschman Phoenix	9-25	30.3	1.1	38.3	--	--	--	--
Terra-TS4292	9-19	32.0	1.0	37.8	44.4*	--	41.1	--
Dyna-Gro 3431N	9-11	30.3	1.0	37.1	--	--	--	--
EXPERIMENTAL VARIETIES								
NMSB-129	9-21	31.0	1.0	39.5	42.6*	--	41.1	--
5.0 Maturity Group Check##	9-29							
AVERAGE	9-21	33.6	1.2	41.9	40.9	40.5	41.4	41.1
L.S.D. AT .10 ¹	2	2.8	0.2	5.7	3.4	3.2		
C.V.%	0.6	7.2		11.7	8.6	5.6		
TRIAL AVERAGE		32.7	1.0	41.1	40.1	40.7	40.6	40.6

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

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

Maturity group checks as identified on page 4.

TABLE 19. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Novelty (Knox County) on the Greenly Memorial Farm during 1994-96.

Planted: 3 May 1996
 Harvested: 7 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.4, OM=2.8%, P=27, K=200

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual + Scepter + Command
 Post: Blazer
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Harvest: 14,200 eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=10.1, June=4.0, July=3.8, Aug.=7.0, Sept.=2.7, TOTAL=27.6 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-14							
Reeds Brand 355 SCN	9-26	35.3	1.1	60.1**	43.0	--	51.6	--
MFA Morsoy 538 SCN	9-26	35.5	1.0	58.6*	--	--	--	--
AgriPro Seeds AP 3901SCN	9-28	35.5	1.0	58.4*	--	--	--	--
Stine 3582	9-22	33.0	1.0	56.7*	--	--	--	--
Willcross 9539N	9-26	37.0	1.5	56.6*	41.0	--	48.8	--
Midwest Seed Gen. G 3660N	9-21	35.5	1.0	56.2	43.4	--	49.8	--
Reeds Brand 350 SCN	9-28	40.3	1.0	54.9	39.7	53.4*	47.3	49.3
Lewis 362	9-21	34.8	1.0	54.6	43.0	--	48.8	--
AgriPro Seeds AP 3601SCN	9-24	33.5	1.1	53.8	--	--	--	--
Saline	9-26	38.3	1.3	53.5	39.9	54.4*	46.7	49.3
Lewis 334	9-19	34.3	1.1	53.0	--	--	--	--
Golden Harvest H-1358	9-22	35.3	1.0	52.7	43.2	53.1*	48.0	49.7
Ciba Seeds 3376	9-19	34.0	1.0	52.2	--	--	--	--
Patriot 7356N	9-23	32.0	1.0	52.1	--	--	--	--
Williams 82####	9-28	35.8	1.0	51.9	41.0	46.5	46.5	46.5
Maverick	9-24	39.8	2.6	51.8	47.9**	--	49.8	--
Dekalb CX394c	9-27	37.3	1.0	51.5	42.7	52.1	47.1	48.8
Northrup King S39-11	9-28	36.3	1.6	51.2	42.1	--	46.7	--
Patriot 7372N	9-23	31.8	1.0	50.3	--	--	--	--
Lewis 391	9-23	34.5	1.1	50.2	40.6	51.0	45.4	47.3
Linford	9-24	37.5	2.4	48.8	41.5	51.4	45.2	47.2
Pioneer Variety 9362	9-20	33.8	1.0	48.8	45.2*	54.3*	47.0	49.4
Patriot 7332N	9-19	34.8	1.0	48.2	--	--	--	--
Patriot 7311N	9-14	31.8	1.0	48.0	--	--	--	--
Terra-TR390SCN	9-23	34.0	1.1	47.6	44.4	51.4	46.0	47.8
Dekalb CX340c	9-21	34.3	1.0	46.4	44.8	53.5*	45.6	48.2
Merschman McKinley III	9-12	33.3	1.0	46.3	--	--	--	--
Willcross 94	9-22	35.3	1.0	46.1	43.2	--	44.7	--
LG Seeds LG 6343c	9-19	33.3	1.1	46.1	--	--	--	--
Mark Seed 95CN27###	9-16	33.5	1.0	46.1	--	--	--	--
MFA Morsoy 9338 SCN	9-24	37.8	1.0	45.1	42.9	53.0*	44.0	47.0
Dyna-Gro 3391N	9-20	34.0	1.0	44.9	47.7*	--	46.3	--
Dairyland DSR-373	9-20	35.0	1.1	44.7	44.7	53.4*	44.7	47.6
MFA Morsoy 9335 SCN	9-20	35.3	1.0	44.4	44.1	51.7	44.3	46.7
Pioneer Variety 9363	9-21	34.3	1.3	42.8	--	--	--	--
EXPERIMENTAL VARIETIES								
NMSB-5779	10-01	39.3	1.5	53.6	--	--	--	--
Mark Seed Exp.CN33	9-22	31.8	1.0	52.1	--	--	--	--
Golden Harvest X-365N	9-23	35.3	1.0	51.4	--	--	--	--
Midland Seeds XP372CN	9-19	33.5	1.0	45.2	--	--	--	--
AVERAGE	9-22	35.1	1.2	50.7	42.9	51.9	46.8	48.5
L.S.D. AT .10 ¹	1	1.7	0.4	3.5	3.0	4.1		
C.V. %	0.7	4.3		6.0	7.4	7.0		

TABLE 19. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-30							
Willcross AP-40	9-28	35.0	1.3	58.8**	45.0*	--	51.9	--
Mustang	10-02	38.0	1.3	56.5*	42.4*	45.8*	49.5	48.2
Golden Harvest H-1432	10-02	36.3	1.1	55.0*	41.0	--	48.0	--
ICI D454	10-01	38.3	1.1	54.9*	42.7*	46.0*	48.8	47.9
Merschman Richmond III	10-01	38.8	1.1	54.4*	42.0	45.2	48.2	47.2
MFA Morsoy 441 SCN	10-01	34.8	1.3	53.5	42.3*	--	47.9	--
Midwest Seed Gen. G 4320N	9-27	39.5	1.5	52.7	--	--	--	--
Terra-TS4292	10-01	34.3	1.3	50.2	42.2*	--	46.2	--
Terra-TS4792	10- 2	42.8	1.8	49.4	36.3	--	42.8	--
Dyna-Gro 3431N	9-20	34.8	1.0	49.2	--	--	--	--
Merschman Phoenix	10-02	36.0	1.1	48.8	--	--	--	--
Delsoy 4210	10-02	39.5	2.0	47.1	41.2	45.3	44.2	44.5
EXPERIMENTAL VARIETIES								
NMSB-129	10-01	37.5	1.1	55.1*	40.7	--	47.9	--
5.0 Maturity Group Check##	10-07							
AVERAGE	10-01	37.4	1.3	52.7	41.0	44.7	46.8	46.1
L.S.D. AT .10 ¹	1	2.1	0.4	4.4	3.1	2.9		
C.V.%	0.4	4.7		7.0	8.0	5.6		
TRIAL AVERAGE		35.6	1.2	51.2	42.3	49.7	46.8	47.7

¹ LSD for 1994 was calculated at $p = 0.05$.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

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

Maturity group checks as identified on page 4.

TABLE 20. Performance of Soybean Cyst Nematode Resistant Soybean Varieties evaluated at two Northern Missouri locations (Chillicothe and Novelty) during 1996.

Chillicothe Planted: 2 May 1996 Harvested: 4 October 1996 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A	Novelty Planted: 3 May 1996 Harvested: 7 October 1996 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A
Soil Type: Putnam Silt Loam Previous Crop: Soybeans SCN Pop. at Planting: 1,800 Eggs Growing Season Moisture: 27.1 Inches	Soil Type: Putnam Silt Loam Previous Crop: Soybean SCN Pop. at Harvest: 14,200 Eggs Growing Season Moisture: 27.6 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Chillicothe	Novelty	Mean	Chillicothe	Novelty	Mean

MATURITY GROUP 3

COMMERCIAL VARIETIES

Reeds Brand 355 SCN	1.1	1.1	1.1	50.5**	60.1**	55.3**
AgriPro Seeds AP 3901SCN	1.0	1.0	1.0	49.1*	58.4*	53.8*
MFA Morsoy 538 SCN	1.0	1.0	1.0	47.0*	58.6*	52.8*
Reeds Brand 350 SCN	1.0	1.0	1.0	47.5*	54.9	51.2
Willcross 9539N	1.0	1.5	1.2	44.8	56.6*	50.7
Northrup King S39-11	1.0	1.6	1.3	46.5*	51.2	48.8
Saline	1.1	1.3	1.2	42.9	53.5	48.2
Patriot 7356N	1.0	1.0	1.0	44.3	52.1	48.2
Midwest Seed Gen. G 3660N	1.0	1.0	1.0	39.6	56.2	47.9
Stine 3582	1.0	1.0	1.0	39.0	56.7*	47.8
Maverick	1.1	2.6	1.8	43.8	51.8	47.8
Lewis 334	1.0	1.1	1.0	41.1	53.0	47.0
Golden Harvest H-1358	1.0	1.0	1.0	40.9	52.7	46.8
AgriPro Seeds AP 3601SCN	1.0	1.1	1.0	39.6	53.8	46.7
Dekalb CX394c	1.0	1.0	1.0	41.8	51.5	46.6
Williams 82####	1.1	1.0	1.0	40.9	51.9	46.4
Lewis 362	1.0	1.0	1.0	37.8	54.6	46.2
Ciba Seeds 3376	1.0	1.0	1.0	39.6	52.2	45.9
Patriot 7372N	1.0	1.0	1.0	39.8	50.3	45.0
Terra-TR390SCN	1.0	1.1	1.0	41.5	47.6	44.6
Willcross 94	1.0	1.0	1.0	43.0	46.1	44.6
Linford	1.0	2.4	1.7	40.1	48.8	44.4
Pioneer Variety 9362	1.0	1.0	1.0	38.8	48.8	43.8
Lewis 391	1.0	1.1	1.0	36.0	50.2	43.1
Patriot 7332N	1.0	1.0	1.0	37.5	48.2	42.8
Merschman McKinley III	1.0	1.0	1.0	38.9	46.3	42.6
Dairyland DSR-373	1.0	1.1	1.0	40.1	44.7	42.4
Dekalb CX340c	1.0	1.0	1.0	38.4	46.4	42.4
Dyna-Gro 3391N	1.0	1.0	1.0	39.1	44.9	42.0
LG Seeds LG 6343c	1.0	1.1	1.0	37.5	46.1	41.8
MFA Morsoy 9335 SCN	1.0	1.0	1.0	39.1	44.4	41.8
MFA Morsoy 9338 SCN	1.0	1.0	1.0	37.5	45.1	41.3
Patriot 7311N	1.0	1.0	1.0	34.5	48.0	41.2
Mark Seed 95CN27###	1.0	1.0	1.0	32.9	46.1	39.5
Pioneer Variety 9363	1.0	1.3	1.2	35.6	42.8	39.2

EXPERIMENTAL VARIETIES

NMSB-5779	1.1	1.5	1.3	43.4	53.6	48.5
Golden Harvest X-365N	1.0	1.0	1.0	44.7	51.4	48.0
Mark Seed Exp. CN33	1.0	1.0	1.0	43.4	52.1	47.8
Midland Seeds XP372CN	1.0	1.0	1.0	35.7	45.2	40.4
AVERAGE	1.0	1.2	1.1	40.9	50.7	45.8
L.S.D. AT .10	0.1	0.4	0.3	4.7	3.5	2.9
C.V. %				9.8	6.0	7.8

TABLE 20. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Chillicothe	Novelty	Mean	Chillicothe	Novelty	Mean
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Mustang	1.2	1.3	1.2	48.6**	56.5*	52.6**
Willcross AP-40	1.0	1.3	1.2	43.5*	58.8**	51.2*
Midwest Seed Gen. G 4320N	1.1	1.5	1.3	46.3*	52.7	49.5*
MFA Morsoy 441 SCN	1.1	1.3	1.2	45.1*	53.5	49.3*
Golden Harvest H-1432	1.2	1.1	1.2	42.6	55.0*	48.8
ICI D454	1.1	1.1	1.1	42.5	54.9*	48.7
Merschman Richmond III	1.1	1.1	1.1	38.9	54.4*	46.6
Delsoy 4210	1.4	2.0	1.7	43.8*	47.1	45.4
Terra-TS4792	1.7	1.8	1.8	41.0	49.4	45.2
Terra-TS4292	1.0	1.3	1.2	37.8	50.2	44.0
Merschman Phoenix	1.1	1.1	1.1	38.3	48.8	43.6
Dyna-Gro 3431N	1.0	1.0	1.0	37.1	49.2	43.2
EXPERIMENTAL VARIETIES						
NMSB-129	1.0	1.1	1.0	39.5	55.1*	47.3
AVERAGE	1.2	1.3	1.2	41.9	52.7	47.3
L.S.D. AT .10	0.2	0.4	0.2	5.7	4.4	3.5
C.V. %				11.7	7.0	9.0
TRIAL AVERAGE	1.0	1.2	1.1	41.1	51.2	46.2

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

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

TABLE 21. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1995-96 and near Brunswick (Carroll County) on the Meyers Farm during 1994.

Planted: 25 April 1996
 Harvested: 1 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Monona Silt Loam
 Soil Test: pH=5.6, OM=3.0%, P=74, K=402

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

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

Cyst Nematode Race: Race = 3

Growing Season Rainfall: May=8.1, June=3.6, July=6.7, Aug.=1.2, Sept.=2.5, TOTAL=22.1 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-05							
Reeds Brand 355 SCN	9-11	36.8	1.0	68.7**	56.4*	--	62.6	--
Bergmann-Taylor 386C	9-08	35.0	1.0	65.1*	50.9	--	58.0	--
MFA Morsoy 538 SCN	9-11	37.8	1.1	64.8*	--	--	--	--
Asgrow A3732	9-09	33.5	1.1	63.4*	53.9*	--	58.7	--
Reeds Brand 360 SCN	9-08	35.3	2.1	63.1*	43.4	28.8	53.3	45.1
Saline	9-11	39.0	1.4	63.0*	49.1	30.3*	56.1	47.5
AgriPro Seeds AP 3901SCN	9-13	37.0	1.0	62.7*	--	--	--	--
Ciba Seeds 3376	9-06	36.0	1.1	60.8	--	--	--	--
Golden Harvest H-1358	9-06	35.5	1.1	60.7	--	33.1*	--	--
Willcross 9539N	9-12	37.8	1.3	59.4	57.4**	--	58.4	--
Terra-TR390SCN	9-06	34.8	1.2	59.4	51.6	23.0	55.5	44.7
Willcross 94	9-07	36.0	1.1	59.3	49.3	--	54.3	--
Northrup King S39-11	9-09	34.8	1.4	59.1	43.5	27.6	51.3	43.4
Lewis 391	9-08	35.0	1.0	58.7	51.8	35.8*	55.3	48.8
MFA Morsoy 9338 SCN	9-08	36.5	1.0	58.7	47.7	24.7	53.2	43.7
Pioneer Variety 9362	9-05	30.5	1.0	58.5	49.1	37.6**	53.8	48.4
Merschman McKinley III	9-04	32.3	1.2	58.4	--	--	--	--
Dekalb CX394c	9-11	37.8	1.3	57.3	48.4	--	52.9	--
Maverick	9-08	37.0	1.9	56.7	45.3	--	51.0	--
Gateway 361	9-06	35.0	1.0	56.3	--	--	--	--
MFA Morsoy 9335 SCN	9-05	33.0	1.0	54.5	51.1	30.2*	52.8	45.3
Dyna-Gro 3391N	9-05	32.5	1.1	54.4	51.4	--	52.9	--
Pioneer Variety 9363	9-05	31.8	1.6	54.1	--	--	--	--
Dairyland DSR-373	9-05	33.8	1.1	53.8	--	33.7*	--	--
AgriPro Seeds AP 3601SCN	9-07	32.5	1.0	53.7	--	--	--	--
Williams 82####	9-10	36.8	1.2	53.6	45.2	21.7	49.4	40.2
Bergmann-Taylor 356CSTS	9-07	34.8	1.3	51.9	--	--	--	--
Linford	9-08	38.8	1.9	48.8	43.0	32.4*	45.9	41.4
EXPERIMENTAL VARIETIES								
Golden Harvest X-365N	9-08	34.5	1.0	60.3	--	--	--	--
NMSB-5779	9-12	39.3	1.4	57.6	--	--	--	--
Midland Seeds XP372CN	9-05	32.8	1.0	50.0	--	--	--	--
AVERAGE	9-08	35.3	1.2	58.3	49.6	28.6	54.0	45.5
L.S.D. AT .10¹	1	2.9	0.4	6.4	3.8	7.6		
C.V.%	0.5	7.0		9.4	8.0	18.9		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-12							
Willcross AP-40	9-15	42.3	1.1	75.5**	54.5*	--	65.0	--
MFA Morsoy 9245 SCN	9-18	44.5	1.4	73.6*	51.8	27.5	62.7	51.0
NeCo 7415N	9-19	41.0	1.4	70.4*	48.6	--	59.5	--
Dyna-Gro 3444N	9-22	38.3	1.0	70.0*	--	--	--	--

TABLE 21. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
Golden Harvest H-1432	9-22	39.0	1.3	70.0*	49.4	--	59.7	--
Bergmann-Taylor 436C	9-22	40.0	1.3	68.6	55.6*	--	62.1	--
Mustang	9-22	42.0	1.3	68.4	50.8	31.1*	59.6	50.1
MFA Morsoy 443 SCN	9-16	41.0	1.4	68.2	--	--	--	--
NeCo 7445N	9-22	45.8	1.4	68.1	55.5*	--	61.8	--
ICI D473	9-24	44.3	1.7	67.9	--	--	--	--
Patriot 452N	9-19	44.0	1.3	67.8	--	--	--	--
MFA Morsoy 444 SCN	9-24	41.3	1.3	67.7	52.8*	--	60.3	--
Lewis 431	9-23	41.8	1.3	67.6	55.0*	--	61.3	--
MFA Morsoy 441 SCN	9-19	39.8	1.4	67.3	49.7	--	58.5	--
Patriot 7430N	9-21	43.8	1.4	67.2	--	--	--	--
Lewis 405	9-16	43.0	1.4	66.8	49.8	27.7	58.3	48.1
Merschman Phoenix	9-23	39.0	1.1	66.7	--	--	--	--
Dekalb CX450c	9-20	42.3	1.3	66.4	--	--	--	--
LG Seeds LG 6437c	9-20	41.0	1.1	66.3	53.4*	--	59.9	--
Willcross 9541N	9-18	38.0	1.4	66.0	50.8	--	58.4	--
Terra-TS4292	9-20	39.3	1.4	65.9	51.4	33.1*	58.7	50.1
Medallion M4301CN	9-22	46.5	1.6	65.7	--	--	--	--
Dairyland DSR-420	9-15	41.8	1.4	65.5	--	31.6*	--	--
Ciba Seeds 3436	9-18	43.8	1.5	65.1	--	--	--	--
Stine 4562	9-23	38.0	1.2	63.3	56.2**	--	59.8	--
Bergmann-Taylor 445C	9-24	42.0	1.4	63.3	53.6*	32.1*	58.5	49.7
Patriot 457N	9-21	39.3	1.1	63.2	--	--	--	--
Merschman Richmond III	9-20	43.8	1.3	62.8	51.2	33.8*	57.0	49.3
Gateway 423	9-16	42.0	1.4	62.7	--	--	--	--
Patriot 7459N	9-22	45.0	1.4	62.3	--	--	--	--
LG Seeds LG 6462c	9-23	41.5	1.3	61.8	53.9*	--	57.9	--
Bergmann-Taylor 457C	9-21	44.0	1.4	61.3	--	--	--	--
Patriot 420N	9-17	42.0	1.6	61.0	--	28.9	--	--
Willcross 9547N-A	9-12	35.8	1.0	60.6	--	--	--	--
Dyna-Gro 3431N	9-06	35.8	1.1	60.5	--	--	--	--
Delsoy 4210	9-21	41.8	2.2	60.3	45.7	31.6*	53.0	45.9
Terra-TS4792	9-23	46.5	1.9	58.2	45.3	--	51.8	--
EXPERIMENTAL VARIETIES								
MFA Exp. 4426	9-22	38.8	1.0	74.1*	--	--	--	--
NMSB-129	9-18	40.5	1.0	65.7	50.7	--	58.2	--
Midland Seeds XP401CN	9-11	37.3	1.0	65.4	--	--	--	--
S92-2712	9-28	41.5	4.0	63.5	--	--	--	--
S92-2716	9-28	44.8	4.0	55.8	--	--	--	--
5.0 Maturity Group Check##	9-30							
AVERAGE	9-20	41.5	1.5	65.7	50.9	30.6	58.3	49.1
L.S.D. AT .10 ¹	2	2.8	0.4	5.6	3.6	5.0		
C.V. %	0.6	5.7		7.2	7.6	14.3		
TRIAL AVERAGE		38.9	1.4	62.5	50.2	29.5		

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

Maturity group checks as identified on page 4.

TABLE 22. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Benton City (Audrain County) on the Robert and Bruce Boyes Farm during 1994-96.

Planted: 6 June 1996
 Harvested: 9 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.6, OM=3.7%, P=31, K=119

Fertilizer: N=0; P₂O₅=60; K₂O=60
 Herbicide: Pre: Lasso + Scepter + Roundup
 Post: Blazer, Poast +
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 7,520 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=6.9, June=2.8, July=2.7, Aug.=3.5, Sept.=2.3, TOTAL=18.2 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	9-17							
Northrup King S39-11	9-26	32.3	2.0	48.4**	45.3**	41.3*	46.8	45.0
Reeds Brand 360 SCN	9-25	32.8	2.0	48.1*	41.4*	38.4	44.8	42.6
Bergmann-Taylor 386C	9-24	29.5	1.4	46.4*	44.1*	--	45.3	--
Golden Harvest H-1358	9-22	31.5	1.0	46.3*	--	41.0*	--	--
Willcross 94	9-21	31.0	1.1	46.2*	42.8*	--	44.5	--
AgriPro Seeds AP 3601SCN	9-22	29.8	1.3	45.8*	--	--	--	--
Maverick	9-23	33.8	2.1	45.7*	43.7*	--	44.7	--
Terra-TR390SCN	9-21	30.0	1.0	45.0*	40.3	42.3*	42.7	42.5
Willcross 9539N	9-25	33.3	1.5	45.0*	44.3*	--	44.7	--
Reeds Brand 355 SCN	9-24	29.8	1.0	44.9*	39.0	--	42.0	--
AgriPro Seeds AP 3901SCN	9-25	30.5	1.0	44.9*	--	--	--	--
Dyna-Gro 3391N	9-21	31.3	1.1	44.5	40.5	--	42.5	--
Saline	9-25	33.0	1.1	44.5	36.7	40.1*	40.6	40.4
MFA Morsoy 538 SCN	9-24	30.0	1.0	44.3	--	--	--	--
MFA Morsoy 9338 SCN	9-22	30.8	1.1	43.5	36.5	39.1*	40.0	39.7
Gateway 361	9-21	29.8	1.1	43.4	--	--	--	--
MFA Morsoy 9335 SCN	9-21	30.5	1.0	43.1	37.3	40.3*	40.2	40.2
Dairyland DSR-373	9-21	30.0	1.0	42.8	--	41.4*	--	--
Williams 82####	9-25	36.3	1.8	42.5	38.4	34.3	40.5	38.4
Dekalb CX394c	9-25	33.0	1.1	42.1	37.6	--	39.9	--
Asgrow A3732	9-22	29.8	1.1	42.1	38.8	--	40.5	--
Pioneer Variety 9362	9-21	29.8	1.0	41.6	35.4	40.2*	38.5	39.1
Pioneer Variety 9363	9-20	32.3	1.1	41.2	--	--	--	--
Lewis 391	9-23	29.3	1.0	41.1	44.5*	39.1*	42.8	41.6
Linford	9-25	34.3	2.8	40.6	41.2*	38.8	40.9	40.2
Merschman McKinley III	9-20	27.5	1.0	40.6	--	--	--	--
Ciba Seeds 3376	9-20	30.5	1.0	40.2	--	--	--	--
Bergmann-Taylor 356CSTS	9-22	30.0	1.0	39.3	--	--	--	--

EXPERIMENTAL VARIETIES

Golden Harvest X-365N	9-24	29.8	1.3	46.2*	--	--	--	--
NMSB-5779	9-25	35.0	1.5	42.9	--	--	--	--
Midland Seeds XP372CN	9-22	29.5	1.0	41.0	--	--	--	--
AVERAGE	9-23	31.2	1.3	43.7	40.4	39.7	42.0	41.3
L.S.D. AT .10 ⁴	1	2.0	0.5	3.6	4.1	3.9		
C.V.%	0.4	5.4		7.0	10.8	8.5		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-24							
MFA Morsoy 441 SCN	9-28	33.0	1.2	53.1**	37.7*	--	45.4	--
Patriot 457N	10-02	34.3	1.3	51.1*	--	--	--	--

TABLE 22. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (ln)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
NeCo 7445N	10-01	38.3	1.1	50.9*	34.2	--	42.6	--
NeCo 7415N	9-28	33.3	1.1	50.8*	35.0	--	42.9	--
MFA Morsoy 444 SCN	10-04	35.8	1.4	50.3*	35.5	--	42.9	--
Willcross 9541N	9-26	33.8	1.0	50.0*	37.3*	--	43.7	--
Mustang	10-01	35.8	1.4	49.5*	36.4*	39.6*	43.0	41.8
LG Seeds LG 6462c	10-04	34.5	1.2	49.1	39.9**	--	44.5	--
Patriot 420N	9-24	36.3	1.1	48.9	--	39.8*	--	--
Medallion M4301CN	10-01	38.8	1.3	48.7	--	--	--	--
Bergmann-Taylor 436C	10-01	34.0	1.3	48.7	34.2	--	41.5	--
Ciba Seeds 3436	9-24	35.5	1.0	48.5	--	--	--	--
Patriot 7459N	10-01	38.5	1.5	48.5	--	--	--	--
Patriot 452N	9-28	35.3	1.0	48.5	--	--	--	--
Bergmann-Taylor 445C	10-01	36.0	1.3	48.4	33.6	38.1*	41.0	40.0
MFA Morsoy 9245 SCN	9-27	35.5	1.0	48.4	33.7	38.6*	41.1	40.2
Terra-TS4292	9-28	33.3	1.0	47.9	36.1*	39.6*	42.0	41.2
Lewis 405	9-24	35.8	1.0	47.8	38.1*	38.5*	43.0	41.5
MFA Morsoy 443 SCN	9-25	35.5	1.0	47.7	--	--	--	--
Merschman Phoenix	10-01	30.5	1.1	47.4	--	--	--	--
ICI D473	10-01	37.5	1.5	47.3	--	--	--	--
Gateway 423	9-25	34.8	1.0	47.0	--	--	--	--
Dekalb CX450c	10-01	36.0	1.2	47.0	--	--	--	--
Golden Harvest H-1432	10-01	32.3	1.0	47.0	31.8	--	39.4	--
Willcross AP-40	9-24	30.5	1.0	46.9	38.6*	--	42.8	--
Dyna-Gro 3444N	10-02	31.0	1.0	46.8	--	--	--	--
Lewis 431	10-03	35.0	1.0	46.8	35.8	--	41.3	--
Merschman Richmond III	9-27	35.0	1.0	46.6	35.3	39.9*	41.0	40.6
Stine 4562	10-01	31.0	1.3	46.0	36.3*	--	41.2	--
Terra-TS4792	10-01	41.0	1.3	45.2	36.9*	--	41.1	--
Dyna-Gro 3431N	9-20	29.0	1.0	44.9	--	--	--	--
Bergmann-Taylor 457C	9-28	34.5	1.0	44.0	--	--	--	--
Delsoy 4210	10-01	37.8	1.8	44.0	36.1*	35.9	40.1	38.7
Dairyland DSR-420	9-24	36.0	1.1	43.4	--	39.4*	--	--
Willcross 9547N-A	9-23	30.3	1.0	42.2	--	--	--	--
Patriot 7430N	10-01	36.3	1.2	41.9	--	--	--	--
LG Seeds LG 6437c	9-28	34.8	1.0	41.5	34.2	--	37.9	--
EXPERIMENTAL VARIETIES								
Midland Seeds XP401CN	9-22	31.5	1.0	49.2*	--	--	--	--
MFA Exp. 4426	10-01	30.8	1.0	49.0	--	--	--	--
NMSB-129	10-01	31.5	1.0	46.4	37.5*	--	42.0	--
S92-2712	10-02	35.5	4.3	43.5	--	--	--	--
S92-2716	10-02	36.3	4.8	42.4	--	--	--	--
5.0 Maturity Group Check##	10-09							
AVERAGE	10-01	34.6	1.3	47.2	35.7	38.4	41.4	40.4
L.S.D. AT .10 ¹	2	1.6	0.4	3.9	3.8	3.3		
C.V. %	0.5	4.0		7.3	11.2	7.5		
TRIAL AVERAGE		33.1	1.3	45.7	38.0	39.1	41.8	40.9

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

Maturity group checks as identified on page 4.

TABLE 23. Performance of Soybean Cyst Nematode Resistant Soybean Varieties evaluated at two Central Missouri locations (Marshall and Benton City) during 1996.

Marshall
 Planted: 25 April 1996
 Harvested: 1 October 1996
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A
 Soil Type: Monona Silt Loam
 Previous Crop: Corn
 SCN Pop. at Planting: 2,640 Eggs
 Growing Season Moisture: 22.1 Inches

Benton City
 Planted: 6 June 1996
 Harvested: 9 October 1996
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A
 Soil Type: Putnam Silt Loam
 Previous Crop: Soybean
 SCN Pop. at Planting: 7,520 Eggs
 Growing Season Moisture: 18.2 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Marshall	Bentn Cty	Mean	Marshall	Bentn Cty	Mean
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Reeds Brand 355 SCN	1.0	1.0	1.0	68.7**	44.9*	56.8**
Bergmann-Taylor 386C	1.0	1.4	1.2	65.1*	46.4*	55.8*
Reeds Brand 360 SCN	2.1	2.0	2.0	63.1*	48.1*	55.6*
MFA Morsoy 538 SCN	1.1	1.0	1.0	64.8*	44.3	54.6*
Saline	1.4	1.1	1.2	63.0*	44.5	53.8*
AgriPro Seeds AP 3901SCN	1.0	1.0	1.0	62.7*	44.9*	53.8*
Northrup King S39-11	1.4	2.0	1.7	59.1	48.4**	53.8*
Golden Harvest H-1358	1.1	1.0	1.0	60.7	46.3*	53.5*
Asgrow A3732	1.1	1.1	1.1	63.4*	42.1	52.8
Willcross 94	1.1	1.1	1.1	59.3	46.2*	52.8
Willcross 9539N	1.3	1.5	1.4	59.4	45.0*	52.2
Terra-TR390SCN	1.2	1.0	1.1	59.4	45.0*	52.2
Maverick	1.9	2.1	2.0	56.7	45.7*	51.2
MFA Morsoy 9338 SCN	1.0	1.1	1.0	58.7	43.5	51.1
Ciba Seeds 3376	1.1	1.0	1.0	60.8	40.2	50.5
Pioneer Variety 9362	1.0	1.0	1.0	58.5	41.6	50.0
Lewis 391	1.0	1.0	1.0	58.7	41.1	49.9
AgriPro Seeds AP 3601SCN	1.0	1.3	1.2	53.7	45.8*	49.8
Gateway 361	1.0	1.1	1.0	56.3	43.4	49.8
Dekalb CX394c	1.3	1.1	1.2	57.3	42.1	49.7
Merschman McKinley III	1.2	1.0	1.1	58.4	40.6	49.5
Dyna-Gro 3391N	1.1	1.1	1.1	54.4	44.5	49.4
MFA Morsoy 9335 SCN	1.0	1.0	1.0	54.5	43.1	48.8
Dairyland DSR-373	1.1	1.0	1.0	53.8	42.8	48.3
Williams 82####	1.2	1.8	1.5	53.6	42.5	48.0
Pioneer Variety 9363	1.6	1.1	1.4	54.1	41.2	47.6
Bergmann-Taylor 356CSTS	1.3	1.0	1.2	51.9	39.3	45.6
Linford	1.9	2.8	2.4	48.8	40.6	44.7
EXPERIMENTAL VARIETIES						
Golden Harvest X-365N	1.0	1.3	1.2	60.3	46.2*	53.2*
NMSB-5779	1.4	1.5	1.4	57.6	42.9	50.2
Midland Seeds XP372CN	1.0	1.0	1.0	50.0	41.0	45.5
AVERAGE	1.2	1.3	1.2	58.3	43.7	51.0
L.S.D. AT .10	0.4	0.5	0.3	6.4	3.6	3.6
C.V. %				9.4	7.0	8.6
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Willcross AP-40	1.1	1.0	1.0	75.5**	46.9	61.2*
MFA Morsoy 9245 SCN	1.4	1.0	1.2	73.6*	48.4	61.0*
NeCo 7415N	1.4	1.1	1.2	70.4*	50.8*	60.6*
MFA Morsoy 441 SCN	1.4	1.2	1.3	67.3	53.1**	60.2*
NeCo 7445N	1.4	1.1	1.2	68.1	50.9*	59.5*
Mustang	1.3	1.4	1.4	68.4	49.5*	59.0*
MFA Morsoy 444 SCN	1.3	1.4	1.4	67.7	50.3*	59.0*
Bergmann-Taylor 436C	1.3	1.3	1.3	68.6	48.7	58.6*
Golden Harvest H-1432	1.3	1.0	1.2	70.0*	47.0	58.5*

TABLE 23. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Marshall	Bentn Cty	Mean	Marshall	Bentn Cty	Mean
Dyna-Gro 3444N	1.0	1.0	1.0	70.0*	46.8	58.4*
Patriot 452N	1.3	1.0	1.2	67.8	48.5	58.2*
MFA Morsoy 443 SCN	1.4	1.0	1.2	68.2	47.7	58.0
Willcross 9541N	1.4	1.0	1.2	66.0	50.0*	58.0
ICI D473	1.7	1.5	1.6	67.9	47.3	57.6
Lewis 405	1.4	1.0	1.2	66.8	47.8	57.3
Medallion M4301CN	1.6	1.3	1.4	65.7	48.7	57.2
Patriot 457N	1.1	1.3	1.2	63.2	51.1*	57.2
Lewis 431	1.3	1.0	1.2	67.6	46.8	57.2
Merschman Phoenix	1.1	1.1	1.1	66.7	47.4	57.0
Terra-TS4292	1.4	1.0	1.2	65.9	47.9	56.9
Ciba Seeds 3436	1.5	1.0	1.2	65.1	48.5	56.8
Dekalb CX450c	1.3	1.2	1.2	66.4	47.0	56.7
Bergmann-Taylor 445C	1.4	1.3	1.4	63.3	48.4	55.8
LG Seeds LG 6462c	1.3	1.2	1.2	61.8	49.1	55.4
Patriot 7459N	1.4	1.5	1.4	62.3	48.5	55.4
Patriot 420N	1.6	1.1	1.4	61.0	48.9	55.0
Gateway 423	1.4	1.0	1.2	62.7	47.0	54.8
Merschman Richmond III	1.3	1.0	1.2	62.8	46.6	54.7
Patriot 7430N	1.4	1.2	1.3	67.2	41.9	54.6
Stine 4562	1.2	1.3	1.2	63.3	46.0	54.6
Dairyland DSR-420	1.4	1.1	1.2	65.5	43.4	54.4
LG Seeds LG 6437c	1.1	1.0	1.0	66.3	41.5	53.9
Dyna-Gro 3431N	1.1	1.0	1.0	60.5	44.9	52.7
Bergmann-Taylor 457C	1.4	1.0	1.2	61.3	44.0	52.6
Delsoy 4210	2.2	1.8	2.0	60.3	44.0	52.2
Terra-TS4792	1.9	1.3	1.6	58.2	45.2	51.7
Willcross 9547N-A	1.0	1.0	1.0	60.6	42.2	51.4
EXPERIMENTAL VARIETIES						
MFA Exp. 4426	1.0	1.0	1.0	74.1*	49.0	61.6**
Midland Seeds XP401CN	1.0	1.0	1.0	65.4	49.2*	57.3
NMSB-129	1.0	1.0	1.0	65.7	46.4	56.0
S92-2712	4.0	4.3	4.2	63.5	43.5	53.5
S92-2716	4.0	4.8	4.4	55.8	42.4	49.1
AVERAGE	1.5	1.3	1.4	65.7	47.2	56.4
L.S.D. AT .10	0.4	0.4	0.3	5.6	3.9	3.4
C.V. %				7.2	7.3	7.3
TRIAL AVERAGE	1.4	1.3	1.3	62.5	45.7	54.1

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

TABLE 24. Performance of Soybean Cyst Varieties evaluated near Garden City (Cass County) on the Bill Cook Farm during 1995-96 and on the Jim Kircher Farm during 1994.

Planted: 20 May 1996
 Harvested: 2, 16 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Haig Silt Loam
 Soil Test: pH=5.9, OM=3.3%, P=98, K=451

Fertilizer: N=25; P₂O₅=70; K₂O=120
 Herbicide: Pre: Prowl + Scepter
 Post: Blazer, Poast+, Agri-dex
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 7,680 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=9.0, June=3.6, July=5.7, Aug.=3.9, Sept.=6.2, TOTAL=28.4 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-06							
Saline	9-13	40.8	1.1	51.4**	38.8	48.9	45.1	46.4
Pioneer Variety 9363	9-09	35.3	1.0	48.8	--	--	--	--
Terra-TR390SCN	9-10	34.0	1.0	48.2	39.1	51.0	43.7	46.1
AVERAGE	9-11	36.7	1.0	49.5	38.9	50.0	44.2	46.1
L.S.D. AT .10 ¹	2	2.0	NS	NS	1.4	NS		
C.V.%	0.4	3.9		5.2	3.8	7.0		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-13							
Dyna-Gro 3444N	9-20	34.8	1.0	48.5**	--	--	--	--
MFA Morsoy 9345 SCN	9-21	44.0	1.8	47.0*	31.6	54.6*	39.3	44.4
Willcross 9541N	9-16	37.0	1.1	46.4*	--	--	--	--
Manokin	9-27	32.8	2.0	46.0*	30.8	56.5*	38.4	44.4
Asgrow A4138	9-15	36.5	1.2	46.0*	38.2*	--	42.1	--
MFA Morsoy 444 SCN	9-19	36.3	1.0	45.8*	35.9	--	40.8	--
Midland 8475	9-21	35.8	1.0	45.4*	34.3	56.3*	39.8	45.3
Golden Harvest H-1454	9-14	37.5	1.0	44.6*	--	--	--	--
MFA Morsoy 9245 SCN	9-13	36.5	1.0	44.5*	38.3*	54.2*	41.4	45.7
Ciba Seeds 3436	9-14	38.5	1.0	44.4*	--	--	--	--
Terra-TS4292	9-14	35.8	1.1	43.7	38.7**	52.8	41.2	45.1
Willcross AP-40	9-10	33.0	1.0	43.3	--	--	--	--
NeCo 7415N	9-14	34.5	1.0	43.1	--	--	--	--
Merschman Houston III	9-21	38.8	1.3	42.9	35.1	--	39.0	--
Midland 8487NB	9-20	36.5	1.0	41.6	35.8	--	38.7	--
NeCo 7445N	9-17	38.5	1.1	41.5	34.7	--	38.1	--
Terra-TS4792	9-20	45.0	1.1	40.4	30.5	50.1	35.5	40.3
Northrup King S46-44	9-15	38.8	1.0	39.9	35.7	53.3	37.8	43.0
Willcross 9547N-A	9-16	40.3	1.1	39.9	29.8	--	34.9	--
Willcross 9547N-B	9-20	44.8	1.4	39.6	--	--	--	--
Dekalb CX469c	9-16	41.8	1.3	38.9	35.8	53.3	37.3	42.7
Pioneer Variety 9491	9-22	25.0	1.0	38.0	36.6	55.8*	37.3	43.5
Delsoy 4710	9-20	44.5	1.9	37.4	30.5	52.7	34.0	40.2
Merschman Phoenix	9-19	30.8	1.0	37.1	--	--	--	--
Willcross 9650N	9-22	30.5	1.1	36.2	--	--	--	--
EXPERIMENTAL VARIETIES								
MFA Exp. 4426	9-17	31.0	1.0	45.6*	--	--	--	--
Midland XP401CN	9-11	31.3	1.0	45.3*	--	--	--	--
AVERAGE	9-18	36.7	1.2	42.7	34.5	52.9	38.6	43.4
L.S.D. AT .10 ¹	2	2.4	0.2	4.6	1.7	3.6		
C.V.%	0.7	5.6		9.2	5.1	6.0		

TABLE 24. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-25							
Pioneer Variety 9521	9-26	34.8	1.2	45.4**	--	--	--	--
Merschman Rushmore II	10-01	37.3	1.2	44.4*	30.5	--	37.5	--
Asgrow A5547	10-02	33.0	1.8	42.2*	33.1**	--	37.7	--
Dekalb CX510c	9-24	26.5	1.0	41.9*	--	--	--	--
Patriot 555N	9-24	30.8	1.1	39.9	--	--	--	--
MFA Morsoy 9152 SCN	10-03	30.5	1.3	39.8	32.7*	45.8	36.3	39.4
Patriot 530N	9-26	29.3	2.0	39.4	--	--	--	--
Delsoy 5500	10-04	33.0	1.4	39.2	--	--	--	--
Hutcheson####	10-07	34.5	1.9	38.5	25.9	--	32.2	--
Dyna-Gro 3502N	9-24	30.5	1.1	37.6	--	--	--	--
Terra-TS504	9-24	30.5	1.2	37.5	32.6*	--	35.1	--
Golden Harvest H-1500	9-24	28.8	1.1	36.5	--	--	--	--
Patriot 7520N	9-26	34.5	1.4	34.4	--	--	--	--
EXPERIMENTAL VARIETIES								
S93-1475	10-02	35.8	2.3	36.9	--	--	--	--
6.0 Maturity Group Check##	10-16							
AVERAGE	9-28	32.1	1.4	39.5	29.2	45.7	34.4	38.1
L.S.D. AT .10 ¹	2	2.8	0.3	3.7	1.2	4.6		
C.V. %	0.5	7.3		7.9	4.3	8.4		
TRIAL AVERAGE		35.2	1.2	42.2	33.9	51.2	38.0	42.4

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

Maturity group checks as identified on page 4.

NS Not significant.

TABLE 25. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1994-96.

Planted: 21 May 1996
 Harvested: 4, 17 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.2, OM=1.8%, P=137, K=504

Fertilizer: N=0; P₂O₅=0; K₂O=80
 Herbicide: Pre: Lasso + Canopy
 Post: Poast +, Basagran, Agri-dex
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 3,900 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=5.5, June=2.7, July=3.4, Aug.=2.9, Sept.=6.4, TOTAL=20.9 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (ln)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	9-10							
Saline	9-16	29.8	1.0	41.5**	39.2	47.0**	40.4	42.6
Terra-TR390SCN	9-15	27.8	1.0	40.9	37.8	40.6	39.3	39.8
Pioneer Variety 9363	9-15	27.3	1.0	38.5	--	--	--	--
Average	9-15	28.2	1.0	40.3	38.4	42.1	39.4	40.3
L.S.D. AT .10 ¹	1	1.7	NS	NS	NS	3.1		
C.V.%	0.2	4.4		15.5	5.5	6.3		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-15							
Merschman Houston III	9-19	31.0	1.0	47.8**	39.5	--	43.7	--
Delsoy 4710	9-20	33.5	1.1	46.3*	38.5	58.5*	42.4	47.8
Willcross AP-40	9-16	27.8	1.0	45.7*	--	--	--	--
Willcross 9547N-B	9-19	35.0	1.0	45.3*	--	--	--	--
NeCo 7415N	9-17	25.0	1.0	45.2*	--	--	--	--
MFA Morsoy 9345 SCN	9-18	33.3	1.0	45.1*	36.1	60.2*	40.6	47.1
MFA Morsoy 444 SCN	9-20	27.8	1.0	43.9*	41.6*	--	42.8	--
Terra-TS4792	9-19	35.3	1.0	43.4*	37.7	55.6	40.6	45.6
Dekalb CX469c	9-18	31.0	1.0	43.4*	38.4	53.3	40.9	45.0
Willcross 9547N-A	9-18	32.5	1.0	43.1*	39.0	--	41.1	--
Ciba Seeds 3436	9-16	29.3	1.0	43.0*	--	--	--	--
Golden Harvest H-1454	9-16	30.8	1.0	41.7	--	--	--	--
Terra-TS4292	9-17	27.5	1.0	41.5	40.9*	48.4	41.2	43.6
Willcross 9541N	9-17	20.8	1.0	41.5	--	--	--	--
Dyna-Gro 3444N	9-18	27.5	1.0	41.0	--	--	--	--
Asgrow A4138	9-17	29.3	1.0	41.0	38.7	--	39.9	--
Northrup King S46-44	9-18	31.3	1.0	40.9	40.9*	57.9	40.9	46.6
Midland 8475	9-19	27.0	1.0	40.4	40.7	59.5*	40.6	46.9
NeCo 7445N	9-18	32.8	1.0	40.3	38.3	--	39.3	--
MFA Morsoy 9245 SCN	9-17	29.0	1.0	39.9	39.6	51.3	39.8	43.6
Willcross 9650N	9-22	24.3	1.0	39.2	--	--	--	--
Midland 8487NB	9-20	28.5	1.0	38.0	41.6*	--	39.8	--
Pioneer Variety 9491	9-19	18.0	1.0	36.6	40.4	58.5*	38.5	45.2
Manokin	9-26	26.0	1.1	34.7	43.3**	62.4**	39.0	46.8
Merschman Phoenix	9-19	24.5	1.0	33.5	--	--	--	--

EXPERIMENTAL VARIETIES

Midland XP401CN	9-15	25.8	1.0	45.4*	--	--	--	--
MFA Exp. 4426	9-18	28.3	1.0	40.9	--	--	--	--
AVERAGE	9-18	28.6	1.0	41.8	39.1	55.0	40.4	45.3
L.S.D. AT .10 ¹	2	3.2	NS	5.9	2.5	4.2		
C.V.%	0.6	9.4		12.1	6.6	6.7		

TABLE 25. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	MATURITY GROUP 5							
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-24							
Patriot 7520N	9-28	31.5	1.0	43.5**	--	--	--	--
MFA Morsoy 9152 SCN	10-01	28.5	1.0	41.9	42.7*	61.2**	42.3	48.6
Delsoy 5500	10-03	31.0	1.0	41.4	--	--	--	--
Patriot 555N	9-24	28.8	1.0	41.3	--	--	--	--
Merschman Rushmore II	10-01	35.3	1.0	41.1	40.1	--	40.6	--
Pioneer Variety 9521	9-25	32.8	1.0	40.1	--	--	--	--
Asgrow A5547	10-02	31.0	1.0	39.9	44.5**	--	42.2	--
Dyna-Gro 3502N	9-25	30.0	1.0	38.7	--	--	--	--
Patriot 530N	9-28	26.5	1.0	38.4	--	--	--	--
Terra-TS504	9-24	28.5	1.0	37.7	40.1	--	38.9	--
Golden Harvest H-1500	9-24	27.3	1.0	37.1	--	--	--	--
Hutcheson####	10-04	32.5	1.0	36.2	39.1	--	37.7	--
Dekalb CX510c	9-27	24.5	1.0	36.2	--	--	--	--
EXPERIMENTAL VARIETIES								
S93-1475	10-03	33.8	1.0	36.4	--	--	--	--
6.0 Maturity Group Check##	10-12							
AVERAGE	9-28	30.1	1.0	39.3	38.9	55.1	39.1	44.4
L.S.D. AT .10 ¹	3	2.9	NS	NS	2.4	4.9		
C.V. %	1.0	8.1		12.0	6.3	7.4		
TRIAL AVERAGE		29.1	1.0	40.9	39.0	52.5	40.0	44.1

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

Maturity group checks as identified on page 4.

NS Not significant.

TABLE 26. Performance of Soybean Cyst Nematode Resistant Varieties evaluated at two Southwestern Missouri locations (Garden City and Lamar) during 1996.

Garden City
 Planted: 20 May 1996
 Harvested: 2, 16 October 1996
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

Soil Type: Haig Silt Loam
 Previous Crop: Soybean
 SCN Population at Planting: 7,680 Eggs
 Growing Season Moisture: 28.4 Inches

Lamar
 Planted: 21 May 1996
 Harvested: 4, 17 October 1996
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

Soil Type: Parsons Silt Loam
 Previous Crop: Corn
 SCN Population at Planting: 3,900 Eggs
 Growing Season Moisture: 20.9 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Garden City	Lamar	Mean
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Saline	1.1	1.0	1.0	51.4**	41.5**	46.4**
Terra-TR390SCN	1.0	1.0	1.0	48.2	40.9	44.6
Pioneer Variety 9363	1.0	1.0	1.0	48.8	38.5	43.6
AVERAGE	1.0	1.0	1.0	49.5	40.3	44.9
L.S.D. AT .10	NS	NS	NS	NS	NS	NS
C.V. %				5.2	15.5	4.7
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
MFA Morsoy 9345 SCN	1.8	1.0	1.4	47.0*	45.1*	46.0**
Merschman Houston III	1.3	1.0	1.2	42.9	47.8**	45.4*
MFA Morsoy 444 SCN	1.0	1.0	1.0	45.8*	43.9*	44.8*
Dyna-Gro 3444N	1.0	1.0	1.0	48.5**	41.0	44.8*
Willcross AP-40	1.0	1.0	1.0	43.3	45.7*	44.5*
NeCo 7415N	1.0	1.0	1.0	43.1	45.2*	44.2*
Willcross 9541N	1.1	1.0	1.0	46.4*	41.5	44.0*
Ciba Seeds 3436	1.0	1.0	1.0	44.4*	43.0*	43.7*
Asgrow A4138	1.2	1.0	1.1	46.0*	41.0	43.5
Golden Harvest H-1454	1.0	1.0	1.0	44.6*	41.7	43.2
Midland 8475	1.0	1.0	1.0	45.4*	40.4	42.9
Terra-TS4292	1.1	1.0	1.0	43.7	41.5	42.6
Willcross 9547N-B	1.4	1.0	1.2	39.6	45.3*	42.4
MFA Morsoy 9245 SCN	1.0	1.0	1.0	44.5*	39.9	42.2
Terra-TS4792	1.1	1.0	1.0	40.4	43.4*	41.9
Delsoy 4710	1.9	1.1	1.5	37.4	46.3*	41.8
Willcross 9547N-A	1.1	1.0	1.0	39.9	43.1*	41.5
Dekalb CX469c	1.3	1.0	1.2	38.9	43.4*	41.2
NeCo 7445N	1.1	1.0	1.0	41.5	40.3	40.9
Manokin	2.0	1.1	1.6	46.0*	34.7	40.4
Northrup King S46-44	1.0	1.0	1.0	39.9	40.9	40.4
Midland 8487NB	1.0	1.0	1.0	41.6	38.0	39.8
Willcross 9650N	1.1	1.0	1.0	36.2	39.2	37.7
Pioneer Variety 9491	1.0	1.0	1.0	38.0	36.6	37.3
Merschman Phoenix	1.0	1.0	1.0	37.1	33.5	35.3
EXPERIMENTAL VARIETIES						
Midland XP401CN	1.0	1.0	1.0	45.3*	45.4*	45.4*
MFA Exp. 4426	1.0	1.0	1.0	45.6*	40.9	43.2
AVERAGE	1.2	1.0	1.1	42.7	41.8	42.3
L.S.D. AT .10	0.2	0.1	0.2	4.6	5.9	4.3
C.V. %				9.2	12.1	11.2

TABLE 26. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Garden City	Lamar	Mean
MATURITY GROUP 5						
COMMERCIAL VARIETIES						
Merschman Rushmore II	1.2	1.0	1.1	44.4*	41.1	42.8**
Pioneer Variety 9521	1.2	1.0	1.1	45.4**	40.1	42.8**
Asgrow A5547	1.8	1.0	1.4	42.2*	39.9	41.0*
MFA Morsoy 9152 SCN	1.3	1.0	1.2	39.8	41.9	40.8*
Patriot 555N	1.1	1.0	1.0	39.9	41.3	40.6*
Delsoy 5500	1.4	1.0	1.2	39.2	41.4	40.3*
Dekalb CX510c	1.0	1.0	1.0	41.9*	36.2	39.0
Patriot 7520N	1.4	1.0	1.2	34.4	43.5**	39.0
Patriot 530N	2.0	1.0	1.5	39.4	38.4	38.9
Dyna-Gro 3502N	1.1	1.0	1.0	37.6	38.7	38.2
Terra-TS504	1.2	1.0	1.1	37.5	37.7	37.6
Hutcheson####	1.9	1.0	1.4	38.5	36.2	37.4
Golden Harvest H-1500	1.1	1.0	1.0	36.5	37.1	36.8
EXPERIMENTAL VARIETIES						
S93-1475	2.3	1.0	1.6	36.9	36.4	36.6
AVERAGE	1.4	1.0	1.2	39.5	39.3	39.4
L.S.D. AT .10	0.3	NS	0.2	3.7	NS	3.3
C.V.%				7.9	12.0	10.2
TRIAL AVERAGE	1.2	1.0	1.1	42.2	40.9	41.5

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

NS Not significant.

TABLE 27. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Bertrand (Mississippi County) on the Arington Farms during 1994-96.

Planted: 9 April 1996
 Harvested: 4, 31 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Clana Loamy Fine Sand
 Soil Test: pH=5.6, OM=1.3%, P=103, K=314

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Prowl + Scepter
 Post: Reflex
 Irrigation: 4.0 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 16530 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 5
 Growing Season Rainfall: May=3.9, June=4.4, July=3.0, Aug.=0.6, Sept.=7.4, TOTAL=16.8 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.

MATURITY GROUP 4

COMMERICAL VARIETIES

4.0 Maturity Group Check##	9-06							
Manokin	9-26	21.3	1.1	51.0**	40.0*	29.5*	45.5	40.2
Delsoy 4210	9-17	26.0	1.2	41.3	45.3**	31.6**	43.3	39.4
Delsoy 4710	9-22	28.0	1.2	33.4	37.1	31.0*	35.3	33.8
AgraTech FFR 474	9-19	27.7	1.3	33.1	32.9	24.7*	33.0	30.2
Terra-TS4792	9-16	27.3	1.2	32.3	33.4	24.1*	32.8	29.9
MFA Morsoy 9345 SCN	9-19	26.7	1.1	29.9	40.2*	30.9*	35.1	33.7
Willcross 9547N-B	9-13	30.3	1.2	29.3	--	--	--	--
MFA Morsoy 9245 SCN	9-09	17.3	1.2	29.0	--	--	--	--
Terra-TS4292	9-10	17.3	1.1	28.1	38.1	29.9*	33.1	32.0
Willcross 9547N-A	9-13	20.7	1.2	27.0	--	--	--	--
Willcross 9650N	9-21	19.0	1.2	24.2	--	--	--	--
Willcross 9541N	9-21	29.3	1.2	21.2	--	--	--	--
Hyperformer HY 4540	9-12	17.0	1.2	19.2	33.7	--	26.5	--
MFA Morsoy 444 SCN	9-13	18.0	1.2	14.8	34.7	--	24.8	--
Terra-TR390SCN###	9-06	17.7	1.2	13.3	35.2	19.8	24.3	22.8
Pioneer Variety 9481	9-10	19.7	1.2	8.6	20.1	--	14.4	--

EXPERIMENTAL VARIETIES

Deltapine DPX 3497	9-24	31.7	1.3	37.3	--	--	--	--
MFA Exp. 4426	9-12	15.7	1.2	23.5	--	--	--	--
AVERAGE	9-16	22.8	1.2	27.6	35.5	26.3	31.6	29.8
L.S.D. AT .10 ¹	2	5.0	0.1	5.4	6.6	9.3		
C.V.%	0.6	16.0		14.7	19.3	30.4		

MATURITY GROUP 5

COMMERICAL VARIETIES

5.0 Maturity Group Check##	9-24							
Deltapine DP 3519	10-04	24.0	1.5	50.8**	--	--	--	--
Deltapine DP 3571	10-07	35.0	1.9	50.5*	--	--	--	--
Asgrow A5843	10-08	25.5	1.5	47.5*	36.9*	35.0**	42.2	39.8
Delsoy 5500	10-08	24.0	1.5	44.6*	--	--	--	--
AgraTech FFR 514	9-27	23.8	1.5	43.6*	33.0	32.3*	38.3	36.3
Hartwig	10-08	21.0	1.5	41.5	39.6**	31.7*	40.6	37.6
AgraTech AT 555	10-08	23.3	1.5	41.1	32.1	29.3*	36.6	34.2
MFA Morsoy 9152 SCN	10-07	17.3	1.5	39.2	36.1*	28.1*	37.7	34.5
Hutcheson####	10-08	20.8	1.5	36.8	28.6	--	32.7	--
Pioneer Variety 9552	10-03	19.0	1.3	31.6	--	--	--	--

Table 27. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	Gateway 511	10-01	19.0	1.5	29.3	--	--	--
Terra-TS504	9-28	16.3	1.5	16.0	34.6	--	25.3	--
EXPERIMENTAL VARIETIES								
S93-1475	10-07	22.3	1.5	46.5*	--	--	--	--
6.0 Maturity Group Check##	10-12							
AVERAGE	10-05	22.4	1.5	39.9	32.6	27.5	36.2	33.3
L.S.D. AT .10 ¹	2	3.7	0.1	8.5	4.5	7.0		
C.V.%	0.5	13.4		17.8	14.3	22.1		
TRIAL AVERAGE		22.6	1.3	32.8	34.2	26.7	33.5	31.2

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

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

Maturity group checks as identified on page 4.

TABLE 28. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Clarkton (Dunklin County) on the Delta Research Center Rhodes Farm during 1994-96.

Planted: 15 May 1996
 Harvested: 2 October 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Bosket Fine Sandy Loam
 Soil Test: pH=5.4, OM=3.2%, P=55, K=474

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

Cyst Nematode Population at Planting: 2,320 eggs / 250cc of soil
 Cyst Nematode Race: Race = 5
 Growing Season Rainfall: May=4.2, June=2.6, July=7.9, Aug.=0.3, Sept.=5.9, TOTAL=20.9 Inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-04							
Willcross 9547N-A	9-10	33.0	1.2	37.1*	--	--	--	--
Willcross 9650N	9-16	20.7	1.0	34.8*	--	--	--	--
Hyperformer HY 4540	9-07	23.3	1.0	34.3*	33.3	--	33.8	--
Delsoy 4210	9-06	24.7	1.0	33.8*	41.3**	26.6	37.6	33.9
MFA Morsoy 9245 SCN	9-05	27.0	1.0	32.6*	--	--	--	--
MFA Morsoy 444 SCN	9-12	22.7	1.0	32.5*	37.5*	--	35.0	--
AgraTech FFR 474	9-10	31.7	1.0	32.3*	35.4	29.9	33.8	32.5
Delsoy 4710	9-11	29.0	1.0	31.5*	32.0	31.6*	31.8	31.7
Willcross 9547N-B	9-06	33.3	1.0	31.1*	--	--	--	--
Terra-TS4792	9-08	29.7	1.0	30.3*	36.4*	29.5	33.4	32.1
Willcross 9541N	9-13	25.3	1.0	29.6	--	--	--	--
Terra-TS4292	9-05	21.7	1.0	28.4	35.0	24.2	31.7	29.2
MFA Morsoy 9345 SCN	9-06	30.0	1.0	27.7	34.9	26.6	31.3	29.7
Manokin	9-16	23.7	1.0	25.8	21.1	27.6	23.5	24.8
Terra-TR390SCN###	9-05	24.0	1.0	23.7	32.8	19.1	28.3	25.2
Pioneer Variety 9481	9-10	19.7	1.0	18.6	34.3	--	26.5	--

EXPERIMENTAL VARIETIES

Deltapine DPX 3497	9-14	31.0	1.0	37.4**	--	--	--	--
MFA Exp. 4426	9-06	20.3	1.0	30.3*	--	--	--	--
AVERAGE	9-09	26.2	1.0	30.7	34.3	28.7	32.5	31.2
L.S.D. AT .10 ¹	3	6.1	0.1	7.7	4.9	8.7	5.4	
C.V.%	1.0	17.4		18.6	14.9	25.7	12.9	

MATURITY GROUP 5

COMMERCIAL VARIETIES

5.0 Maturity Group Check##	9-20							
Asgrow A5843	9-25	23.3	1.2	33.9**	30.5*	45.9*	32.2	36.8
AgraTech AT 555	9-24	25.3	1.2	32.2*	23.2	47.0*	27.7	34.1
Deltapine DP 3519	9-22	24.8	1.2	30.4*	--	--	--	--
AgraTech FFR 514	9-20	25.3	1.2	28.8*	27.2	49.6**	28.0	35.2
Deltapine DP 3571	9-25	32.0	1.3	28.8*	--	--	--	--
Delsoy 5500	9-25	21.8	1.2	26.4	--	--	--	--
MFA Morsoy 9152 SCN	9-23	17.0	1.2	25.8	31.5*	47.7*	28.7	35.0
Hartwig	9-23	18.0	1.2	25.6	25.3	47.5*	25.5	32.8
Hutcheson####	9-26	23.0	1.2	22.7	34.1**	--	28.4	--
Terra-TS504	9-20	17.3	1.2	22.3	27.8	--	25.1	--

TABLE 28. Continued.

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
	Pioneer Variety 9552	9-23	17.8	1.1	19.1	--	--	--
Gateway 511	9-21	18.0	1.2	16.3	--	--	--	--
EXPERIMENTAL VARIETIES								
S93-1475	9-23	22.5	1.3	33.0*	--	--	--	--
6.0 Maturity Group Check##	10-07							
AVERAGE	9-23	22.0	1.2	26.6	27.5	42.3	27.0	32.1
L.S.D. AT .10 ¹	1	5.0	0.1	5.5	5.5	7.6		
C.V.%	0.4	18.3		17.3	20.6	15.6		
TRIAL AVERAGE		24.4	1.1	28.9	31.2	33.6	30.0	31.2

¹ LSD for 1994 was calculated at p = 0.05.

-- Data not available.

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

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

Maturity group checks as identified on page 4.

TABLE 29. Performance of Soybean Cyst Nematode Resistant Varieties evaluated at two Southeastern Missouri locations (Bertrand and Clarkton) during 1996.

Bertrand
 Planted: 9 May 1996
 Harvested: 4, 31 October 1996
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

 Soil Type: Clana Loamy Fine Sand
 Previous Crop: Corn
 SCN Population at Planting: 16530 Eggs
 Growing Season Moisture: 16.8 Inches

Clarkton
 Planted: 15 May 1996
 Harvested: 2, 31 October 1996
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

 Soil Type: Bosket Fine Sandy Loam
 Previous Crop: Soybean
 SCN Population at Planting: 2320 Eggs
 Growing Season Moisture: 20.9 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Bertrand	Clarkton	Mean	Bertrand	Clarkton	Mean

MATURITY GROUP 4

COMMERCIAL VARIETIES

Manokin	1.1	1.0	1.0	51.0**	25.8	38.4**
Delsoy 4210	1.2	1.0	1.1	41.3	33.8*	37.6*
AgraTech FFR 474	1.3	1.0	1.2	33.1	32.3*	32.7
Delsoy 4710	1.2	1.0	1.1	33.4	31.5*	32.4
Willcross 9547N-A	1.2	1.2	1.2	27.0	37.1*	32.0
Terra-TS4792	1.2	1.0	1.1	32.3	30.3*	31.3
MFA Morsoy 9245 SCN	1.2	1.0	1.1	29.0	32.6*	30.8
Willcross 9547N-B	1.2	1.0	1.1	29.3	31.1*	30.2
Willcross 9650N	1.2	1.0	1.1	24.2	34.8*	29.5
MFA Morsoy 9345 SCN	1.1	1.0	1.0	29.9	27.7	28.8
Terra-TS4292	1.1	1.0	1.0	28.1	28.4	28.2
Hyperformer HY 4540	1.2	1.0	1.1	19.2	34.3*	26.8
Willcross 9541N	1.2	1.0	1.1	21.2	29.6	25.4
MFA Morsoy 444 SCN	1.2	1.0	1.1	14.8	32.5*	23.6
Terra-TR390SCN###	1.2	1.0	1.1	13.3	23.7	18.5
Pioneer Variety 9481	1.2	1.0	1.1	8.6	18.6	13.6

EXPERIMENTAL VARIETIES

Deltapine DPX 3497	1.3	1.0	1.2	37.3	37.4**	37.4**
MFA Exp. 4426	1.2	1.0	1.1	23.5	30.3*	26.9
AVERAGE	1.2	1.0	1.1	27.6	30.7	29.1
L.S.D. AT .10	0.1	0.1	0.1	5.4	7.7	4.6
C.V.%				14.7	18.6	16.6

MATURITY GROUP 5

COMMERCIAL VARIETIES

Asgrow A5843	1.5	1.2	1.4	47.5*	33.9**	40.7**
Deltapine DP 3519	1.5	1.2	1.4	50.8**	30.4*	40.6*
Deltapine DP 3571	1.9	1.3	1.6	50.5*	28.8*	39.6*
AgraTech AT 555	1.5	1.2	1.4	41.1	32.2*	36.6*
AgraTech FFR 514	1.5	1.2	1.4	43.6*	28.8*	36.2*
Delsoy 5500	1.5	1.2	1.4	44.6*	26.4	35.5
Hartwig	1.5	1.2	1.4	41.5	25.6	33.6
MFA Morsoy 9152 SCN	1.5	1.2	1.4	39.2	25.8	32.5
Hutcheson####	1.5	1.2	1.4	36.8	22.7	29.8
Pioneer Variety 9552	1.3	1.1	1.2	31.6	19.1	25.4
Gateway 511	1.5	1.2	1.4	29.3	16.3	22.8
Terra-TS504	1.5	1.2	1.4	16.0	22.3	19.2

Table 29. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Bertrand	Clarkton	Mean	Bertrand	Clarkton	Mean
EXPERIMENTAL VARIETIES						
S93-1475	1.5	1.3	1.4	46.5*	33.0*	39.8*
AVERAGE	1.5	1.2	1.4	39.9	26.6	33.3
L.S.D. AT .10	0.1	0.1	0.1	8.5	5.5	5.0
C.V.%				17.8	17.3	18.0
TRIAL AVERAGE	1.3	1.1	1.2	32.8	28.9	30.9

** Highest yielding variety in the maturity group.

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

Susceptible check variety.

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

NS Not significant.

PART III

SOYBEAN DOUBLE CROP TRIALS

EXPERIMENTAL PROCEDURES

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

Locations. Soybean variety double crop evaluation trials were located in the southeastern region of the state. Trial locations are shown on adjacent map. In 1996, the locations for these trials were on the Delta Research Center Lee farm near Portageville in Pemiscot County. The trials were evaluated on both silt and clay soils.



SUMMARY OF RESULTS

Soybean varieties were evaluated under double crop conditions in two Southeast Missouri studies during 1996. The clay test was replanted on July 3 and matured too late to be included in this report. The plots will be harvested at a later date and results will be reported at that time. Data and management practices for these trials are presented in Table 31.

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 are summarized below in Table 30. The ranges shown give the values for the lowest and highest yielding variety. 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 30. SOYBEAN DOUBLE CROP YIELD SUMMARY.

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Portageville Loam	20	15-34	24	31

TABLE 31. Performance of Soybean Varieties following wheat on a Southeast Missouri Loam Soil. The test was on the Delta Research Center near Portageville (Pemiscott County) during 1994-96.

Planted: 21 June 1996
 Harvested: 4 November 1996
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Tiptonville Silt Loam
 Soil Test: pH=6.0, OM=1.5%, P=226, K=604

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter
 Post: Storm
 Irrigation: 2.0 Inches
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 2480 Eggs / 250cc of Soil
 Growing Season Rainfall: June=7.5, July=5.1, Aug.=0.3, Sept.=6.2, TOTAL=19.1 inches

Brand-Variety	1996			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1996	1995	1994	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERICAL VARIETIES								
Mark Seed 9632	9-28	21.3	1.5	16.2	--	--	--	--
Mark Seed 9735	9-27	22.0	1.5	15.1	--	--	--	--
MATURITY GROUP 4								
COMMERICAL VARIETIES								
4.0 Maturity group check##	9-27							
Mycogen 470	10-03	29.3	1.5	24.7	23.7	--	24.2	--
Terra-TS474	10-05	29.3	1.5	24.0	--	--	--	--
Dixie 478	10-06	28.3	1.5	23.3	--	--	--	--
Terra-TS4292	9-28	25.3	1.5	19.8	--	--	--	--
MFA Morsoy 9348	10-01	28.7	1.5	16.9	22.7	17.6	19.8	19.1
Terra-TS4792	9-28	31.3	1.7	15.4	--	--	--	--
MFA Morsoy 9345SCN	10-01	26.3	1.5	14.9	22.5	14.8	18.7	17.4
EXPERIMENTAL VARIETIES								
Deltapine DPX 3497	10-06	31.0	1.8	23.6	--	--	--	--
MATURITY GROUP 5								
COMMERICAL VARIETIES								
5.0 Maturity group check##	10-07							
Deltapine DP 3519	10-13	28.7	1.7	34.0**	--	--	--	--
Asgrow A5547	10-14	29.0	2.0	31.9*	--	--	--	--
Pioneer Variety 9594	10-12	32.0	1.7	31.2*	--	--	--	--
Deltapine DP 415	10-12	30.7	1.8	30.9*	30.0*	21.3	30.5	27.4
Dixie 579	10-13	26.0	1.5	27.6*	--	--	--	--
Dixie 541	10-12	29.7	1.5	27.5*	--	--	--	--
Hartz Variety H5050	10-14	35.7	1.8	27.1	--	--	--	--
Pioneer Variety 9552	10-12	19.0	1.5	26.9	--	--	--	--
Deltapine DP 3571	10-12	28.0	1.5	22.7	31.4*	--	27.1	--
Hartz Variety H5545	10-14	22.3	1.5	22.4	--	--	--	--
6.0 Maturity group check##	10-21							
TRIAL AVERAGE	10-07	27.7	1.6	23.8	27.0	21.2	25.4	24.0
TRIAL L.S.D. AT .10¹	3	4.5	NS	6.6	5.9	NS		
TRIAL C.V.%	0.9	11.6		19.9	18.4	32.3		

¹ LSD for 1994 was calculated at p = 0.05.

-- 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 4.

NS Not significant.

PART IV

SOYBEAN DRILL TRIALS

EXPERIMENTAL PROCEDURES

Field Plot Design. A randomized block design with four replications was used. Performance of each entry in 10-inch rows was compared to that in 30-inch rows. Because of the potential importance of plant population, planting rates of 150,000 and 250,00 seeds per acre were tested in row spacing. Individual plots were ten feet wide and 20 feet long. The center five feet of each plot were harvested to determine yield.

Locations. Soybean variety drill evaluation trials were located in the north-central region of the state. Trial locations are shown on the adjacent map. In 1996, the locations for these trials were on (1) the Hundley-Whaley farm near Albany in Gentry County; (2) the Agronomy Research Center near Columbia in Boone County; and (3) the Bill Cook farm near Garden City in Cass County. The trials were evaluated in both ten and thirty inch rows.



Test locations

SUMMARY OF RESULTS

Soybean varieties were evaluated under drill conditions in three North, Central, and West Missouri studies during 1996. Data and management practices for these trials are presented in Tables 33 to 35.

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 32. 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 32. SOYBEAN DRILL YIELD SUMMARY.

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Albany	20	35-50	45	33
Columbia	13	32-44	38	34
Garden City	8	45-54	50	35

TABLE 33. Performance of Soybean Varieties planted in narrow rows on the Hundley-Whaley Research Farm near Albany (Harrison County) during 1996.

Planted: 14 June 1996
 Harvested: 1 November 1996
 Planted Population: 150,000=60# Seeds/A.
 250,000=100# Seeds/A.
 Row Spacing: 10 and 30 Inches
 Soil Type: Grundy Silt Loam
 Soil Test: pH=5.9, OM=3.4%, P=45, K=141

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Trellan + Sceptor + Sencor
 Post: Galaxy

Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=8.4, June=4.0, July=5.4, Aug.=6.2, Sept.=4.1, TOTAL=28.1 Inches

Brand-Variety	1996			Yield (Bu/Acre)				Average
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	Row Spacing		Population		
				10"	30"	60#	100#	
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check	9-30							
Midwest Seed Gen. G 3141	10-04	32.9	1.8	51.0	49.2	49.2	50.9	50.1**
Merschman Fillmore IV	10-05	34.4	2.0	51.2	48.9	48.3	51.8	50.0*
Willcross 92	10-07	36.6	2.7	48.7	47.6	47.4	49.0	48.2*
Willcross 9536	10-06	36.7	3.2	50.5	44.8	47.2	48.1	47.7*
Kaup Seed KS 357R	10-05	34.1	2.5	49.4	44.6	45.7	48.2	47.0*
Lewis 367	10-08	39.6	2.0	49.9	43.8	44.6	49.2	46.9*
Mark Seed 9735	10-07	32.2	2.0	48.1	45.3	45.7	47.7	46.7*
Mark Seed 9533	10-04	37.1	2.2	48.6	44.5	45.6	47.5	46.6*
Midwest Seed Gen. G 3626	10-06	32.3	2.6	46.7	46.1	44.6	48.2	46.4
Midwest Seed Gen. G 3410	10-05	33.4	2.4	47.3	44.3	43.6	47.9	45.8
Willcross 9435	10-05	32.7	1.5	45.6	42.5	42.1	45.9	44.0
Mark Seed 9632	10-05	32.6	1.9	46.8	39.6	41.6	44.8	43.2
Hubner H357N	10-07	36.9	3.5	41.8	41.1	38.9	44.0	41.5
NeCo Baby Bubba	9-29	21.4	1.2	36.2	35.6	34.4	37.4	35.9
Charleston	10-03	20.1	1.0	35.8	35.0	33.4	37.3	35.4
EXPERIMENTAL VARIETIES								
Mark Seed Exp.835	10-03	36.4	2.8	46.4	45.7	44.2	47.9	46.0
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check	10-05							
Wilson 4010	10-05	35.1	3.1	48.9	48.3	48.2	49.0	48.6
Mustang	10-15	42.1	3.3	45.3	41.2	42.1	44.4	43.2
NeCo Mama Bubba	10-07	40.9	3.8	40.6	41.1	40.6	41.1	40.8
Dekalb CX411	10-11	35.8	1.6	45.2	42.7	42.5	45.5	44.0
5.0 Maturity Group Check	10-20							
AVERAGE	10-06	34.2	2.4	46.2	43.6	43.5	46.3	44.9
L.S.D. AT .10	2	2.0	0.9	NS	NS	NS	NS	3.6
C.V. %	0.1	4.4						7.4

** Highest yielding variety in a row spacing/population.
 * Yield not significantly less than the highest yielding variety in a row spacing/population.
 NS Not significant.

TABLE 34. Performance of Soybean Varieties planted in narrow rows on the Agronomy Research Center near Columbia (Boone County) during 1996.

Planted: 15 June 1996
 Harvested: 10 October 1996
 Planted Population: 150,000=60# Seeds/A.
 200,000=80# Seeds/A.

Fertilizer: N=0; P₂O₅=60; K₂O=80
 Herbicide: Pre: Squadron
 Post: Galaxy, Poast +

Row Spacing: 30 Inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=7.0, OM=1.5%, P=78, K=202

Irrigation: 0.00 Inches
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 1,120 Eggs / 250cc of Soil
 Growing Season Rainfall: May=3.5, June=4.0, July=5.4, Aug.=1.8, Sept.=4.7, TOTAL=19.4 Inches

Brand-Variety	1996			Yield (Bu/Acre)				Average
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	Row Spacing		Population		
				10"	30"	60#	100#	
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-21							
Hubner H357N	9-28	34.1	1.0	43.4	41.2	41.5	43.0	42.3*
Willcross 92	9-28	32.9	1.0	38.9	38.2	38.2	38.9	38.5
Willcross 9435-A	9-29	30.6	1.0	39.2	36.1	36.5	38.8	37.7
Charleston	9-27	23.2	1.0	35.7	38.0	36.1	37.7	36.9
Hubner H360	9-29	34.4	1.0	37.5	32.9	34.7	35.7	35.2
Willcross 9536	9-28	29.4	1.0	33.3	30.8	32.7	31.4	32.1
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-28							
Mustang	10-04	36.3	1.0	44.6	43.8	43.7	44.7	44.2**
Willcross 9644N	10-02	41.3	1.0	44.8	42.6	44.1	43.4	43.7*
NeCo Mama Bubba	9-28	38.0	1.0	42.0	40.5	41.0	41.5	41.3
Merschman Phoenix	10-01	31.4	1.0	40.8	41.5	42.4	39.9	41.2
NeCo Big Bubba	10-04	33.1	1.0	39.4	36.9	38.5	37.8	38.2
Willcross 9447	10-03	36.3	1.0	38.9	36.7	36.9	38.6	37.8
Dekalb CX434	9-30	33.7	1.0	34.5	29.4	30.5	33.5	32.0
5.0 Maturity Group Check##	10-17							
AVERAGE	9-30	33.4	1.0	39.5	37.6	38.3	38.8	38.5
L.S.D. AT .10	1	1.0	NS	NS	NS	NS	NS	2.7
C.V.%	0.2	5.1						7.2

** Highest yielding variety.
 * Yield not significantly less than the highest yielding variety.
 ## Maturity group checks as identified on page 4.
 NS Not significant.

TABLE 35. Performance of Soybean Varieties planted in Narrow Rows on the Bill Cook farm near Garden City (Cass County) during 1996.

Planted: 24 May 1996
 Harvested: 16 October 1996
 Planted Population: 150,000=60# Seeds/A.
 250,000=100# Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Haig Silt Loam
 Soil Test: pH=6.4, OM=3.6%, P=97, K=463

Fertilizer: N=25; P₂O₅=70; K₂O=120
 Herbicide: Pre: Prowl + Scepter
 Post: Galaxy, Poast+

Irrigation: 0.00 Inches
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=9.0, June=3.6, July=5.7, Aug.=3.9, Sept.=6.2, TOTAL=28.4 Inches

Brand-Variety	1996			Yield (Bu/Acre)				Average
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	Row Spacing		Population		
				10"	30"	60#	100#	

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	9-12							
Willcross 92	9-20	29.3	1.7	49.6	49.7	49.3	50.0	49.7
Charleston	9-17	15.7	1.0	45.2	46.4	44.7	46.9	45.8

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-20							
Willcross 9447	9-25	37.0	1.4	55.6	53.3	53.0	55.9	54.5**
NeCo Big Bubba	9-25	32.5	1.0	53.4	50.7	51.5	52.6	52.1
Merschman Atlanta III	9-24	32.4	1.8	52.0	51.9	52.6	51.0	51.8
Mustang	9-27	36.0	1.2	53.4	49.3	50.3	52.4	51.4
Willcross 9644N	9-23	37.5	1.4	48.7	47.0	46.9	48.8	47.9
NeCo Mama Bubba	9-19	34.8	1.1	47.5	46.6	45.0	48.9	47.1
5.0 Maturity Group Check##	9-30							

AVERAGE	9-22	31.9	1.3	50.6	49.4	49.2	50.8	50.0
L.S.D. AT .10	1	0.7	0.4	NS	NS	NS	NS	1.9
C.V. %	0.4	4.4						7.0

** Highest yielding variety.
 * Yield not significantly less than the highest yielding variety in a row spacing/population.
 ## Maturity group checks as identified on page 4.
 NS Not significant.

TABLE 36. CHARACTERISTICS OF SOYBEAN VARIETIES AND BLENDS*.

Brand	Variety Brand Blend	Exp. Var- iety	Mat- urity Group	Color				Phyto- phthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	Screening Race3	Reaction Race4
COMMERCIAL VARIETIES OR BLENDS													
AgraTech EXP42794	V	YES	4	W	TN	G	-	T	S	-	-	-	
AgraTech FFR 474	V	NO	4	W	BR	BR	BL	T	R	MS	R	MS	
AgraTech FFR 493	V	NO	4	P	TN	G	IBL	T	S	-	-	-	
AgraTech FFR 514	V	NO	5	P	BR	BR	BL	T	R	MS	R	MR	
AgraTech AT 555	V	NO	5	W	TN	G	BF	T	R	MS	R	MR	
AgriPro AP 3601 SCN	BR	NO	3	P	TN	TW	BL	R	T	S	R	MR	
AgriPro AP 3616	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
AgriPro AP 3901 SCN	BR	NO	3	W	BR	GR	BF	S	T	S	MR	MS	
AgriPro AP 4020	BR	NO	4	P	TN	TW	BL	S	-	-	-	-	
AgriPro AP 4343	BR	NO	4	P	TN	TW	BL	R	S	-	-	-	
AgriPro AP 3868	BR	NO	3	W	TN	TW	BL	R	S	-	-	-	
AgriPro AP 4400	BR	NO	4	W	TN	TW	BL	R	S	-	-	-	
Asgrow A3244	V	NO	3	P	BR	G	IBL	R	S	-	-	-	
Asgrow A3732	V	NO	3	P	BR	TW	BL	R	S	MS	R	MR	
Asgrow A3834	V	NO	3	P	TN	TN	BL	S	S	-	-	-	
Asgrow A4138	V	NO	4	W	TN	TN	BL	S	R	S	MR	MS	
Asgrow A4341	V	NO	4	P	TN	TN	BL	R	S	-	-	-	
Asgrow A4922	V	NO	4	W	TN	TN	BL	S	R	MS	R	MR	
Asgrow A5547	V	NO	5	W	TN	G	BF	S	R	MS	R	R	
Asgrow A5843	V	NO	5	W	TN	G	BF	S	R	MS	R	MR	
Bergmann-Taylor 356CSTS	BR	NO	3	P	TN	TW	BL	T	R	S	S	S	
Bergmann-Taylor 366-ST5	BR	NO	3	W	TN	TW	BL	R	-	-	-	-	
Bergmann-Taylor 386C	BR	NO	3	P	TN	TW	BL	R	R	MS	R	MS	
Bergmann-Taylor 436C	BR	NO	4	P	BR	BR	BL	T	R	-	R	MR	
Bergmann-Taylor 445C	BR	NO	4	W	TN	TW	BL	T	R	MS	R	MR	
Bergmann-Taylor 457C	BR	NO	4	W	TN	TW	BL	T	R	MS	R	MR	
Buckshot 55	BR	NO	5	P	TN	TW	BL	S	R	MS	R	MR	
Ciba 3362	V	NO	3	P	BR	TW	BR	T	S	-	-	-	
Ciba 3474	V	NO	4	P	BR	TW	BL	T	S	-	-	-	
Ciba 3376	V	NO	3	-	-	-	-	-	R	MS	R	MR	
Ciba 3436	V	NO	4	-	-	-	-	-	R	MS	R	MR	
Dairyland DSR-325	V	NO	3	W	TN	TW	BL	-	R	MS	-	MR	
Dairyland DSR-365	V	NO	3	W	BR	TW	BL	S	R	-	-	-	
Dairyland DSR-373	V	NO	3	W	TN	TW	BL	S	R	MS	R	MR	
Dairyland DSR-420	V	NO	4	P	TN	TW	BL	S	R	MS	R	MR	
Dairyland DST 3210/STS	V	YES	3	W	TN	TW	BL	-	R	-	-	-	
Dairyland DST 3308	V	YES	3	W	TN	TW	BL	R	S	-	-	-	
Dekalb CX340c	V	NO	3	W	TN	TW	BL	S	R	MS	-	MS	
Dekalb CX377	V	NO	3	W	TN	TW	BL	R	S	-	-	-	
Dekalb CX394c	V	NO	3	P	TN	TW	BL	S	R	MS	MR	MR	
Dekalb CX399	V	NO	3	W	TN	TW	BL	R	S	-	-	-	
Dekalb CX411	V	NO	4	W	TN	TW	BL	R	S	-	-	-	
Dekalb CX434	V	NO	4	P	BR	TW	BL	R	S	-	-	-	
Dekalb CX445	V	NO	4	W	BR	TW	BL	R	S	-	-	-	
Dekalb CX450c	V	NO	4	P	-	TW	BL	T	R	S	MR	MS	
Dekalb CX469c	V	NO	4	P	BR	TW	BL	S	R	MS	R	MR	
Dekalb CX494	V	NO	4	P	-	TW	BL	S	R	-	-	-	
Dekalb CX510c	V	NO	5	W	-	TW	BL	T	R	MS	R	MS	
Delta King 4860	V	NO	4	W	BR	BR	BL	T	R	MS	R	MR	
Delta King 4875	V	NO	4	W	BR	BR	BL	T	R	MS	R	MR	
Delta King 5475	V	NO	5	W	BR	BR	BL	T	R	R	R	S	
Delta King 5850	V	NO	5	W	BR	BR	BL	T	R	S	R	MR	
Delta King LDKX-51695	V	NO	5	W	G	G	BF	T	R	MS	MR	MR	
Deltapine DP 415	V	NO	5	P	TN	G	IBL	T	R	MS	R	S	
Deltapine DP 3456	V	NO	4	W	TN	TW	BL	T	S	-	-	-	
Deltapine DP 3478	V	NO	4	P	TN	TW	BL	R	S	-	-	-	
Deltapine DPX 3480	V	YES	4	W	TN	TW	BL	T	S	-	-	-	
Deltapine DP 3497	V	YES	4	P	B	TW	BL	T	R	MS	R	R	
Deltapine DP 3519s	V	NO	5	P	TN	G	IBL	T	R	MS	MR	MR	
Deltapine DP 3571s	V	NO	5	P	TN	G	IBL	T	R	MS	MR	MS	
Desoy 3424	V	NO	3	P	BR	TW	BR	T	S	-	-	-	
Desoy 3424B	BL	NO	3	M	BR	TW	BR	T	S	-	-	-	
Desoy 3717	V	NO	3	M	BR	TN	BL	T	S	-	-	-	
Dixie 478	BR	NO	4	P	G	G	IBL	MR	S	-	-	-	
Dixie 541	BR	NO	5	-	-	-	-	-	S	-	-	-	
Dixie 579	BR	NO	5	P	BR	BR	BL	S	S	-	-	-	

TABLE 36. Continued.

Brand	Variety Brand Blend	Exp. Variety	Mat- urity Group	Color				Phyto- phthora		Cyst Nematode Reaction Company UMC Screening			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Rating	Race1	Race3	Race4
Dyna-Gro 3368	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
Dyna-Gro 3391N	BR	NO	3	W	TN	TN	BL	T	R	MS	R	MR	
Dyna-Gro 3395	BR	NO	3	W	BR	TW	BL	T	S	-	-	-	
Dyna-Gro 3431N	BR	NO	4	P	TN	TW	BL	T	R	MS	R	MS	
Dyna-Gro 3444N	BR	NO	4	W	TN	BR	BL	T	R	MS	R	MR	
Dyna-Gro 3495	V	NO	4	W	TN	G	BF	R	S	-	-	-	
Dyna-Gro 3576	V	NO	5	W	TN	G	BF	S	S	-	-	-	
Dyna-Gro 3502N	BR	NO	5	W	TN	TW	BL	T	R	MS	MR	MR	
Eagle 445	V	NO	4	P	BR	GR	IBL	T	R	-	-	-	
Fontanelle 3376	V	NO	3	W	TN	TN	BL	T	R	MS	R	MS	
Fontanelle 6100	V	NO	3	P	TN	TN	BR	T	S	-	-	-	
Fontanelle 6104	V	NO	3	P	TN	BR	BL	T	S	-	-	-	
Fontanelle EXP9474	V	YES	3	-	-	-	-	T	S	-	-	-	
Gateway 361	BR	NO	3	W	TN	TW	BL	T	R	MS	-	MS	
Gateway 390	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
Gateway 400	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Gateway 423	BR	NO	4	P	TN	TW	BL	T	R	MS	R	MR	
Gateway 470	BR	NO	4	P	BR	TW	BL	T	T	-	-	-	
Gateway 511	V	NO	5	P	TN	G	IBL	S	R	MS	R	S	
Golden Harvest H-1328	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
Golden Harvest H-1353	BR	NO	3	P	TN	TW	BR	R	R	MS	-	-	
Golden Harvest H-1358	BR	NO	3	W	TN	TW	BR	T	R	-	R	MR	
Golden Harvest H-1388	BR	NO	3	P	BR	TN	BL	R	S	-	-	-	
Golden Harvest H-1407	BR	NO	4	P	TN	TW	BR	T	R	-	-	-	
Golden Harvest H-1432	BR	NO	4	P	TN	BR	BL	R	S	S	R	MR	
Golden Harvest H-1485	BR	NO	4	P	BR	TN	BL	T	R	-	-	-	
Golden Harvest H-1454	BR	NO	4	W	BR	G	BF	R	R	MS	R	MR	
Golden Harvest H-1500	BR	NO	5	W	TN	TW	BL	T	R	MS	MR	MS	
Golden Harvest X 316	BR	NO	3	P	BR	TW	BL	T	-	-	-	-	
Golden Harvest X 365N	BR	YES	3	P	TN	TW	BL	R	R	MS	R	MR	
Hartz Variety H4994	V	NO	4	W	BR	TW	BL	T	R	MS	R	MR	
Hartz Variety H5050	V	NO	5	W	TN	TW	BL	R	R	S	-	-	
Hartz Variety H5218	V	NO	5	P	TN	TW	BL	R	R	R	R	S	
Hartz Variety H5350	V	NO	5	W	TN	TW	BL	R	R	MR	R	MR	
Hartz Variety H5545	V	NO	5	P	TN	G	IBL	R	R	MR	R	S	
Hartz Variety HX517452	V	YES	5	P	TN	TW	BL	R	R	MS	R	S	
Hornbeck HBK 49	V	NO	4	W	G	G	BF	R	S	-	-	-	
Hornbeck HBK 54	V	NO	5	W	G	G	BR	T	R	R	R	S	
Hornbeck HBK 58	V	NO	5	W	G	G	BF	T	S	-	-	-	
Hornbeck HBK 4600	V	NO	4	W	TN	TW	BL	T	R	MS	R	MR	
Hubner H357N	V	NO	3	W	TN	TN	BL	T	R	MS	-	MS	
Hubner H360	V	NO	3	W	TW	TW	BL	T	S	-	-	-	
HyPerformer HSC 501	V	NO	5	P	TN	TW	BL	R	R	MS	R	MR	
HyPerformer HY 4540	V	NO	4	W	TN	TW	BL	S	R	MS	R	MR	
HyPerformer AP 572 STS	V	NO	5	W	TN	G	BF	-	R	S	MR	MS	
HyPerformer HY 574	V	NO	5	P	TN	TW	BL	R	R	S	S	S	
ICI D371	BR	NO	3	P	BR	TW	BR	R	S	-	-	-	
ICI D454	BR	NO	4	W	BR	G	BF	R	R	MS	MR	MS	
ICI D473	BR	NO	4	P	BR	TW	BL	-	R	MS	R	MS	
ICI D478	BR	NO	4	P	TN	TW	BL	T	S	-	-	-	
ICI EX 6532	BR	YES	5	M	TN	TW	BL	T	R	MS	R	S	
Kaup KS 357R	BR	NO	3	P	BR	TW	BR	R	S	-	-	-	
Kruger K-3333+	V	NO	3	P	BR	G	BL	T	S	-	-	-	
Kruger K-3444 SCN	V	YES	3	W	BR	TW	BL	T	R	MS	R	MR	
Kruger K-3505	V	NO	3	-	BR	TW	BR	T	S	-	-	-	
Kruger K-3525	V	NO	3	W	TN	G	BF	T	S	-	-	-	
Kruger K-3525E	V	NO	3	W	TN	G	BF	T	S	-	-	-	
Kruger K-3555 SCN	V	YES	3	P	BR	TW	BL	R	R	S	R	MS	
Kruger K-3606	V	NO	3	W	BR	TW	BR	T	S	-	-	-	
Kruger K-3701	V	NO	3	-	-	-	-	-	-	-	-	-	
Kruger K-3727	V	NO	3	W	BR	TW	BL	R	S	-	-	-	
Kruger K-3737	V	NO	3	P	BR	TW	BL	R	R	S	-	-	
Kruger K-3769+	V	NO	3	P	BR	TW	BR	T	S	-	-	-	
Kruger K-3808	V	NO	3	P	BR	TW	BL	S	S	-	-	-	
Kruger K-3828	V	NO	3	P	BR	TW	BR	T	S	-	-	-	
Kruger K-3848	V	NO	3	W	BR	G	BF	R	S	-	-	-	
Kruger K-3888	V	NO	3	-	-	-	-	-	-	-	-	-	
Kruger K-3939	V	NO	3	P	BR	TW	BL	T	S	-	-	-	

TABLE 36. Continued.

Brand	Variety Brand Blend	Exp. Variety	Mat- urity Group	Color				Phyto- phthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	Screening Race3	Race4
Kruger K-3939+	V	NO	3	P	BR	TW	BR	T	S	-	-	-	
Kruger K-3949	V	NO	3	M	BR	TW	BR	T	S	-	-	-	
Kruger K-4040+	V	NO	4	-	-	TW	-	-	-	-	-	-	
Kruger K-4101+	V	NO	4	P	BR	TW	BL	T	S	-	-	-	
Kruger K-4242	V	NO	4	W	BR	TW	BR	T	S	-	-	-	
Kruger K-4343	V	NO	4	W	BR	TW	BR	T	S	-	-	-	
Kruger K-4440	V	NO	4	P	BR	TW	BL	T	S	-	-	-	
Kruger K-4545	V	NO	4	P	BR	TW	BL	T	S	-	-	-	
Lewis 322	V	NO	3	M	BR	TW	BR	S	S	-	-	-	
Lewis 334	V	NO	3	-	-	-	-	-	R	MS	R	MR	
Lewis 349	V	NO	3	P	BR	TW	BR	S	S	-	-	-	
Lewis 360	V	NO	3	-	-	-	-	-	-	-	-	-	
Lewis 362	V	NO	3	W	TN	TW	BL	S	R	MR	R	MS	
Lewis 367	V	NO	3	-	TN	TW	BL	S	S	-	-	-	
Lewis 390	V	NO	3	M	BR	TW	M	R	R	-	-	-	
Lewis 391	V	NO	3	W	TN	TW	BL	R	R	MS	MR	MR	
Lewis 405	V	NO	4	P	TN	TW	BL	R	R	MS	R	MR	
Lewis 431	V	NO	4	W	TN	TW	BL	S	R	MS	R	MR	
LG Seeds LG 6395	V	NO	3	W	BR	TW	BL	T	S	-	-	-	
LG Seeds LG 6343c	V	NO	3	W	TN	TW	BL	T	R	MS	R	MS	
LG Seeds LG 6369	V	NO	3	P	BR	TW	BL	R	R	-	-	-	
LG Seeds LG 6437c	V	NO	4	W	BR	G	BF	R	R	MS	R	MS	
LG Seeds LG 6462c	V	NO	4	W	TN	TW	BL	T	R	MS	R	MR	
LG Seeds JMS 4240	V	NO	4	W	BR	TW	BL	T	S	-	-	-	
Mark Seed 9533	BR	NO	3	P	BR	G	BF	T	-	-	-	-	
Mark Seed 9632	BR	NO	3	M	-	TW	BR	T	-	-	-	-	
Mark Seed 9735	BR	NO	3	W	BR	G	BF	T	-	-	-	-	
Mark Seed EXP 835	BR	YES	3	-	-	-	-	-	R	S	S	S	
Mark Seed 95CN27	BR	NO	3	P	TN	TW	BL	T	R	MS	R	MR	
Mark Seed EXP CN33	BR	YES	3	-	-	-	-	-	R	S	S	S	
Medallion M3205	BR	NO	3	P	BR	G	BF	T	-	-	-	-	
Medallion M4007	BR	NO	4	P	TN	TW	BL	T	-	-	-	-	
Medallion M4301CN	BR	NO	4	P	TN	TW	BL	T	R	MS	R	MR	
Merschman Atlanta III	BR	NO	4	W	BR	TW	BL	T	S	-	-	-	
Merschman Cleveland III	BR	NO	4	W	TN	TW	BL	T	S	-	-	-	
Merschman Eisenhower III	BR	NO	3	P	TN	TW	BR	T	S	-	-	-	
Merschman Fillmore IV	BR	NO	3	W	BR	TW	BR	T	S	-	-	-	
Merschman Houston III	BR	NO	4	W	TN	TW	BL	T	R	MS	MR	MS	
Merschman Kennedy IV	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
Merschman Madison IV	BR	NO	3	W	TN	TW	BR	T	S	-	-	-	
Merschman McKinley III	BR	NO	3	P	TN	TW	BL	R	R	MS	R	MS	
Merschman Nashville	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Merschman Phoenix	BR	NO	4	P	TN	TW	GR	T	R	S	S	S	
Merschman Richmond III	BR	NO	4	P	BR	G	IBL	T	R	MS	MR	MR	
Merschman Rushmore II	BR	NO	5	P	TN	G	IBL	T	R	MS	MR	MS	
Merschman Truman IV	BR	NO	3	M	BR	TW	BR	T	S	-	-	-	
MFA Morsoy 441 SCN	BR	NO	4	W	BR	G	BF	S	R	MS	R	MS	
MFA Morsoy 443 SCN	BR	NO	4	P	TN	TW	BL	T	R	MS	R	MR	
MFA Morsoy 444 SCN	BR	NO	4	W	TN	TW	BL	T	R	MS	R	MR	
MFA Morsoy 438	BR	NO	3	P	BR	TW	BL	S	S	-	-	-	
MFA Morsoy 2913	BR	NO	2	P	BR	G	IBL	R	R	-	-	-	
MFA Morsoy 8838	BR	NO	3	W	TN	TW	BL	R	S	-	-	-	
MFA Morsoy 8842	BR	NO	4	W	TN	TW	BL	R	S	-	-	-	
MFA Morsoy 9137	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
MFA Morsoy 9152 SCN	BR	NO	5	P	BR	G	BF	S	R	MS	R	MR	
MFA Morsoy 9233	BR	NO	3	P	TN	BR	BL	R	R	-	-	-	
MFA Morsoy 9245 SCN	BR	NO	4	W	BR	G	BF	T	R	MS	R	MS	
MFA Morsoy 9335 SCN	BR	NO	3	W	TN	TW	BL	T	R	MS	R	MS	
MFA Morsoy 9338 SCN	BR	NO	3	W	TN	TW	BL	T	R	MS	R	MR	
MFA Morsoy 9345 SCN	V	NO	4	P	TN	TW	BL	T	R	MS	R	R	
MFA Morsoy 9348	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
MFA EXP 3758	BR	YES	3	W	BR	TW	BR	T	S	-	-	-	
MFA EXP 4426	BR	YES	4	W	TN	BR	BL	T	R	MS	R	MR	
MFA Morsoy 538 SCN	BR	NO	3	W	BR	G	BF	R	R	S	MR	MS	
Midland 8393	BR	NO	3	W	BR	BR	BL	T	S	-	-	-	
Midland 8413	BR	NO	4	P	BR	BR	BL	R	S	-	-	-	
Midland 8410	BR	NO	4	P	BR	BR	BR	R	S	-	-	-	
Midland 8475	BR	NO	4	W	BR	BR	BL	R	S	MS	MR	MR	
Midland 8356	BR	NO	3	P	BR	BR	BL	R	S	-	-	-	
Midland 8486	BR	NO	4	W	BR	BR	BL	T	S	-	-	-	
Midland 8487NB	BL	NO	4	M	M	M	M	T	T	S	-	MS	
Midland XP372CN	BR	YES	3	W	BR	BR	BL	T	R	S	R	MR	

TABLE 36. Continued.

Brand	Variety Brand Blend	Exp. Variety	Mat- urity Group	Color				Phyto- phthora Root	Cyst Company Rating	Nematode Reaction UMC Screening			
				Flower	Pod	Pubes.	Hilum			Rac1	Rac3	Rac4	
Midland XP401CN	BR	YES	4	W	BR	BR	BL	T	R	MS	R	MS	
Midwest Sd. Gen.G 3141	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
Midwest Sd. Gen.G 3410	BR	NO	3	M	BR	TW	BR	T	S	-	-	-	
Midwest Sd. Gen.G 3555	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
Midwest Sd. Gen.G 3626	BR	NO	3	W	BR	G	BF	T	S	-	-	-	
Midwest Sd. Gen.G 3660N	BR	NO	3	W	TN	TW	BL	T	R	MS	R	MS	
Midwest Sd. Gen.G 3996	BR	NO	3	M	BR	TW	M	T	S	-	-	-	
Midwest Sd. Gen.G 4320N	BR	NO	4	P	TN	TW	BF	T	R	MS	R	MR	
Mycogen 395	V	NO	3	P	TN	TW	BL	S	S	-	-	-	
Mycogen 429	V	NO	4	W	BR	G	BF	R	R	S	R	MR	
Mycogen 470	V	NO	4	P	BR	TN	BL	S	S	-	-	-	
Mycogen 5373	BR	NO	3	P	BR	TW	BR	R	S	-	-	-	
Mycogen 5430	BR	NO	4	P	TN	TW	BL	R	S	-	-	-	
NC+ 3A67	V	NO	3	W	BR	G	BF	R	S	-	-	-	
NC+ 3A96	V	NO	3	W	BR	BR	BF	R	R	MS	R	MS	
NC+ 4A10	V	NO	4	P	TN	TW	BR	T	S	-	-	-	
NC+ 4A27	V	NO	4	P	BR	BR	BF	T	R	MS	R	MR	
NC+ 4A47	V	NO	4	P	BR	TW	BL	T	S	-	-	-	
NeCo 7354	BR	NO	3	W	TN	TW	BL	T	S	-	-	-	
NeCo 7384	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
NeCo 7392	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
NeCo 7415N	BR	NO	4	W	BR	G	BF	T	R	MS	R	MS	
NeCo 7416	BR	NO	4	M	BR	TW	M	T	S	-	-	-	
NeCo 7445N	BR	NO	4	W	TN	TW	BL	T	R	S	R	MR	
NeCo 7446	BR	NO	4	W	BR	G	Y	T	S	-	-	-	
NeCo 7465	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
NeCo 7484	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
NeCo Baby Bubba	BR	NO	3	P	TN	G	BF	S	S	-	-	-	
NeCo Big Bubba	BR	NO	4	W	BR	G	Y	S	S	-	-	-	
NeCo Mama Bubba	BR	NO	4	W	TN	G	BF	T	R	MS	R	MS	
Northrup King S30-06	V	NO	3	P	BR	G	G	S	S	-	-	-	
Northrup King S35-35	V	NO	3	P	TN	TW	BL	R	R	S	-	-	
Northrup King S39-11	V	NO	3	P	TN	TW	BL	R	R	MS	R	MR	
Northrup King S42-60	V	NO	4	P	TN	TW	BR	T	S	-	-	-	
Northrup King S46-44	V	NO	4	P	BR	TW	BL	R	R	MR	R	MR	
Northrup King S51-00	V	NO	5	P	TN	TW	BL	T	S	-	-	-	
Northrup King S57-11	V	NO	5	P	BR	TW	BL	R	R	MS	R	MR	
Northrup King S59-95	V	NO	5	P	TN	TW	BL	T	R	S	R	MR	
Patriot 337	BR	NO	3	-	-	-	-	-	-	-	-	-	
Patriot 371	BR	NO	3	-	-	-	-	-	-	-	-	-	
Patriot 390	BR	NO	3	-	-	-	-	-	-	-	-	-	
Patriot 391	BR	NO	3	-	-	-	-	-	-	-	-	-	
Patriot 420N	BR	NO	4	-	-	-	-	-	R	MS	R	MR	
Patriot 451	BR	NO	4	-	-	-	-	-	-	-	-	-	
Patriot 452N	BR	NO	4	-	-	-	-	-	R	S	MR	MS	
Patriot 457N	BR	NO	4	-	-	-	-	-	R	MS	R	MR	
Patriot 530N	BR	NO	5	-	-	-	-	-	R	R	R	S	
Patriot 555N	BR	NO	5	-	-	-	-	-	R	S	MR	MR	
Patriot 7311N	BR	NO	3	-	-	-	-	-	R	S	S	MR	
Patriot 7332N	BR	NO	3	-	-	-	-	-	R	MS	MR	MR	
Patriot 7356N	BR	NO	3	-	-	-	-	-	R	MS	R	MR	
Patriot 7372N	BR	NO	3	-	-	-	-	-	R	MS	MR	MR	
Patriot 7415	BR	NO	4	-	-	-	-	-	-	-	-	-	
Patriot 7430N	BR	NO	4	-	-	-	-	-	R	S	MR	MS	
Patriot 7459N	BR	NO	4	-	-	-	-	-	R	MS	R	MR	
Patriot 7520N	BR	NO	5	-	-	-	-	-	R	MS	R	MR	
Pioneer Variety 9306	V	NO	3	-	-	-	-	-	-	-	-	-	
Pioneer Variety 9352	V	NO	3	-	-	-	-	-	-	-	-	-	
Pioneer Variety 9362	V	NO	3	W	BR	G	BF	R	R	MS	R	MR	
Pioneer Variety 9363	V	NO	3	-	-	-	-	-	R	MS	R	MS	
Pioneer Variety 9381	V	NO	3	W	TN	TW	BL	S	S	-	-	-	
Pioneer Variety 9395	V	NO	3	-	-	-	-	-	-	-	-	-	
Pioneer Variety 9421	V	NO	4	-	-	-	-	-	-	-	-	-	
Pioneer Variety 9491	V	NO	4	W	BR	TW	BR	S	R	S	MR	MR	
Pioneer Variety 9481	V	NO	4	W	TN	TW	BL	S	R	MS	R	MR	
Pioneer Variety 9482	V	NO	4	W	TN	TW	BL	S	S	-	-	-	
Pioneer Variety 9511	V	NO	4	P	TN	G	IBL	S	S	-	-	-	
Pioneer Variety 9521	V	NO	5	P	TN	TW	BL	R	R	R	R	S	
Pioneer Variety 9552	V	NO	5	P	TN	G	BF	R	R	MS	R	MS	
Pioneer Variety 9594	V	NO	5	W	TN	G	BF	S	S	-	-	-	
Prize Exp. 2-15	V	YES	3	-	-	-	-	-	-	-	-	-	

TABLE 36. Continued.

Brand	Variety Brand Blend	Exp. Var- iety	Mat- urity Group	Color				Phyto- phthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	Screening Race3	Reaction Race4
Prize Exp. 5-4	V	YES	3	-	-	-	-	-	-	-	-	-	-
Prize Exp. 9-3	V	YES	3	-	-	-	-	-	-	-	-	-	-
Reeds Brand 222	BR	NO	2	W	BR	TW	BR	T	S	-	-	-	-
Reeds Brand 330 STS	BR	NO	3	P	BR	BR	BL	T	S	-	-	-	-
Reeds Brand 350 SCN	BR	NO	3	P	BR	G	IBL	R	R	MS	MR	MR	MR
Reeds Brand 355 SCN	BR	NO	3	W	BR	G	BR	R	R	MS	R	MR	MR
Reeds Brand 360 SCN	BR	NO	3	W	TN	BR	BR	R	R	MS	R	MR	MR
Reeds Brand 390	BR	NO	3	P	TN	TW	BR	T	S	-	-	-	-
Reeds Brand 445	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	-
Riverside 77	V	NO	5	W	TN	TW	BL	-	S	-	-	-	-
Riverside 499	V	NO	5	P	TN	G	IBL	R	S	-	-	-	-
Riverside 529 I	V	NO	5	W	TN	G	BF	S	S	-	-	-	-
Riverside 549	V	NO	5	P	TN	TW	BR	R	S	-	-	-	-
Riverside Robin 5	V	NO	5	W	TN	G	IBL	S	-	-	-	-	-
Stine 3380	BR	NO	3	P	BR	TW	BR	S	T	S	-	-	-
Stine 3480	BR	NO	3	W	BR	TW	BR	T	T	S	-	-	-
Stine 3470	BR	NO	3	P	BR	TW	BR	T	T	S	-	-	-
Stine 3660	BR	NO	3	W	BR	TW	BR	T	T	S	-	-	-
Stine 3780	BR	NO	3	P	BR	M	M	S	T	S	-	-	-
Stine 3870	BR	NO	3	P	BR	TW	BL	T	R	S	-	-	-
Stine 3973	BR	NO	4	W	TN	TW	BR	R	S	-	-	-	-
Stine 4562	BR	NO	4	P	TN	TW	Y	S	T	S	S	S	S
Stine 4650	BR	NO	4	P	BR	TW	BL	T	T	S	-	-	-
Stine 4680	BR	NO	4	P	BR	TW	BR	T	T	S	-	-	-
Stine 3582	BR	NO	3	W	M	G	M	T	R	MS	MR	MR	MR
Terra TS285	BR	NO	2	P	BR	G	BF	T	S	-	-	-	-
Terra TS315	BR	NO	3	P	BR	G	BR	R	S	-	-	-	-
Terra TS345	BR	NO	3	P	BR	TN	G	S	S	-	-	-	-
Terra TS364	BR	NO	3	W	BR	G	BF	R	R	-	-	-	-
Terra TS390SCN	BR	NO	3	W	TN	TW	BL	T	R	MS	R	MS	MS
Terra TS393	BR	NO	3	P	TN	TW	BR	T	T	S	-	-	-
Terra TS402	BR	NO	4	P	TW	TW	BR	T	T	S	-	-	-
Terra TS415	BR	NO	4	M	BR	TW	BL	R	T	S	-	-	-
Terra TS474	BR	NO	4	P	BR	TW	BL	T	T	S	-	-	-
Terra TS4292	BR	NO	4	P	TN	BR	BL	T	T	MS	R	MR	MR
Terra TS4792	BR	NO	4	P	TW	BR	BL	T	T	MS	R	MR	MR
Terra TS504	BR	NO	5	W	TN	TN	BL	T	R	S	R	MR	MS
Terral TVX 4596	V	YES	4	P	TN	BR	BL	T	R	MS	R	MR	MR
Terral TV 5797	V	NO	5	W	TN	G	BF	-	R	R	R	R	S
Willcross 92-A	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	-
Willcross 92-B	BR	NO	3	P	TN	TW	BL	R	R	S	-	-	-
Willcross 94	BR	NO	3	W	BR	TN	BL	T	S	MS	R	S	S
Willcross 9345	BR	NO	4	W	TN	BR	BL	-	S	-	-	-	-
Willcross 9435-A	BR	NO	3	W	TN	TW	BL	T	T	S	-	-	-
Willcross 9435-B	BR	NO	3	W	TN	TW	BL	T	T	S	-	-	-
Willcross 9447-A	BR	NO	4	P	BR	TW	BL	T	T	S	-	-	-
Willcross 9447-B	BR	NO	4	P	BR	TW	BL	T	T	S	-	-	-
Willcross 9531	BR	NO	3	P	BR	TW	BL	-	-	S	-	-	-
Willcross 9536	BR	NO	3	P	BR	TW	BR	-	-	S	-	-	-
Willcross 9539N	BR	NO	3	P	TN	TW	BL	S	S	S	R	S	S
Willcross 9540-A	BR	NO	4	P	TN	TW	BL	-	S	-	-	-	-
Willcross 9540-B	BR	NO	3	P	TN	TW	BL	S	S	-	-	-	-
Willcross 9541N	BR	NO	4	W	BR	G	BF	-	-	S	-	-	MR
Willcross 9546	BR	NO	4	P	BR	TW	BL	-	R	S	-	-	-
Willcross 9547N-A	BR	NO	4	P	TW	BR	BL	T	R	MS	R	MR	MR
Willcross 9547N-B	BR	NO	4	P	TW	BR	BL	T	R	MS	R	MR	MR
Willcross 9640	BR	NO	4	M	BR	TW	M	-	-	-	-	-	-
Willcross 9644N	BR	NO	4	W	TN	TW	BL	-	R	MS	R	MR	MR
Willcross 9650N	BR	NO	4	W	TN	TW	BL	-	R	S	R	MR	MR
Willcross AP-40	BR	NO	4	W	BR	G	BF	R	R	S	R	MR	MS
Willcross RR2347	BR	NO	3	P	BR	TW	BL	R	S	-	-	-	-
Willcross RR2357	BR	NO	3	P	BR	TW	BR	-	-	-	-	-	-
Willcross RR2397	BR	NO	3	P	TN	TW	BL	-	S	-	-	-	-
Willcross RR2407	BR	NO	4	M	BR	TN	BL	-	R	MS	R	MR	MR
Willcross RR2467	BR	NO	4	W	TN	TW	BL	-	R	MS	R	MR	MR
Wilson 3670	BR	NO	3	P	BR	TW	BR	R	S	-	-	-	-
Wilson 4010	BR	NO	4	P	TN	TW	BR	S	S	-	-	-	-

TABLE 36. Continued.

Brand	Variety Brand Blend	Exp. Variety	Maturity Group	Color				Phytophthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	Screening Race3	Reaction Race4
PUBLIC VARIETIES													
Hamilton	V	NO	3	W	BR	G	BF	R	S	-	-	-	-
Iroquois	V	NO	3	P	BR	G	IBL	R	R	S	-	-	-
Linford	V	NO	3	W	TN	TW	BL	R	R	S	MS	MR	MR
Macon	V	NO	3	W	BR	TW	BL	S	S	S	-	-	-
Maverick	V	NO	3	-	G	G	-	R	R	R	MS	R	MR
NMSB 5779	V	YES	3	W	TW	TW	BL	R	R	R	S	S	S
Saline	V	NO	3	W	T	G	BF	S	R	R	-	-	MR
Williams 82	V	NO	3	W	TN	TW	BL	R	S	S	S	S	S
Charleston	V	NO	4	P	TN	TW	BL	T	S	-	-	-	-
Cisne	V	NO	4	P	TN	TW	BL	R	S	S	-	-	-
Delsoy 4210	V	NO	4	W	TN	TW	G	S	R	R	MS	MR	MS
Delsoy 4710	V	NO	4	P	TN	TW	BL	S	R	R	MS	R	MR
KS4694	V	NO	4	W	BR	G	BF	S	S	S	-	-	-
Manokin	V	NO	4	W	TN	TW	BL	S	R	R	-	-	S
Magellan	V	NO	4	P	TN	G	BL	S	S	S	-	-	-
Mustang	V	NO	4	W	-	G	BF	S	R	R	MS	R	MR
NMSB 129	V	YES	4	W	G	G	BF	R	R	R	MR	R	S
Stressland	V	NO	4	P	TN	TW	BL	T	S	S	-	-	-
S92-2712	V	YES	4	W	-	TW	BL	-	R	R	R	R	MS
S92-2716	V	YES	4	W	-	TN	BL	-	R	R	R	R	MS
S93-1475	V	YES	5	W	-	TW	BL	-	R	R	-	R	-
S92-1589	V	YES	4	W	-	G	BR	-	R	R	R	R	R
S93-1679	V	YES	4	W	-	TW	BR	-	R	R	MS	R	MR
Clifford	V	NO	5	P	TN	TW	BR	S	S	-	-	-	-
Delsoy 5500	V	NO	5	W	TN	TW	BR	S	R	R	MS	R	MR
Hartwig	V	NO	5	W	TN	TW	BL	T	R	R	R	R	MR
Holladay	V	NO	5	P	TN	G	IBL	S	S	-	-	-	-
Hutcheson	V	NO	5	W	TN	G	BF	T	S	S	-	-	-
D91-9391	V	YES	5	-	-	-	-	-	R	R	MS	R	MR

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

VARIETY CODES

V - Variety
 BR - Brand
 BL - Blend

COLOR CODES

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

DISEASE CODES

R - Resistant
 T - Tolerant
 S - Susceptible

CYST NEMATODE RESISTANCE CODES

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

TABLE 37. NAMES OF SOYBEAN ENTRIES EVALUATED IN 1996 AND THEIR SEED SOURCES.

BRAND	VARIETY/BLEND	SEED SOURCE
AgraTech	FFR 474, FFR 493, FFR 514, AT 555, EXP 42794	AgraTech Seeds, Inc., 5559 N. 500 W., McCordsville, IN 46055 (800-382-7333)
AgriPro	AP 3601 SCN, AP 3616, AP 4020, AP 3901 SCN, AP 3868, AP 4343, AP 4400	AgriPro Seeds, Inc., Rt. 2, Hwy. 30 E., Ames, IA 50010 (515-232-0707)
Asgrow	A3244, A3732, A3834, A4138, A4341, A4922, A5547, A5843	Asgrow Seed Co., 2605 E. Kilgore Rd., Kalamazoo, MI 49002 (616-384-5548)
Bergmann-Taylor	356C-ST5, 366-ST5, 386C, 436C, 445C, 457C	Bergmann-Taylor, Inc., Box 317, St. Jacob, IL 62281 (618-644-5522)
Buckshot	55	Delhi Seed Co., Inc., Box 176, Hwy 17N., Delhi, LA 71232 (318-878-9031)
Ciba	3362, 3376, 3436, 3474	Ciba Seeds, 3615 S. Hilton LN., Peoria, IL 61607 (309-697-2414)
Dairyland	DSR-325, DSR-365, DSR-373, DSR-420, DST 3210/ST5, DST 3308	Dairyland Seed Co., Inc., Box 958, 3570 Hwy. H, West Bend, WI 53095 (800-236-0163)
Dekalb	CX340c, CX377, CX394c, CX399, CX411, CX434, CX445, CX450c, CX469c, CX494, CX510c	Dekalb Genetics Corp., 3100 Sycamore Road, DeKalb, IL 60115 (815-758-9323)
Delta King	4860, 4875, 5475, 5850, LDKX-51695	Delta King Seed Co., Box 970, McCrory, AR 72101 (501-731-5484)
Deltapine	DP 415, DP 3456, DP 3478, DPX 3480, DPX 3497, DP 3519s, DP 3571s	Delta and Pine Land Co., Box 157, Scott, MS 38772 (601-742-4132)
Desoy	3424, 3424B, 3717	Dennis Ewing Farm Seed, 6131 North Fork Rd., Ames, IA 50010 (515-232-8236)
Dixie	478, 541, 579	Cache River Valley Development Corp. Box 10, Cash, AR 72421 (501-477-5427)
Dyna-Gro	3368, 3395, 3431N, 3444N, 3502N	Pueblo Chem. & Supply Co., 632 Deer Rd., Clifton, KS 66937 (913-455-3369)
Dyna-Gro	3495, 3576	Tri-State Delta Chem. Inc., 6800 Poplar Ave., Suite 100, Memphis, TN 38183 (901-755-7566)
Dyna-Gro	3391N	UAP/Richter, Box 230, Pittsfield, IL 62363 (800-373-5305)
Eagle	445	Sikeston Seed Co., Inc., Box 24, Sikeston, MO 63801 (573-471-2518)
Fontanelle	3376, 6100, 6104, EXP9474	Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044 (402-721-1410)
Gateway	361, 390, 400, 423, 470, 511	Gateway Seed Co., Box 337, Ridgway, IL 62979 (618-272-4861)
Golden Harvest	H-1328, H-1353, H-1358, H-1388, H-1407, H-1432, H-1454, H-1485, H-1500, X 316, X 365N	The J.C. Robinson Seed Co., 100 J.C. Robinson Blvd., Box A, Waterloo, NE 68069 (800-228-9906)
Hartz	H4994, H5050, H5218, H5350, H5545, HX517452	Jacob Hartz Seed Co., Inc., 901 N. Park Ave, Stuttgart, AR 72160 (501-673-8565)
Hornbeck	HBK 49, HBK 54, HBK 58, HBK 4600	Hornbeck Seed Co. Inc., Box 347, DeWitt, AR 72042 (501-946-2087)
Hubner	H357N, H360	Hubner Seed Co., Inc., 10280 W. St. Rd. 28, West Lebanon, IN 47991 (317-893-4428)
HyPerformer	HSC 501, HY 574, HY 4540, AP 572 ST5	HyPerformer Seed Co., One Hy Crop Row, Memphis, TN 38120 (901-756-1771)
ICI	D371, D454, D473, D478, EX 6532	ICI Seeds, 2369 330th St., Box 500, Slater, IA 50244 (515-685-3574)

TABLE 37. Continued.

BRAND	VARIETY/BLEND	FIRM AND ADDRESS
Kaup	KS 357R	Kaup Seed Co., 133 W. Park St., West Point, NE 68788 (402-372-5580)
Kruger	K-3333+, K-3444 SCN, K-3505, K-3525, K-3525E, K-3555 SCN, K-3606, K-3701, K-3727, K-3737, K-3769+, K-3808, K-3828, K-3848, K-3888, K-3939, K-3939+, K-3949, K-4040+, K-4101+, K-4242, K-4343, K-4440, K-4545	Kruger Seed Co., Hwy 20 E, Box A, Dike, IA 50624 (319-989-2414)
Lewis	322, 334, 349, 360, 362, 367, 390, 391, 405, 431	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376 (217-964-2131)
LG Seeds	LG 6437c, LG 6343c, LG 6369, LG 6395, LG 6462c, JMS 4240	LG Seed Co., Mt Pleasant Service Center, Box 28, Mt. Pleasant, IA 52641 (319-385-2259)
Mark	9533, 9632, 9735, EXP 835, 95CN27, EXP CN33	Mark Seed Co., Box 67, Perry, IA 50220 (800-383-6275)
Medallion	M3205, M4007, M4301CN	Rosen's Inc., 806 Nykiel Ct., Manchester, MO 63011 (314-391-4136)
Merschman	Atlanta III, Cleveland III, Fillmore IV, Eisenhower III, Houston III, Kennedy IV, Madison IV, McKinley III, Nashville, Phoenix, Richmond III, Rushmore II, Truman IV	Merschman Seed Co., 103 Ave. D., West Point, IA 52656 (319-837-6111)
MFA Morsoy	438, 2913, 8838, 8842, 9137, 9233, 9348, EXP 3758, 441 SCN, 443 SCN, 444 SCN, 538 SCN, 9152 SCN, 9245 SCN, 9335 SCN, 9338 SCN, 9345 SCN, EXP 4426	MFA Inc., 201 Ray Young Dr., Columbia, MO 65201 (573-876-5285)
Midland	8393, 8356, 8410, 8413, 8475, 8486, 8487NB, XP372CN, XP401CN	Midland Seeds Inc., 1906 Kingman Rd., Ottawa, KS 66067 (913-242-3598)
Midwest Seed Gen.	G 3141, G 3410, G 3555, G 3626, G 3660N, G 3996, G 4320N	Midwest Seed Genetics, Inc., Box 518, 213 E. 6th, Carroll, IA 51401 (800-369-8218)
Mycogen	395, 429, 470	Mycogen Seeds, 720 St. Croix St., Prescott, WI 54021 (800-321-2867)
Mycogen	470, 5373, 5430	Mycogen Seeds, Box 637, Marshalltown, IA 50158 (800-798-2676)
NC+	3A67, 3A96, 4A10, 4A27, 4A47	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504 (402-467-2517)
NeCo	7354, 7384, 7392, 7415N, 7416, 7445N, 7446, 7465, 7484, Baby Bubba, Big Bubba, Mama Bubba	NeCo Seed Farms, Inc., Box 379, Garden City, MO 64747 (816-862-8203)
Northrup King	S30-06, S35-35, S39-11, S42-60, S46-44, S51-00, S57-11, S59-95	Northrup King Co., 5535 Hwy 22 SE., Lone Tree, IA 52755 (319-629-5656)
Patriot	337, 371, 390, 391, 420N, 451, 452N, 457N, 530N, 555N, 7311N, 7332N, 7356N, 7372N, 7415, 7430N, 7459N, 7520N	Patriot Seed, Inc., Box 97, Bowen, IL 62316 (217-842-5612)
Pioneer Variety	9481, 9482, 9511, 9552, 9594	Pioneer Hi-Bred Intl., Inc., 6767 Old Madison Pike #110 Huntsville, AL 35806 (205-971-0760)
Pioneer Variety	9306, 9352, 9362, 9363, 9381, 9395, 9421, 9491, 9521	Pioneer Hi-Bred Intl., Inc., Box 1536, O'Fallon, IL 62269 (618-624-8222)

TABLE 37. Continued.

BRAND	VARIETY/BLEND	FIRM AND ADDRESS
Prize	Exp. 2-15, Exp. 5-4, Exp. 9-3	Hartzler Seeds, 29806 E. State Rt.2, Harrisonville, MO 64701 (816-869-3376)
Reeds	222, 330 STS, 390, 445, 350 SCN, 355 SCN, 360 SCN	Reeds Seeds, Inc., Box 230, Chillicothe, MO 64601 (816-646-4426)
Riverside	499, 529 I, 549, 77, Robin 5	Terra Intl., Box 171376, Memphis, TN 38187 (901-758-1341)
Stine	3380, 3480, 3470, 3582, 3660, 3780, 3870, 3973, 4562, 4650, 4680	Stine Seed Co., 2225 Laredo Trail, Adel, IA, 50003 (515-677-2289)
Terra	TS285, TS315, TS345, TS364, TS393, TR390SCN, TS402, TS415, TS474, TS504, TS4292, TS4792	Terra Intl., Inc., Box 6000, Sioux City, IA 51102 (712-233-3609)
Terral	TVX4596, TV5797	Terral Seed, Inc., Box 826, Lake Providence, LA 71254 (318-559-2840)
Willcross	92-A, 92-B, 94, 9345, 9435-A, 9435-B, 9447-A, 9447-B, 9531, 9536, 9539N, 9540-A, 9540-B, 9541N, 9546, 9547N-A, 9547N-B, 9644N, 9650N, 9640, AP-40, RR2347, RR2357, RR2397, RR2407, RR2467	Midland Seed Dev. Assoc., Box 379, Garden City, MO 64747 (816-862-8203)
Wilson	3670, 4010	Wilson Seeds, Inc., Box 391, Harlan, IA 51537 (712-755-3841)
Public Varieties	Charleston, Cisne, Clifford, Delsoy 4210, Delsoy 4710, Delsoy 5500, Hamilton, Hartwig, Holladay, Hutcheson, Iroquois, KS4694, Linford, Macon, Saline, Magellan, Manokin, Maverick, Mustang, Stressland, Williams 82, NMSB-129, NMSB-5779, D91-9391, S92-2712, S92-2716, S92-1589, S93-1475, S93-1679	MSIA, 3211 LeMone Industrial Blvd., Columbia, MO 65201 (573-449-0586)

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The 1996 Missouri Variety Performance was printed by the Missouri Soybean Merchandising Council and is a supplement to the *Missouri Soybean Farmer*.

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