

# Soybean

## 1995 Missouri Crop Performance

Minor, Morris, Mason, Knerr, Thomas, Lankheit



Special Report 480

November 1995

**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



District 1  
Gary Ellington  
Gower, MO



District 1  
Richard Fordyce  
Bethany, MO



District 3  
John Schaffer  
LaGrange, MO



District 3  
John Scherder  
Frankford, MO



District 2  
David Durham  
Chairman  
Hardin, MO



District 2  
Paul Steele  
Secretary/Treasurer  
Chillicothe, MO



District 5  
Myron Steffens  
Blackburn, MO



District 6  
Joe Paulsmeyer  
Silex, MO



District 7  
John Moreton  
Charleston, MO



District 7  
Robert Cook  
New Madrid, MO



District 7  
Tom Green  
Sikeston, MO



District 4  
Mark Larson  
Jasper, MO



District 7  
Dave Haggard  
Vice-Chairman  
Steele, MO

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!

*Soybean Checkoff,  
It's Working.*



**Missouri Soybean  
Merchandising Council**

P.O. Box 104778 • Jefferson City, MO 65110-4778 • Phone: (314) 635-6701 • Toll-free Missouri 800-662-3261

## TABLE OF CONTENTS

COMPARING VARIETIES . . . . .	3
EXPERIMENTAL PROCEDURES . . . . .	4
Entries . . . . .	4
Plot Management . . . . .	4
Data Recorded . . . . .	4
Cyst Nematode Screening . . . . .	4
Electronic Accessibility of Data . . . . .	4
<b>PART I - STANDARD SOYBEAN TRIALS . . . . .</b>	<b>5</b>
EXPERIMENTAL PROCEDURES . . . . .	5
Field Plot Design . . . . .	5
Locations . . . . .	5
Map of Test Locations . . . . .	5
SUMMARY OF RESULTS (Table 1) . . . . .	5
NORTHERN LOCATIONS	
Osborn (Table 2) . . . . .	6
Chillicothe (Table 3) . . . . .	9
Novelty (Table 4) . . . . .	12
Northern Summary (Table 5) . . . . .	15
CENTRAL LOCATIONS	
Grand Pass (Table 6) . . . . .	18
Columbia (Table 7) . . . . .	21
High Hill (Table 8) . . . . .	24
Central Summary (Table 9) . . . . .	27
SOUTHWESTERN LOCATIONS	
Garden City (Table 10) . . . . .	30
Lamar (Table 11) . . . . .	32
Southwestern Summary (Table 12) . . . . .	34
SOUTHEASTERN LOCATIONS	
Oran (Table 13) . . . . .	36
Portageville Loam (Table 14) . . . . .	38
Portageville Clay (Table 15) . . . . .	40
Southeastern Summary (Table 16) . . . . .	42
<b>PART II - SOYBEAN DOUBLE CROP TRIALS . . . . .</b>	<b>44</b>
EXPERIMENTAL PROCEDURES . . . . .	44
Field Plot Design . . . . .	44
Locations . . . . .	44
Map of Test Locations . . . . .	44
SUMMARY OF RESULTS (Table 17) . . . . .	44
SOUTHEAST SOYBEAN DOUBLE CROP LOCATIONS	
Portageville Loam (Table 18) . . . . .	45
Portageville Clay (Table 19) . . . . .	46
Double Crop Summary (Table 20) . . . . .	47
<b>PART III - SOYBEAN CYST NEMATODE TRIALS . . . . .</b>	<b>48</b>
EXPERIMENTAL PROCEDURES . . . . .	48
Field Plot Design . . . . .	48
Locations . . . . .	49
Map of Test Locations . . . . .	49

SUMMARY OF RESULTS (Table 21) . . . . .	49
NORTHERN SOYBEAN CYST NEMATODE LOCATIONS	
Chillicothe (Table 22) . . . . .	50
Novelty (Table 23) . . . . .	52
Northern Summary (Table 24) . . . . .	54
CENTRAL SOYBEAN CYST NEMATODE LOCATIONS	
Marshall (Table 25) . . . . .	56
Benton City (Table 26) . . . . .	58
Central Summary (Table 27) . . . . .	60
SOUTHWEST SOYBEAN CYST NEMATODE LOCATION	
Garden City (Table 28) . . . . .	62
Lamar (Table 29) . . . . .	64
Southwestern Summary (Table 30) . . . . .	66
SOUTHEAST SOYBEAN CYST NEMATODE LOCATIONS	
Bertrand (Table 31) . . . . .	68
Clarkton (Table 32) . . . . .	69
Southeastern Summary (Table 33) . . . . .	70
<b>PART IV - SOYBEAN DRILL TRIALS . . . . .</b>	<b>71</b>
EXPERIMENTAL PROCEDURES . . . . .	71
Field Plot Design . . . . .	71
Locations . . . . .	71
Map of Test Locations . . . . .	71
SUMMARY OF RESULTS (Table 34) . . . . .	71
SOYBEAN DRILL LOCATIONS	
Albany (Table 35) . . . . .	72
Columbia (Table 36) . . . . .	73
SOYBEAN CHARACTERISTICS (Table 37) . . . . .	74
SOYBEAN SEED COMPANY ADDRESSES (Table 38) . . . . .	80

#### THE AUTHORS

Harry C. Minor is an Associate Professor of Agronomy and State Extension Specialist, Carl G. Morris and Howard L. Mason are Senior Research Specialists, and Delbert R. Knerr, David B. Thomas and C. Stephen Lankheit are Research Specialists.

#### ACKNOWLEDGEMENTS

The authors recognize and express their appreciation to the following individuals for their part in making the 1995 soybean trials possible: Gene Millard, Osborn; Paul Parsons, 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.

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

1995

## 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 368 varieties in the program in 1995.

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. "Double crop" tests evaluated the same range of materials when planted after harvest of wheat. The "Cyst Nematode" tests evaluated experimental lines and released varieties, brands, and blends on sites heavily infested with cyst nematodes. All producers of soybean seed were eligible to submit entries for these evaluations in 1995. Participation was voluntary, and no control was exercised by the program over which, or how many, varieties were entered. However, to help finance the evaluation program, a fee of \$90 per location was charged for each entry. Additionally selected varieties were also evaluated in wide versus narrow row spacing. This test was conducted on a 'pilot' bases, at no-charge to participants to determine if varieties differ in their response to drilled seeding.

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 314/882-8289. If you need assistance call 314/882-4827 for help from the system staff.

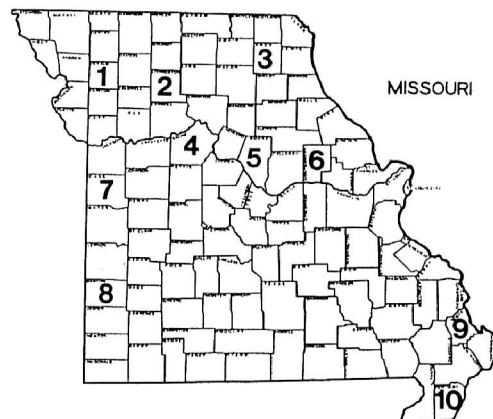
## PART I

### STANDARD SOYBEAN TRIALS

#### EXPERIMENTAL PROCEDURES

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

**Locations.** On the basis of geographical characteristics, the state was divided into regions. Soybean variety evaluation trials were located in the northern, central, southwestern and south-eastern regions of the state. Trial locations are shown on the adjacent map. In 1995, 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 1995. 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. Yields throughout central and northern Missouri may have been reduced due to frosts on September 22 and 23.

TABLE 1. YIELD SUMMARY FOR STANDARD SOYBEAN TESTS

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Osborn	146	43-52	46	2
Chillicothe	146	35-48	42	3
Novelty	146	29-47	40	4
Grand Pass	129	40-60	49	6
Columbia	129	33-50	42	7
High Hill	129	37-51	44	8
Garden City	74	21-38	30	10
Lamar	74	26-41	34	11
Oran	87	30-59	44	13
Portageville Loam	87	27-53	41	14
Portageville Clay	87	28-46	37	15

TABLE 2. Performance of Soybean Varieties evaluated near Osborn (DeKalb County) on the Gene Millard Farm during 1995 and on the Bill and Gary Meyer Farm during 1993-94.

Planted: 19 June 1995  
 Harvested: 12 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Putman Silt Loam  
 Soil Test: pH=6.9, OM=2.5%, P=77, K=170

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

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=11.4, June=3.7, July=4.6, Aug.=3.7, Sept.=2.0, TOTAL=25.4 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 2</b>							
<b>COMMERCIAL VARIETIES</b>								
Pioneer Variety 9281	9-26	25.0	1.0	46.8**	--	--	--	--
Terra-TS294	9-26	30.7	1.0	43.8	55.8**	--	49.8	--
Jack	9-27	36.3	1.4	43.4	53.7*	--	48.6	--
Reeds Brand 222	9-26	27.7	1.0	43.2	53.5*	29.3*	48.4	42.0
<b>AVERAGE</b>	<b>9-26</b>	<b>29.9</b>	<b>1.1</b>	<b>44.3</b>	<b>53.1</b>	<b>29.8</b>	<b>48.7</b>	<b>42.4</b>
L.S.D. AT .10 <sup>1</sup>	2	1.2	0.2	2.4	3.6	5.8		
C.V. %	0.6	4.1		5.3	5.6	15.8		
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-27							
Kruger K-3939	10-02	31.2	1.0	50.3**	63.1*	48.0*	56.7	53.8
Kruger K-3727	10-02	28.7	1.0	49.7*	65.7*	--	57.7	--
Kruger K-3808	10-03	31.0	1.0	49.6*	63.3*	47.8*	56.5	53.6
Desoy 3717	10-02	30.8	1.0	49.6*	--	--	--	--
Willcross 9531	9-28	28.3	1.0	48.9*	--	--	--	--
MFA Morsoy 9233	9-29	28.0	1.0	48.8*	59.4	39.8	54.1	49.3
Kruger K-3606	9-28	28.3	1.0	48.7*	62.6*	--	55.7	--
Kruger K-3525	9-28	28.2	1.0	48.5*	64.1*	--	56.3	--
Terra-Torch	10-01	29.8	1.0	48.5*	62.6*	38.2	55.6	49.8
Ohlde 3996	10-02	31.2	1.0	48.5*	--	--	--	--
MFA Morsoy 9438	10-03	30.3	1.0	48.4*	--	--	--	--
Mark Seed MRK 9735	10-01	28.5	1.0	48.4*	--	--	--	--
Desoy 3525E	9-29	28.7	1.0	48.3*	--	--	--	--
Willcross 9536	10-02	30.2	1.0	48.1*	--	--	--	--
Pioneer Variety 9393	10-01	32.4	1.0	48.1*	61.3*	39.7	54.7	49.7
Mark Seed MRK 9335	10-01	31.1	1.0	48.1*	--	--	--	--
Wilson 3670	10-01	29.5	1.0	48.1*	--	--	--	--
Willcross 94	10-01	32.8	1.0	47.9*	--	42.4	--	--
Kruger K-3848	10-02	27.3	1.0	47.7*	65.8*	--	56.8	--
Macon	10-01	30.2	1.0	47.7*	--	--	--	--
McAllister Ruler	10-01	30.4	1.0	47.5*	63.2*	45.9*	55.4	52.2
Golden Harvest H-1353	10-02	30.1	1.0	47.4*	60.3	44.5	53.9	50.7
Northrup King S35-35	10-01	25.8	1.0	47.3*	61.9*	44.8	54.6	51.3
Pioneer Variety 9392	10-03	33.0	1.0	47.3*	59.1	41.2	53.2	49.2
Northrup King S39-11	10-02	33.2	1.0	47.3*	53.8	43.9	50.6	48.3
Randell 304	9-29	31.4	1.0	47.1*	--	--	--	--
Reeds Brand 390	10-03	28.4	1.0	47.1*	60.0	45.0	53.6	50.7
DeKalb CX399	10-01	31.9	1.0	47.0*	--	--	--	--
ICI D371	10-01	29.7	1.0	47.0*	62.5*	46.8*	54.8	52.1
Stine 3660	10-01	28.4	1.0	46.9*	62.7*	--	54.8	--
Merschman Kennedy IV	10-03	29.6	1.0	46.8*	67.4**	41.4	57.1	51.9
Merschman Fillmore IV	10-01	28.4	1.0	46.7*	65.9*	--	56.3	--
AgriPro AP 3940	10-04	25.1	1.0	46.7*	--	--	--	--
Willcross 9540	10-05	35.9	1.0	46.7*	--	--	--	--
Golden Harvest H-1388	10-02	31.7	1.0	46.5	62.0*	41.7	54.3	50.1
Dyna-Gro 3368	10-01	29.2	1.0	46.5	58.2	--	52.4	--
Kruger K-3434	9-29	30.2	1.0	46.4	65.2*	--	55.8	--
Fontanelle 6100	10-03	29.7	1.0	46.4	59.8	45.6	53.1	50.6
Dairyland DSR-365	10-03	28.2	1.0	46.3	--	--	--	--
Scott's Maverick II	10-01	31.8	1.0	46.2	--	--	--	--



TABLE 2. Continued

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
NC+ 3A75	10-01	32.2	1.0	46.2	61.9*	46.4*	54.1	51.5
Ohlde 3550	10-01	30.5	1.0	46.1	--	--	--	--
Mark Seed MRK 9638	10-03	32.5	1.0	46.0	--	--	--	--
Dairyland DSR-317	10-01	33.8	1.0	45.9	62.5*	41.4	54.2	49.9
Ohlde 3580	10-01	29.9	1.0	45.9	66.0*	39.9	56.0	50.6
Midland 8393	10-02	33.9	1.0	45.9	--	--	--	--
ICI D396	10-02	30.4	1.0	45.9	58.1	--	52.0	--
Asgrow A3834	10-03	26.7	1.0	45.8	--	--	--	--
Asgrow A3431	10-04	29.4	1.0	45.8	60.4	38.8	53.1	48.3
LG Seeds LG6335	9-29	27.0	1.0	45.7	--	--	--	--
Willcross 92A	10-04	29.9	1.0	45.7	62.5*	45.4	54.1	51.2
Lynks 5373	10-02	29.7	1.0	45.7	65.2*	37.5	55.5	49.5
Randell 375	10-02	25.1	1.0	45.7	--	--	--	--
Pioneer Variety 9381	9-29	27.5	1.0	45.6	59.4	39.4	52.5	48.1
Willcross 92B	10-03	28.6	1.0	45.6	57.0	46.3*	51.3	49.6
Lewis 322	10-01	30.1	1.0	45.6	--	--	--	--
Lewis 362	10-01	31.3	1.0	45.5	58.3	--	51.9	--
Desoy 3515	9-28	28.4	1.0	45.5	--	--	--	--
MFA Morsoy 8838	10-02	32.4	1.0	45.4	54.3	39.9	49.8	46.5
M/W Genetics G 3880	10-04	30.8	1.0	45.3	62.7*	--	54.0	--
Willcross 9533	9-29	30.0	1.0	45.3	--	--	--	--
NeCo 7354	9-29	28.3	1.0	45.2	57.8	--	51.5	--
Resnik	10-01	27.9	1.0	45.1	56.5	39.6	50.8	47.1
Asgrow A3134	9-29	26.5	1.0	45.1	--	--	--	--
Flyer	10-03	32.9	1.0	44.9	57.4	39.7	51.2	47.3
M/W Genetics G 3870	10-04	30.0	1.0	44.9	--	37.6	--	--
Pioneer Variety 9362	10-01	28.4	1.0	44.8	61.7*	39.1	53.3	48.5
NeCo 7392	10-03	30.7	1.0	44.7	62.5*	44.6	53.6	50.6
Dyna-Gro 3303	9-29	28.9	1.0	44.7	65.2*	--	55.0	--
Probst	9-29	29.6	1.0	44.6	--	--	--	--
Kruger K-3838	10-01	29.9	1.0	44.6	62.4*	49.6*	53.5	52.2
Hamilton	10-04	30.8	1.0	44.6	51.6	42.0	48.1	46.1
LG Seeds LG6397	10-03	28.8	1.0	44.5	--	--	--	--
Merschman Hayes III	10-04	29.0	1.0	44.5	--	--	--	--
Dairyland DSR-370/STS	10-01	34.9	1.0	44.5	--	--	--	--
Merschman Eisenhower III	10-02	31.5	1.0	44.5	64.1*	42.1	54.3	50.2
Desoy 3303	9-29	27.6	1.0	44.4	--	--	--	--
Reeds Brand 330 STS	10-03	33.8	1.0	44.3	--	--	--	--
Willcross 9435A	10-01	27.0	1.0	44.3	58.3	--	51.3	--
Prairie Brand PB-384	10-02	26.2	1.0	44.3	67.1*	--	55.7	--
Fontanelle 6104	10-02	29.5	1.0	44.3	66.6*	--	55.5	--
Kruger K-3636	10-01	28.1	1.0	44.2	--	--	--	--
Lewis 3900STS	10-04	33.0	1.0	44.1	--	--	--	--
Corsica	10-02	30.5	1.0	44.1	57.8	38.8	51.0	46.9
Golden Harvest H-1328	9-29	27.0	1.0	44.0	60.7	41.7	52.4	48.8
Scott's 7421	10-02	32.4	1.0	44.0	--	--	--	--
Mycogen 395	10-03	28.5	1.0	43.8	--	--	--	--
Ciba Seeds 3362	10-01	29.8	1.0	43.8	65.1*	46.3*	54.5	51.7
Willcross 9435B	9-29	26.8	1.0	43.6	59.5	--	51.6	--
MFA Morsoy 9137	10-02	30.1	1.0	43.5	66.5*	39.7	55.0	49.9
Lewis 349	10-01	29.5	1.0	43.5	--	--	--	--
Ohlde 3900	10-08	29.7	1.0	43.0	62.2*	49.8*	52.6	51.7
Dyna-Gro 3340	10-01	32.0	1.0	42.9	--	39.3	--	--
Ciba Seeds 3388	9-29	27.3	1.0	42.9	--	--	--	--
Dekalb CX368	10-01	29.6	1.0	42.8	--	--	--	--
Stine 3680#	10-07	35.2	1.0	42.6	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
LN89-295	10-02	29.4	1.0	49.2*	--	--	--	--
Terra-E364	10-04	28.1	1.0	48.6*	--	--	--	--
Stine 3570	10-02	28.0	1.0	47.7*	--	--	--	--
Midland XP351	10-01	29.5	1.0	47.3*	--	--	--	--
Dairyland DST3308	9-29	33.5	1.0	46.8*	--	--	--	--
Prairie Brand PB-376X	10-02	32.9	1.0	46.7*	--	--	--	--

TABLE 2. Continued

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
HS90-3653	10-03	28.6	1.0	46.6	--	--	--	--
AgriPro EX 3868	10-03	28.0	1.0	44.9	--	--	--	--
<b>AVERAGE</b>	<b>10-01</b>	<b>29.9</b>	<b>1.0</b>	<b>46.1</b>	<b>60.0</b>	<b>41.2</b>	<b>53.0</b>	<b>49.1</b>
L.S.D. AT .10 <sup>1</sup>	2	2.2	NS	3.6	6.6	6.8		
C.V. %	0.5	5.2		5.7	6.8	10.0		
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	10-03							
Kruger K-4040	10-02	33.7	1.0	51.8**	--	--	--	--
Ohlde 4040	10-02	29.7	1.0	51.3*	53.8	25.2	52.6	43.4
Merschman Nashville	10-09	36.5	1.0	50.2*	--	--	--	--
Kruger K-4101 +	10-02	31.4	1.0	49.7*	58.3*	--	54.0	--
Cisne	10-04	30.4	1.0	49.6*	--	--	--	--
Kruger K-4004	10-02	31.9	1.0	48.7*	--	--	--	--
MFA Morsoy 8842	10-03	35.0	1.0	48.3*	50.9	44.7**	49.6	48.0
Merschman Richmond III	10-04	38.4	1.0	48.2	--	--	--	--
NC+ 4A10	10-02	29.7	1.0	48.1	55.7*	38.6	51.9	47.5
Reeds Brand 445	10-09	37.0	1.2	47.9	51.2	30.7	49.6	43.3
Stressland	10-03	37.5	1.0	47.9	55.1*	--	51.5	--
Northrup King S42-60	10-02	32.0	1.0	47.9	57.3*	--	52.6	--
Golden Harvest H-1407	10-02	30.8	1.0	47.6	53.4	26.4	50.5	42.5
Ohlde 4097N	9-29	30.8	1.0	47.5	--	--	--	--
Ohlde 4440	10-10	37.1	1.2	47.4	--	--	--	--
Terra-TS474	10-12	37.7	1.3	47.3	--	--	--	--
Calhoun	10-02	23.3	1.0	47.2	51.6	--	49.4	--
Merschman Richmond II	10-02	35.6	1.0	47.2	53.8	--	50.5	--
Magellan	10-05	34.1	1.0	47.1	57.1*	--	52.1	--
Merschman Dallas	10-09	45.6	1.0	47.0	53.4	24.2	50.2	41.5
Terra-TS402	10-02	30.9	1.0	47.0	54.2	29.8	50.6	43.7
Pioneer Variety 9452	10-03	28.7	1.0	46.7	--	--	--	--
Merschman Aflanta III	10-12	34.4	1.2	46.4	59.5*	30.0	53.0	45.3
AgriPro AP 4100	10-02	30.4	1.0	46.4	56.5*	34.2	51.5	45.7
Dekalb CX411	10-01	30.3	1.0	46.2	59.5*	30.8	52.9	45.5
Dyna-Gro 3410	10-02	33.7	1.0	46.2	--	--	--	--
Heartland AP-40	10-02	32.1	1.0	46.0	--	--	--	--
Merschman Cleveland III	10-04	39.0	1.0	46.0	52.4	--	49.2	--
Merschman Houston III	10-06	38.1	1.0	45.9	53.2	--	49.6	--
Stine 4650	10-09	38.2	1.0	45.3	--	--	--	--
Kruger K-4101	10-04	32.4	1.0	45.1	--	--	--	--
Dyna-Gro 3400	10-02	30.3	1.0	44.9	53.6	--	49.3	--
Merschman Austin II	10-06	41.1	1.0	44.9	48.9	33.5	46.9	42.4
Golden Harvest H-1485	10-12	39.1	1.2	44.8	--	--	--	--
Golden Harvest H-1432	10-03	28.6	1.0	43.7	--	--	--	--
Merschman Dallas II	10-08	26.2	1.0	42.6	43.7	26.5	43.2	37.6
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E415	10-02	33.2	1.0	49.5*	--	--	--	--
Scott's 95140	10-02	28.1	1.0	47.0	--	--	--	--
5.0 Maturity Group Check##	10-14							
<b>AVERAGE</b>	<b>10-04</b>	<b>33.5</b>	<b>1.0</b>	<b>47.2</b>	<b>54.3</b>	<b>30.7</b>	<b>50.8</b>	<b>44.1</b>
L.S.D. AT .10 <sup>1</sup>	2	1.8	0.1	3.5	6.6	NS		
C.V. %	0.4	3.8		3.9	7.5	18.1		
<b>TRIAL AVERAGE</b>		<b>30.8</b>	<b>1.0</b>	<b>46.3</b>	<b>58.4</b>	<b>38.9</b>	<b>52.4</b>	<b>47.9</b>

<sup>1</sup> LSD for previous years 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.

Planted: 18 June 1995  
 Harvested: 13 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Putman Silt Loam  
 Soil Test: pH=6.2, OM=2.1%, P=30, K=113

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Broadstrike  
 Post: Basagran, Poast+  
 Irrigation: 0.00 Inches  
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 1080 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=12.0, June=5.2, July=4.9, Aug.=6.1, Sept.=3.0, TOTAL=31.2 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>MATURITY GROUP 2</b>								
<b>COMMERCIAL VARIETIES</b>								
Terra-TS294	9-27	34.5	1.0	42.2**	--	--	--	--
Reeds Brand 222	9-22	31.0	1.2	40.0*	--	--	--	--
Pioneer Variety 9281	9-23	26.5	1.0	38.2	--	--	--	--
Jack	9-28	36.0	1.9	37.6	--	--	--	--
<b>AVERAGE</b>	<b>9-25</b>	<b>32.0</b>	<b>1.3</b>	<b>39.5</b>				
L.S.D. AT .10 <sup>1</sup>	1	1.1	0.4	3.5				
C.V. %	0.4	3.7		8.9				
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-28							
Golden Harvest H-1353	10-01	31.3	1.0	48.0*	--	--	--	--
Terra-Torch	10-02	35.7	1.0	47.7*	--	--	--	--
Willcross 92B	10-04	30.0	1.0	47.3*	--	--	--	--
Pioneer Variety 9362	9-28	31.3	1.0	46.8*	--	--	--	--
Willcross 9536	10-01	33.3	1.0	46.7*	--	--	--	--
Fontanelle 6100	10-02	33.7	1.0	46.6*	--	--	--	--
Lewis 322	10-01	30.3	1.0	46.6*	--	--	--	--
Reeds Brand 390	10-03	30.0	1.0	46.3*	--	--	--	--
NC+ 3A75	10-01	35.7	1.0	46.0*	--	--	--	--
Northrup King S35-35	9-29	27.0	1.0	45.9*	--	--	--	--
Dairyland DSR-317	10-01	28.3	1.0	45.9*	--	--	--	--
Kruger K-3848	10-01	30.0	1.0	45.7*	--	--	--	--
McAllister Ruler	10-01	31.3	1.0	45.7*	--	--	--	--
Merschman Kennedy IV	10-01	30.3	1.0	45.3*	--	--	--	--
Kruger K-3636	10-02	30.7	1.0	45.3*	--	--	--	--
Kruger K-3525	9-28	30.0	1.0	45.2*	--	--	--	--
Kruger K-3727	10-01	31.0	1.0	45.2*	--	--	--	--
ICI D371	10-01	29.7	1.0	45.0*	--	--	--	--
Asgrow A3431	10-01	27.7	1.0	45.0*	--	--	--	--
Randell 375	10-01	28.0	1.0	45.0*	--	--	--	--
Desoy 3515	9-28	30.7	1.2	44.9*	--	--	--	--
Dairyland DSR-365	10-01	31.7	1.0	44.7*	--	--	--	--
MFA Morsoy 9438	10-02	30.3	1.0	44.7*	--	--	--	--
Probst	9-29	35.3	1.0	44.7*	--	--	--	--
Kruger K-3838	10-01	29.3	1.0	44.6*	--	--	--	--
Kruger K-3939	10-01	34.3	1.0	44.5*	--	--	--	--
Desoy 3717	10-01	33.7	1.0	44.4*	--	--	--	--
Golden Harvest H-1388	10-01	33.0	1.0	44.4*	--	--	--	--
Lewis 349	10-01	33.0	1.0	44.2*	--	--	--	--
Dyna-Gro 3303	10-01	31.7	1.0	44.1*	--	--	--	--
Randell 304	9-29	32.7	1.3	43.8*	--	--	--	--
Merschman Fillmore IV	10-01	28.7	1.0	43.7*	--	--	--	--
Ohlde 3580	10-02	27.7	1.0	43.6*	--	--	--	--
Kruger K-3434	10-01	32.0	1.0	43.6*	--	--	--	--
Merschman Hayes III	10-02	35.7	1.0	43.6*	--	--	--	--
Pioneer Variety 9393	10-02	36.0	1.0	43.5*	--	--	--	--
Ciba Seeds 3388	10-01	33.7	1.0	43.4*	--	--	--	--
Kruger K-3808	10-04	35.0	1.0	43.3*	--	--	--	--
NeCo 7354	10-01	28.3	1.0	43.3*	--	--	--	--
Wilson 3670	10-01	31.7	1.0	43.2*	--	--	--	--

TABLE 3. Continued

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
Willcross 9435B	10-01	30.3	1.0	43.2*	--	--	--	--
NeCo 7392	10-05	28.7	1.0	43.0*	--	--	--	--
Corsica	10-02	26.3	1.0	43.0*	--	--	--	--
M/W Genetics G 3870	10-04	30.7	1.0	42.9*	--	--	--	--
M/W Genetics G 3880	10-03	37.0	1.0	42.9*	--	--	--	--
Lynks 5373	10-01	30.7	1.0	42.8*	--	--	--	--
Mark Seed MRK 9638	10-02	28.0	1.0	42.7	--	--	--	--
Pioneer Variety 9392	10-01	31.0	1.0	42.6	--	--	--	--
Reeds Brand 330 STS	10-04	30.3	1.2	42.6	--	--	--	--
Willcross 9435A	10-01	31.7	1.0	42.6	--	--	--	--
LG Seeds LG6335	9-29	28.3	1.0	42.6	--	--	--	--
Dekalb CX399	10-01	33.0	1.2	42.4	--	--	--	--
Asgrow A3834	10-03	31.0	1.0	42.4	--	--	--	--
Mark Seed MRK 9335	10-01	27.3	1.0	42.3	--	--	--	--
MFA Morsoy 9233	9-29	31.0	1.0	42.2	--	--	--	--
Willcross 9540	10-04	38.0	1.3	42.2	--	--	--	--
AgriPro AP 3940	10-03	26.0	1.0	42.1	--	--	--	--
Resnik	10-01	28.7	1.0	42.1	--	--	--	--
Ciba Seeds 3362	10-01	27.0	1.0	42.0	--	--	--	--
Prairie Brand PB-384	10-01	31.7	1.0	41.9	--	--	--	--
Hamilton	10-02	32.0	1.0	41.9	--	--	--	--
Willcross 92A	10-03	36.3	1.0	41.8	--	--	--	--
Lewis 3900STS	10-03	30.7	1.0	41.7	--	--	--	--
Fontanelle 6104	10-02	27.0	1.0	41.7	--	--	--	--
Mark Seed MRK 9735	10-01	32.0	1.0	41.7	--	--	--	--
Scott's 7421	10-01	38.3	1.0	41.7	--	--	--	--
Kruger K-3606	9-28	23.0	1.0	41.6	--	--	--	--
MFA Morsoy 8838	10-02	36.0	1.0	41.3	--	--	--	--
Dyna-Gro 3368	10-01	28.0	1.0	41.3	--	--	--	--
Asgrow A3134	9-29	30.3	1.0	41.3	--	--	--	--
Desoy 3525E	9-28	24.7	1.0	41.3	--	--	--	--
Flyer	10-02	36.0	1.0	41.2	--	--	--	--
Stine 3660	10-01	29.0	1.0	41.2	--	--	--	--
Ohlde 3900	10-07	34.7	1.0	41.0	--	--	--	--
Ohlde 3996	10-01	24.7	1.0	40.9	--	--	--	--
Pioneer Variety 9381	9-29	32.7	1.0	40.8	--	--	--	--
Macon	10-02	35.3	1.0	40.8	--	--	--	--
Dairyland DSR-370/STS	10-01	40.0	1.0	40.8	--	--	--	--
Dekalb CX368	10-01	40.7	1.0	40.7	--	--	--	--
Willcross 9533	9-29	29.0	1.0	40.7	--	--	--	--
Merschman Eisenhower III	10-03	30.0	1.2	40.7	--	--	--	--
Stine 3680#	10-10	35.7	1.2	40.4	--	--	--	--
Lewis 362	10-01	31.3	1.0	40.2	--	--	--	--
Ohlde 3550	10-01	26.0	1.0	40.2	--	--	--	--
ICI D396	10-03	31.0	1.0	40.2	--	--	--	--
MFA Morsoy 9137	10-01	34.3	1.0	40.0	--	--	--	--
Willcross 94	9-29	31.0	1.0	39.9	--	--	--	--
Desoy 3303	9-28	27.3	1.0	39.6	--	--	--	--
LG Seeds LG6397	10-02	30.7	1.0	39.5	--	--	--	--
Willcross 9531	9-28	28.3	1.0	39.4	--	--	--	--
Scott's Maverick II	10-01	34.7	1.1	39.2	--	--	--	--
Mycogen 395	10-01	33.3	1.0	38.8	--	--	--	--
Midland 8393	10-04	36.0	1.1	38.8	--	--	--	--
Golden Harvest H-1328	10-01	22.3	1.0	38.7	--	--	--	--
Northrup King S39-11	10-01	33.7	1.5	38.5	--	--	--	--
Dyna-Gro 3340	9-29	30.3	1.0	37.4	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
AgriPro EX 3868	10-02	33.7	1.0	48.3**	--	--	--	--
LN89-295	10-02	26.3	1.2	48.0*	--	--	--	--
Dairyland DST3308	10-01	28.0	1.0	44.5*	--	--	--	--
Prairie Brand PB-376X	10-01	35.7	1.0	44.1*	--	--	--	--
Midland XP351	9-29	26.0	1.0	43.9*	--	--	--	--
Stine 3570	10-01	29.7	1.0	43.3*	--	--	--	--

TABLE 3. Continued

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	Terra-E364	10-02	28.0	1.0	42.6	--	--	--
HS90-3653	10-03	36.3	1.0	42.5	--	--	--	--
<b>AVERAGE</b>	<b>10-01</b>	<b>31.2</b>	<b>1.0</b>	<b>42.9</b>				
L.S.D. AT .10 <sup>1</sup>	2	1.3	0.2	5.5				
C.V. %	0.5	3.0		9.3				
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	10-01							
Cisne	10-06	32.7	1.0	47.6**	--	--	--	--
Kruger K-4101 +	10-03	35.7	1.0	45.8*	--	--	--	--
Kruger K-4040	10-01	32.0	1.0	45.6*	--	--	--	--
Kruger K-4004	10-04	33.0	1.0	45.5*	--	--	--	--
Ohlde 4097N	10-03	28.7	1.0	45.1*	--	--	--	--
Stressland	10-05	39.0	1.0	45.0*	--	--	--	--
Golden Harvest H-1432	10-06	28.0	1.0	44.7*	--	--	--	--
Dyna-Gro 3410	10-05	32.7	1.0	43.9*	--	--	--	--
Dekalb CX411	10-02	30.0	1.0	43.9*	--	--	--	--
Reeds Brand 445	10-11	37.3	1.3	43.4*	--	--	--	--
Northrup King S42-60	10-03	33.0	1.0	43.3*	--	--	--	--
MFA Morsoy 8842	10-03	33.3	1.0	43.2*	--	--	--	--
Golden Harvest H-1407	10-02	31.0	1.0	43.1*	--	--	--	--
Magellan	10-06	34.7	1.2	43.0*	--	--	--	--
Heartland AP-40	10-03	34.7	1.0	42.5*	--	--	--	--
Dyna-Gro 3400	10-02	32.3	1.0	42.0	--	--	--	--
Merschman Nashville	10-10	37.0	1.2	41.9	--	--	--	--
Merschman Houston III	10-07	39.3	1.0	41.9	--	--	--	--
Ohlde 4040	10-03	30.7	1.0	41.6	--	--	--	--
Merschman Richmond II	10-04	34.0	1.2	41.1	--	--	--	--
Pioneer Variety 9452	10-06	30.0	1.0	40.9	--	--	--	--
Calhoun	10-03	23.7	1.0	40.7	--	--	--	--
AgriPro AP 4100	10-04	31.0	1.0	40.3	--	--	--	--
Terra-TS402	10-04	36.3	1.0	40.3	--	--	--	--
Merschman Richmond III	10-06	34.7	1.0	40.3	--	--	--	--
Merschman Austin II	10-09	44.0	1.7	38.7	--	--	--	--
Kruger K-4101	10-06	39.3	1.0	37.9	--	--	--	--
Ohlde 4440	10-09	39.0	1.3	37.9	--	--	--	--
NC+ 4A10	10-03	31.0	1.0	37.1	--	--	--	--
Terra-TS474	10-12	29.7	1.8	36.9	--	--	--	--
Stine 4650	10-12	34.3	1.3	36.6	--	--	--	--
Merschman Dallas II	10-10	34.3	1.4	36.4	--	--	--	--
Golden Harvest H-1485	10-12	39.3	1.3	36.4	--	--	--	--
Merschman Cleveland III	10-06	37.0	1.1	36.2	--	--	--	--
Merschman Dallas	10-11	42.7	1.7	35.5	--	--	--	--
Merschman Atlanta III	10-12	38.3	1.5	35.4	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E415	10-02	31.7	1.0	44.2*	--	--	--	--
Scott's 95140	10-03	31.3	1.0	40.4	--	--	--	--
5.0 Maturity Group Check##	10-13							
<b>AVERAGE</b>	<b>10-06</b>	<b>34.3</b>	<b>1.1</b>	<b>41.2</b>				
L.S.D. AT .10 <sup>1</sup>	2	7.4	0.4	5.4				
C.V. %	0.5	15.9		9.6				
<b>TRIAL AVERAGE</b>		<b>31.8</b>	<b>1.1</b>	<b>42.1</b>				

<sup>1</sup> LSD for previous years 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 4. Performance of Soybean Varieties evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1993-95.

Planted: 16 June 1995  
 Harvested: 11 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Putnam Silt Loam  
 Soil Test: pH=7.3, OM=2.5%, P=58, K=243

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

Cyst Nematode Population at Harvest: 1560 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=12.6, June=3.4, July=6.9, Aug.=9.3, Sept.=3.1, TOTAL=35.3 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 2</b>							
<b>COMMERCIAL VARIETIES</b>								
Pioneer Variety 9281	9-26	26.8	1.0	42.3**	--	--	--	--
Reeds Brand 222	9-27	32.3	1.3	40.4*	50.1*	37.7**	45.3	42.7
Terra-TS294	9-29	35.2	1.0	38.6	43.8	--	41.2	--
Jack	10-02	36.3	2.0	37.2	51.7**	--	44.5	--
<b>AVERAGE</b>	<b>9-29</b>	<b>32.7</b>	<b>1.3</b>	<b>39.6</b>	<b>47.0</b>	<b>33.6</b>	<b>43.3</b>	<b>40.1</b>
L.S.D. AT .10 <sup>1</sup>	1	2.2	0.2	3.5	3.5	6.0		
C.V. %	0.5	6.6		8.8	6.3	14.5		
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	10-02							
Kruger K-3525	10-01	32.3	1.2	47.2**	60.9*	--	54.1	--
Desoy 3717	10-05	36.7	1.3	47.0*	--	--	--	--
Lewis 322	10-05	34.6	1.5	46.8*	--	--	--	--
Kruger K-3727	10-04	34.5	1.0	46.8*	53.7	--	50.3	--
Kruger K-3434	10-02	36.5	1.2	46.0*	56.7	--	51.4	--
ICI D396	10-07	37.9	1.5	45.6*	52.3	--	49.0	--
Desoy 3525E	10-01	33.9	1.0	44.9*	--	--	--	--
Kruger K-3939	10-04	36.1	1.5	44.9*	53.6	43.4*	49.3	47.3
Northrup King S39-11	10-05	41.5	3.2	44.8*	53.3	38.7	49.1	45.6
Willcross 9540	10-08	39.5	2.0	44.5*	--	--	--	--
Pioneer Variety 9392	10-06	36.0	1.1	44.4*	52.6	43.3*	48.5	46.8
Wilson 3670	10-02	35.5	1.0	44.3*	--	--	--	--
Pioneer Variety 9381	10-01	33.2	1.0	44.1*	55.8	37.2	50.0	45.7
Randell 304	10-02	36.4	1.7	44.0*	--	--	--	--
Desoy 3303	10-01	31.8	1.0	43.9*	--	--	--	--
Fontanelle 6104	10-06	35.9	1.0	43.9*	59.5*	--	51.7	--
Randell 375	10-04	31.8	1.0	43.8*	--	--	--	--
Dekalb CX399	10-05	39.7	1.3	43.8*	--	--	--	--
Willcross 92B	10-08	36.9	1.5	43.7*	46.3	44.3*	45.0	44.8
Mark Seed MRK 9638	10-08	37.6	1.1	43.6*	--	--	--	--
Lewis 349	10-03	35.3	1.2	43.4*	--	--	--	--
Merschman Kennedy IV	10-03	35.1	1.2	43.1*	48.8	42.7*	46.0	44.9
LG Seeds LG6397	10-07	35.2	1.3	42.9*	--	--	--	--
Mark Seed MRK 9335	10-02	34.7	1.3	42.9*	--	--	--	--
Kruger K-3808	10-07	35.1	1.2	42.8*	55.0	46.0*	48.9	47.9
Asgrow A3834	10-07	33.7	1.2	42.8*	--	--	--	--
Scott's Maverick II	10-04	38.0	1.7	42.8*	--	--	--	--
Merschman Eisenhower III	10-08	37.0	1.0	42.6*	57.5*	43.6*	50.1	47.9
Northrup King S35-35	10-03	29.7	1.0	42.5*	51.6	43.6*	47.1	45.9
MFA Morsoy 9233	10-01	31.6	1.0	42.4	50.7	36.5	46.6	43.2
Kruger K-3636	10-06	34.7	1.0	42.3	--	--	--	--
Terra-Torch	10-03	34.4	1.0	42.2	48.1	41.2	45.2	43.8
M/W Genetics G 3870	10-07	35.2	1.7	42.2	--	42.5*	--	--
Kruger K-3848	10-04	32.4	1.0	42.1	54.8	--	48.5	--
Ohlde 3996	10-04	35.2	1.0	42.0	--	--	--	--
ICI D371	10-03	33.8	1.0	42.0	51.3	43.3*	46.7	45.5
Reeds Brand 390	10-08	33.7	1.2	42.0	55.5	42.7*	48.8	46.7
Fontanelle 6100	10-07	35.0	1.1	41.9	51.0	40.3	46.5	44.4
Mark Seed MRK 9735	10-04	32.1	1.0	41.9	--	--	--	--
Golden Harvest H-1388	10-05	35.8	1.3	41.7	49.8	39.3	45.8	43.6

TABLE 4. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
Dairyland DSR-317	10-06	38.6	1.3	41.7	51.3	43.6*	46.5	45.5
NeCo 7354	10-03	31.1	1.0	41.7	53.9	--	47.8	--
Pioneer Variety 9362	10-02	34.1	1.0	41.6	57.9*	36.6	49.8	45.4
Lewis 3900STS	10-07	36.4	1.9	41.5	--	--	--	--
Willcross 92A	10-08	36.3	1.4	41.5	53.0	38.3	47.3	44.3
MFA Morsoy 9438	10-07	37.0	1.4	41.4	--	--	--	--
Probst	10-03	34.3	1.2	41.3	--	--	--	--
Merschman Fillmore IV	10-05	33.0	1.2	41.2	50.5	--	45.9	--
Kruger K-3606	10-01	31.4	1.0	41.1	61.7**	--	51.4	--
NC+ 3A75	10-02	37.6	1.1	41.1	51.9	44.6*	46.5	45.9
MFA Morsoy 8838	10-07	39.4	1.2	41.0	54.5	41.4	47.8	45.6
Dyna-Gro 3368	10-03	34.3	1.0	41.0	54.5	--	47.8	--
Ohlde 3550	10-03	35.7	1.0	40.9	--	--	--	--
Mycogen 395	10-04	35.2	1.5	40.8	--	--	--	--
Merschman Hayes III	10-04	33.3	1.3	40.7	--	--	--	--
Midland 8393	10-07	39.0	2.5	40.5	--	--	--	--
Willcross 9435A	10-03	32.0	1.0	40.4	48.1	--	44.3	--
Willcross 9531	10-01	32.2	1.0	40.4	--	--	--	--
Corsica	10-06	34.5	1.3	40.3	52.1	41.4	46.2	44.6
Desoy 3515	10-01	32.5	1.0	40.3	--	--	--	--
Dairyland DSR-365	10-04	34.3	1.0	40.1	--	--	--	--
Golden Harvest H-1353	10-03	35.7	1.4	40.1	48.9	41.5	44.5	43.5
Prairie Brand PB-384	10-04	31.2	1.2	39.7	53.3	--	46.5	--
Asgrow A3431	10-04	32.1	1.0	39.7	59.1*	42.7*	49.4	47.2
Pioneer Variety 9393	10-06	36.6	1.0	39.6	57.2*	46.0*	48.4	47.6
Dyna-Gro 3340	10-02	39.2	1.2	39.4	--	39.5	--	--
Willcross 94	10-04	36.1	1.2	39.3	--	40.7	--	--
LG Seeds LG6335	10-01	31.5	1.0	39.3	--	--	--	--
NeCo 7392	10-06	36.2	1.7	39.2	51.5	38.7	45.4	43.1
M/W Genetics G 3880	10-08	37.0	1.3	39.0	55.5	--	47.3	--
McAllister Ruler	10-04	34.9	1.0	38.9	53.4	43.9*	46.2	45.4
Resnik	10-04	33.3	1.0	38.8	47.5	36.7	43.2	41.0
Ciba Seeds 3388	10-03	36.6	1.0	38.6	--	--	--	--
Dyna-Gro 3303	10-01	31.8	1.2	38.5	38.4	--	38.5	--
MFA Morsoy 9137	10-04	34.2	1.2	38.4	48.8	41.2	43.6	42.8
Lynks 5373	10-03	33.0	1.0	38.4	53.3	46.3*	45.8	46.0
Willcross 9435B	10-02	30.4	1.0	38.3	58.2*	--	48.3	--
Reeds Brand 330 STS	10-09	38.9	1.8	38.1	--	--	--	--
Stine 3660	10-07	31.3	1.0	38.1	51.4	--	44.8	--
Ciba Seeds 3362	10-03	31.9	1.0	38.0	55.3	39.0	46.7	44.1
Ohlde 3580	10-04	32.5	1.0	38.0	47.5	42.2*	42.8	42.6
Willcross 9533	10-01	32.7	1.0	38.0	--	--	--	--
Dekalb CX368	10-03	34.9	1.0	37.8	--	--	--	--
Lewis 362	10-03	36.3	1.0	37.7	55.0	--	46.4	--
Asgrow A3134	10-02	29.6	1.0	37.6	--	--	--	--
Dairyland DSR-370/STS	10-03	39.9	1.7	37.1	--	--	--	--
AgriPro AP 3940	10-08	29.5	1.0	37.0	--	--	--	--
Flyer	10-07	35.4	1.0	36.9	54.3	38.1	45.6	43.1
Kruger K-3838	10-03	35.4	1.0	36.6	53.5	45.1*	45.1	45.1
Scott's 7421	10-03	35.2	1.3	36.1	--	--	--	--
Ohlde 3900	10-08	34.7	1.2	35.6	54.2	41.5	44.9	43.8
Golden Harvest H-1328	10-02	33.0	1.0	35.4	52.0	41.6	43.7	43.0
Willcross 9536	10-03	31.6	1.0	35.2	--	--	--	--
Macon	10-06	32.7	1.3	34.7	--	--	--	--
Stine 3680#	10-11	39.5	2.0	34.4	--	--	--	--
Hamilton	10-05	31.7	1.0	33.8	59.8*	40.1	46.8	44.6
<b>EXPERIMENTAL VARIETIES</b>								
AgriPro EX 3868	10-06	35.8	1.0	45.6*	--	--	--	--
Prairie Brand PB-376X	10-04	38.9	1.0	42.7*	--	--	--	--
Dairyland DST3308	10-03	38.6	2.0	41.9	--	--	--	--
HS90-3653	10-06	32.9	1.0	41.4	--	--	--	--
Midland XP351	10-03	34.3	1.0	41.2	--	--	--	--
Terra-E364	10-04	31.6	1.0	41.0	--	--	--	--

TABLE 4. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	Stine 3570	10-05	33.0	1.0	39.7	--	--	--
LN89-295	10-08	30.9	1.0	37.6	--	--	--	--
<b>AVERAGE</b>	<b>10-04</b>	<b>34.7</b>	<b>1.2</b>	<b>41.0</b>	<b>51.7</b>	<b>40.9</b>	<b>46.4</b>	<b>44.5</b>
L.S.D. AT .10 <sup>1</sup>	2	2.6	0.5	4.7	7.2	7.5		
C.V. %	0.4	5.5		8.3	8.6	11.3		
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	10-06							
Merschman Cleveland III	10-09	43.8	1.8	42.5**	49.5	--	46.0	--
Dekalb CX411	10-06	35.3	1.2	41.7*	55.4*	41.8	48.6	46.3
Kruger K-4040	10-04	34.8	1.0	41.2*	--	--	--	--
Northrup King S42-60	10-08	35.1	2.1	41.1*	57.5*	--	49.3	--
Cisne	10-07	33.8	2.5	40.5*	--	--	--	--
Ohlde 4040	10-05	35.7	1.6	40.0*	53.3	39.5	46.7	44.3
Dyna-Gro 3400	10-07	33.4	1.2	39.7*	54.4	--	47.1	--
Calhoun	10-05	27.1	1.0	39.4*	56.6*	--	48.0	--
Kruger K-4101+	10-07	35.4	1.0	39.3*	46.3	--	42.8	--
Golden Harvest H-1407	10-07	35.8	1.1	39.2*	58.0*	43.7	48.6	47.0
Pioneer Variety 9452	10-09	32.5	1.2	39.0*	--	--	--	--
Magellan	10-08	37.3	2.6	38.9*	57.0*	--	48.0	--
Reeds Brand 445	10-11	39.9	2.9	38.0*	61.1**	47.8**	49.6	49.0
Heartland AP-40	10-06	36.6	1.1	37.9*	--	--	--	--
Merschman Richmond II	10-07	39.4	2.5	37.8*	53.8	--	45.8	--
Merschman Nashville	10-11	36.8	2.0	37.8*	--	--	--	--
Terra-TS402	10-06	33.5	1.0	37.8*	49.6	44.1	43.7	43.8
MFA Morsoy 8842	10-07	37.3	1.1	37.4*	50.0	35.9	43.7	41.1
AgriPro AP 4100	10-07	34.3	1.1	37.3*	50.0	41.2	43.7	42.8
Stressland	10-07	35.7	1.2	37.2	50.7	--	44.0	--
Merschman Dallas II	10-11	30.7	1.8	37.1	54.9*	42.1	46.0	44.7
Ohlde 4440	10-12	42.2	2.3	36.5	--	--	--	--
Stine 4650	10-11	39.7	3.3	36.4	--	--	--	--
Merschman Houston III	10-09	39.2	2.0	36.0	54.5	--	45.3	--
Terra-TS474	10-12	39.8	3.7	35.7	--	--	--	--
Kruger K-4101	10-07	35.4	1.0	35.6	--	--	--	--
Ohlde 4097N	10-05	34.4	1.1	35.5	--	--	--	--
Golden Harvest H-1432	10-08	31.2	1.2	35.4	--	--	--	--
Merschman Richmond III	10-07	37.6	1.2	35.4	--	--	--	--
NC+ 4A10	10-07	34.2	1.1	35.2	53.9	44.8	44.6	44.6
Kruger K-4004	10-07	36.1	1.0	35.1	--	--	--	--
Merschman Dallas	10-11	43.5	3.3	35.0	54.3	45.1	44.7	44.8
Dyna-Gro 3410	10-07	34.0	1.1	34.4	--	--	--	--
Merschman Atlanta III	10-12	38.5	3.4	32.2	58.0*	41.2	45.1	43.8
Golden Harvest H-1485	10-12	36.6	2.3	31.7	--	--	--	--
Merschman Austin II	10-10	37.9	2.4	29.4	55.3*	40.3	42.3	41.7
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E415	10-05	35.2	1.3	40.9*	--	--	--	--
Scott's 95140	10-06	34.6	1.0	40.8*	--	--	--	--
5.0 Maturity Group Check##	10-13							
<b>AVERAGE</b>	<b>10-08</b>	<b>36.2</b>	<b>1.7</b>	<b>37.4</b>	<b>53.5</b>	<b>41.4</b>	<b>45.4</b>	<b>44.1</b>
L.S.D. AT .10 <sup>1</sup>	1	3.3	0.8	5.2	6.4	NS		
C.V. %	0.3	6.6		10.4	7.4	9.8		
<b>TRIAL AVERAGE</b>		<b>35.0</b>	<b>1.4</b>	<b>40.0</b>	<b>52.0</b>	<b>40.8</b>	<b>46.0</b>	<b>44.3</b>

<sup>1</sup> LSD for previous years 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 1995.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Osborn	Chillicothe	Novelty	Mean	Osborn	Chillicothe	Novelty	Mean
<p>Osborn Planted: 19 June 1995 Harvested: 12 October 1995 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Putman Silt Loam Previous Crop: Corn SCN Pop.: 0 Eggs G. Season Moisture: 25.4 In.</p> <p>Chillicothe Planted: 18 June 1995 Harvested: 13 October 1995 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Putnam Silt Loam Previous Crop: Corn SCN Pop.: 1080 Eggs G. Season Moisture: 31.2 In.</p> <p>Novelty Planted: 16 June 1995 Harvested: 11 October 1995 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A. Soil Type: Putnam Silt Loam Previous Crop: Corn SCN Pop.: 1560 Eggs G. Season Moisture: 35.3 In.</p>								
<b>MATURITY GROUP 2</b>								
<b>COMMERCIAL VARIETIES</b>								
Pioneer Variety 9281	1.0	1.0	1.0	1.0	46.8**	38.2	42.3**	42.4**
Terra-TS294	1.0	1.0	1.0	1.0	43.8	42.2**	38.6	41.5*
Reeds Brand 222	1.0	1.2	1.3	1.2	43.2	40.0*	40.4*	41.2*
Jack	1.4	1.9	2.0	1.8	43.4	37.6	37.2	39.4
<b>AVERAGE</b>	<b>1.1</b>	<b>1.3</b>	<b>1.3</b>	<b>1.3</b>	<b>44.3</b>	<b>39.5</b>	<b>39.6</b>	<b>41.1</b>
L.S.D. AT .10	0.2	0.4	0.2	0.2	2.4	3.5	3.5	1.7
C.V. %					5.3	8.9	8.8	7.7
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
Kruger K-3727	1.0	1.0	1.0	1.0	49.7*	45.2*	46.8*	47.2**
Kruger K-3525	1.0	1.0	1.2	1.1	48.5*	45.2*	47.2**	47.0*
Desoy 3717	1.0	1.0	1.3	1.1	49.6*	44.4*	47.0*	47.0*
Kruger K-3939	1.0	1.0	1.5	1.2	50.3**	44.5*	44.9*	46.6*
Lewis 322	1.0	1.0	1.5	1.2	45.6	46.6*	46.8*	46.3*
Terra-Torch	1.0	1.0	1.0	1.0	48.5*	47.7*	42.2	46.1*
Willcross 92B	1.0	1.0	1.5	1.2	45.6	47.3*	43.7*	45.5*
Kruger K-3434	1.0	1.0	1.2	1.1	46.4	43.6*	46.0*	45.3*
Wilson 3670	1.0	1.0	1.0	1.0	48.1*	43.2*	44.3*	45.2*
Northrup King S35-35	1.0	1.0	1.0	1.0	47.3*	45.9*	42.5*	45.2*
Kruger K-3848	1.0	1.0	1.0	1.0	47.7*	45.7*	42.1	45.2*
Kruger K-3808	1.0	1.0	1.2	1.1	49.6*	43.3*	42.8*	45.2*
Golden Harvest H-1353	1.0	1.0	1.4	1.1	47.4*	48.0*	40.1	45.2*
Reeds Brand 390	1.0	1.0	1.2	1.1	47.1*	46.3*	42.0	45.1*
Merschman Kennedy IV	1.0	1.0	1.2	1.1	46.8*	45.3*	43.1*	45.1*
Fontanelle 6100	1.0	1.0	1.1	1.0	46.4	46.6*	41.9	45.0*
Randell 304	1.0	1.3	1.7	1.3	47.1*	43.8*	44.0*	45.0*
Desoy 3525E	1.0	1.0	1.0	1.0	48.3*	41.3	44.9*	44.8*
Pioneer Variety 9392	1.0	1.0	1.1	1.0	47.3*	42.6	44.4*	44.8*
MFA Morsoy 9438	1.0	1.0	1.4	1.1	48.4*	44.7*	41.4	44.8*
Randell 375	1.0	1.0	1.0	1.0	45.7	45.0*	43.8*	44.8*
ICI D371	1.0	1.0	1.0	1.0	47.0*	45.0*	42.0	44.7*
Willcross 9540	1.0	1.3	2.0	1.4	46.7*	42.2	44.5*	44.5*
MFA Morsoy 9233	1.0	1.0	1.0	1.0	48.8*	42.2	42.4	44.5*
Dairyland DSR-317	1.0	1.0	1.3	1.1	45.9	45.9*	41.7	44.5*
NC+ 3A75	1.0	1.0	1.1	1.0	46.2	46.0*	41.1	44.4*
Pioneer Variety 9362	1.0	1.0	1.0	1.0	44.8	46.8*	41.6	44.4*
Mark Seed MRK 9335	1.0	1.0	1.3	1.1	48.1*	42.3	42.9*	44.4*
Dekalb CX399	1.0	1.2	1.3	1.2	47.0*	42.4	43.8*	44.4*
Golden Harvest H-1388	1.0	1.0	1.3	1.1	46.5	44.4*	41.7	44.2*
Mark Seed MRK 9638	1.0	1.0	1.1	1.0	46.0	42.7	43.6*	44.1
McAllister Ruler	1.0	1.0	1.0	1.0	47.5*	45.7*	38.9	44.0
Mark Seed MRK 9735	1.0	1.0	1.0	1.0	48.4*	41.7	41.9	44.0
Kruger K-3636	1.0	1.0	1.0	1.0	44.2	45.3*	42.3	43.9
Merschman Fillmore IV	1.0	1.0	1.2	1.1	46.7*	43.7*	41.2	43.9
Ohlde 3996	1.0	1.0	1.0	1.0	48.5*	40.9	42.0	43.8
Dairyland DSR-365	1.0	1.0	1.0	1.0	46.3	44.7*	40.1	43.7
Lewis 349	1.0	1.0	1.2	1.1	43.5	44.2*	43.4*	43.7
Asgrow A3834	1.0	1.0	1.2	1.1	45.8	42.4	42.8*	43.7
Pioneer Variety 9393	1.0	1.0	1.0	1.0	48.1*	43.5*	39.6	43.7
Desoy 3515	1.0	1.2	1.0	1.1	45.5	44.9*	40.3	43.6

TABLE 5. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Osborn	Chillicothe	Novelty	Mean	Osborn	Chillicothe	Novelty	Mean
ICI D396	1.0	1.0	1.5	1.2	45.9	40.2	45.6*	43.9
Kruger K-3606	1.0	1.0	1.0	1.0	48.7*	41.6	41.1	43.8
Probst	1.0	1.0	1.2	1.1	44.6	44.7*	41.3	43.5
Northrup King S39-11	1.0	1.5	3.2	1.9	47.3*	38.5	44.8*	43.5
Asgrow A3431	1.0	1.0	1.0	1.0	45.8	45.0*	39.7	43.5
Pioneer Variety 9381	1.0	1.0	1.0	1.0	45.6	40.8	44.1*	43.5
NeCo 7354	1.0	1.0	1.0	1.0	45.2	43.3*	41.7	43.4
Fontanelle 6104	1.0	1.0	1.0	1.0	44.3	41.7	43.9*	43.3
Willcross 9536	1.0	1.0	1.0	1.0	48.1*	46.7*	35.2	43.3
M/W Genetics G 3870	1.0	1.0	1.7	1.2	44.9	42.9*	42.2	43.3
Willcross 92A	1.0	1.0	1.4	1.1	45.7	41.8	41.5	43.0
Willcross 9531	1.0	1.0	1.0	1.0	48.9*	39.4	40.4	42.9
Merschman Hayes III	1.0	1.0	1.3	1.1	44.5	43.6*	40.7	42.9
Dyna-Gro 3368	1.0	1.0	1.0	1.0	46.5	41.3	41.0	42.9
Scott's Maverick II	1.0	1.1	1.7	1.3	46.2	39.2	42.8*	42.7
Desoy 3303	1.0	1.0	1.0	1.0	44.4	39.6	43.9*	42.6
Merschman Eisenhower III	1.0	1.2	1.0	1.1	44.5	40.7	42.6*	42.6
MFA Morsoy 8838	1.0	1.0	1.2	1.1	45.4	41.3	41.0	42.6
LG Seeds LG6335	1.0	1.0	1.0	1.0	45.7	42.6	39.3	42.5
Corsica	1.0	1.0	1.3	1.1	44.1	43.0*	40.3	42.5
Ohlde 3580	1.0	1.0	1.0	1.0	45.9	43.6*	38.0	42.5
Willcross 94	1.0	1.0	1.2	1.1	47.9*	39.9	39.3	42.4
Willcross 9435A	1.0	1.0	1.0	1.0	44.3	42.6	40.4	42.4
M/W Genetics G 3880	1.0	1.0	1.3	1.1	45.3	42.9*	39.0	42.4
Ohlde 3550	1.0	1.0	1.0	1.0	46.1	40.2	40.9	42.4
Lewis 3900STS	1.0	1.0	1.9	1.3	44.1	41.7	41.5	42.4
Dyna-Gro 3303	1.0	1.0	1.2	1.1	44.7	44.1*	38.5	42.4
NeCo 7392	1.0	1.0	1.7	1.2	44.7	43.0*	39.2	42.3
Lynks 5373	1.0	1.0	1.0	1.0	45.7	42.8*	38.4	42.3
LG Seeds LG6397	1.0	1.0	1.3	1.1	44.5	39.5	42.9*	42.3
Stine 3660	1.0	1.0	1.0	1.0	46.9*	41.2	38.1	42.1
Prairie Brand PB-384	1.0	1.0	1.2	1.1	44.3	41.9	39.7	42.0
Resnik	1.0	1.0	1.0	1.0	45.1	42.1	38.8	42.0
AgriPro AP 3940	1.0	1.0	1.0	1.0	46.7*	42.1	37.0	41.9
Kruger K-3838	1.0	1.0	1.0	1.0	44.6	44.6*	36.6	41.9
Midland 8393	1.0	1.1	2.5	1.5	45.9	38.8	40.5	41.7
Reeds Brand 330 STS	1.0	1.2	1.8	1.3	44.3	42.6	38.1	41.7
Willcross 9435B	1.0	1.0	1.0	1.0	43.6	43.2*	38.3	41.7
Ciba Seeds 3388	1.0	1.0	1.0	1.0	42.9	43.4*	38.6	41.6
Ciba Seeds 3362	1.0	1.0	1.0	1.0	43.8	42.0	38.0	41.3
Asgrow A3134	1.0	1.0	1.0	1.0	45.1	41.3	37.6	41.3
Willcross 9533	1.0	1.0	1.0	1.0	45.3	40.7	38.0	41.3
Macon	1.0	1.0	1.3	1.1	47.7*	40.8	34.7	41.1
Lewis 362	1.0	1.0	1.0	1.0	45.5	40.2	37.7	41.1
Mycogen 395	1.0	1.0	1.5	1.2	43.8	38.8	40.8	41.1
Flyer	1.0	1.0	1.0	1.0	44.9	41.2	36.9	41.0
Dairyland DSR-370/STS	1.0	1.0	1.7	1.2	44.5	40.8	37.1	40.8
Scott's 7421	1.0	1.0	1.3	1.1	44.0	41.7	36.1	40.6
MFA Morsoy 9137	1.0	1.0	1.2	1.1	43.5	40.0	38.4	40.6
Dekalb CX368	1.0	1.0	1.0	1.0	42.8	40.7	37.8	40.4
Hamilton	1.0	1.0	1.0	1.0	44.6	41.9	33.8	40.1
Dyna-Gro 3340	1.0	1.0	1.2	1.1	42.9	37.4	39.4	39.9
Ohlde 3900	1.0	1.0	1.2	1.1	43.0	41.0	35.6	39.9
Golden Harvest H-1328	1.0	1.0	1.0	1.0	44.0	38.7	35.4	39.4
Stine 3680	1.0	1.2	2.0	1.4	42.6	40.4	34.4	39.1
<b>EXPERIMENTAL VARIETIES</b>								
AgriPro EX 3868	1.0	1.0	1.0	1.0	44.9	48.3**	45.6*	46.3*
LN89-295	1.0	1.2	1.0	1.1	49.2*	48.0*	37.6	44.9*
Prairie Brand PB-376X	1.0	1.0	1.0	1.0	46.7*	44.1*	42.7*	44.5*
Dairyland DST3308	1.0	1.0	2.0	1.3	46.8*	44.5*	41.9	44.4*
Midland XP351	1.0	1.0	1.0	1.0	47.3*	43.9*	41.2	44.1

TABLE 5. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Osborn	Chillico	Novelty	Mean	Osborn	Chillico	Novelty	Mean
Terra-E364	1.0	1.0	1.0	1.0	48.6*	42.6	41.0	44.1
Stine 3570	1.0	1.0	1.0	1.0	47.7*	43.3*	39.7	43.6
HS90-3653	1.0	1.0	1.0	1.0	46.6	42.5	41.4	43.5
<b>AVERAGE</b>	<b>1.0</b>	<b>1.0</b>	<b>1.2</b>	<b>1.1</b>	<b>46.1</b>	<b>42.9</b>	<b>41.0</b>	<b>43.3</b>
L.S.D. AT .10	NS	0.2	0.5	0.2	3.6	5.5	4.7	3.0
C.V. %					5.7	9.3	8.3	8.9
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
Kruger K-4040	1.0	1.0	1.0	1.0	51.8**	45.6*	41.2*	46.2**
Cisne	1.0	1.0	2.5	1.5	49.6*	47.6**	40.5*	45.9*
Kruger K-4101+	1.0	1.0	1.0	1.0	49.7*	45.8*	39.3*	44.9*
Ohlde 4040	1.0	1.0	1.6	1.2	51.3*	41.6	40.0*	44.3*
Northrup King S42-60	1.0	1.0	2.1	1.4	47.9	43.3*	41.1*	44.1*
Dekalb CX411	1.0	1.0	1.2	1.1	46.2	43.9*	41.7*	43.9*
Stressland	1.0	1.0	1.2	1.1	47.9	45.0*	37.2	43.4
Merschman Nashville	1.0	1.2	2.0	1.4	50.2*	41.9	37.8*	43.3
Golden Harvest H-1407	1.0	1.0	1.1	1.0	47.6	43.1*	39.2*	43.3
Reeds Brand 445	1.2	1.3	2.9	1.8	47.9	43.4*	38.0*	43.1
Kruger K-4004	1.0	1.0	1.0	1.0	48.7*	45.5*	35.1	43.1
MFA Morsoy 8842	1.0	1.0	1.1	1.0	48.3*	43.2*	37.4*	43.0
Magellan	1.0	1.2	2.6	1.6	47.1	43.0*	38.9*	43.0
Ohlde 4097N	1.0	1.0	1.1	1.0	47.5	45.1*	35.5	42.7
Calhoun	1.0	1.0	1.0	1.0	47.2	40.7	39.4*	42.4
Dyna-Gro 3400	1.0	1.0	1.2	1.1	44.9	42.0	39.7*	42.2
Pioneer Variety 9452	1.0	1.0	1.2	1.1	46.7	40.9	39.0*	42.2
Heartland AP-40	1.0	1.0	1.1	1.0	46.0	42.5*	37.9*	42.1
Merschman Richmond II	1.0	1.2	2.5	1.6	47.2	41.1	37.8*	42.0
Terra-TS402	1.0	1.0	1.0	1.0	47.0	40.3	37.8*	41.7
Merschman Cleveland III	1.0	1.1	1.8	1.3	46.0	36.2	42.5**	41.6
Dyna-Gro 3410	1.0	1.0	1.1	1.0	46.2	43.9*	34.4	41.5
AgriPro AP 4100	1.0	1.0	1.1	1.0	46.4	40.3	37.3*	41.3
Golden Harvest H-1432	1.0	1.0	1.2	1.1	43.7	44.7*	35.4	41.3
Merschman Houston III	1.0	1.0	2.0	1.3	45.9	41.9	36.0	41.3
Merschman Richmond III	1.0	1.0	1.2	1.1	48.2	40.3	35.4	41.3
Ohlde 4440	1.2	1.3	2.3	1.6	47.4	37.9	36.5	40.6
NC+ 4A10	1.0	1.0	1.1	1.0	48.1	37.1	35.2	40.1
Terra-TS474	1.3	1.8	3.7	2.3	47.3	36.9	35.7	40.0
Kruger K-4101	1.0	1.0	1.0	1.0	45.1	37.9	35.6	39.5
Stine 4650	1.0	1.3	3.3	1.9	45.3	36.6	36.4	39.4
Merschman Dallas	1.0	1.7	3.3	2.0	47.0	35.5	35.0	39.2
Merschman Dallas II	1.0	1.4	1.8	1.4	42.6	36.4	37.1	38.7
Merschman Atlanta III	1.2	1.5	3.4	2.0	46.4	35.4	32.2	38.0
Merschman Austin II	1.0	1.7	2.4	1.7	44.9	38.7	29.4	37.7
Golden Harvest H-1485	1.2	1.3	2.3	1.6	44.8	36.4	31.7	37.6
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E415	1.0	1.0	1.3	1.1	49.5*	44.2*	40.9*	44.9*
Scott's 95140	1.0	1.0	1.0	1.0	47.0	40.4	40.8*	42.7
<b>AVERAGE</b>	<b>1.0</b>	<b>1.1</b>	<b>1.7</b>	<b>1.3</b>	<b>47.2</b>	<b>41.2</b>	<b>37.4</b>	<b>41.9</b>
L.S.D. AT .10	0.1	0.4	0.8	0.3	3.5	5.4	5.2	2.7
C.V. %					3.9	9.6	10.4	8.4
<b>TRIAL AVERAGE</b>	<b>1.0</b>	<b>1.1</b>	<b>1.4</b>	<b>1.1</b>	<b>46.3</b>	<b>42.1</b>	<b>40.0</b>	<b>42.8</b>

\*\* Highest yielding variety in the maturity group.

\* Yield not significantly less than the highest yielding variety at the .10 level during 1995 or .05 level for previous years in the same maturity group.

NS Not significant.

TABLE 6. Performance of Soybean Varieties evaluated near Grand Pass (Saline County) on the Ryland Utlaut Farm during 1995, near Marshall on the Frank Swisher Farm during 1994, and the George Hamilton Farm near Miami during 1992.

Planted: 14 June 1995  
 Harvested: 9, 13 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Heynie Silt Loam  
 Soil Test: pH=5.7, OM=1.7%, P=33, K=382

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Bronco + Scepter  
 Post: Poast, Galaxy, Blazer  
 Irrigation: 0.00 Inches  
 Previous Crop: Corn

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=11.7, June=4.0, July=6.5, Aug.=6.4, Sept.=1.4, TOTAL=30.0 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.
	<b>MATURITY GROUP 3</b>							
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-24							
Kruger K-3525	9-26	31.1	1.5	60.0**	--	--	--	--
Ciba Seeds 3362	10-01	35.3	1.8	58.5*	59.6	60.8*	59.1	59.6
Golden Harvest H-1353	9-29	36.7	1.8	57.8*	68.2*	62.8**	63.0	62.9
MFA Morsoy 9137	10-01	34.6	1.6	56.8*	66.2*	52.6	61.5	58.5
Freedom 4355	10-01	35.9	2.0	55.7*	--	--	--	--
Kruger K-3606	9-28	32.2	1.2	55.6*	--	--	--	--
Lewis 349	9-29	35.6	1.8	55.3	--	--	--	--
Dekalb CX399	10-01	37.6	1.8	55.0	51.7	--	53.4	--
Kruger K-3769+	9-29	35.7	1.6	54.2	69.5*	58.5*	61.9	60.7
Lynks 5373	9-29	35.5	3.2	54.0	67.2*	--	60.6	--
Lewis 390	10-01	36.7	3.6	54.0	--	--	--	--
Terra-Torch	9-29	36.6	1.8	53.7	57.5	56.6	55.6	55.9
Dyna-Gro 3368	9-29	35.7	2.0	53.6	57.6	--	55.6	--
ICI D371	9-29	35.6	1.8	53.1	61.1	60.5*	57.1	58.2
NeCo 7354	9-29	32.8	1.1	53.0	58.8	--	55.9	--
Reeds Brand 390	10-02	35.2	2.1	52.9	59.6	52.8	56.3	55.1
Stine 3660	10-01	36.5	1.2	52.9	--	--	--	--
McAllister Ruler	10-01	35.4	2.1	52.9	--	--	--	--
Merschman Kennedy IV	10-01	35.7	1.9	52.7	62.8*	61.3*	57.8	58.9
Kruger K-3939	10-01	35.6	2.0	52.1	61.8	57.2*	57.0	57.0
Kruger K-3727	9-29	33.3	1.3	51.9	--	--	--	--
Willcross 9435A	10-02	31.3	1.3	51.9	63.8*	--	57.9	--
Ciba Seeds 3388	9-29	36.8	1.3	51.7	--	51.3	--	--
Willcross 9536	10-01	35.2	2.8	51.6	--	--	--	--
Asgrow A3732	10-01	36.7	1.5	51.5	--	--	--	--
Desoy 3717	10-01	36.3	1.5	51.5	--	--	--	--
ICI D396	10-03	37.3	1.8	51.2	59.1	--	55.2	--
Challenger 373	10-01	39.3	1.3	51.2	--	--	--	--
Kruger K-3838	10-01	38.1	1.0	51.2	--	--	--	--
Kruger K-3636	10-01	34.2	1.6	51.0	--	--	--	--
Pioneer Variety 9392	9-29	36.4	1.8	50.4	63.9*	52.4	57.2	55.6
Bergmann-Taylor BT 366STS	9-29	39.3	2.5	50.4	--	--	--	--
MFA Morsoy 9438	10-02	34.2	1.8	50.3	--	--	--	--
NeCo 7392	10-03	33.0	2.0	50.2	63.4*	51.7	56.8	55.1
Resnik	10-01	32.2	1.2	50.2	49.0	44.9	49.6	48.0
Fontanelle 6104	10-01	32.9	1.1	50.1	52.6	--	51.4	--
Asgrow A3834	10-02	32.2	1.3	50.0	--	--	--	--
Probst	9-29	34.7	2.2	49.7	--	--	--	--
Willcross 92A	10-02	34.3	1.6	49.6	64.8*	54.0	57.2	56.1
Merschman Eisenhower III	10-02	37.8	2.9	49.4	64.4*	--	56.9	--
Reeds Brand 330 STS	10-03	38.2	2.3	49.2	--	--	--	--
Corsica	10-01	34.0	2.0	48.7	58.2	--	53.5	--
Pioneer Variety 9381	9-29	32.1	1.5	48.6	65.7*	53.3	57.2	55.9
Pioneer Variety 9362	9-28	32.8	1.2	48.6	71.3**	--	60.0	--
Hamilton	10-01	33.5	1.9	48.6	52.6	--	50.6	--
Merschman Hayes III	10-01	32.7	1.7	48.3	--	--	--	--
MFA Morsoy 8838	10-01	40.8	2.1	48.1	51.4	51.8	49.8	50.4
Freedom 4347	10-01	35.3	1.8	47.6	--	--	--	--
Fontanelle 6100	10-01	35.1	1.8	47.6	58.7	55.9	53.2	54.1

TABLE 6. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.
Willcross 9540#	10-04	40.4	3.4	47.3	--	--	--	--
Flyer	10-02	38.0	1.8	47.2	60.6	51.5	53.9	53.1
Northrup King S39-11	10-01	38.8	3.0	46.9	63.6*	--	55.3	--
Lewis 3900STS	10-01	34.2	2.3	46.6	--	--	--	--
Willcross 9435B	9-29	30.6	1.3	45.9	59.8	--	52.9	--
Macon	10-01	33.9	2.0	45.3	--	--	--	--
Willcross 92B	10-02	33.6	2.0	45.2	58.8	52.9	52.0	52.3
Ray Carroll RC-3894	10-01	36.3	1.3	44.8	--	--	--	--
Stine 3680#	10-04	41.9	4.7	40.0	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E364	9-29	31.0	1.6	50.2	--	--	--	--
HS90-3653	10-01	34.3	1.0	49.9	--	--	--	--
LN89-295	10-01	35.8	1.8	46.9	--	--	--	--
<b>AVERAGE</b>	<b>9-30</b>	<b>35.3</b>	<b>1.9</b>	<b>50.8</b>	<b>59.0</b>	<b>53.4</b>	<b>54.9</b>	<b>54.4</b>
L.S.D. AT .10 <sup>1</sup>	1	2.2	0.8	4.6	9.4	5.9		
C.V. %	0.4	4.6		6.6	9.7	6.8		
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	9-30							
Kruger K-4040	9-29	36.5	2.1	54.8**	--	56.4*	--	--
Pioneer Variety 9452	10-03	33.4	1.7	52.6*	52.9*	--	52.8	--
Dekalb CX411	10-01	36.7	1.1	52.2*	56.0*	--	54.1	--
Lewis 409	10-02	35.5	1.3	51.9*	52.7*	53.1	52.3	52.6
AgriPro AP 4343	10-01	36.1	1.2	51.3*	--	--	--	--
Lewis 448	10-04	39.6	1.6	50.7*	--	--	--	--
Desoy 4114	10-01	37.2	2.7	50.6*	--	--	--	--
Kruger K-4004	10-01	35.7	1.5	50.4	--	--	--	--
Merschman Richmond III	10-03	39.5	2.0	50.1	--	--	--	--
Bergmann-Taylor BT 425	10-01	38.6	1.8	50.1	--	--	--	--
Golden Harvest H-1407	10-01	37.2	1.8	49.7	52.6*	53.9	51.2	52.1
Kruger K-4101+	10-03	36.5	1.9	49.6	41.6	--	45.6	--
Reeds Brand 445	10-04	40.8	3.3	49.3	53.6*	--	51.5	--
Dyna-Gro 3400	10-01	35.0	1.7	49.2	45.7	--	47.5	--
Kruger K-4545SCN	10-02	38.9	1.5	49.2	--	--	--	--
MFA Morsoy 9245SCN	10-03	40.5	1.4	49.1	50.9*	--	50.0	--
MFA Morsoy 9241	10-01	35.2	1.3	49.1	48.3	--	48.7	--
MFA Morsoy 9348	10-05	40.0	3.6	48.9	45.8	--	47.3	--
Cisne	10-02	34.5	1.5	48.7	--	--	--	--
Kruger K-4545	10-04	41.0	3.3	48.5	--	--	--	--
Northrup King S42-60	10-02	35.7	1.9	48.4	52.0*	--	50.2	--
KS4694	10-04	40.3	2.5	48.4	47.4	--	47.9	--
Mycogen 429	10-02	38.4	1.8	48.2	--	--	--	--
Pioneer Variety 9412	10-01	34.7	1.0	48.0	--	--	--	--
Merschman Nashville	10-04	40.6	3.1	48.0	--	--	--	--
MFA Morsoy 9444SCN	10-03	40.9	1.8	47.9	--	--	--	--
Terra-TS402	10-01	34.7	1.4	47.7	46.8	57.2*	47.3	50.6
Kruger K-4646	10-04	37.8	3.9	47.3	--	--	--	--
JMS 4240	10-02	41.9	2.8	47.2	55.7*	--	51.5	--
Kruger K-4444	10-03	42.0	3.1	47.0	--	--	--	--
ICI D414	10-03	37.4	2.7	47.0	50.2*	--	48.6	--
Calhoun	10-01	22.7	1.0	47.0	43.8	--	45.4	--
Challenger 434	10-02	36.6	1.4	46.9	--	--	--	--
Stressland	10-02	37.8	2.0	46.8	48.4	--	47.6	--
Willcross 9447-B	10-05	40.9	3.4	46.6	54.5*	--	50.6	--
Asgrow A4138	10-01	40.4	2.6	46.6	48.1	--	47.4	--
JMS 4788	10-04	40.3	3.4	46.4	53.9*	--	50.2	--
Freedom 4422	10-01	35.4	2.1	46.4	--	--	--	--
Ray Carroll RC-4793	10-05	41.0	3.7	46.4	--	--	--	--
Dekalb CX434	10-01	37.8	1.8	46.3	--	--	--	--

TABLE 6. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.
	Magellan	10-02	35.6	3.2	46.3	48.0	--	47.2
NeCo 7484	10-05	39.3	3.2	46.3	47.4	--	46.8	--
Heartland AP-40	10-01	36.8	1.2	46.2	--	--	--	--
Lynks 5451	10-02	36.3	1.3	46.1	53.0*	--	49.6	--
Dyna-Gro 3410	10-01	37.5	1.8	45.8	--	--	--	--
Merschman Houston III	10-02	39.3	3.1	45.8	53.2*	--	49.5	--
MFA Morsoy 8842	10-01	38.8	2.3	45.8	48.7*	53.2	47.3	49.2
Lynks 5482	10-04	41.7	3.7	45.7	--	--	--	--
LG Seeds LG6453	10-02	37.2	1.7	45.6	--	--	--	--
Ciba Seeds 3474	10-04	41.9	3.3	45.5	--	--	--	--
Mycogen 470	10-05	40.0	3.3	45.4	49.5*	--	47.5	--
Kruger K-4101	10-03	36.8	2.4	45.2	--	--	--	--
NeCo 7465	10-04	37.3	4.1	44.9	--	--	--	--
TN 4-94	10-02	34.8	2.7	44.9	--	--	--	--
Golden Harvest H-1432	10-01	35.8	1.8	44.5	--	--	--	--
Willcross 9447-A	10-04	39.8	3.3	44.4	54.1*	--	49.3	--
Merschman Austin II	10-02	41.8	4.3	44.2	44.7	61.4*	44.5	50.1
Stine 4650	10-04	39.2	3.8	44.1	56.0*	--	50.1	--
Merschman Dallas II	10-02	30.6	1.3	44.0	46.5	58.8*	45.3	49.8
Willcross 9546	10-04	37.5	3.5	43.7	--	--	--	--
Stine 4680	10-05	40.1	3.6	43.7	--	--	--	--
Merschman Dallas	10-04	46.0	4.2	43.1	44.7	49.5	43.9	45.8
Merschman Atlanta III	10-06	38.0	4.0	42.9	54.1*	--	48.5	--
Golden Harvest H-1485	10-05	37.5	3.6	41.4	--	--	--	--
Terra-TS474	10-06	39.0	3.8	40.2	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
United Agri.Prod. UAPX 157	10-01	37.0	2.7	54.5*	--	--	--	--
Terra-E415	9-29	36.0	2.4	50.9*	--	--	--	--
AgriPro EX 4400	10-01	36.3	1.4	46.3	--	--	--	--
5.0 Maturity group Check##	10-06							
<b>AVERAGE</b>	<b>10-03</b>	<b>37.8</b>	<b>2.5</b>	<b>47.3</b>	<b>49.9</b>	<b>54.3</b>	<b>48.6</b>	<b>50.5</b>
L.S.D. AT .10 <sup>1</sup>	2	2.7	0.9	4.2	7.6	6.8		
C.V.%	0.5	5.2		6.4	9.4	7.8		
<b>TRIAL AVERAGE</b>		<b>36.7</b>	<b>2.2</b>	<b>49.0</b>	<b>54.8</b>	<b>53.7</b>	<b>51.9</b>	<b>52.5</b>

<sup>1</sup> LSD for previous years 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

Planted: 15 May 1995  
 Harvested: 25, 28 September 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Mexico Silt Loam  
 Soil Test: pH=6.7, OM=1.6%, P=70, K=258

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=70; K<sub>2</sub>O=90  
 Herbicide: Pre: Squadron  
 Post: Poast+, Basagran  
 Irrigation: 0.00 Inches  
 Previous Crop: Corn

Cyst Nematode Population at Planting: 1760 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=14.5, June=3.9, July=4.4, Aug.=7.1, Sept.=2.3, TOTAL=32.2 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 3</b>							
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-04							
Willcross 92A	9-13	30.1	1.0	46.4**	--	--	--	--
Macon	9-10	26.2	1.0	45.8*	--	--	--	--
Pioneer Variety 9362	9-07	26.8	1.0	45.6*	--	--	--	--
Freedom 4355	9-08	29.8	1.0	45.6*	--	--	--	--
NeCo 7354	9-08	26.6	1.0	44.8*	--	--	--	--
Asgrow A3834	9-12	30.6	1.0	44.8*	--	--	--	--
Kruger K-3769+	9-07	28.1	1.0	44.3*	--	--	--	--
Stine 3680#	9-17	34.6	1.3	44.2*	--	--	--	--
Pioneer Variety 9392	9-12	32.1	1.0	44.2*	--	--	--	--
Northrup King S39-11	9-12	31.9	1.0	43.9*	--	--	--	--
Desoy 3717	9-08	29.2	1.0	43.7*	--	--	--	--
Lewis 390	9-12	30.8	1.0	42.8*	--	--	--	--
Willcross 92B	9-14	29.6	1.0	42.4*	--	--	--	--
Willcross 9435A	9-10	27.7	1.0	42.1*	--	--	--	--
Stine 3660	9-08	25.3	1.0	41.8*	--	--	--	--
Kruger K-3525	9-04	24.4	1.0	41.7*	--	--	--	--
Golden Harvest H-1353	9-07	30.5	1.0	41.7*	--	--	--	--
Kruger K-3606	9-04	25.9	1.0	41.6*	--	--	--	--
Willcross 9536	9-11	30.8	1.0	41.3*	--	--	--	--
Willcross 9540#	9-15	33.5	1.0	41.2*	--	--	--	--
Dyna-Gro 3368	9-09	28.9	1.0	41.1*	--	--	--	--
MFA Morsoy 8838	9-09	31.0	1.0	41.0*	--	--	--	--
Pioneer Variety 9381	9-06	25.2	1.0	40.8*	--	--	--	--
Merschman Kennedy IV	9-09	30.7	1.0	40.7*	--	--	--	--
Fontanelle 6100	9-11	28.7	1.0	40.6*	--	--	--	--
Challenger 373	9-10	28.4	1.0	40.6*	--	--	--	--
Kruger K-3838	9-08	32.5	1.0	40.4*	--	--	--	--
Probst	9-07	27.5	1.0	40.4*	--	--	--	--
Reeds Brand 390	9-12	27.9	1.0	40.3*	--	--	--	--
Merschman Hayes III	9-11	28.3	1.0	40.2*	--	--	--	--
Kruger K-3939	9-09	31.2	1.0	39.7	--	--	--	--
Bergmann-Taylor BT 366STS	9-08	33.1	1.0	39.5	--	--	--	--
Asgrow A3732	9-10	30.2	1.2	39.2	--	--	--	--
Ciba Seeds 3362	9-09	28.5	1.0	39.1	--	--	--	--
Lewis 349	9-10	29.2	1.0	39.1	--	--	--	--
MFA Morsoy 9137	9-10	29.0	1.0	39.0	--	--	--	--
Freedom 4347	9-07	33.3	1.0	38.9	--	--	--	--
Merschman Eisenhower III	9-10	30.9	1.0	38.8	--	--	--	--
Corsica	9-10	28.9	1.0	38.5	--	--	--	--
McAllister Ruler	9-10	29.2	1.0	38.2	--	--	--	--
Willcross 9435B	9-11	25.3	1.0	38.1	--	--	--	--
ICI D396	9-10	28.6	1.2	38.1	--	--	--	--
Lynks 5373	9-08	28.3	1.0	37.8	--	--	--	--
Dekalb CX399	9-08	30.5	1.2	37.8	--	--	--	--
Flyer	9-13	28.8	1.0	37.7	--	--	--	--
Kruger K-3727	9-07	25.5	1.0	37.5	--	--	--	--
NeCo 7392	9-12	29.6	1.0	37.4	--	--	--	--
Lewis 3900STS	9-11	28.7	1.0	37.2	--	--	--	--
Hamilton	9-12	26.5	1.0	37.1	--	--	--	--
Fontanelle 6104	9-12	29.5	1.0	37.0	--	--	--	--

TABLE 7. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	Reeds Brand 330 STS	9-13	27.8	1.2	36.8	--	--	--
Kruger K-3636	9-08	27.8	1.0	36.3	--	--	--	--
ICI D371	9-07	27.5	1.0	36.1	--	--	--	--
Ciba Seeds 3388	9-04	28.7	1.0	35.8	--	--	--	--
Terra-Torch	9-09	29.3	1.0	35.7	--	--	--	--
Ray Carroll RC-3894	9-09	33.2	1.0	34.8	--	--	--	--
MFA Morsoy 9438	9-08	27.9	1.0	34.6	--	--	--	--
Resnik	9-08	26.8	1.0	34.6	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E364	9-09	27.0	1.0	43.2*	--	--	--	--
LN89-295	9-10	27.5	1.0	41.1*	--	--	--	--
HS90-3653	9-08	26.6	1.0	38.4	--	--	--	--
<b>AVERAGE</b>	<b>9-10</b>	<b>29.0</b>	<b>1.0</b>	<b>40.1</b>				
L.S.D. AT .10 <sup>1</sup>	<b>2</b>	<b>3.3</b>	<b>0.1</b>	<b>6.6</b>				
C.V.%	<b>0.6</b>	<b>8.3</b>		<b>12.0</b>				
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	9-12							
Golden Harvest H-1407	9-12	31.3	1.0	50.1**	--	--	--	--
MFA Morsoy 9348	9-19	35.7	1.7	50.1**	--	--	--	--
Pioneer Variety 9412	9-12	30.0	1.0	49.8*	--	--	--	--
Cisne	9-14	32.0	1.0	49.0*	--	--	--	--
MFA Morsoy 9444SCN	9-22	35.0	1.7	48.6*	--	--	--	--
Asgrow A4138	9-13	32.3	1.0	48.1*	--	--	--	--
MFA Morsoy 8842	9-14	37.0	1.2	47.3*	--	--	--	--
NeCo 7484	9-18	38.3	1.2	47.3*	--	--	--	--
Freedom 4422	9-14	33.7	1.0	46.9*	--	--	--	--
Kruger K-4040	9-12	34.3	1.0	46.5*	--	--	--	--
JMS 4240	9-14	34.7	1.0	46.1*	--	--	--	--
Kruger K-4101+	9-13	32.7	1.2	46.0*	--	--	--	--
Reeds Brand 445	9-16	37.3	1.3	45.9*	--	--	--	--
Dyna-Gro 3400	9-13	30.7	1.0	45.7*	--	--	--	--
Magellan	9-14	35.3	1.0	45.4*	--	--	--	--
TN 4-94	9-11	33.0	1.0	44.9*	--	--	--	--
Dekalb CX434	9-15	34.0	1.0	44.9*	--	--	--	--
Willcross 9447-B	9-16	35.0	1.3	44.7*	--	--	--	--
Terra-TS402	9-14	32.0	1.2	44.6*	--	--	--	--
Kruger K-4545	9-18	36.7	1.7	44.6*	--	--	--	--
Northrup King S42-60	9-14	33.3	1.5	44.3*	--	--	--	--
Challenger 434	9-14	32.3	1.0	44.2*	--	--	--	--
Merschman Dallas	9-21	45.7	2.3	44.2*	--	--	--	--
Merschman Austin II	9-16	39.3	1.7	44.2*	--	--	--	--
Lewis 409	9-14	32.0	1.0	44.1*	--	--	--	--
Kruger K-4545SCN	9-14	34.7	1.0	43.9*	--	--	--	--
Kruger K-4444	9-16	34.3	1.0	43.5	--	--	--	--
Stine 4680	9-16	34.7	1.7	43.5	--	--	--	--
MFA Morsoy 9245SCN	9-16	36.3	1.0	43.4	--	--	--	--
Golden Harvest H-1485	9-18	36.7	1.3	43.1	--	--	--	--
Stine 4650	9-18	36.3	1.8	42.9	--	--	--	--
AgriPro AP 4343	9-13	31.0	1.0	42.8	--	--	--	--
Merschman Nashville	9-17	35.3	1.3	42.6	--	--	--	--
Mycogen 429	9-15	34.3	1.0	42.5	--	--	--	--
Merschman Richmond III	9-16	36.3	1.0	42.5	--	--	--	--
Merschman Houston III	9-17	37.0	1.0	42.4	--	--	--	--
Lewis 448	9-15	33.0	1.0	42.3	--	--	--	--
Kruger K-4004	9-13	31.3	1.0	42.3	--	--	--	--
ICI D414	9-15	35.0	1.2	42.3	--	--	--	--
Dyna-Gro 3410	9-14	31.0	1.0	41.7	--	--	--	--
Lynks 5451	9-14	33.3	1.0	41.4	--	--	--	--



TABLE 7. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	Bergmann-Taylor BT 425	9-15	34.7	1.0	41.3	--	--	--
Merschman Dallas II	9-18	30.7	1.3	41.1	--	--	--	--
Willcross 9546	9-17	33.3	2.0	41.1	--	--	--	--
JMS 4788	9-17	36.3	1.5	41.0	--	--	--	--
Lynks 5482	9-18	37.7	1.3	40.9	--	--	--	--
Mycogen 470	9-17	38.3	1.5	40.9	--	--	--	--
Désoy 4114	9-13	31.7	1.0	40.7	--	--	--	--
LG Seeds LG6453	9-14	31.7	1.0	40.7	--	--	--	--
Stressland	9-14	32.0	1.0	40.6	--	--	--	--
Ray Carroll RC-4793	9-17	38.0	1.3	40.5	--	--	--	--
Kruger K-4101	9-15	33.0	1.0	40.3	--	--	--	--
Dekalb CX411	9-13	29.3	1.0	40.2	--	--	--	--
Ciba Seeds 3474	9-18	38.7	1.5	40.0	--	--	--	--
Merschman Atlanta III	9-21	35.3	2.0	39.9	--	--	--	--
MFA Morsoy 9241	9-14	32.3	1.0	39.6	--	--	--	--
Golden Harvest H-1432	9-16	31.7	1.2	39.4	--	--	--	--
Kruger K-4646	9-16	33.7	1.5	39.2	--	--	--	--
Terra-TS474	9-18	35.0	2.2	38.8	--	--	--	--
Heartland AP-40	9-13	32.0	1.0	38.4	--	--	--	--
Willcross 9447-A	9-17	36.7	1.3	38.2	--	--	--	--
Calhoun	9-14	26.3	1.2	37.9	--	--	--	--
NeCo 7465	9-16	32.7	1.8	36.2	--	--	--	--
KS4694	9-17	34.0	1.0	35.1	--	--	--	--
Pioneer Variety 9452	9-16	30.0	1.2	33.1	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
United Agri. Prod. UAPX 157	9-14	35.0	1.2	47.1*	--	--	--	--
AgriPro EX 4400	9-15	31.3	1.0	44.9*	--	--	--	--
Terra-E415	9-14	32.7	1.0	44.6*	--	--	--	--
5.0 Maturity group Check##	9-27							
<b>AVERAGE</b>	<b>9-15</b>	<b>34.1</b>	<b>1.2</b>	<b>43.0</b>				
L.S.D. AT .10 <sup>1</sup>	2	2.8	0.3	6.2				
C.V.%	0.5	6.0		10.5				
<b>TRIAL AVERAGE</b>		<b>31.7</b>	<b>1.1</b>	<b>41.6</b>				

<sup>1</sup> LSD for previous years 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 1994-95 and near McKittrick on the Terry Loehnig farm 1992.

Planted: 6 June 1995  
 Harvested: 2 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Mexico Silt Loam  
 Soil Test: pH=6.4, OM=2.7%, P=62, K=252

Fertilizer: N=18; P<sub>2</sub>O<sub>5</sub>=46; K<sub>2</sub>O=60  
 Herbicide: Pre: Dual + Scepter  
 Post: Basagran, Poast+, Agridex  
 Irrigation: 0.00 Inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 1600 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=12.3, June=4.2, July=4.5, Aug.=8.1, Sept.=2.2, TOTAL=31.3 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.
	<b>MATURITY GROUP 3</b>							
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-13							
Fontanelle 6100	9-24	35.0	1.1	51.0**	27.9	60.4*	39.5	46.4
NeCo 7354	9-17	34.6	1.0	50.9*	33.2**	--	42.1	--
Stine 3660	9-19	34.7	1.2	50.2*	--	--	--	--
MFA Morsoy 8838	9-23	41.0	1.5	49.9*	28.7	52.0	39.3	43.5
Asgrow A3834	9-25	33.2	1.0	49.2*	--	--	--	--
Northrup King S39-11	9-22	41.7	1.1	48.8*	26.8	--	37.8	--
Lewis 390	9-24	39.6	1.0	47.2*	--	--	--	--
Kruger K-3525	9-12	31.4	1.5	46.9*	--	--	--	--
Pioneer Variety 9392	9-19	36.5	1.0	46.8*	32.4*	56.8	39.6	45.3
McAllister Ruler	9-17	36.0	1.1	46.7*	--	--	--	--
Lewis 3900STS	9-25	34.7	1.2	46.6*	--	--	--	--
Freedom 4355	9-14	35.4	1.3	46.6*	--	--	--	--
Kruger K-3769+	9-15	34.9	1.2	46.5*	28.8	59.8*	37.7	45.0
Pioneer Variety 9362	9-15	35.2	1.0	46.4*	33.2**	--	39.8	--
ICI D371	9-13	35.9	1.4	46.3*	29.2*	59.7*	37.8	45.1
Hamilton	9-20	35.5	1.1	46.3*	27.1	56.5	36.7	43.3
Stine 3680#	10-04	42.5	1.8	46.3*	--	--	--	--
Dyna-Gro 3368	9-17	34.2	1.3	46.2*	28.3	--	37.3	--
Willcross 9536	9-15	34.3	1.3	45.9*	--	--	--	--
Willcross 9435B	9-15	33.2	1.0	45.8*	30.4*	--	38.1	--
Kruger K-3939	9-16	36.3	1.1	45.7	25.2	60.3*	35.5	43.7
Merschman Kennedy IV	9-16	35.7	1.3	45.4	25.4	58.0*	35.4	42.9
Golden Harvest H-1353	9-15	34.8	1.2	45.1	26.8	62.3*	36.0	44.7
Merschman Hayes III	9-21	34.6	1.0	44.9	--	--	--	--
Asgrow A3732	9-17	36.1	1.3	44.7	--	--	--	--
Dekalb CX399	9-17	40.0	1.2	44.7	26.1	--	35.4	--
Reeds Brand 390	9-21	36.8	1.0	44.6	23.8	57.2	34.2	41.9
Willcross 92A	9-23	36.5	1.2	44.5	29.0*	56.5	36.8	43.3
Willcross 92B	9-21	37.7	1.0	44.3	25.2	53.4	34.8	41.0
Corsica	9-22	35.8	1.2	44.1	24.2	59.0*	34.2	42.4
NeCo 7392	9-23	38.1	1.0	44.1	28.3	54.8	36.2	42.4
Reeds Brand 330 STS	9-25	40.8	1.7	44.0	--	--	--	--
Kruger K-3636	9-22	37.0	1.2	43.8	--	--	--	--
Kruger K-3606	9-12	35.7	1.0	43.7	--	--	--	--
Macon	9-20	34.8	1.0	43.5	--	--	--	--
Pioneer Variety 9381	9-16	33.4	1.2	43.3	28.8	61.7*	36.1	44.6
ICI D396	9-21	37.0	1.2	43.3	25.6	--	34.5	--
Resnik	9-17	34.5	1.2	43.3	25.1	50.3	34.2	39.6
MFA Morsoy 9137	9-19	33.2	1.0	43.3	30.0*	58.1*	36.7	43.8
Kruger K-3838	9-18	38.8	1.5	43.0	--	--	--	--
Ciba Seeds 3388	9-14	38.2	1.0	42.9	--	50.5	--	--
Willcross 9435A	9-15	34.7	1.0	42.9	29.2*	--	36.1	--
Freedom 4347	9-16	41.0	1.4	42.6	--	--	--	--
Merschman Eisenhower III	9-22	37.4	1.2	42.6	25.3	--	34.0	--
Probst	9-15	35.4	1.0	42.5	--	--	--	--
Fontanelle 6104	9-19	36.1	1.2	42.3	23.9	--	33.1	--
Terra-Torch	9-15	35.6	1.0	42.2	26.5	61.5*	34.4	43.4
Challenger 373	9-17	37.4	1.3	42.2	--	--	--	--
Willcross 9540#	9-27	40.2	1.5	42.2	--	--	--	--
Lynks 5373	9-16	35.9	1.0	42.2	27.3	--	34.8	--

TABLE 8. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.
Desoy 3717	9-16	36.9	1.3	42.1	--	--	--	--
Bergmann-Taylor BT 366STS	9-16	42.7	1.2	41.6	--	--	--	--
Lewis 349	9-15	35.5	1.0	41.3	--	--	--	--
Kruger K-3727	9-14	36.0	1.0	41.3	--	--	--	--
Ciba Seeds 3362	9-14	33.6	1.0	41.0	28.5	58.7*	34.8	42.7
MFA Morsoy 9438	9-18	36.3	1.5	40.4	--	--	--	--
Flyer	9-21	38.0	1.0	38.9	23.7	56.9	31.3	39.8
Ray Carroll RC-3894	9-16	40.6	1.3	38.5	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E364	9-23	32.4	1.1	48.2*	--	--	--	--
LN89-295	9-21	36.3	1.0	46.5	--	--	--	--
HS90-3653	9-16	33.0	1.2	44.5	--	--	--	--
<b>AVERAGE</b>	<b>9-19</b>	<b>36.4</b>	<b>1.2</b>	<b>44.6</b>	<b>26.3</b>	<b>56.5</b>	<b>35.4</b>	<b>42.5</b>
<b>L.S.D. AT .10<sup>1</sup></b>	<b>3</b>	<b>2.1</b>	<b>0.4</b>	<b>5.2</b>	<b>4.2</b>	<b>5.9</b>		
<b>C.V. %</b>	<b>0.8</b>	<b>4.3</b>		<b>8.5</b>	<b>9.7</b>	<b>6.5</b>		
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	9-19							
Lynks 5482	10-01	40.5	1.7	49.5**	--	--	--	--
Magellan	9-27	40.1	1.5	48.6*	37.8*	--	43.2	--
Golden Harvest H-1407	9-25	35.2	1.0	47.9*	36.2*	60.8	42.1	48.3
Willcross 9447-B	10-01	38.2	1.2	47.9*	38.4*	--	43.2	--
Merschman Nashville	10-01	42.3	1.2	47.5*	--	--	--	--
Terra-TS474	10-03	39.6	2.0	47.4*	--	--	--	--
MFA Morsoy 9348	10-03	40.6	1.3	47.2*	34.8	--	41.0	--
MFA Morsoy 9444SCN	10-03	40.9	1.5	46.9*	--	--	--	--
Merschman Atlanta III	10-01	38.4	1.8	46.8*	32.3	--	39.6	--
Dyna-Gro 3410	9-26	35.9	1.2	46.8*	--	--	--	--
Cisne	9-25	34.1	1.0	46.7*	--	--	--	--
Mycogen 470	10-03	42.9	1.8	46.1*	36.8*	--	41.5	--
Ciba Seeds 3474	10-02	41.2	1.5	46.1*	--	--	--	--
NeCo 7484	10-03	41.9	1.8	45.9*	33.3	--	39.6	--
Ray Carroll RC-4793	10-03	41.5	1.5	45.6*	--	--	--	--
MFA Morsoy 8842	9-25	40.4	1.3	45.3*	31.8	60.2	38.6	45.8
Kruger K-4545	10-02	42.6	1.3	45.0	--	--	--	--
Golden Harvest H-1485	10-03	43.1	1.5	45.0	--	--	--	--
LG Seeds LG6453	9-27	33.8	1.0	44.9	--	--	--	--
Dyna-Gro 3400	9-27	33.7	1.0	44.9	34.2	--	39.6	--
Terra-TS402	9-22	33.6	1.0	44.7	32.9	57.8	38.8	45.1
Freedom 4422	9-26	34.7	1.2	44.4	--	--	--	--
Kruger K-4040	9-22	35.0	1.0	44.2	--	58.1	--	--
Lewis 448	10-01	36.0	1.2	44.2	--	--	--	--
Pioneer Variety 9412	9-24	35.0	1.2	44.1	--	--	--	--
MFA Morsoy 9245SCN	9-29	41.5	1.2	44.1	36.8*	--	40.5	--
JMS 4788	10-02	41.5	1.5	44.1	31.9	--	38.0	--
Calhoun	9-21	24.4	1.0	44.1	39.6*	--	41.9	--
Stressland	9-26	40.4	1.2	44.0	34.5	--	39.3	--
Northrup King S42-60	9-26	36.9	1.2	44.0	27.7	--	35.9	--
Kruger K-4101	9-25	36.7	1.0	43.9	--	--	--	--
Willcross 9447-A	10-02	40.8	1.3	43.9	34.7	--	39.3	--
Stine 4680	10-05	37.1	1.5	43.8	--	--	--	--
Pioneer Variety 9452	9-28	32.1	1.3	43.8	35.2*	--	39.5	--
JMS 4240	9-26	40.0	1.2	43.7	36.6*	--	40.2	--
Merschman Richmond III	9-27	39.1	1.0	43.6	--	--	--	--
Asgrow A4138	9-25	41.1	1.3	43.4	34.0	--	38.7	--
Kruger K-4646	9-28	39.6	1.5	43.4	--	--	--	--
Stine 4650	10-01	36.8	1.8	43.3	37.6*	--	40.5	--
KS4694	10-03	37.6	1.2	43.2	38.7*	--	41.0	--
NeCo 7465	10-01	39.0	1.5	43.2	--	--	--	--
Merschman Houston III	9-29	40.0	1.7	43.1	34.7	--	38.9	--

TABLE 8. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.
	Challenger 434	9-25	39.1	1.0	43.1	--	--	--
Merschman Dallas II	10-01	31.0	1.0	42.9	41.0**	57.1	42.0	47.0
TN 4-94	9-27	42.2	1.8	42.7	--	--	--	--
Kruger K-4545SCN	9-27	41.1	1.0	42.5	--	--	--	--
ICI D414	9-27	38.9	1.0	42.4	33.2	--	37.8	--
Desoy 4114	9-21	33.5	1.0	42.3	--	--	--	--
Reeds Brand 445	10-01	42.1	1.5	42.0	36.9*	--	39.5	--
Heartland AP-40	9-25	39.3	1.0	41.9	--	--	--	--
Lewis 409	9-22	35.9	1.0	41.7	38.0*	58.6	39.9	46.1
Dekalb CX434	9-23	38.1	1.0	41.6	--	--	--	--
Willcross 9546	10-01	37.3	1.3	41.5	--	--	--	--
Merschman Dallas	10-01	45.8	2.0	41.4	37.4*	58.6	39.4	45.8
Dekalb CX411	9-23	33.5	1.0	41.4	26.1	--	33.8	--
Lynks 5451	9-26	39.6	1.0	41.3	37.5*	--	39.4	--
MFA Morsoy 9241	9-23	35.6	1.2	41.2	31.0	--	36.1	--
Kruger K-4004	9-25	36.3	1.2	40.9	--	--	--	--
AgriPro AP 4343	9-23	33.9	1.0	40.4	--	--	--	--
Merschman Austin II	9-26	46.3	2.3	40.1	34.8	51.9	37.5	42.3
Golden Harvest H-1432	9-29	33.7	1.2	39.8	--	--	--	--
Kruger K-4444	9-28	38.5	1.5	39.1	--	--	--	--
Kruger K-4101 +	9-21	37.0	1.2	38.4	33.1	--	35.8	--
Mycogen 429	9-26	42.5	1.2	37.6	--	--	--	--
Bergmann-Taylor BT 425	9-24	40.3	1.0	37.0	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
United Agri.Prod. UAPX 157	9-25	35.2	1.5	48.3*	--	--	--	--
Terra-E415	9-25	39.7	1.3	45.5*	--	--	--	--
AgriPro EX 4400	9-23	36.1	1.2	44.3	--	--	--	--
5.0 Maturity group Check##	10-06							
<b>AVERAGE</b>	<b>9-28</b>	<b>38.2</b>	<b>1.3</b>	<b>43.8</b>	<b>34.8</b>	<b>56.9</b>	<b>39.3</b>	<b>45.2</b>
L.S.D. AT .10 <sup>1</sup>	3	3.5	0.4	4.2	5.9	7.4		
C.V.%	0.8	6.7		7.0	10.4	8.0		
<b>TRIAL AVERAGE</b>		<b>37.4</b>	<b>1.2</b>	<b>44.2</b>	<b>30.3</b>	<b>56.7</b>	<b>37.2</b>	<b>43.7</b>

<sup>1</sup> LSD for previous years 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 9. Performance of Soybean Varieties evaluated at three Central Missouri locations (Grand Pass, Columbia and High Hill) during 1995.

<b>Grand Pass</b> Planted: 14 June 1995 Harvested: 9, 13 October 1995 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: 30.0 In.	<b>Columbia</b> Planted: 15 May 1995 Harvested: 25, 28 September 1995 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A.  Soil Type: Mexico Silt Loam Previous Crop: Corn SCN Pop.: 1760 Eggs G. Season Moisture: 32.2 In.	<b>High Hill</b> Planted: 6 June 1995 Harvested: 2 October 1995 Row Spacing: 30 Inches Planted Pop.: 156,800 Sds/A.  Soil Type: Mexico Silt Loam Previous Crop: Corn SCN Pop.: 1600 Eggs G. Season Moisture: 31.3 In.
--	--	--

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Gr.Pass	Colmba	H.Hill	Mean	Gr.Pass	Columbia	H.Hill	Mean
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
NeCo 7354	1.1	1.0	1.0	1.0	53.0	44.8*	50.9*	49.6**
Kruger K-3525	1.5	1.0	1.5	1.3	60.0**	41.7*	46.9*	49.5*
Freedom 4355	2.0	1.0	1.3	1.4	55.7*	45.6*	46.6*	49.3*
Stine 3660	1.2	1.0	1.2	1.1	52.9	41.8*	50.2*	48.3*
Kruger K-3769+	1.6	1.0	1.2	1.3	54.2	44.3*	46.5*	48.3*
Golden Harvest H-1353	1.8	1.0	1.2	1.3	57.8*	41.7*	45.1	48.2*
Lewis 390	3.6	1.0	1.0	1.9	54.0	42.8*	47.2*	48.0*
Asgrow A3834	1.3	1.0	1.0	1.1	50.0	44.8*	49.2*	48.0*
Pioneer Variety 9392	1.8	1.0	1.0	1.3	50.4	44.2*	46.8*	47.1*
Kruger K-3606	1.2	1.0	1.0	1.1	55.6*	41.6*	43.7	47.0*
Dyna-Gro 3368	2.0	1.0	1.3	1.4	53.6	41.1*	46.2*	47.0*
Pioneer Variety 9362	1.2	1.0	1.0	1.1	48.6	45.6*	46.4*	46.9*
Willcross 92A	1.6	1.0	1.2	1.3	49.6	46.4**	44.5	46.8*
Northrup King S39-11	3.0	1.0	1.1	1.7	46.9	43.9*	48.8*	46.5*
MFA Morsoy 9137	1.6	1.0	1.0	1.2	56.8*	39.0	43.3	46.4*
Fontanelle 6100	1.8	1.0	1.1	1.3	47.6	40.6*	51.0**	46.4*
Merschman Kennedy IV	1.9	1.0	1.3	1.4	52.7	40.7*	45.4	46.3*
Willcross 9536	2.8	1.0	1.3	1.7	51.6	41.3*	45.9*	46.3*
MFA Morsoy 8838	2.1	1.0	1.5	1.5	48.1	41.0*	49.9*	46.3*
Ciba Seeds 3362	1.8	1.0	1.0	1.3	58.5*	39.1	41.0	46.2
Reeds Brand 390	2.1	1.0	1.0	1.4	52.9	40.3*	44.6	45.9
McAllister Ruler	2.1	1.0	1.1	1.4	52.9	38.2	46.7*	45.9
Kruger K-3939	2.0	1.0	1.1	1.4	52.1	39.7	45.7	45.8
Dekalb CX399	1.8	1.2	1.2	1.4	55.0	37.8	44.7	45.8
Desoy 3717	1.5	1.0	1.3	1.3	51.5	43.7*	42.1	45.8
Willcross 9435A	1.3	1.0	1.0	1.1	51.9	42.1*	42.9	45.6
Lewis 349	1.8	1.0	1.0	1.3	55.3	39.1	41.3	45.2
ICI D371	1.8	1.0	1.4	1.4	53.1	36.1	46.3*	45.2
Asgrow A3732	1.5	1.2	1.3	1.3	51.5	39.2	44.7	45.1
Kruger K-3838	1.0	1.0	1.5	1.2	51.2	40.4*	43.0	44.9
Macon	2.0	1.0	1.0	1.3	45.3	45.8*	43.5	44.9
Lynks 5373	3.2	1.0	1.0	1.7	54.0	37.8	42.2	44.7
Challenger 373	1.3	1.0	1.3	1.2	51.2	40.6*	42.2	44.7
Merschman Hayes III	1.7	1.0	1.0	1.2	48.3	40.2*	44.9	44.5
Pioneer Variety 9381	1.5	1.0	1.2	1.2	48.6	40.8*	43.3	44.2
ICI D396	1.8	1.2	1.2	1.4	51.2	38.1	43.3	44.2
Probst	2.2	1.0	1.0	1.4	49.7	40.4*	42.5	44.2
Willcross 92B	2.0	1.0	1.0	1.3	45.2	42.4*	44.3	44.0
Hamilton	1.9	1.0	1.1	1.3	48.6	37.1	46.3*	44.0
NeCo 7392	2.0	1.0	1.0	1.3	50.2	37.4	44.1	43.9
Terra-Torch	1.8	1.0	1.0	1.3	53.7	35.7	42.2	43.9
Corsica	2.0	1.0	1.2	1.4	48.7	38.5	44.1	43.8
Bergmann-Taylor BT 366STS	2.5	1.0	1.2	1.6	50.4	39.5	41.6	43.8
Kruger K-3636	1.6	1.0	1.2	1.3	51.0	36.3	43.8	43.7
Merschman Eisenhower III	2.9	1.0	1.2	1.7	49.4	38.8	42.6	43.6
Willcross 9540	3.4	1.0	1.5	2.0	47.3	41.2*	42.2	43.6
Kruger K-3727	1.3	1.0	1.0	1.1	51.9	37.5	41.3	43.6
Stine 3680	4.7	1.3	1.8	2.6	40.0	44.2*	46.3*	43.5
Ciba Seeds 3388	1.3	1.0	1.0	1.1	51.7	35.8	42.9	43.5
Lewis 3900STS	2.3	1.0	1.2	1.5	46.6	37.2	46.6*	43.5

TABLE 9. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Gr.Pass	Colmba	H.Hill	Mean	Gr.Pass	Columba	H.Hill	Mean
Reeds Brand 330 STS	2.3	1.2	1.7	1.7	49.2	36.8	44.0	43.3
Willcross 9435B	1.3	1.0	1.0	1.1	45.9	38.1	45.8*	43.3
Fontanelle 6104	1.1	1.0	1.2	1.1	50.1	37.0	42.3	43.1
Freedom 4347	1.8	1.0	1.4	1.4	47.6	38.9	42.6	43.0
Resnik	1.2	1.0	1.2	1.1	50.2	34.6	43.3	42.7
MFA Morsoy 9438	1.8	1.0	1.5	1.4	50.3	34.6	40.4	41.8
Flyer	1.8	1.0	1.0	1.3	47.2	37.7	38.9	41.3
Ray Carroll RC-3894	1.3	1.0	1.3	1.2	44.8	34.8	38.5	39.4
<b>EXPERIMENTAL VARIETIES</b>								
Terra-E364	1.6	1.0	1.1	1.2	50.2	43.2*	48.2*	47.2*
LN89-295	1.8	1.0	1.0	1.3	46.9	41.1*	46.5	44.8
HS90-3653	1.0	1.0	1.2	1.1	49.9	38.4	44.5	44.3
<b>AVERAGE</b>	<b>1.9</b>	<b>1.0</b>	<b>1.2</b>	<b>1.4</b>	<b>50.8</b>	<b>40.1</b>	<b>44.6</b>	<b>45.2</b>
L.S.D. AT .10	<b>0.8</b>	<b>0.1</b>	<b>0.4</b>	<b>0.3</b>	<b>4.6</b>	<b>6.6</b>	<b>5.2</b>	<b>3.3</b>
C.V. %					<b>6.6</b>	<b>12.0</b>	<b>8.5</b>	<b>9.3</b>
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
Golden Harvest H-1407	1.8	1.0	1.0	1.3	49.7	50.1**	47.9*	49.2*
MFA Morsoy 9348	3.6	1.7	1.3	2.2	48.9	50.1**	47.2*	48.7*
Kruger K-4040	2.1	1.0	1.0	1.4	54.8**	46.5*	44.2	48.5*
Cisne	1.5	1.0	1.0	1.2	48.7	49.0*	46.7*	48.1*
MFA Morsoy 9444SCN	1.8	1.7	1.5	1.7	47.9	48.6*	46.9*	47.8*
Pioneer Variety 9412	1.0	1.0	1.2	1.1	48.0	49.8*	44.1	47.3*
Magellan	3.2	1.0	1.5	1.9	46.3	45.4*	48.6*	46.8
Dyna-Gro 3400	1.7	1.0	1.0	1.2	49.2	45.7*	44.9	46.6
NeCo 7484	3.2	1.2	1.8	2.1	46.3	47.3*	45.9*	46.5
Willcross 9447-B	3.4	1.3	1.2	2.0	46.6	44.7*	47.9*	46.4
MFA Morsoy 8842	2.3	1.2	1.3	1.6	45.8	47.3*	45.3*	46.1
Kruger K-4545	3.3	1.7	1.3	2.1	48.5	44.6*	45.0	46.0
Asgrow A4138	2.6	1.0	1.3	1.6	46.6	48.1*	43.4	46.0
Merschman Nashville	3.1	1.3	1.2	1.9	48.0	42.6	47.5*	46.0
Freedom 4422	2.1	1.0	1.2	1.4	46.4	46.9*	44.4	45.9
Lewis 409	1.3	1.0	1.0	1.1	51.9*	44.1*	41.7	45.9
JMS 4240	2.8	1.0	1.2	1.7	47.2	46.1*	43.7	45.7
Lewis 448	1.6	1.0	1.2	1.3	50.7*	42.3	44.2	45.7
Reeds Brand 445	3.3	1.3	1.5	2.0	49.3	45.9*	42.0	45.7
Terra-TS402	1.4	1.2	1.0	1.2	47.7	44.6*	44.7	45.7
Northrup King S42-60	1.9	1.5	1.2	1.5	48.4	44.3*	44.0	45.6
MFA Morsoy 9245SCN	1.4	1.0	1.2	1.2	49.1	43.4	44.1	45.5
Lynks 5482	3.7	1.3	1.7	2.2	45.7	40.9	49.5**	45.4
Merschman Richmond III	2.0	1.0	1.0	1.3	50.1	42.5	43.6	45.4
Kruger K-4545SCN	1.5	1.0	1.0	1.2	49.2	43.9*	42.5	45.2
Dyna-Gro 3410	1.8	1.0	1.2	1.3	45.8	41.7	46.8*	44.8
AgriPro AP 4343	1.2	1.0	1.0	1.1	51.3*	42.8	40.4	44.8
Challenger 434	1.4	1.0	1.0	1.1	46.9	44.2*	43.1	44.7
Kruger K-4101+	1.9	1.2	1.2	1.4	49.6	46.0*	38.4	44.7
Dekalb CX411	1.1	1.0	1.0	1.0	52.2*	40.2	41.4	44.6
Kruger K-4004	1.5	1.0	1.2	1.2	50.4	42.3	40.9	44.5
Desoy 4114	2.7	1.0	1.0	1.6	50.6*	40.7	42.3	44.5
Dekalb CX434	1.8	1.0	1.0	1.3	46.3	44.9*	41.6	44.3
Ray Carroll RC-4793	3.7	1.3	1.5	2.2	46.4	40.5	45.6*	44.2
TN 4-94	2.7	1.0	1.8	1.8	44.9	44.9*	42.7	44.2
Mycogen 470	3.3	1.5	1.8	2.2	45.4	40.9	46.1*	44.1
Ciba Seeds 3474	3.3	1.5	1.5	2.1	45.5	40.0	46.1*	43.9
ICI D414	2.7	1.2	1.0	1.6	47.0	42.3	42.4	43.9
Stressland	2.0	1.0	1.2	1.4	46.8	40.6	44.0	43.8
Merschman Houston III	3.1	1.0	1.7	1.9	45.8	42.4	43.1	43.8
JMS 4788	3.4	1.5	1.5	2.1	46.4	41.0	44.1	43.8
LG Seeds LG6453	1.7	1.0	1.0	1.2	45.6	40.7	44.9	43.7
Stine 4680	3.6	1.7	1.5	2.3	43.7	43.5	43.8	43.7
Stine 4650	3.8	1.8	1.8	2.5	44.1	42.9	43.3	43.4

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 9241	1.3	1.0	1.2	1.2	49.1	39.6	41.2	43.3
Kruger K-4646	3.9	1.5	1.5	2.3	47.3	39.2	43.4	43.3
Golden Harvest H-1485	3.6	1.3	1.5	2.1	41.4	43.1	45.0	43.2
Pioneer Variety 9452	1.7	1.2	1.3	1.4	52.6*	33.1	43.8	43.2
Merschman Atlanta III	4.0	2.0	1.8	2.6	42.9	39.9	46.8*	43.2
Kruger K-4444	3.1	1.0	1.5	1.9	47.0	43.5	39.1	43.2
Kruger K-4101	2.4	1.0	1.0	1.5	45.2	40.3	43.9	43.1
Calhoun	1.0	1.2	1.0	1.1	47.0	37.9	44.1	43.0
Merschman Dallas	4.2	2.3	2.0	2.8	43.1	44.2*	41.4	42.9
Lynks 5451	1.3	1.0	1.0	1.1	46.1	41.4	41.3	42.9
Mycogen 429	1.8	1.0	1.2	1.3	48.2	42.5	37.6	42.8
Bergmann-Taylor BT 425	1.8	1.0	1.0	1.3	50.1	41.3	37.0	42.8
Merschman Austin II	4.3	1.7	2.3	2.8	44.2	44.2*	40.1	42.8
Merschman Dallas II	1.3	1.3	1.0	1.2	44.0	41.1	42.9	42.7
KS4694	2.5	1.0	1.2	1.6	48.4	35.1	43.2	42.2
Willcross 9447-A	3.3	1.3	1.3	2.0	44.4	38.2	43.9	42.2
Heartland AP-40	1.2	1.0	1.0	1.1	46.2	38.4	41.9	42.2
Willcross 9546	3.5	2.0	1.3	2.3	43.7	41.1	41.5	42.1
Terra-TS474	3.8	2.2	2.0	2.7	40.2	38.8	47.4*	42.1
NeCo 7465	4.1	1.8	1.5	2.5	44.9	36.2	43.2	41.4
Golden Harvest H-1432	1.8	1.2	1.2	1.4	44.5	39.4	39.8	41.2
<b>EXPERIMENTAL VARIETIES</b>								
United Agri.Prod. UAPX 157	2.7	1.2	1.5	1.8	54.5*	47.1*	48.3*	50.0**
Terra-E415	2.4	1.0	1.3	1.6	50.9*	44.6*	45.5*	47.0*
AgriPro EX 4400	1.4	1.0	1.2	1.2	46.3	44.9*	44.3*	45.2
<b>AVERAGE</b>	<b>2.5</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>	<b>47.3</b>	<b>43.0</b>	<b>43.8</b>	<b>44.7</b>
<b>L.S.D. AT .10</b>	<b>0.9</b>	<b>0.3</b>	<b>0.4</b>	<b>0.4</b>	<b>4.2</b>	<b>6.2</b>	<b>4.2</b>	<b>3.0</b>
<b>C.V. %</b>					<b>6.4</b>	<b>10.5</b>	<b>7.0</b>	<b>8.7</b>
<b>TRIAL AVERAGE</b>	<b>2.2</b>	<b>1.1</b>	<b>1.2</b>	<b>1.5</b>	<b>49.0</b>	<b>41.6</b>	<b>44.2</b>	<b>44.9</b>

\*\* 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 1994-95 and near Nevada (Vernon County) on the Gilbert Wilson Farm during 1993.

Planted: 15 June 1995  
 Harvested: 3, 17 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Haig Silt Loam  
 Soil Test: pH=5.7, OM=2.3%, P=32, K=218

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Bronco + Scepter  
 Post: Blazer, Poast+  
 Irrigation: 0.00 Inches  
 Previous Crop: Popcorn

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=13.6, June=7.8, July=4.3, Aug.=3.6, Sept.=1.7, TOTAL=31.0 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

3.0 Maturity Group Check##	9-12							
Pioneer Variety 9392	9-26	34.3	1.0	37.6**	46.9	29.9	42.3	38.1
Macon	9-26	34.0	1.0	36.1*	--	--	--	--
Hamilton	9-22	30.7	1.0	35.4*	47.7	33.8*	41.6	39.0
Pioneer Variety 9362	9-19	33.3	1.0	34.8*	--	--	--	--
Willcross 92-B	9-26	34.0	1.0	34.7	46.4	32.7*	40.6	37.9
Corsica	9-25	33.3	1.2	34.6	46.5	31.0*	40.6	37.4
Golden Harvest H-1353	9-21	34.0	1.2	34.4	42.8	30.9*	38.6	36.0
NeCo 7392	9-26	31.3	1.0	33.7	39.9	36.3**	36.8	36.6
Willcross 92-A	9-26	33.3	1.0	33.5	47.7	33.1*	40.6	38.1
Willcross 9540	9-26	36.0	1.0	33.4	--	--	--	--
Ciba 3362	9-21	32.7	1.0	33.2	43.1	--	38.2	--
Ciba 3388	9-18	33.0	1.0	32.5	--	--	--	--
Probst	9-18	30.0	1.0	32.5	--	--	--	--
Midland Seeds 8393	9-25	37.0	1.3	31.9	47.8	--	39.8	--
Terra Torch	9-21	31.7	1.0	31.6	39.9	29.4	35.8	33.6
Golden Harvest H-1388	9-22	33.3	1.0	31.2	44.3	32.2*	37.8	35.9
Pioneer Variety 9381	9-18	31.0	1.0	30.5	42.7	26.9	36.6	33.4

**EXPERIMENTAL VARIETIES**

HS90-3653	9-21	29.7	1.0	29.9	--	--	--	--
<b>AVERAGE</b>	<b>9-23</b>	<b>32.9</b>	<b>1.0</b>	<b>33.4</b>	<b>44.5</b>	<b>30.9</b>	<b>39.0</b>	<b>36.3</b>
L.S.D. AT .10 <sup>1</sup>	2	2.5	NS	2.8	NS	5.5		
C.V.%	0.6	5.5		6.2	11.5	11.0		

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

4.0 Maturity Group Check##	9-26							
Dyna-Gro 3400	9-25	33.8	1.0	34.1**	51.0*	34.8	42.6	40.0
KS4694	10-01	36.2	1.2	33.0*	55.0*	36.0	44.0	41.3
Dekalb CX434	9-27	37.0	1.0	32.9*	--	--	--	--
Calhoun	9-28	28.8	1.0	32.6*	47.8	--	40.2	--
Midland Seeds 8413	10-01	35.1	1.0	32.5*	52.3*	--	42.4	--
Merschman Nashville	10-01	41.0	1.2	32.2*	--	--	--	--
Stine 4340	10-01	38.0	1.3	32.2*	53.1*	--	42.7	--
Terra TS 402	9-24	34.2	1.0	32.1*	48.3	35.3	40.2	38.6
Midland Seeds 8410	9-25	34.2	1.0	31.9*	51.8*	--	41.8	--
Merschman Richmond III	9-27	40.3	1.0	31.0	--	--	--	--
Cisne	9-26	30.3	1.0	30.9	--	--	--	--
MFA Morsoy 9241	9-25	34.2	1.0	30.8	48.1	--	39.5	--
Northrup King S46-44	10-01	39.0	1.0	30.8	51.2*	35.7	41.0	39.2
Stressland	9-28	38.6	1.0	30.7	51.8*	--	41.3	--
Magellan	9-29	36.4	1.3	30.5	49.3	--	39.9	--
Merschman Houston III	10-01	40.8	1.5	30.1	49.0	--	39.6	--
Ciba 3474	10-01	38.4	1.2	30.0	49.9*	--	40.0	--
Reeds Brand 445	10-01	41.9	1.0	29.8	55.6*	37.8*	42.7	41.1
Northrup King S42-60	9-27	37.2	1.0	29.7	52.6*	--	41.2	--
Midland Seeds 8475	10-02	38.5	1.2	29.7	--	--	--	--



TABLE 10. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	MFA Morsoy 9444SCN	10-01	38.2	1.0	29.4	--	--	--
Terra TS 474	10-04	39.8	1.3	29.4	54.8*	--	42.1	--
MFA Morsoy 9245SCN	9-28	39.8	1.0	29.2	47.7	--	38.5	--
Willcross 9447-B	10-01	40.2	1.2	29.2	48.5	--	38.9	--
Mycogen 470	10-01	39.6	1.0	28.8	--	--	--	--
Golden Harvest H-1485	10-01	41.2	1.2	28.7	--	--	--	--
Merschman Dallas II	10-03	34.5	1.2	28.7	51.6*	37.9*	40.2	39.4
Merschman Dallas	10-01	45.0	1.7	28.6	45.3	32.0	37.0	35.3
Dekalb CX445	9-27	36.5	1.0	28.5	52.6*	--	40.6	--
Willcross 9546	10-02	36.1	1.2	28.1	--	--	--	--
Pioneer Variety 9452	9-28	31.2	1.0	28.1	52.4*	--	40.3	--
Merschman Austin II	9-28	43.4	1.7	27.9	49.4	32.3	38.7	36.5
NeCo 7484	10-01	40.5	1.2	27.8	--	--	--	--
AgraTech FFR 493	10-01	38.4	1.2	27.5	--	--	--	--
MFA Morsoy 9348	10-01	40.2	1.0	27.3	52.8*	--	40.1	--
NeCo 7465	10-02	36.5	1.3	27.1	--	--	--	--
KY 461	9-29	41.0	1.0	26.9	51.0*	--	39.0	--
Stine 4680	10-03	36.2	1.0	26.9	57.2**	--	42.1	--
Willcross 9447-A	10-01	39.8	1.2	26.7	49.8*	--	38.3	--
Merschman Atlanta III	10-04	38.2	1.5	26.4	49.4	35.4	37.9	37.1
MFA Morsoy 8842	9-24	40.7	1.2	26.1	49.1	34.6	37.6	36.6
TN 4-94	10-03	44.6	1.8	25.4	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
Dyna-Gro UAPX-157	9-23	37.3	1.2	33.0*	--	--	--	--
Terra E415	9-23	33.5	1.2	32.3*	--	--	--	--
Midland Seeds XP481	10-01	39.9	1.0	29.9	--	--	--	--
Midland Seeds XP491	10-01	37.8	1.2	29.8	--	--	--	--
Midland Seeds XP48N	10-01	40.3	1.3	28.7	--	--	--	--
<b>AVERAGE</b>	<b>10-01</b>	<b>38.0</b>	<b>1.2</b>	<b>29.7</b>	<b>50.4</b>	<b>34.2</b>	<b>40.0</b>	<b>38.1</b>
L.S.D. AT .10 <sup>1</sup>	1	2.4	0.3	3.0	7.6	4.4		
C.V. %	0.3	4.6		7.4	9.2	8.0		
<b>MATURITY GROUP 5</b>								
<b>COMMERCIAL VARIETIES</b>								
5.0 Maturity Group Check##	10-05							
NC+ 5A44	10-09	37.3	1.2	26.6**	--	--	--	--
Holladay	10-08	34.0	1.4	25.9*	52.4*	32.7	39.2	37.0
Hutcheson	10-12	36.3	1.5	25.0*	44.7	33.1	34.9	34.3
Clifford	10-11	37.0	1.5	24.8*	49.7*	27.7	37.3	34.1
NC+ 5H61	10-09	39.0	1.5	23.9*	44.0	27.8	34.0	31.9
Buckshot 55	10-12	38.0	2.0	22.3	46.7	--	34.5	--
TN 5-95	10-09	38.7	1.6	20.6	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
KY88-4080	10-07	28.7	1.2	25.5*	55.2**	--	40.4	--
Buckshot EX58	10-15	40.7	1.4	22.6	--	--	--	--
6.0 Maturity group Check##	10-11							
<b>AVERAGE</b>	<b>10-10</b>	<b>36.6</b>	<b>1.5</b>	<b>24.1</b>	<b>46.6</b>	<b>29.9</b>	<b>35.4</b>	<b>33.5</b>
L.S.D. AT .10 <sup>1</sup>	1	2.3	NS	2.7	7.7	3.3		
C.V. %	0.2	4.5		8.2	10.1	6.8		
<b>TRIAL AVERAGE</b>		<b>36.6</b>	<b>1.2</b>	<b>29.9</b>	<b>48.6</b>	<b>32.3</b>	<b>39.2</b>	<b>36.9</b>

<sup>1</sup> LSD for previous years 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 1993-95.

Planted: 16 June 1995  
 Harvested: 4, 23 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Parsons Silt Loam  
 Soil Test: pH=6.4, OM=1.6%, P=43, K=109

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Lasso + Scepter  
 Post: Poast+  
 Irrigation: 0.00 Inches  
 Previous Crop: Grain Sorghum

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil

Growing Season Rainfall: May=13.4, June=11.6, July=1.1, Aug.=3.0, Sept.=2.1, TOTAL=31.2 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

**3.0 Maturity Group Check##**

Hamilton	9-20	30.2	1.2	37.5**	46.6*	39.8*	42.1	41.3
Willcross 92-B	9-22	33.4	1.0	37.5**	43.5*	37.2	40.5	39.4
Pioneer Variety 9392	9-20	30.7	1.0	37.4*	44.3*	43.7*	40.8	41.8
NeCo 7392	9-22	31.4	1.0	37.2*	47.9**	41.4*	42.6	42.2
Willcross 9540	9-23	32.2	1.0	37.1*	--	--	--	--
Willcross 92-A	9-22	31.5	1.0	36.3*	46.8*	40.4*	41.6	41.2
Pioneer Variety 9362	9-16	30.7	1.0	35.2*	--	--	--	--
Golden Harvest H-1388	9-21	30.9	1.2	34.3*	45.4*	39.2	39.8	39.6
Golden Harvest H-1353	9-19	29.4	1.0	33.8*	46.0*	33.5	39.9	37.8
Macon	9-20	29.9	1.2	33.3	--	--	--	--
Corsica	9-21	32.1	1.0	33.1	40.8	39.7	37.0	37.9
Midland Seeds 8393	9-22	33.7	1.0	32.4	47.3*	--	39.8	--
Probst	9-18	29.2	1.0	31.5	--	--	--	--
Ciba 3388	9-16	31.4	1.0	30.5	--	--	--	--
Ciba 3362	9-18	31.4	1.0	30.3	46.7*	--	38.5	--
Terra Torch	9-19	28.7	1.0	30.0	44.6*	37.3	37.3	37.3
Pioneer Variety 9381	9-15	27.7	1.0	26.5	39.7	38.9	33.1	35.0

**EXPERIMENTAL VARIETIES**

HS90-3653	9-19	29.2	1.0	33.5	--	--	--	--
<b>AVERAGE</b>	<b>9-20</b>	<b>30.8</b>	<b>1.0</b>	<b>33.7</b>	<b>44.0</b>	<b>38.6</b>	<b>38.8</b>	<b>38.8</b>
L.S.D. AT .10 <sup>1</sup>	1	2.4	0.2	3.7	5.0	4.5		
C.V. %	0.3	5.7		8.1	7.0	7.3		

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

**4.0 Maturity Group Check##**

MFA Morsoy 9348	9-26	36.7	1.7	40.6**	52.6*	--	46.6	--
Midland Seeds 8475	9-25	31.4	1.3	40.3*	--	--	--	--
Mycogen 470	9-26	36.5	1.5	39.4*	--	--	--	--
Dekalb CX445	9-23	34.6	1.0	38.8*	46.5	--	42.7	--
MFA Morsoy 9444SCN	9-25	32.3	1.2	38.3*	--	--	--	--
MFA Morsoy 9245SCN	9-23	33.9	1.0	37.9*	48.3	--	43.1	--
Merschman Nashville	9-25	36.5	1.7	37.5**	--	--	--	--
Northrup King S46-44	9-25	32.5	1.2	37.2*	56.7**	45.5*	47.0	46.5
Merschman Houston III	9-24	35.0	1.3	37.1*	54.1*	--	45.6	--
Pioneer Variety 9452	9-24	28.4	1.0	36.9*	47.3	--	42.1	--
Merschman Dallas II	9-25	28.7	1.0	36.3*	46.6	23.6	41.5	35.5
Merschman Richmond III	9-23	33.2	1.0	36.1*	--	--	--	--
Cisne	9-23	27.4	1.0	35.8*	--	--	--	--
Stine 4340	9-24	34.7	1.2	35.7*	48.3	--	42.0	--
Reeds Brand 445	9-28	34.9	1.2	35.6*	52.9*	44.6*	44.3	44.4
Stressland	9-23	32.7	1.0	35.3*	44.0	--	39.7	--
KS4694	9-24	29.7	1.0	35.2*	46.6	40.1	40.9	40.6
Dyna-Gro 3400	9-21	28.5	1.0	35.0	49.6*	45.8**	42.3	43.5
Willcross 9447-B	10-02	34.9	1.5	34.9	52.0*	--	43.5	--
MFA Morsoy 8842	9-22	34.5	1.2	34.8	46.0	45.4*	40.4	42.1

TABLE 11. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	Midland Seeds 8413	9-24	29.3	1.0	34.1	51.3*	--	42.7
Willcross 9447-A	10-01	36.1	1.7	34.1	55.2*	--	44.7	--
Golden Harvest H-1485	9-28	34.1	1.5	34.0	--	--	--	--
AgraTech FFR 493	9-27	33.8	1.0	33.8	--	--	--	--
Merschman Austin II	9-24	38.2	1.3	33.6	48.8	37.5	41.2	40.0
TN 4-94	10-05	38.0	2.3	33.5	--	--	--	--
Ciba 3474	9-27	36.4	1.5	33.3	52.6*	--	43.0	--
KY 461	9-24	35.5	1.3	33.2	45.9	--	39.6	--
NeCo 7465	10-04	33.3	1.8	32.9	--	--	--	--
Terra TS 402	9-23	28.1	1.0	32.8	46.7	40.8*	39.8	40.1
Willcross 9546	10-02	31.9	1.5	32.6	--	--	--	--
Dekalb CX434	9-23	31.9	1.0	32.4	--	--	--	--
Midland Seeds 8410	9-20	30.1	1.0	32.2	45.0	--	38.6	--
Calhoun	9-19	22.9	1.0	31.8	42.6	--	37.2	--
MFA Morsoy 9241	9-21	28.5	1.0	31.8	42.4	--	37.1	--
NeCo 7484	10-02	36.1	1.5	31.5	--	--	--	--
Merschman Atlanta III	10-06	33.8	1.8	30.1	49.6*	36.2	39.9	38.6
Terra TS 474	10-04	33.6	1.8	30.0	50.0*	--	40.0	--
Stine 4680	10-04	31.4	1.2	29.8	52.4*	--	41.1	--
Merschman Dallas	9-24	39.7	1.7	29.5	46.4	38.7	38.0	38.2
Northrup King S42-60	9-23	33.4	1.3	29.5	50.7*	--	40.1	--
Magellan	9-22	32.0	1.0	27.0	48.5	--	37.8	--
<b>EXPERIMENTAL VARIETIES</b>								
Midland Seeds XP48N	9-25	35.3	1.5	37.7*	--	--	--	--
Midland Seeds XP481	9-26	35.4	1.5	34.1	--	--	--	--
Dyna-Gro UAPX-157	9-22	32.2	1.0	33.7	--	--	--	--
Terra E415	9-21	29.3	1.0	29.8	--	--	--	--
Midland Seeds XP491	9-25	32.6	1.0	28.0	--	--	--	--
<b>AVERAGE</b>	<b>9-26</b>	<b>33.0</b>	<b>1.3</b>	<b>34.2</b>	<b>47.7</b>	<b>38.6</b>	<b>41.0</b>	<b>40.2</b>
L.S.D. AT .10 <sup>1</sup>	3	2.5	0.4	5.4	7.1	5.3		
C.V. %	0.8	5.5		11.5	9.2	8.5		
<b>MATURITY GROUP 5</b>								
<b>COMMERCIAL VARIETIES</b>								
5.0 Maturity Group Check##	10-05							
Holladay	10-08	28.7	1.3	34.5**	43.0	39.6*	38.8	39.0
NC+ 5H61	10-11	31.0	3.0	32.9*	38.1	39.4*	35.5	36.8
NC+ 5A44	10-11	33.0	1.9	32.8*	--	--	--	--
Clifford	10-10	31.0	1.7	32.7*	39.0	36.9	35.9	36.2
Hutcheson	10-09	31.3	1.6	32.6*	43.2	41.7*	37.9	39.2
Buckshot 55	10-11	31.7	3.4	30.8	41.9	--	36.4	--
TN 5-95	10-09	32.0	2.0	29.4	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
KY88-4080	10-07	25.3	1.1	31.0	45.3*	--	38.2	--
Buckshot EX58	10-12	33.3	1.5	26.6	--	--	--	--
6.0 Maturity Group Check##	10-11							
<b>AVERAGE</b>	<b>10-10</b>	<b>30.8</b>	<b>1.9</b>	<b>31.5</b>	<b>43.1</b>	<b>38.2</b>	<b>37.3</b>	<b>37.6</b>
L.S.D. AT .10 <sup>1</sup>	1	3.1	1.0	2.0	4.5	6.4		
C.V. %	0.2	7.3		4.7	6.4	10.2		
<b>TRIAL AVERAGE</b>								
		<b>32.2</b>	<b>1.3</b>	<b>33.7</b>	<b>46.2</b>	<b>38.5</b>	<b>40.0</b>	<b>39.5</b>

<sup>1</sup> LSD for previous years 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.

TABLE 12. Performance of Soybean Varieties evaluated at two Southwest Missouri locations (Garden City and Lamar) during 1995.

Garden City  
 Planted: 15 June 1995  
 Harvested: 3, 17 Oct. 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A.

Lamar  
 Planted: 16 June 1995  
 Harvested: 4, 23 Oct. 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A.

Soil Type: Haig Silt Loam  
 Previous Crop: Popcorn  
 SCN Population at Planting: 0 Eggs  
 Growing Season Moisture: 31.0 Inches

Soil Type: Parsons Silt Loam  
 Previous Crop: Grain Sorghum  
 SCN Population at Planting: 0 Eggs  
 Growing Season Moisture: 31.2 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 9392	1.0	1.0	1.0	37.6**	37.4*	37.5**
Hamilton	1.0	1.2	1.1	35.4*	37.5**	36.4*
Willcross 92-B	1.0	1.0	1.0	34.7	37.5**	36.1*
NeCo 7392	1.0	1.0	1.0	33.7	37.2*	35.4*
Willcross 9540	1.0	1.0	1.0	33.4	37.1*	35.2*
Pioneer Variety 9362	1.0	1.0	1.0	34.8*	35.2*	35.0*
Willcross 92-A	1.0	1.0	1.0	33.5	36.3*	34.9*
Macon	1.0	1.2	1.1	36.1*	33.3	34.7
Golden Harvest H-1353	1.2	1.0	1.1	34.4	33.8*	34.1
Corsica	1.2	1.0	1.1	34.6	33.1	33.8
Golden Harvest H-1388	1.0	1.2	1.1	31.2	34.3*	32.8
Midland Seeds 8393	1.3	1.0	1.2	31.9	32.4	32.2
Probst	1.0	1.0	1.0	32.5	31.5	32.0
Ciba 3362	1.0	1.0	1.0	33.2	30.3	31.8
Ciba 3388	1.0	1.0	1.0	32.5	30.5	31.5
Terra Torch	1.0	1.0	1.0	31.6	30.0	30.8
Pioneer Variety 9381	1.0	1.0	1.0	30.5	26.5	28.5

#### EXPERIMENTAL VARIETIES

HS90-3653	1.0	1.0	1.0	29.9	33.5	31.7
<b>AVERAGE</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>33.4</b>	<b>33.7</b>	<b>33.6</b>
L.S.D. AT .10	NS	0.2	0.2	2.8	3.7	2.6
C.V.%				6.2	8.1	8.0

### MATURITY GROUP 4

#### COMMERCIAL VARIETIES

Midland Seeds 8475	1.2	1.3	1.2	29.7	40.3*	35.0**
Merschman Nashville	1.2	1.7	1.4	32.2*	37.5*	34.8*
Dyna-Gro 3400	1.0	1.0	1.0	34.1**	35.0	34.6*
KS4694	1.2	1.0	1.1	33.0*	35.2*	34.1*
Mycogen 470	1.0	1.5	1.2	28.8	39.4*	34.1*
Stine 4340	1.3	1.2	1.2	32.2*	35.7*	34.0*
MFA Morsoy 9348	1.0	1.7	1.4	27.3	40.6**	34.0*
Northrup King S46-44	1.0	1.2	1.1	30.8	37.2*	34.0*
MFA Morsoy 9444SCN	1.0	1.2	1.1	29.4	38.3*	33.8*
Merschman Houston III	1.5	1.3	1.4	30.1	37.1*	33.6*
Merschman Richmond III	1.0	1.0	1.0	31.0	36.1*	33.6*
Dekalb CX445	1.0	1.0	1.0	28.5	38.8*	33.6*
MFA Morsoy 9245SCN	1.0	1.0	1.0	29.2	37.9*	33.6*
Cisne	1.0	1.0	1.0	30.9	35.8*	33.4*
Midland Seeds 8413	1.0	1.0	1.0	32.5*	34.1	33.3*
Stressland	1.0	1.0	1.0	30.7	35.3*	33.0*
Reeds Brand 445	1.0	1.2	1.1	29.8	35.6*	32.7*
Dekalb CX434	1.0	1.0	1.0	32.9*	32.4	32.6*
Pioneer Variety 9452	1.0	1.0	1.0	28.1	36.9*	32.5*

TABLE 12. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Gardn Cty	Lamar	Mean
Merschman Dallas II	1.2	1.0	1.1	28.7	36.3*	32.5*
Terra TS 402	1.0	1.0	1.0	32.1*	32.8	32.4*
Calhoun	1.0	1.0	1.0	32.6*	31.8	32.2*
Willcross 9447-B	1.2	1.5	1.4	29.2	34.9	32.0*
Midland Seeds 8410	1.0	1.0	1.0	31.9*	32.2	32.0*
Ciba 3474	1.2	1.5	1.4	30.0	33.3	31.6
Golden Harvest H-1485	1.2	1.5	1.4	28.7	34.0	31.4
MFA Morsoy 9241	1.0	1.0	1.0	30.8	31.8	31.3
Merschman Austin II	1.7	1.3	1.5	27.9	33.6	30.8
AgraTech FFR 493	1.2	1.0	1.1	27.5	33.8	30.6
Willcross 9546	1.2	1.5	1.4	28.1	32.6	30.4
Willcross 9447-A	1.2	1.7	1.4	26.7	34.1	30.4
MFA Morsoy 8842	1.2	1.2	1.2	26.1	34.8	30.4
NeCo 7465	1.3	1.8	1.6	27.1	32.9	30.0
KY 461	1.0	1.3	1.2	26.9	33.2	30.0
Terra TS 474	1.3	1.8	1.6	29.4	30.0	29.7
Northrup King S42-60	1.0	1.3	1.2	29.7	29.5	29.6
NeCo 7484	1.2	1.5	1.4	27.8	31.5	29.6
TN 4-94	1.8	2.3	2.0	25.4	33.5	29.4
Merschman Dallas	1.7	1.7	1.7	28.6	29.5	29.0
Magellan	1.3	1.0	1.2	30.5	27.0	28.8
Stine 4680	1.0	1.2	1.1	26.9	29.8	28.4
Merschman Atlanta III	1.5	1.8	1.6	26.4	30.1	28.2
<b>EXPERIMENTAL VARIETIES</b>						
Dyna-Gro UAPX-157	1.2	1.0	1.1	33.0*	33.7	33.4*
Midland Seeds XP48N	1.3	1.5	1.4	28.7	37.7*	33.2*
Midland Seeds XP481	1.0	1.5	1.2	29.9	34.1	32.0*
Terra E415	1.2	1.0	1.1	32.3*	29.8	31.0
Midland Seeds XP491	1.2	1.0	1.1	29.8	28.0	28.9
<b>AVERAGE</b>	<b>1.2</b>	<b>1.3</b>	<b>1.2</b>	<b>29.7</b>	<b>34.2</b>	<b>32.0</b>
L.S.D. AT .10	0.3	0.4	0.3	3.0	5.4	3.2
C.V.%				7.4	11.5	10.6
<b>MATURITY GROUP 5</b>						
<b>COMMERCIAL VARIETIES</b>						
Holladay	1.4	1.3	1.4	25.9*	34.5**	30.2**
NC+ 5A44	1.2	1.9	1.6	26.6**	32.8*	29.7*
Hutcheson	1.5	1.6	1.6	25.0*	32.6*	28.8*
Clifford	1.5	1.7	1.6	24.8*	32.7*	28.8*
NC+ 5H61	1.5	3.0	2.2	23.9*	32.9*	28.4*
Buckshot 55	2.0	3.4	2.7	22.3	30.8	26.6
TN 5-95	1.6	2.0	1.8	20.6	29.4	25.0
<b>EXPERIMENTAL VARIETIES</b>						
KY88-4080	1.2	1.1	1.2	25.5*	31.0	28.2
Buckshot EX58	1.4	1.5	1.4	22.6	26.6	24.6
<b>AVERAGE</b>	<b>1.5</b>	<b>1.9</b>	<b>1.7</b>	<b>24.1</b>	<b>31.5</b>	<b>27.8</b>
L.S.D. AT .10	NS	1.0	0.7	2.7	2.0	2.6
C.V.%				8.2	4.7	6.6
<b>TRIAL AVERAGE</b>	<b>1.2</b>	<b>1.3</b>	<b>1.2</b>	<b>29.9</b>	<b>33.7</b>	<b>31.8</b>

\*\* 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 1993-95.

Planted: 24 May 1995  
 Harvested: 4, 16 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Commerce Silt Loam  
 Soil Test: pH=6.0, OM=2.0%, P=146, K=387

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=60; K<sub>2</sub>O=80  
 Herbicide: Pre: Squadron  
 Post: None  
 Irrigation: 3.0 Inches  
 Previous Crop: Corn

Cyst Nematode Population at Planting: 1680 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=7.4, June=4.5, July=4.3, Aug.=2.2, Sept.=1.0, TOTAL=19.4 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (ln)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
MFA Morsoy 9348	--	41.5	1.8	59.0**	51.6	--	55.3	--
Patriot 488	--	43.5	1.8	58.1*	--	--	--	--
Pioneer Variety 9392###	--	36.5	1.5	55.5*	--	45.5	--	--
Delta King 4450	--	43.0	1.8	54.1*	--	--	--	--
Northrup King S42-60	--	35.0	1.5	54.1*	54.6	--	54.4	--
Dekalb CX434	--	38.0	1.5	53.5*	63.1*	--	58.3	--
ICI 478	--	39.0	2.0	53.3*	--	--	--	--
Asgrow A4341	--	38.0	2.0	53.0*	--	--	--	--
Deltapine DP 3478	--	42.5	2.0	52.8*	51.0	50.6*	51.9	51.5
Dekalb CX445	--	31.0	1.5	52.0*	55.1	--	53.6	--
NC+ 4A27	--	34.0	1.5	51.8*	--	--	--	--
HyPerformer HY 454	--	38.5	1.3	51.6*	44.6	--	48.1	--
Delta King 4875	--	37.0	1.8	50.9*	--	--	--	--
Northrup King S46-44	--	45.0	2.3	50.8*	49.4	54.8**	50.1	51.7
KY 461	--	40.5	1.5	50.6*	56.1*	--	53.4	--
Pioneer Variety 9472	--	46.5	1.5	50.2*	50.8	--	50.5	--
KS4694	--	32.5	1.5	49.5	50.8	51.8*	50.2	50.7
Magellan	--	36.0	1.8	48.9	42.8	--	45.8	--
Asgrow A4922	--	44.0	1.5	48.5	--	--	--	--
MFA Morsoy 9444SCN	--	40.0	1.5	47.8	--	--	--	--
AgraTech FFR 493	--	34.5	1.5	47.7	49.9	54.0*	48.8	50.5
Stressland	--	32.5	1.5	47.1	47.1	--	47.1	--
Hartz Variety H4994	--	43.5	2.0	46.8	58.8*	--	52.8	--
Hornbeck HBK 49	--	49.5	2.3	46.1	--	--	--	--
Terral TV 4452	--	34.5	2.0	46.1	--	--	--	--
Calhoun	--	28.0	1.3	45.5	61.1*	--	53.3	--
Dekalb CX411	--	30.5	1.3	45.3	65.2**	--	55.3	--
Pioneer Variety 9444	--	42.0	2.0	45.1	50.3	--	47.7	--
Dixie 478	--	40.0	2.0	45.1	--	--	--	--
Pioneer Variety 9481	--	34.0	1.5	44.8	--	--	--	--
Pioneer Variety 9452	--	24.0	1.3	43.6	46.2	--	44.9	--
Terra TS 474	--	34.5	1.5	42.9	59.9*	--	51.4	--
Dyna-Gro 3495	--	41.5	2.3	41.1	29.1	36.8	35.1	35.7
Terral TV 4990	--	36.5	1.5	41.0	--	--	--	--
Deltapine DP 3456	--	34.0	2.0	38.7	55.8*	46.8	47.3	47.1
<b>EXPERIMENTAL VARIETIES</b>								
Terra E415	--	42.0	1.8	58.3*	--	--	--	--
Terral TVX4596	--	52.0	2.0	48.2	--	--	--	--
Terral TVX4570	--	38.5	1.5	39.6	--	--	--	--
Terral TVX4479	--	31.0	1.5	37.8	--	--	--	--
<b>AVERAGE</b>		<b>38.1</b>	<b>1.7</b>	<b>48.6</b>	<b>49.5</b>	<b>45.8</b>	<b>49.0</b>	<b>48.0</b>
<b>L.S.D. AT .10<sup>1</sup></b>		<b>10.6</b>	<b>0.8</b>	<b>9.4</b>	<b>9.9</b>	<b>7.4</b>		
<b>C.V. %</b>		<b>16.5</b>		<b>11.7</b>	<b>12.4</b>	<b>10.0</b>		

TABLE 13. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>MATURITY GROUP 5</b>								
<b>COMMERCIAL VARIETIES</b>								
NC+ 5A44	--	34.3	1.5	49.3**	--	--	--	--
Dyna-Gro 3576	--	31.7	2.9	48.6*	36.3	36.2	42.5	40.4
Asgrow A5843	--	33.3	1.4	48.5*	50.9*	--	49.7	--
Clifford	--	33.7	1.5	47.9*	50.8*	46.9*	49.3	48.5
Pioneer Variety 9551	--	46.3	1.5	46.1*	45.8*	50.2*	46.0	47.4
Dixie 579	--	28.3	1.6	46.0*	--	--	--	--
Delta King 5475	--	32.3	1.5	45.4*	48.5*	--	47.0	--
Hartz Variety H5350	--	33.0	1.6	44.2*	41.3	43.2*	42.8	42.9
Pioneer Variety 9521	--	33.3	1.5	43.5*	40.1	45.7*	41.8	43.1
Holladay	--	27.0	1.5	42.8*	46.9*	52.2**	44.8	47.3
Northrup King S57-11	--	35.0	2.0	42.8*	41.6	--	42.2	--
Deltapine Deltapine 415	--	36.3	1.6	42.3*	44.2*	45.5*	43.3	44.0
HyPerformer HY 574	--	36.0	2.9	42.1*	41.8	--	42.0	--
Hutcheson	--	36.3	1.9	41.8*	44.6*	42.8*	43.2	43.1
Hornbeck HBK 58	--	31.7	1.8	41.3*	--	--	--	--
Hartz Variety H5218	--	36.0	1.7	40.7*	44.9*	--	42.8	--
Delta King 5850	--	35.0	2.0	40.7*	43.1*	--	41.9	--
Dixie 544	--	26.3	1.6	39.9*	--	--	--	--
Hartz Variety H5050	--	38.7	2.4	39.8*	--	--	--	--
Riverside 499	--	50.7	1.5	39.8*	36.7	37.3	38.3	37.9
Terral TV 5797	--	33.0	1.5	39.6	--	--	--	--
Hartz Variety H5566RR	--	38.7	2.1	39.4	--	--	--	--
Terra-Vig 5555	--	34.0	2.1	39.3	--	38.2	--	--
Northrup King S52-25	--	32.0	1.5	39.1	--	38.9	--	--
Terral TV 5495	--	41.3	2.2	39.1	--	--	--	--
Pioneer Variety 9584	--	38.3	1.8	38.7	49.9*	48.7*	44.3	45.8
HyPerformer HSC 501 Br	--	28.7	1.4	38.0	44.7*	42.4	41.4	41.7
AgraTech FFR 563	--	32.7	1.6	38.0	42.1	41.7	40.1	40.6
Deltapine DP 3588	--	44.7	2.1	38.0	--	--	--	--
Hornbeck HBK 54	--	33.7	1.5	37.8	--	--	--	--
Pioneer Variety 9592	--	41.3	1.6	37.1	41.5	43.0*	39.3	40.5
Hartz Variety H5545	--	33.7	2.2	37.1	36.8	48.2**	37.0	40.7
Terra-Vig 5693	--	28.7	1.7	37.0	37.9	40.9	37.5	38.6
Asgrow A5547	--	28.0	1.6	36.1	--	--	--	--
AgraTech FFR 514	--	35.0	1.5	35.8	28.1	--	32.0	--
Hartz Variety H5164RR	--	39.7	1.9	35.8	--	--	--	--
Northrup King S59-95	--	30.7	1.5	34.7	36.0	--	35.4	--
Terra-Vig 5452	--	37.7	1.6	33.1	40.1	--	36.6	--
Riverside 549	--	31.0	1.8	33.1	--	--	--	--
Asgrow A5885	--	33.0	1.9	32.9	50.4*	--	41.7	--
Riverside 529I	--	48.3	1.7	32.6	40.2	42.7*	36.4	38.5
Buckshot 55	--	34.0	2.1	31.7	41.5	--	36.6	--
AgraTech AT 555	--	30.7	1.5	30.4	41.5	42.9*	36.0	38.3
<b>EXPERIMENTAL VARIETIES</b>								
Deltapine DPX 3519	--	35.7	1.5	41.0*	--	--	--	--
KY88-4080	--	22.0	1.4	38.8	53.3**	--	46.1	--
Terral TVX5893	--	39.3	3.1	36.9	--	--	--	--
Deltapine DPX 3571	--	36.7	1.3	33.4	--	--	--	--
Buckshot EX58	--	31.0	1.8	29.5	--	--	--	--
<b>AVERAGE</b>		<b>34.8</b>	<b>1.8</b>	<b>39.3</b>	<b>41.5</b>	<b>42.1</b>	<b>40.4</b>	<b>41.0</b>
L.S.D. AT .10 <sup>1</sup>		<b>6.9</b>	<b>0.4</b>	<b>9.5</b>	<b>10.2</b>	<b>9.5</b>		
C.V. %		<b>14.5</b>		<b>17.7</b>	<b>15.0</b>	<b>13.8</b>		
<b>TRIAL AVERAGE</b>		<b>36.3</b>	<b>1.7</b>	<b>43.5</b>	<b>45.7</b>	<b>43.8</b>	<b>44.6</b>	<b>44.3</b>

<sup>1</sup> LSD for previous years 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.

TABLE 14. Performance of Soybean Varieties evaluated on a Loam Soil near Portageville (Pemiscott County) on the Delta Research Center during 1993-95.

Planted: 19 May 1995  
 Harvested: 6, 23 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Tiptonville Silt Loam  
 Soil Test: pH=6.2, OM=1.4%, P=128, K=372

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Tri-4 + Scepter, Command  
 Post: Blazer + Basagran  
 Irrigation: 3.0 Inches  
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 5600 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=3.7, June=4.8, July=5.8, Aug.=2.7, Sept.=1.8, TOTAL=18.8 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

Dekalb CX434	--	33.7	1.3	48.1**	48.0*	--	48.1	--
Patriot 488	--	36.7	1.5	46.7*	--	--	--	--
Dekalb CX445	--	32.7	1.3	46.1*	41.0	--	43.6	--
KS4694	--	26.3	1.5	43.8*	45.2*	47.0	44.5	45.3
Delta King 4875	--	34.3	1.8	43.5*	--	--	--	--
MFA Morsoy 9348	--	36.7	1.7	43.1*	41.9	--	42.5	--
ICI 478	--	39.3	1.5	42.9*	--	--	--	--
Northrup King S42-60	--	33.0	1.5	42.7*	44.8*	--	43.8	--
Deltapine DP 3478	--	31.7	1.5	42.5	45.7*	45.8	44.1	44.7
MFA Morsoy 9444SCN	--	35.0	1.5	42.4	--	--	--	--
KY 461	--	37.0	1.7	41.2	42.6*	--	41.9	--
Asgrow A4341	--	29.0	1.3	41.0	--	--	--	--
AgraTech FFR 493	--	37.7	1.5	41.0	40.2	53.9*	40.6	45.0
Asgrow A4922	--	39.0	1.3	40.7	--	--	--	--
Deltapine DP 3456	--	31.0	1.7	40.1	42.0	45.9	41.1	42.7
Terra TS 474	--	36.0	1.5	39.7	48.8*	--	44.3	--
Dyna-Gro 3495	--	36.0	1.7	39.6	37.6	39.6	38.6	38.9
Dekalb CX411	--	30.3	1.5	38.9	50.2**	--	44.6	--
HyPerformer HY 454	--	31.3	1.5	38.4	43.8*	--	41.1	--
Pioneer Variety 9472	--	35.7	1.8	38.0	41.7	--	39.9	--
Magellan	--	33.3	1.8	37.9	37.7	--	37.8	--
Pioneer Variety 9444	--	29.0	1.7	37.8	44.0*	--	40.9	--
Hartz Variety H4994	--	26.7	1.5	37.8	48.9*	--	43.3	--
Terral TV 4452	--	30.0	1.7	37.5	--	--	--	--
Stressland	--	34.7	1.8	37.0	44.4*	--	40.7	--
NC+ 4A27	--	30.7	1.5	36.4	--	--	--	--
Hornbeck HBK 49	--	50.3	1.8	35.4	--	--	--	--
Delta King 4450	--	31.3	1.5	34.5	--	--	--	--
Pioneer Variety 9481	--	36.7	1.3	33.7	--	--	--	--
Pioneer Variety 9452	--	31.0	1.5	32.8	43.5*	--	38.2	--
Northrup King S46-44	--	35.7	1.8	32.7	41.3	52.4*	37.0	42.1
Dixie 478	--	36.7	1.7	32.7	--	--	--	--
Terral TV 4990	--	38.0	1.7	31.1	--	--	--	--
Calhoun	--	16.3	1.0	29.7	38.3	--	34.0	--
Pioneer Variety 9392###	--	29.0	1.5	27.4	--	39.5	--	--

**EXPERIMENTAL VARIETIES**

Terral TVX4570	--	41.3	1.7	45.1*	--	--	--	--
Terra E415	--	37.0	1.5	41.2	--	--	--	--
Terral TVX4596	--	47.3	1.8	38.0	--	--	--	--
Terral TVX4479	--	30.7	1.5	38.0	--	--	--	--
<b>Average</b>		<b>34.1</b>	<b>1.6</b>	<b>38.9</b>	<b>41.3</b>	<b>45.8</b>	<b>40.1</b>	<b>42.0</b>
<b>L.S.D. AT .10<sup>1</sup></b>		<b>5.9</b>	<b>0.4</b>	<b>5.4</b>	<b>7.6</b>	<b>6.3</b>		
<b>C.V. %</b>		<b>12.5</b>		<b>10.2</b>	<b>11.3</b>	<b>8.5</b>		



TABLE 14. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>MATURITY GROUP 5</b>								
<b>COMMERCIAL VARIETIES</b>								
Clifford	--	30.0	1.5	52.6**	56.5*	45.4	54.6	51.5
Dyna-Gro 3576	--	26.4	1.5	50.2*	49.4	50.9*	49.8	50.2
HyPerformer HY 574	--	35.1	1.8	49.5*	51.0*	--	50.3	--
Hutcheson	--	28.7	1.5	48.9*	48.3	54.6*	48.6	50.6
Northrup King S59-95	--	29.5	1.5	48.9*	46.0	--	47.5	--
Hartz Variety H5050	--	37.3	1.7	48.1*	--	--	--	--
Pioneer Variety 9592	--	36.3	1.5	47.3*	45.7	51.2*	46.5	48.1
AgraTech FFR 563	--	28.0	1.5	46.3*	53.8*	51.3*	50.1	50.5
Asgrow A5843	--	31.1	1.5	46.1*	52.2*	--	49.2	--
Northrup King S57-11	--	30.4	1.5	45.7*	48.5	--	47.1	--
Dixie 579	--	22.6	1.5	45.7*	--	--	--	--
Hartz Variety H5545	--	30.3	1.5	45.6*	49.8	48.2	47.7	47.9
Holladay	--	22.4	1.5	45.2*	52.6*	50.9*	48.9	49.6
Dixie 544	--	26.7	1.5	44.8	--	--	--	--
AgraTech FFR 514	--	29.1	1.5	44.8	50.2	--	47.5	--
Asgrow A5547	--	25.6	1.5	44.1	--	--	--	--
Hartz Variety H5350	--	31.0	1.7	44.0	58.6*	56.2*	51.3	52.9
Hartz Variety H5218	--	30.7	1.5	43.9	55.2*	--	49.6	--
Deltapine Deltapine 415	--	33.3	1.5	43.5	46.6	49.0	45.1	46.4
NC+ 5A44	--	26.8	1.5	43.4	--	--	--	--
Riverside 549	--	29.2	1.5	43.3	--	--	--	--
Hornbeck HBK 58	--	28.1	1.5	43.1	--	--	--	--
Terral TV 5797	--	32.8	1.5	43.1	--	--	--	--
Terra-Vig 5555	--	35.4	1.5	42.7	--	43.3	--	--
AgraTech AT 555	--	32.5	1.5	42.6	46.2	48.2	44.4	45.7
Delta King 5475	--	24.5	1.5	42.5	51.5*	--	47.0	--
Hornbeck HBK 54	--	23.8	1.5	42.3	--	--	--	--
Buckshot 55	--	29.6	1.7	42.1	47.2	--	44.7	--
HyPerformer HSC 501 Br	--	26.6	1.7	41.6	47.4	59.2**	44.5	49.4
Pioneer Variety 9551	--	24.8	1.5	41.1	50.5	52.1*	45.8	47.9
Riverside 529I	--	48.5	2.0	38.9	30.1	38.8	34.5	35.9
Asgrow A5885	--	35.3	1.5	38.1	55.9*	--	47.0	--
Pioneer Variety 9521	--	25.4	1.5	38.1	53.9*	51.0*	46.0	47.7
Deltapine DP 3588	--	39.4	1.5	37.7	--	--	--	--
Delta King 5850	--	28.2	1.5	37.5	46.0	--	41.8	--
Terra-Vig 5452	--	32.3	1.5	36.7	46.5	--	41.6	--
Pioneer Variety 9584	--	30.2	1.5	36.3	51.8*	47.5	44.1	45.2
Northrup King S52-25	--	26.1	1.5	36.1	--	51.0*	--	--
Riverside 499	--	47.4	1.8	35.7	38.9	42.4	37.3	39.0
Terral TV 5495	--	37.7	1.8	34.7	--	--	--	--
Terra-Vig 5693	--	32.3	1.5	33.5	50.5	49.8	42.0	44.6
Hartz Variety H5566RR	--	28.3	1.5	33.0	--	--	--	--
Hartz Variety H5164RR	--	30.1	1.5	32.4	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
Buckshot EX58	--	32.4	1.5	50.9*	--	--	--	--
KY88-4080	--	20.0	1.5	49.6*	50.2	--	49.9	--
Terral TVX5893	--	37.0	2.2	45.6*	--	--	--	--
Deltapine DPX 3571	--	38.8	1.5	43.0	--	--	--	--
Deltapine DPX 3519	--	28.8	1.5	38.8	--	--	--	--
<b>AVERAGE</b>		<b>30.8</b>	<b>1.5</b>	<b>42.7</b>	<b>49.2</b>	<b>49.3</b>	<b>46.0</b>	<b>47.1</b>
<b>L.S.D. AT .10<sup>1</sup></b>		<b>3.5</b>	<b>0.2</b>	<b>7.4</b>	<b>8.1</b>	<b>8.8</b>		
<b>C.V. %</b>		<b>8.2</b>		<b>12.6</b>	<b>10.1</b>	<b>10.9</b>		
<b>TRIAL AVERAGE</b>		<b>32.2</b>	<b>1.6</b>	<b>41.0</b>	<b>45.6</b>	<b>47.7</b>	<b>43.3</b>	<b>44.8</b>

<sup>1</sup> LSD for previous years 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.

TABLE 15. Performance of Soybean Varieties evaluated on a Clay Soil near Portageville (Pemiscott County) on the Delta Research Center during 1993-95.

Planted: 23 May 1995  
 Harvested: 6, 23 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Sharkey Silty Clay  
 Soil Test: pH=5.5, OM=2.1%, P=81, K=456

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Tri-4 + Scepter  
 Post: Storm  
 Irrigation: 0.0 Inches  
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 5920 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=3.7, June=4.8, July=5.8, Aug.=2.7, Sept.=1.8, TOTAL=18.8 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

Asgrow A4341	--	32.0	1.5	45.3**	--	--	--	--
Dekalb CX411	--	32.1	1.2	43.6*	39.6	--	41.6	--
MFA Morsoy 9444SCN	--	37.0	1.1	43.6*	--	--	--	--
AgraTech FFR 493	--	37.7	1.4	41.9*	55.6**	59.1*	48.8	52.2
HyPerformer HY 454	--	33.6	1.3	41.7*	51.4*	--	46.6	--
Pioneer Variety 9392###	--	36.3	1.5	40.8*	--	44.2	--	--
Pioneer Variety 9481	--	37.0	1.5	40.0*	--	--	--	--
Pioneer Variety 9472	--	37.1	1.5	38.5*	41.4	--	40.0	--
Terral TV 4452	--	33.1	1.5	38.5*	--	--	--	--
Dekalb CX445	--	35.6	1.5	37.9*	37.0	--	37.5	--
Delta King 4875	--	39.8	1.6	37.8*	--	--	--	--
Delta King 4450	--	36.3	1.4	37.3*	--	--	--	--
Northrup King S42-60	--	32.5	1.5	36.7*	39.1	--	37.9	--
Magellan	--	37.9	1.5	36.7*	44.1	--	40.4	--
Dixie 478	--	41.3	1.5	36.2	--	--	--	--
Stressland	--	35.7	1.5	36.0	43.4	--	39.7	--
Hartz Variety H4994	--	35.3	1.5	35.7	53.9*	--	44.8	--
KY 461	--	40.8	1.6	35.6	46.7	--	41.2	--
Terra TS 474	--	37.8	1.7	35.5	40.2	--	37.9	--
MFA Morsoy 9348	--	38.9	1.5	35.2	46.1	--	40.7	--
Asgrow A4922	--	42.0	1.5	35.1	--	--	--	--
Deltapine DP 3478	--	40.7	1.5	35.0	50.4*	51.9*	42.7	45.8
NC+ 4A27	--	32.0	1.5	34.7	--	--	--	--
Pioneer Variety 9452	--	28.6	1.3	34.5	39.2	--	36.9	--
Dekalb CX434	--	34.7	1.5	34.3	50.9*	--	42.6	--
Hornbeck HBK 49	--	43.1	1.8	34.3	--	--	--	--
Dyna-Gro 3495	--	49.1	1.7	34.1	50.6*	54.7*	42.4	46.5
KS4694	--	34.9	1.5	33.6	48.7*	52.9*	41.2	45.1
ICI 478	--	38.7	1.4	33.1	--	--	--	--
Patriot 488	--	37.1	1.5	33.0	--	--	--	--
Northrup King S46-44	--	38.2	1.3	32.0	47.5*	48.7	39.8	42.7
Pioneer Variety 9444	--	31.2	1.2	31.7	39.0	--	35.4	--
Deltapine DP 3456	--	35.8	1.5	30.3	46.2	47.3	38.3	41.3
Terral TV 4990	--	44.5	1.5	30.3	--	--	--	--
Calhoun	--	19.6	1.0	27.8	42.0	--	34.9	--

**EXPERIMENTAL VARIETIES**

Terra E415	--	33.9	1.5	42.9*	--	--	--	--
Terral TVX4596	--	48.7	1.5	38.0*	--	--	--	--
Terral TVX4570	--	35.1	1.5	37.5*	--	--	--	--
Terral TVX4479	--	35.5	1.5	36.5*	--	--	--	--
<b>AVERAGE</b>		<b>36.7</b>	<b>1.5</b>	<b>36.5</b>	<b>43.9</b>	<b>47.6</b>	<b>40.2</b>	<b>42.7</b>
<b>L.S.D. AT .10<sup>1</sup></b>		<b>5.0</b>	<b>0.2</b>	<b>8.8</b>	<b>8.1</b>	<b>9.4</b>		
<b>C.V. %</b>		<b>9.7</b>		<b>17.6</b>	<b>11.2</b>	<b>12.1</b>		

TABLE 15. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>MATURITY GROUP 5</b>								
<b>COMMERCIAL VARIETIES</b>								
AgraTech FFR 563	--	36.3	1.5	46.3**	56.5*	59.0*	51.4	53.9
Hartz Variety H5545	--	34.7	1.5	45.6*	58.0*	61.3**	51.8	55.0
Hutcheson	--	33.7	1.5	43.7*	50.2	56.5*	47.0	50.1
Terra-Vig 5555	--	32.3	1.5	43.5*	--	50.9	--	--
Deltapine DP 3588	--	45.0	1.5	41.7*	--	--	--	--
Terral TV 5495	--	42.3	1.5	41.5*	--	--	--	--
Hartz Variety H5050	--	43.3	1.7	41.4*	--	--	--	--
Terra-Vig 5693	--	34.7	1.5	41.1*	44.5	58.1*	42.8	47.9
Delta King 5475	--	34.7	1.5	40.7*	55.9*	--	48.3	--
Pioneer Variety 9521	--	30.7	1.5	40.0*	54.1*	42.9	47.1	45.7
Clifford	--	34.0	1.5	39.7*	49.4	59.4*	44.6	49.5
Pioneer Variety 9592	--	39.7	1.5	39.4*	58.6*	57.1*	49.0	51.7
Terral TV 5797	--	34.3	1.5	39.3*	--	--	--	--
Hartz Variety H5218	--	33.7	1.5	39.0*	54.7*	--	46.9	--
AgraTech FFR 514	--	39.7	1.5	39.0*	58.2*	--	48.6	--
Northrup King S59-95	--	34.3	1.5	38.7	58.1*	--	48.4	--
Pioneer Variety 9584	--	35.0	1.5	38.4	57.0*	55.3*	47.7	50.2
HyPerformer HY 574	--	39.7	1.7	38.1	51.9*	--	45.0	--
Asgrow A5885	--	40.7	1.5	38.0	57.3*	--	47.7	--
Buckshot 55	--	34.7	1.5	37.7	54.8*	--	46.3	--
Riverside 549	--	31.0	1.5	37.4	--	--	--	--
Dixie 544	--	34.0	1.5	37.4	--	--	--	--
NC + 5A44	--	32.0	1.5	37.4	--	--	--	--
Deltapine Deltapine 415	--	34.0	1.5	37.1	53.2*	53.2*	45.2	47.8
Asgrow A5843	--	33.3	1.5	36.9	60.4**	--	48.7	--
AgraTech AT 555	--	35.3	1.5	36.8	54.0*	56.8*	45.4	49.2
Hartz Variety H5566RR	--	38.7	1.5	36.7	--	--	--	--
Northrup King S57-11	--	37.7	1.5	36.3	55.3*	--	45.8	--
Hartz Variety H5350	--	32.0	1.5	36.3	53.9*	56.6*	45.1	48.9
Northrup King S52-25	--	27.0	1.5	36.1	--	51.5	--	--
Asgrow A5547	--	32.3	1.5	35.7	--	--	--	--
Hornbeck HBK 54	--	31.7	1.5	35.6	--	--	--	--
Dixie 579	--	27.0	1.5	35.6	--	--	--	--
Dyna-Gro 3576	--	31.7	1.5	35.5	54.0*	56.6*	44.8	48.7
HyPerformer HSC 501 Br	--	29.0	1.5	35.4	49.8	47.4	42.6	44.2
Riverside 499	--	48.7	1.5	35.2	42.1	48.4	38.7	41.9
Hornbeck HBK 58	--	29.7	1.5	34.1	--	--	--	--
Hartz Variety H5164RR	--	39.3	1.5	33.8	--	--	--	--
Terra-Vig 5452	--	36.3	1.5	33.0	47.6	--	40.3	--
Pioneer Variety 9551	--	29.3	1.5	31.1	57.6*	45.3	44.4	44.7
Riverside 529I	--	46.7	1.5	30.5	42.2	46.0	36.4	39.6
Delta King 5850	--	38.0	1.5	30.5	56.5*	--	43.5	--
Holladay	--	30.7	1.5	30.5	54.5*	48.2	42.5	44.4
<b>EXPERIMENTAL VARIETIES</b>								
Terral TVX5893	--	38.3	1.5	42.5*	--	--	--	--
Deltapine DPX 3571	--	38.7	1.5	40.5*	--	--	--	--
KY88-4080	--	25.0	1.5	36.9	48.5	--	42.7	--
Deltapine DPX 3519	--	33.0	1.5	34.5	--	--	--	--
Buckshot EX58	--	35.0	1.5	34.0	--	--	--	--
<b>AVERAGE</b>		<b>35.2</b>	<b>1.5</b>	<b>37.6</b>	<b>51.2</b>	<b>49.4</b>	<b>44.4</b>	<b>46.1</b>
L.S.D. AT .10 <sup>1</sup>		4.4	0.1	7.9	9.7	8.3		
C.V. %		9.2		15.2	11.6	10.2		
<b>TRIAL AVERAGE</b>		<b>35.9</b>	<b>1.5</b>	<b>37.1</b>	<b>48.3</b>	<b>48.6</b>	<b>42.7</b>	<b>44.7</b>

<sup>1</sup> LSD for previous years 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.

TABLE 16. Performance of Soybean Varieties evaluated at two Southeast Missouri locations (Oran and Portageville) during 1995.

Oran	Portageville - Loam	Portageville - Clay
Planted: 24 May 1995	Planted: 19 May 1995	Planted: 23 May 1995
Harvested: 4, 16 October 1995	Harvested: 6, 23 October 1995	Harvested: 6, 23 October 1995
Row Spacing: 30 Inches	Row Spacing: 30 Inches	Row Spacing: 30 Inches
Planted Population: 156,800 Seeds/A	Planted Population: 156,800 Seeds/A	Planted Population: 156,800 Seeds/A
Soil Type: Commerce Silt Loam	Soil Type: Tiptonville Loam	Soil Type: Sharkey Clay
Previous Crop: Corn	Previous Crop: Soybean	Previous Crop: Soybean
SCN Population at Planting: 1680 Eggs	SCN Population at Planting: 5600 eggs	SCN Population at Planting: 5920 Eggs
Growing Season Rainfall: 19.4 Inches	Growing Season Rainfall: 18.8 Inches	Growing Season Rainfall: 18.8 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)			
	Oran	Portageville Loam	Clay	Mean	Oran	Portageville Loam	Clay

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

Asgrow A4341	2.0	1.3	1.5	1.6	53.0*	41.0	45.3**	46.4*
Patriot 488	1.8	1.5	1.5	1.6	58.1*	46.7*	33.0	45.9*
MFA Morsoy 9348	1.8	1.7	1.5	1.7	59.0**	43.1*	35.2	45.8*
Dekalb CX445	1.5	1.3	1.5	1.4	52.0*	46.1*	37.9*	45.3*
Dekalb CX434	1.5	1.3	1.5	1.4	53.5*	48.1**	34.3	45.3*
MFA Morsoy 9444SCN	1.5	1.5	1.1	1.4	47.8	42.4	43.6*	44.6*
Northrup King S42-60	1.5	1.5	1.5	1.5	54.1*	42.7*	36.7*	44.5*
Delta King 4875	1.8	1.8	1.6	1.7	50.9*	43.5*	37.8*	44.1*
HyPerformer HY 454	1.3	1.5	1.3	1.4	51.6*	38.4	41.7*	43.9*
AgraTech FFR 493	1.5	1.5	1.4	1.5	47.7	41.0	41.9*	43.5*
Deltapine DP 3478	2.0	1.5	1.5	1.7	52.8*	42.5	35.0	43.4*
ICI 478	2.0	1.5	1.4	1.6	53.3*	42.9*	33.1	43.1*
Dekalb CX411	1.3	1.5	1.2	1.3	45.3	38.9	43.6*	42.6
KY 461	1.5	1.7	1.6	1.6	50.6*	41.2	35.6	42.5
KS4694	1.5	1.5	1.5	1.5	49.5	43.8*	33.6	42.3
Pioneer Variety 9472	1.5	1.8	1.5	1.6	50.2*	38.0	38.5*	42.2
Delta King 4450	1.8	1.5	1.4	1.6	54.1*	34.5	37.3*	42.0
Asgrow A4922	1.5	1.3	1.5	1.4	48.5	40.7	35.1	41.4
Pioneer Variety 9392###	1.5	1.5	1.5	1.5	55.5*	27.4	40.8*	41.2
Magellan	1.8	1.8	1.5	1.7	48.9	37.9	36.7*	41.2
NC+ 4A27	1.5	1.5	1.5	1.5	51.8*	36.4	34.7	41.0
Terral TV 4452	2.0	1.7	1.5	1.7	46.1	37.5	38.5*	40.7
Hartz Variety H4994	2.0	1.5	1.5	1.7	46.8	37.8	35.7	40.1
Stressland	1.5	1.8	1.5	1.6	47.1	37.0	36.0	40.0
Pioneer Variety 9481	1.5	1.3	1.5	1.4	44.8	33.7	40.0*	39.5
Terra TS 474	1.5	1.5	1.7	1.6	42.9	39.7	35.5	39.4
Hornbeck HBK 49	2.3	1.8	1.8	2.0	46.1	35.4	34.3	38.6
Northrup King S46-44	2.3	1.8	1.3	1.8	50.8*	32.7	32.0	38.5
Dyna-Gro 3495	2.3	1.7	1.7	1.9	41.1	39.6	34.1	38.3
Pioneer Variety 9444	2.0	1.7	1.2	1.6	45.1	37.8	31.7	38.2
Dixie 478	2.0	1.7	1.5	1.7	45.1	32.7	36.2	38.0
Pioneer Variety 9452	1.3	1.5	1.3	1.4	43.6	32.8	34.5	37.0
Deltapine DP 3456	2.0	1.7	1.5	1.7	38.7	40.1	30.3	36.4
Calhoun	1.3	1.0	1.0	1.1	45.5	29.7	27.8	34.3
Terral TV 4990	1.5	1.7	1.5	1.6	41.0	31.1	30.3	34.1

**EXPERIMENTAL VARIETIES**

Terra E415	1.8	1.5	1.5	1.6	58.3*	41.2	42.9*	47.5**
Terral TVX4596	2.0	1.8	1.5	1.8	48.2	38.0	38.0*	41.4
Terral TVX4570	1.5	1.7	1.5	1.6	39.6	45.1*	37.5*	40.7
Terral TVX4479	1.5	1.5	1.5	1.5	37.8	38.0	36.5*	37.4
<b>AVERAGE</b>	<b>1.7</b>	<b>1.6</b>	<b>1.5</b>	<b>1.6</b>	<b>48.6</b>	<b>38.9</b>	<b>36.5</b>	<b>41.3</b>
L.S.D. AT .10	0.8	0.4	0.2	0.4	9.4	5.4	8.8	4.5
C.V. %					11.7	10.2	17.6	

**MATURITY GROUP 5**

**COMMERCIAL VARIETIES**

Clifford	1.5	1.5	1.5	1.5	47.9*	52.6**	39.7*	46.7**
Dyna-Gro 3576	2.9	1.5	1.5	2.0	48.6*	50.2*	35.5	44.8*
Hutcheson	1.9	1.5	1.5	1.6	41.8*	48.9*	43.7*	44.8*
Asgrow A5843	1.4	1.5	1.5	1.5	48.5*	46.1*	36.9	43.8*
AgraTech FFR 563	1.6	1.5	1.5	1.5	38.0	46.3*	46.3**	43.5*

TABLE 16. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Oran	Portageville		Mean	Oran	Portageville		Mean
		Loam	Clay			Loam	Clay	
NC+ 5A44	1.5	1.5	1.5	1.5	49.3**	43.4	37.4	43.4*
HyPerformer HY 574	2.9	1.8	1.7	2.1	42.1*	49.5*	38.1	43.2*
Hartz Variety H5050	2.4	1.7	1.7	1.9	39.8*	48.1*	41.4*	43.1*
Delta King 5475	1.5	1.5	1.5	1.5	45.4*	42.5	40.7*	42.9*
Hartz Variety H5545	2.2	1.5	1.5	1.7	37.1	45.6*	45.6*	42.8*
Dixie 579	1.6	1.5	1.5	1.5	46.0*	45.7*	35.6	42.4*
Terra-Vig 5555	2.1	1.5	1.5	1.7	39.3	42.7	43.5*	41.8
Northrup King S57-11	2.0	1.5	1.5	1.7	42.8*	45.7*	36.3	41.6
Hartz Variety H5350	1.6	1.7	1.5	1.6	44.2*	44.0	36.3	41.5
Pioneer Variety 9592	1.6	1.5	1.5	1.5	37.1	47.3*	39.4*	41.3
Hartz Variety H5218	1.7	1.5	1.5	1.6	40.7*	43.9	39.0*	41.2
Deltapine Deltapine 415	1.6	1.5	1.5	1.5	42.3*	43.5	37.1	41.0
Northrup King S59-95	1.5	1.5	1.5	1.5	34.7	48.9*	38.7	40.8
Terral TV 5797	1.5	1.5	1.5	1.5	39.6	43.1	39.3*	40.7
Dixie 544	1.6	1.5	1.5	1.5	39.9*	44.8	37.4	40.7
Pioneer Variety 9521	1.5	1.5	1.5	1.5	43.5*	38.1	40.0*	40.5
AgraTech FFR 514	1.5	1.5	1.5	1.5	35.8	44.8	39.0*	39.9
Holladay	1.5	1.5	1.5	1.5	42.8*	45.2*	30.5	39.5
Hornbeck HBK 58	1.8	1.5	1.5	1.6	41.3*	43.1	34.1	39.5
Pioneer Variety 9551	1.5	1.5	1.5	1.5	46.1*	41.1	31.1	39.4
Deltapine DP 3588	2.1	1.5	1.5	1.7	38.0	37.7	41.7*	39.1
Hornbeck HBK 54	1.5	1.5	1.5	1.5	37.8	42.3	35.6	38.6
Asgrow A5547	1.6	1.5	1.5	1.5	36.1	44.1	35.7	38.6
Terral TV 5495	2.2	1.8	1.5	1.8	39.1	34.7	41.5*	38.4
HyPerformer HSC 501 Br	1.4	1.7	1.5	1.5	38.0	41.6	35.4	38.3
Riverside 549	1.8	1.5	1.5	1.6	33.1	43.3	37.4	37.9
Pioneer Variety 9584	1.8	1.5	1.5	1.6	38.7	36.3	38.4	37.8
Terra-Vig 5693	1.7	1.5	1.5	1.6	37.0	33.5	41.1*	37.2
Buckshot 55	2.1	1.7	1.5	1.8	31.7	42.1	37.7	37.2
Northrup King S52-25	1.5	1.5	1.5	1.5	39.1	36.1	36.1	37.1
Riverside 499	1.5	1.8	1.5	1.6	39.8*	35.7	35.2	36.9
AgraTech AT 555	1.5	1.5	1.5	1.5	30.4	42.6	36.8	36.6
Hartz Variety H5566RR	2.1	1.5	1.5	1.7	39.4	33.0	36.7	36.4
Asgrow A5885	1.9	1.5	1.5	1.6	32.9	38.1	38.0	36.3
Delta King 5850	2.0	1.5	1.5	1.7	40.7*	37.5	30.5	36.2
Terra-Vig 5452	1.6	1.5	1.5	1.5	33.1	36.7	33.0	34.3
Riverside 529I	1.7	2.0	1.5	1.7	32.6	38.9	30.5	34.0
Hartz Variety H5164RR	1.9	1.5	1.5	1.6	35.8	32.4	33.8	34.0
<b>EXPERIMENTAL VARIETIES</b>								
KY88-4080	1.4	1.5	1.5	1.5	38.8	49.6*	36.9	41.8
Terral TVX5893	3.1	2.2	1.5	2.3	36.9	45.6*	42.5*	41.7
Deltapine DPX 3571	1.3	1.5	1.5	1.4	33.4	43.0	40.5*	39.0
Deltapine DPX 3519	1.5	1.5	1.5	1.5	41.0*	38.8	34.5	38.1
Buckshot EX58	1.8	1.5	1.5	1.6	29.5	50.9*	34.0	38.1
<b>AVERAGE</b>	<b>1.8</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>39.3</b>	<b>42.7</b>	<b>37.6</b>	<b>39.9</b>
L.S.D. AT .10	0.4	0.2	0.1	0.1	9.5	7.4	7.9	4.7
C.V.%					17.7	12.6	15.2	
<b>TRIAL AVERAGE</b>	<b>1.7</b>	<b>1.6</b>	<b>1.5</b>	<b>1.6</b>	<b>43.5</b>	<b>41.0</b>	<b>37.1</b>	<b>40.5</b>

\*\* Highest yielding variety in the maturity group.

\* Yield not significantly less than the highest yielding variety at the .10 level during 1995 or .05 level for previous years in the same maturity group.

### Variety is not grouped as entered.

## PART II

### SOYBEAN DOUBLE CROP TRIALS

#### EXPERIMENTAL PROCEDURES

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

**Locations.** Soybean variety double crop evaluation trials were located in the southeastern region of the state. Trial locations are shown on adjacent map. In 1995, 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 1995. Data and management practices for these trials are presented in Tables 18 through 20.

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 17. 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 17. SOYBEAN DOUBLE CROP YIELD SUMMARY.

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Portageville Loam	24	19-33	27	18
Portageville Clay	24	25-42	32	19

TABLE 18. 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 1993-95.

Planted: 15 June 1995  
 Harvested: 24 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Tiptonville Silt Loam  
 Soil Test: pH=5.7, OM=1.8%, P=108, K=379

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Tri-4 + Scepter  
 Post: Storm  
 Irrigation: 2.0 Inches  
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 480 Eggs / 250cc of Soil  
 Growing Season Rainfall: June=4.8, July=5.8, Aug.=2.7, Sept.=1.8, TOTAL=15.1 inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 4</b>							
<b>VARIETIES</b>								
4.0 Maturity group check##	10-03							
Mycogen 470	10-10	34.3	1.0	23.7	--	--	--	--
Delsoy 4710	10-11	31.0	1.0	23.1	21.3	28.5*	22.2	24.3
MFA Morsoy 9348	10-10	31.0	1.0	22.7	17.6	--	20.2	--
MFA Morsoy 9345SCN	10-10	34.5	1.0	22.5	14.8	--	18.7	--
Manokin	10-21	33.0	1.0	22.2	27.4**	--	24.8	--
KS4694	10-10	30.8	1.0	21.4	--	--	--	--
Stressland	10-10	32.5	1.0	20.5	--	--	--	--
Mustang	10-10	29.3	1.0	19.2	--	--	--	--
<b>MATURITY GROUP 5</b>								
<b>VARIETIES</b>								
5.0 Maturity group check##	10-17							
Holladay	10-14	25.8	1.0	33.4**	--	--	--	--
Deltapine Deltapine 105	10-20	32.8	1.0	33.1*	24.1	33.7*	28.6	30.3
Capehart Stone	10-20	30.0	1.0	32.8*	26.5	36.3*	29.7	31.9
Pioneer Variety 9584	10-20	35.3	1.0	32.3*	--	--	--	--
Hutcheson	10-15	27.5	1.0	32.1*	24.4	26.4	28.3	27.6
Pioneer Variety 9592	10-21	40.3	1.0	31.9*	24.8	29.5*	28.4	28.7
Deltapine DPX 3571	10-18	31.0	1.0	31.4*	--	--	--	--
Deltapine DP 3588	10-20	33.8	1.0	30.8*	--	--	--	--
Deltapine Deltapine 415	10-16	29.5	1.0	30.0*	21.3	29.6*	25.7	27.0
Avery	10-11	31.8	1.0	29.5*	20.3	29.1	24.9	26.3
Asgrow A5843	10-20	35.0	1.0	27.6*	--	--	--	--
Clifford	10-17	32.5	1.0	27.0	--	--	--	--
Pioneer Variety 9551	10-18	29.8	1.0	26.4	27.8**	29.4*	27.1	27.9
Delsoy 4900	10-17	32.8	1.0	26.1	24.6	34.4*	25.4	28.4
Pioneer Variety 9521	10-13	32.0	1.0	25.3	19.6	32.5*	22.5	25.8
Hartwig	10-15	25.5	1.0	23.9	23.2	33.7*	23.5	26.9
6.0 Maturity group check##	10-21							
<b>TRIAL AVERAGE</b>	<b>10-15</b>	<b>31.7</b>	<b>1.0</b>	<b>27.0</b>	<b>21.2</b>	<b>31.1</b>	<b>24.1</b>	<b>26.4</b>
<b>TRIAL L.S.D. AT .10<sup>1</sup></b>	<b>4</b>	<b>5.3</b>	<b>NS</b>	<b>5.9</b>	<b>NS</b>	<b>8.8</b>		
<b>TRIAL C.V. %</b>	<b>1.1</b>	<b>14.0</b>		<b>18.4</b>	<b>32.3</b>	<b>20.4</b>		

<sup>1</sup> LSD for previous years 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.

TABLE 19. Performance of Soybean Varieties following wheat on a Southeast Missouri Clay Soil. The test was on the Delta Research Center near Portageville (Pemiscott County) during 1993-95.

Planted: 19 June 1995  
 Harvested: 24 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Sharkey Silty Clay  
 Soil Test: pH=6.1, OM=2.7%, P=117, K=699

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Tri-4 + Scepter  
 Post: None  
 Irrigation: 0.00 Inches  
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 480 Eggs / 250cc of Soil  
 Growing Season Rainfall: June=4.8, July=5.8, Aug.=2.7, Sept.=1.8, TOTAL=15.1 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>MATURITY GROUP 4</b>								
<b>VARIETIES</b>								
4.0 Maturity group check##	10-03							
Manokin	10-09	23.3	1.0	33.2	30.9**	--	32.1	--
MFA Morsoy 9348	10-10	24.3	1.0	32.3	17.7	--	25.0	--
Stressland	10-07	25.8	1.0	31.7	--	--	--	--
Mycogen 470	10-09	27.0	1.0	31.6	--	--	--	--
MFA Morsoy 9345SCN	10-07	25.8	1.0	27.2	15.9	--	21.6	--
KS4694	10-09	24.0	1.0	26.9	--	--	--	--
Delsoy 4710	10-09	28.8	1.0	26.7	19.0	14.0*	22.9	19.9
Mustang	10-09	21.8	1.0	24.6	--	--	--	--
<b>MATURITY GROUP 5</b>								
<b>VARIETIES</b>								
5.0 Maturity group check##	10-09							
Clifford	10-12	23.5	1.0	41.5**	--	--	--	--
Pioneer Variety 9584	10-20	28.0	1.0	38.2*	--	--	--	--
Pioneer Variety 9592	10-20	28.8	1.0	38.0*	35.3**	28.4*	36.7	33.9
Deltapine DP 3588	10-21	26.8	1.0	37.1*	--	--	--	--
Deltapine Deltapine 105	10-18	29.5	1.0	35.4	25.1*	25.2*	30.3	28.6
Pioneer Variety 9521	10-08	27.3	1.0	34.9	19.9	21.6*	27.4	25.5
Hartwig	10-15	24.0	1.0	34.5	15.8	18.1	25.2	22.8
Deltapine Deltapine 415	10-20	27.0	1.0	34.2	28.4*	28.9*	31.3	30.5
Holladay	10-12	19.3	1.0	31.8	--	--	--	--
Pioneer Variety 9551	10-11	25.3	1.0	31.6	31.2*	26.4*	31.4	29.7
Hutcheson	10-22	21.5	1.0	31.3	22.4	25.2*	26.9	26.3
Capehart Stone	10-20	22.5	1.0	31.1	26.1*	25.0*	28.6	27.4
Asgrow A5843	10-20	24.3	1.0	30.6	--	--	--	--
Delsoy 4900	10-08	24.0	1.0	30.1	11.9	24.1*	21.0	22.0
Deltapine DPX 3571	10-18	21.8	1.0	30.1	--	--	--	--
Avery	10-10	31.3	1.0	27.1	22.4	20.6*	24.8	23.4
6.0 Maturity group check##	10-21							
<b>TRIAL AVERAGE</b>	<b>10-14</b>	<b>25.2</b>	<b>1.0</b>	<b>32.2</b>	<b>22.6</b>	<b>21.6</b>	<b>27.4</b>	<b>25.4</b>
<b>TRIAL L.S.D. AT .10<sup>1</sup></b>	<b>4</b>	<b>3.6</b>	<b>NS</b>	<b>5.9</b>	<b>10.5</b>	<b>9.1</b>		
<b>TRIAL C.V. %</b>	<b>1.0</b>	<b>12.1</b>		<b>15.4</b>	<b>33.0</b>	<b>30.9</b>		

<sup>1</sup> LSD for previous years 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.



TABLE 20. Performance of Soybean Varieties following wheat on two soil types near Portageville in Southeast Missouri during 1995.

**Loam**  
 Planted: 15 June 1995  
 Harvested: 24 October 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A.

**Clay**  
 Planted: 19 June 1995  
 Harvested: 24 October 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A.

Soil Type: Tiptonville Silt Loam  
 Previous Crop: Wheat  
 SCN Population at Planting: 480 Eggs  
 Growing Season Moisture: 15.1 Inches

Soil Type: Sharkey Silty Clay  
 Previous Crop: Wheat  
 SCN Population at Planting: 480 Eggs  
 Growing Season Moisture: 15.1 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Loam	Clay	Mean	Loam	Clay	Mean
<b>MATURITY GROUP 4</b>						
<b>VARIETIES</b>						
Manokin	1.0	1.0	1.0	22.2	33.2	27.7
Mycogen 470	1.0	1.0	1.0	23.7	31.6	27.6
MFA Morsoy 9348	1.0	1.0	1.0	22.7	32.3	27.5
Stressland	1.0	1.0	1.0	20.5	31.7	26.1
Delsoy 4710	1.0	1.0	1.0	23.1	26.7	24.9
MFA Morsoy 9345SCN	1.0	1.0	1.0	22.5	27.2	24.8
KS4694	1.0	1.0	1.0	21.4	26.9	24.2
Mustang	1.0	1.0	1.0	19.2	24.6	21.9
<b>MATURITY GROUP 5</b>						
<b>VARIETIES</b>						
Pioneer Variety 9584	1.0	1.0	1.0	32.3*	38.2*	35.2**
Pioneer Variety 9592	1.0	1.0	1.0	31.9*	38.0*	35.0*
Clifford	1.0	1.0	1.0	27.0	41.5**	34.2*
Deltapine Deltapine 105	1.0	1.0	1.0	33.1*	35.4	34.2*
Deltapine DP 3588	1.0	1.0	1.0	30.8*	37.1*	34.0*
Holladay	1.0	1.0	1.0	33.4**	31.8	32.6*
Deltapine Deltapine 415	1.0	1.0	1.0	30.0*	34.2	32.1*
Capehart Stone	1.0	1.0	1.0	32.8*	31.1	32.0*
Hutcheson	1.0	1.0	1.0	32.1*	31.3	31.7*
Deltapine DPX 3571	1.0	1.0	1.0	31.4*	30.1	30.8
Pioneer Variety 9521	1.0	1.0	1.0	25.3	34.9	30.1
Hartwig	1.0	1.0	1.0	23.9	34.5	29.2
Asgrow A5843	1.0	1.0	1.0	27.6*	30.6	29.1
Pioneer Variety 9551	1.0	1.0	1.0	26.4	31.6	29.0
Avery	1.0	1.0	1.0	29.5*	27.1	28.3
Delsoy 4900	1.0	1.0	1.0	26.1	30.1	28.1
<b>TRIAL AVERAGE</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>27.0</b>	<b>32.2</b>	<b>29.6</b>
<b>TRIAL L.S.D. AT .10</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>5.9</b>	<b>5.9</b>	<b>4.1</b>
<b>TRIAL C.V.%</b>				<b>18.4</b>	<b>15.4</b>	<b>16.8</b>

\*\* Highest yielding variety in the trial.  
 \* Yield not significantly less than the highest yielding variety in the trial.  
 NS Not significant.

## PART III

### SOYBEAN CYST NEMATODE TRIALS

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

In 1995, 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 1995, the SCN Index and appropriate SCN Race are summarized below.

#### SCN INDEX

ISOLATE	PEKING	PICKETT	PI 88788	PI 90763	PI 437654
RACE 1	1.3	0.2	4.0	0.5	0.0
RACE 3	0.3	0.7	9.3	0.0	0.3
RACE 4	34.8	104.2	14.3	19.2	0.3

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 sixty-one 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 34 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 37 for a soybean's response to cyst nematodes are defined below:

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

\*Races 1 and 3 are the most common ones in Missouri, representing 68% of all SCN populations. Race 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 six replications was used. Individual plots were four rows wide and 20 feet long. The center two rows of each plot were harvested to determine yield.

**Locations.** On the basis of geographical characteristics and production areas, the state was divided into regions that represent areas of different climates and soil types. SCN variety evaluation trials were located in the northern, central, southwestern and southeastern regions of the state. Trial locations are shown on the adjacent map. In 1995, 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 1995. 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 21. 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 21. CYST NEMATODE SOYBEAN YIELD SUMMARY

LOCATION	NUMBER OF ENTRIES	YIELD (BU/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Chillicothe	59	31-48	40	22
Novelty	59	36-48	42	23
Marshall	67	42-57	50	25
Benton City	67	32-45	38	26
Garden City	46	23-42	34	28
Lamar	46	31-44	39	29
Bertrand	33	20-45	34	31
Clarkton	33	21-41	31	32

TABLE 22. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Chillicothe (Livingston County) on the Harry Hayen Farm during 1994-95.

Planted: 18 June 1995  
 Harvested: 13, 19 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Putnam Silt Loam  
 Soil Test: pH=6.7, OM=2.8%, P=24, K=76

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Broadstrike  
 Post: Galaxy  
 Irrigation: 0.00 Inches  
 Previous Crop: Soybean

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

Cyst Nematode Race: Race = 3

Growing Season Rainfall: May=12.0, June=5.2, July=4.9, Aug.=6.1, Sept.=3.0, TOTAL=31.2 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

**3.0 Maturity Group Check##**

9-28

Scott's Seed 95139R	10-02	35.0	1.0	46.3*	--	--	--	--
Reeds Brand 355 SCN	10-03	34.0	1.0	43.9*	--	--	--	--
Ciba Seeds 3522Y	9-29	35.2	1.0	43.3	--	--	--	--
Dairyland DSR-373	9-29	37.0	1.0	42.7	43.7*	--	43.2	--
Willcross 9539	10-02	33.0	1.0	42.0	--	--	--	--
Asgrow A3134	10-01	30.7	1.0	41.3	--	--	--	--
Jack ###	10-01	37.0	1.5	41.3	42.8*	--	42.1	--
Lewis 391	10-02	35.2	1.0	40.7	44.5*	--	42.6	--
Northrup King S39-11	10-01	33.5	1.0	40.4	--	--	--	--
Terra-TR390SCN	10-02	30.5	1.0	40.3	42.4*	--	41.3	--
Scott's Seed 95237R	10-01	35.0	1.0	40.3	--	--	--	--
Lewis 362	10-01	35.2	1.0	40.2	--	--	--	--
Saline	10-03	34.7	1.0	40.2	40.0	--	40.1	--
Wilson 3630	10-01	37.7	1.0	40.1	--	--	--	--
Reeds Brand 350 SCN	10-04	36.7	1.1	40.1	41.0*	--	40.6	--
Willcross 94	10-02	33.8	1.0	39.8	--	--	--	--
Merschman McKinley II	10-02	30.7	1.0	39.8	37.3	--	38.6	--
Williams 82 ###	10-02	41.0	1.1	39.6	37.2	--	38.4	--
NeCo 1051N	10-01	33.3	1.0	39.6	39.8	--	39.7	--
Pioneer Variety 9394	10-01	36.5	1.1	39.4	36.3	--	37.8	--
Linford	10-03	33.7	1.0	38.8	37.6	--	38.2	--
Dyna-Gro 3391N	10-01	30.0	1.0	38.8	--	--	--	--
JMS JMS 3509c	10-01	32.0	1.0	38.7	--	--	--	--
Ohlde 3403N	10-01	34.0	1.0	38.7	--	--	--	--
Pioneer Variety 9362	10-01	30.0	1.0	38.6	43.1*	--	40.9	--
M/W Genetics G 3660cn	10-01	36.0	1.0	38.6	--	--	--	--
Lynks 5380	10-01	35.7	1.0	38.3	41.8*	--	40.1	--
LG Seeds LG 6392c	10-02	32.7	1.0	38.1	44.7**	--	41.4	--
MFA Morsoy 9335 SCN	10-01	32.0	1.0	37.7	41.9*	--	39.8	--
Dekalb CX394c	10-01	33.8	1.0	37.1	39.8	--	38.5	--
Ohlde 3662N	10-01	34.5	1.0	37.1	41.0*	--	39.1	--
Yale	10-02	33.5	1.0	36.7	41.4*	--	39.1	--
LG Seeds LG 6337c	10-01	28.7	1.0	36.5	42.9*	--	39.7	--
Golden Harvest H-1358	10-01	34.0	1.0	36.5	41.6*	--	39.1	--
MFA Morsoy 9338 SCN	10-01	36.3	1.0	35.5	42.1*	--	38.8	--
Dekalb CX340c	10-01	34.0	1.0	31.2	44.2*	--	37.7	--

**EXPERIMENTAL VARIETIES**

NMSB-4503	10-03	38.0	1.3	48.3**	--	--	--	--
NMSB-4455	10-02	39.0	1.0	44.2*	--	--	--	--
Dairyland DST3125	10-01	31.0	1.0	37.9	44.4*	--	41.2	--
<b>AVERAGE</b>	<b>10-01</b>	<b>34.2</b>	<b>1.0</b>	<b>39.7</b>	<b>40.8</b>	<b>--</b>	<b>40.2</b>	<b>--</b>
L.S.D. AT .10 <sup>1</sup>	<b>1</b>	<b>1.3</b>	<b>0.1</b>	<b>4.5</b>	<b>4.1</b>	<b>--</b>	<b>--</b>	<b>--</b>
C.V. %	<b>0.6</b>	<b>4.0</b>		<b>12.0</b>	<b>8.9</b>			

TABLE 22. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 4</b>							
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	10-02							
Ohlde 4097N	10-02	32.8	1.0	45.3**	--	--	--	--
Heartland Seed AP-40	10-04	39.0	1.0	44.7*	--	--	--	--
Terra-TS4292	10-07	35.3	1.1	44.4*	--	--	--	--
ICI D454	10-05	36.7	1.0	42.8*	44.0*	--	43.4	--
Golden Harvest H-1432	10-06	31.3	1.0	42.7*	--	--	--	--
MFA Morsoy 9441 SCN	10-07	35.5	1.1	42.5*	--	--	--	--
Merschman Richmond III	10-06	38.8	1.0	42.4*	43.0*	--	42.7	--
Stine 4322CN	10-07	40.0	1.0	41.8	41.2	--	41.5	--
Ohlde 4262N	10-07	32.5	1.2	41.6	39.6	--	40.6	--
Golden Harvest X 454	10-04	38.3	1.0	40.1	--	--	--	--
Willcross 9541N	10-08	36.5	1.0	39.9	--	--	--	--
Delsoy 4210	10-06	41.0	1.3	39.4	35.1	--	37.3	--
Terra-TS4792	10-09	48.3	1.8	39.3	--	--	--	--
Willcross 9544N	10-09	40.0	1.0	39.0	--	--	--	--
Lewis 431	10-08	40.3	1.0	38.8	--	--	--	--
Pioneer Variety 9451	10-04	40.0	1.0	38.0	43.0*	--	40.5	--
MFA Morsoy 9444 SCN	10-08	36.8	1.0	37.7	--	--	--	--
Mustang	10-08	42.0	1.0	36.6	41.8*	--	39.2	--
<b>EXPERIMENTAL VARIETIES</b>								
NMSB-129	10-07	37.7	1.0	42.6*	--	--	--	--
NMSB-89	10-09	40.8	1.1	38.9	--	--	--	--
5.0 Maturity Group Check##	10-13							
<b>AVERAGE</b>	<b>10-07</b>	<b>38.2</b>	<b>1.1</b>	<b>40.9</b>	<b>40.5</b>	--	<b>40.7</b>	--
<b>L.S.D. AT .10<sup>1</sup></b>	<b>1</b>	<b>1.1</b>	<b>0.1</b>	<b>3.4</b>	<b>3.2</b>			
<b>C.V.%</b>	<b>0.5</b>	<b>3.0</b>		<b>8.6</b>	<b>5.6</b>			
<b>TRIAL AVERAGE</b>		<b>35.6</b>	<b>1.0</b>	<b>40.1</b>	<b>40.7</b>	--	<b>40.4</b>	--

<sup>1</sup> LSD for previous years 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 23. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Novelty (Knox County) on the Greenly Memorial Farm during 1994-95 and near Edina on the Steve Miller Farm during 1993.

Planted: 16 June 1995  
 Harvested: 10 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Putnam Silt Loam  
 Soil Test: pH=6.9, OM=2.4%, P=55, K=322

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Dual + Scepter  
 Post: Blazer  
 Irrigation: 0.00 Inches  
 Previous Crop: Soybean

Cyst Nematode Population at Harvest: 15520 eggs / 250cc of Soil  
 Cyst Nematode Race: Race = 3  
 Growing Season Rainfall: May=12.6, June=3.4, July=6.9, Aug.=9.3, Sept.=3.1, TOTAL=35.3 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

3.0 Maturity Group Check##	10-01							
Dyna-Gro 3391N	10-01	36.5	2.0	47.7*	--	--	--	--
Pioneer Variety 9362	10-01	32.7	1.1	45.2*	54.3*	24.6	49.8	41.4
Scott's Seed 95139R	10-06	36.2	2.0	45.1*	--	--	--	--
Dekalb CX340c	10-02	36.7	1.9	44.8	53.5*	28.1	49.2	42.1
Dairyland DSR-373	10-02	35.2	1.8	44.7	53.4*	29.1	49.1	42.4
Terra-TR390SCN	10-02	35.0	1.5	44.4	51.4	23.7	47.9	39.8
Ciba Seeds 3522Y	10-01	35.5	1.6	44.2	--	--	--	--
Jack ###	10-01	37.2	4.3	44.2	52.1	--	48.2	--
MFA Morsoy 9335 SCN	10-01	35.3	1.6	44.1	51.7	--	47.9	--
LG Seeds LG 6337c	10-01	30.0	1.1	44.0	51.7	27.1	47.9	40.9
NeCo 1051N	10-03	35.8	1.5	43.9	53.5*	--	48.7	--
Scott's Seed 95237R	10-03	36.2	1.8	43.5	--	--	--	--
M/W Genetics G 3660cn	10-03	35.3	1.6	43.4	--	26.8	--	--
Golden Harvest H-1358	10-02	35.5	1.4	43.2	53.1*	--	48.2	--
Willcross 94	10-04	35.7	1.8	43.2	--	26.3	--	--
Ohlde 3403N	10-01	33.7	1.3	43.1	--	--	--	--
Reeds Brand 355 SCN	10-06	36.7	1.5	43.0	--	--	--	--
Lewis 362	10-02	35.5	1.8	43.0	--	--	--	--
MFA Morsoy 9338 SCN	10-01	35.8	2.3	42.9	53.0*	21.2	48.0	39.0
Asgrow A3134	9-29	31.0	1.3	42.8	--	--	--	--
Dekalb CX394c	10-05	38.0	2.1	42.7	52.1	--	47.4	--
Ohlde 3662N	10-02	33.8	1.7	42.5	51.4	27.1	47.0	40.3
Merschman McKinley II	10-05	33.3	1.7	42.3	52.7*	31.1*	47.5	42.0
LG Seeds LG 6392c	10-03	34.5	1.5	42.2	50.2	23.0	46.2	38.5
Northrup King S39-11	10-05	35.7	2.1	42.1	--	33.0*	--	--
Lynks 5380	10-03	37.0	2.0	42.0	53.4*	25.4	47.7	40.3
Pioneer Variety 9394	10-04	35.2	2.8	41.8	53.9*	34.7*	47.8	43.5
JMS JMS 3509c	10-02	33.7	1.3	41.6	--	--	--	--
Linford	10-04	38.5	3.4	41.5	51.4	29.2	46.5	40.7
Williams 82 ###	10-07	39.5	2.8	41.0	46.5	30.4	43.8	39.3
Willcross 9539	10-07	31.5	1.3	41.0	--	--	--	--
Lewis 391	10-03	35.7	1.4	40.6	51.0	--	45.8	--
Saline	10-07	36.0	1.9	39.9	54.4*	25.5	47.2	39.9
Reeds Brand 350 SCN	10-07	37.2	1.4	39.7	53.4*	24.2	46.6	39.1
Wilson 3630	10-02	36.5	1.8	38.6	--	--	--	--
Yale	10-06	31.7	1.5	38.0	52.9*	25.1	45.5	38.7

**EXPERIMENTAL VARIETIES**

NMSB-4455	10-05	42.0	4.0	47.9**	--	--	--	--
Dairyland DST3125	10-01	34.5	1.8	46.2*	53.5*	--	49.9	--
NMSB-4503	10-05	39.7	4.1	44.9*	--	--	--	--
<b>AVERAGE</b>	<b>10-03</b>	<b>35.5</b>	<b>1.9</b>	<b>42.9</b>	<b>51.9</b>	<b>26.2</b>	<b>47.4</b>	<b>40.3</b>
L.S.D. AT .10 <sup>1</sup>	1	1.9	0.6	3.0	4.1	5.9		
C.V. %	0.4	5.6		7.4	7.0	19.9		

TABLE 23. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 4</b>							
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	10-04							
Ohlde 4097N	10-04	36.5	1.5	45.2**	--	--	--	--
Heartland Seed AP-40	10-06	36.3	2.8	45.0*	--	--	--	--
ICI D454	10-08	40.5	3.3	42.7*	46.0*	26.4	44.4	38.4
Mustang	10-09	39.7	3.3	42.4*	45.8*	--	44.1	--
MFA Morsoy 9441 SCN	10-07	36.8	4.4	42.3*	--	--	--	--
Terra-TS4292	10-08	38.0	3.9	42.2*	--	39.8**	--	--
Merschman Richmond III	10-08	39.7	2.8	42.0	45.2	28.1	43.6	38.4
Ohlde 4262N	10-08	38.8	4.1	41.7	46.5*	31.6	44.1	39.9
MFA Morsoy 9444 SCN	10-10	39.2	2.8	41.2	--	--	--	--
Stine 4322CN	10-08	37.8	4.3	41.2	47.0*	37.0*	44.1	41.7
Delsoy 4210	10-08	41.3	4.8	41.2	45.3	33.6	43.3	40.0
Golden Harvest H-1432	10-09	35.3	2.6	41.0	--	--	--	--
Golden Harvest X 454	10-07	38.8	2.6	40.6	--	--	--	--
Lewis 431	10-11	39.3	2.6	40.6	--	--	--	--
Willcross 9541N	10-07	35.7	3.6	38.8	--	--	--	--
Pioneer Variety 9451	10-06	40.3	3.8	38.7	45.5	34.0	42.1	39.4
Willcross 9544N	10-11	44.2	2.8	37.9	--	--	--	--
Terra-TS4792	10-10	47.8	5.0	36.3	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
NMSB-129	10-09	37.5	3.3	40.7	--	--	--	--
NMSB-89	10-10	39.3	3.9	38.1	--	--	--	--
5.0 Maturity Group Check##	10-13							
<b>AVERAGE</b>	<b>10-08</b>	<b>39.1</b>	<b>3.4</b>	<b>41.0</b>	<b>44.7</b>	<b>33.0</b>	<b>42.8</b>	<b>39.6</b>
L.S.D. AT .10 <sup>1</sup>	1	2.4	0.8	3.1	2.9	4.8		
C.V. %	0.3	6.5		8.0	5.6	12.9		
<b>TRIAL AVERAGE</b>		<b>36.7</b>	<b>2.4</b>	<b>42.3</b>	<b>49.7</b>	<b>28.9</b>	<b>46.0</b>	<b>40.3</b>

<sup>1</sup> LSD for previous years 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 24. Performance of Soybean Cyst Nematode Resistant Soybean Varieties evaluated at two Northern Missouri locations (Chillicothe and Novelty) during 1995.

Chillicothe  
 Planted: 18 June 1995  
 Harvested: 13, 19 Oct. 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A  
 Soil Type: Putnam Silt Loam  
 Previous Crop: Soybeans  
 SCN Pop. at Planting: 2100 Eggs  
 Growing Season Moisture: 31.2 Inches

Novelty  
 Planted: 16 June 1995  
 Harvested: 10 October 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A  
 Soil Type: Putnam Silt Loam  
 Previous Crop: Soybean  
 SCN Pop. at Harvest: 15520 Eggs  
 Growing Season Moisture: 35.2 Inches

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

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

Scott's Seed 95139R	1.0	2.0	1.5	46.3*	45.1*	45.7*
Ciba Seeds 3522Y	1.0	1.6	1.3	43.3	44.2	43.8
Dairyland DSR-373	1.0	1.8	1.4	42.7	44.7	43.7
Reeds Brand 355 SCN	1.0	1.5	1.2	43.9*	43.0	43.4
Dyna-Gro 3391N	1.0	2.0	1.5	38.8	47.7*	43.2
Jack ###	1.5	4.3	2.9	41.3	44.2	42.8
Terra-TR390SCN	1.0	1.5	1.2	40.3	44.4	42.4
Asgrow A3134	1.0	1.3	1.2	41.3	42.8	42.0
Scott's Seed 95237R	1.0	1.8	1.4	40.3	43.5	41.9
Pioneer Variety 9362	1.0	1.1	1.0	38.6	45.2*	41.9
NeCo 1051N	1.0	1.5	1.2	39.6	43.9	41.8
Lewis 362	1.0	1.8	1.4	40.2	43.0	41.6
Willcross 94	1.0	1.8	1.4	39.8	43.2	41.5
Willcross 9539	1.0	1.3	1.2	42.0	41.0	41.5
Northrup King S39-11	1.0	2.1	1.6	40.4	42.1	41.2
M/W Genetics G 3660cn	1.0	1.6	1.3	38.6	43.4	41.0
Merschman McKinley II	1.0	1.7	1.4	39.8	42.3	41.0
MFA Morsoy 9335 SCN	1.0	1.6	1.3	37.7	44.1	40.9
Ohlde 3403N	1.0	1.3	1.2	38.7	43.1	40.9
Lewis 391	1.0	1.4	1.2	40.7	40.6	40.6
Pioneer Variety 9394	1.1	2.8	2.0	39.4	41.8	40.6
Williams 82 ###	1.1	2.8	2.0	39.6	41.0	40.3
Lynks 5380	1.0	2.0	1.5	38.3	42.0	40.2
LG Seeds LG 6337c	1.0	1.1	1.0	36.5	44.0	40.2
LG Seeds LG 6392c	1.0	1.5	1.2	38.1	42.2	40.2
Linford	1.0	3.4	2.2	38.8	41.5	40.2
JMS JMS 3509c	1.0	1.3	1.2	38.7	41.6	40.2
Saline	1.0	1.9	1.4	40.2	39.9	40.0
Dekalb CX394c	1.0	2.1	1.6	37.1	42.7	39.9
Reeds Brand 350 SCN	1.1	1.4	1.2	40.1	39.7	39.9
Golden Harvest H-1358	1.0	1.4	1.2	36.5	43.2	39.8
Ohlde 3662N	1.0	1.7	1.4	37.1	42.5	39.8
Wilson 3630	1.0	1.8	1.4	40.1	38.6	39.4
MFA Morsoy 9338 SCN	1.0	2.3	1.6	35.5	42.9	39.2
Dekalb CX340c	1.0	1.9	1.4	31.2	44.8	38.0
Yale	1.0	1.5	1.2	36.7	38.0	37.4

**EXPERIMENTAL VARIETIES**

NMSB-4503	1.3	4.1	2.7	48.3**	44.9*	46.6**
NMSB-4455	1.0	4.0	2.5	44.2**	47.9**	46.0*
Dairyland DST3125	1.0	1.8	1.4	37.9	46.2*	42.0
<b>AVERAGE</b>	<b>1.0</b>	<b>1.9</b>	<b>1.5</b>	<b>39.7</b>	<b>42.9</b>	<b>41.3</b>
L.S.D. AT .10	0.1	0.6	0.3	4.5	3.0	2.7
C.V.%				12.0	7.4	9.7



TABLE 24. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Chillicothe	Novelty	Mean	Chillicothe	Novelty	Mean
<b>MATURITY GROUP 4</b>						
<b>COMMERCIAL VARIETIES</b>						
Heartland Seed AP-40	1.0	2.8	1.9	44.7*	45.0*	44.8**
Ohlde 4097N	1.0	1.3	1.2	45.3**	43.1*	44.2*
Terra-TS4292	1.1	3.9	2.5	44.4*	42.2*	43.3*
ICI D454	1.0	3.3	2.2	42.8*	42.7*	42.8*
MFA Morsoy 9441 SCN	1.1	4.4	2.8	42.5*	42.3*	42.4
Merschman Richmond III	1.0	2.8	1.9	42.4*	42.0	42.2
Golden Harvest H-1432	1.0	2.6	1.8	42.7*	41.0	41.8
Ohlde 4262N	1.2	4.1	2.6	41.6*	41.7	41.6
Stine 4322CN	1.0	4.3	2.6	41.8*	41.2	41.5
Golden Harvest X 454	1.0	2.6	1.8	40.1	40.6	40.4
Delsoy 4210	1.3	4.8	3.0	39.4	41.2	40.3
Lewis 431	1.0	2.6	1.8	38.8	40.6	39.7
Mustang	1.0	3.3	2.2	36.6	42.4*	39.5
MFA Morsoy 9444 SCN	1.0	2.8	1.9	37.7	41.2	39.4
Willcross 9541N	1.0	3.6	2.3	39.9	38.8	39.4
Pioneer Variety 9451	1.0	3.8	2.4	38.0	38.7	38.4
Willcross 9544N	1.0	2.8	1.9	39.0	37.9	38.4
Terra-TS4792	1.8	5.0	3.4	39.3	36.3	37.8
<b>EXPERIMENTAL VARIETIES</b>						
NMSB-129	1.0	3.3	2.2	42.6*	40.7	41.6
NMSB-89	1.1	3.9	2.5	38.9	38.1	38.5
<b>AVERAGE</b>	<b>1.1</b>	<b>3.4</b>	<b>2.2</b>	<b>40.9</b>	<b>41.0</b>	<b>41.0</b>
L.S.D. AT .10	0.1	0.8	0.4	3.4	3.1	2.3
C.V. %				8.6	8.0	8.2
<b>TRIAL AVERAGE</b>	<b>1.0</b>	<b>2.4</b>	<b>1.7</b>	<b>40.1</b>	<b>42.3</b>	<b>41.2</b>

\*\* 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 25. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1995 and near Brunswick (Carroll County) on the Meyers Farm during 1992,94.

Planted: 22 May 1995  
 Harvested: 2, 13 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Monona Silt Loam  
 Soil Test: pH=6.1, OM=3.2%, P=91, K=352

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=100; K<sub>2</sub>O=100  
 Herbicide: Pre: Dual + Scepter  
 Post: Blazer, Galaxy  
 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=11.7, June=4.0, July=6.5, Aug.=6.4, Sept.=1.4, TOTAL=30.0 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

3.0 Maturity Group Check##	9-17							
Willcross 9539	9-22	42.8	3.0	57.4**	--	--	--	--
Asgrow A3431	9-18	47.3	2.7	56.8*	35.1*	62.9*	46.0	51.6
Reeds Brand 355 SCN	9-22	43.7	3.0	56.4*	--	--	--	--
Asgrow A3732	9-21	41.8	3.3	53.9*	--	--	--	--
Merschman McKinley II	9-20	51.5	4.3	53.2	29.3	--	41.3	--
Bergmann-Taylor 399C	9-18	41.2	2.8	52.6	33.7*	59.6	43.2	48.6
Lewis 391	9-18	45.7	2.8	51.8	35.8*	--	43.8	--
Terra-TR390SCN	9-17	42.5	2.3	51.6	23.0	60.4*	37.3	45.0
McAllister Recyster	9-19	44.8	2.7	51.6	--	61.6*	--	--
Dyna-Gro 339IN	9-17	43.7	2.8	51.4	--	--	--	--
MFA Morsoy 9335 SCN	9-17	43.0	2.2	51.1	30.2*	--	40.7	--
Clayton Seed CS 9437	9-18	45.7	3.4	51.0	--	--	--	--
Bergmann-Taylor 386C	9-19	42.2	2.8	50.9	--	--	--	--
Freedom 4350	9-17	40.8	4.2	50.6	--	--	--	--
Yale	9-24	44.5	4.3	50.5	27.8	--	39.2	--
Lewis 362	9-17	39.7	4.0	50.2	--	--	--	--
Ciba Seeds 3522Y	9-17	43.5	2.9	49.7	--	--	--	--
Willcross 94	9-17	42.7	2.8	49.3	--	--	--	--
NeCo 1051N	9-18	39.7	4.5	49.2	24.8	--	37.0	--
Saline	9-24	45.2	3.9	49.1	30.3*	--	39.7	--
Pioneer Variety 9362	9-16	49.7	4.3	49.1	37.6**	--	43.4	--
Dekalb CX394c	9-24	40.8	2.7	48.4	--	--	--	--
Lynks 5380	9-18	40.5	3.7	48.4	29.9	--	39.2	--
MFA Morsoy 9338 SCN	9-18	46.5	4.1	47.7	24.7	--	36.2	--
Pioneer Variety 9394	9-20	39.5	4.0	47.3	30.6*	--	39.0	--
Ray Carroll RC-938cy	9-18	41.0	4.0	46.8	--	58.6	--	--
NeCo 7395N	9-23	44.8	2.7	45.8	--	--	--	--
Williams 82 ####	9-22	42.2	3.1	45.2	21.7	--	33.5	--
Northrup King S39-11	9-19	44.2	3.2	43.5	27.6	55.9	35.6	42.3
Reeds Brand 360 SCN	9-22	44.3	2.9	43.4	28.8	65.7**	36.1	46.0
Linford	9-22	44.5	2.7	43.0	32.4*	58.3	37.7	44.6

**EXPERIMENTAL VARIETIES**

NMSB-4455	9-22	44.0	4.3	45.3	--	--	--	--
NMSB-4503	9-21	42.7	2.3	45.0	--	--	--	--
<b>AVERAGE</b>	<b>9-20</b>	<b>43.5</b>	<b>3.3</b>	<b>49.6</b>	<b>28.6</b>	<b>59.0</b>	<b>39.1</b>	<b>45.7</b>
L.S.D. AT .10 <sup>1</sup>		2	0.8	3.8	7.6	5.5		
C.V.%		0.7	7.4	8.0	18.9	8.3		

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

4.0 Maturity Group Check##	9-21							
Stine 4572	10-01	35.0	1.4	56.2**	--	--	--	--
Bergmann-Taylor 436C	9-28	36.7	1.8	55.6*	--	--	--	--
NeCo 7445N	10-01	38.3	4.8	55.5*	--	--	--	--
Lynks 5451	9-27	39.3	4.2	55.2*	--	--	--	--

TABLE 25. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1992	2 Yr.	3 Yr.
	Lewis 431	10-01	40.7	1.0	55.0*	--	--	--
Heartland Seed AP-40	9-25	39.8	1.6	54.5*	--	--	--	--
LG Seeds LG 6462c	10-01	37.0	2.9	53.9*	--	--	--	--
ICI D454	9-27	38.8	1.9	53.7*	29.6	58.2**	41.7	47.2
Bergmann-Taylor 445C	10-01	40.7	2.2	53.6*	32.1*	--	42.9	--
LG Seeds LG 6437c	9-27	39.8	2.1	53.4*	--	--	--	--
Ciba Seeds 4305Y	9-28	38.7	1.9	53.2*	--	--	--	--
Willcross 9544N	10-01	46.2	4.3	52.8*	--	--	--	--
MFA Morsoy 9444 SCN	10-01	40.0	1.8	52.8*	--	--	--	--
Golden Harvest X 454	9-27	43.7	2.3	52.4	--	--	--	--
MFA Morsoy 9245 SCN	9-27	39.3	1.8	51.8	27.5	--	39.7	--
Freedom 4437	9-28	38.8	1.9	51.7	--	--	--	--
Terra-TS4292	9-28	39.2	1.6	51.4	33.1*	--	42.3	--
Merschman Richmond III	9-27	42.3	4.3	51.2	33.8*	--	42.5	--
Willcross 9541N	9-28	39.0	2.3	50.8	--	--	--	--
Mustang	9-29	36.7	1.0	50.8	31.1*	--	41.0	--
Lewis 405	9-28	39.0	1.8	49.8	27.7	--	38.8	--
MFA Morsoy 9441 SCN	9-28	38.7	1.7	49.7	--	--	--	--
Golden Harvest H-1432	9-28	43.5	2.3	49.4	--	--	--	--
Stine 4322CN	9-28	38.2	1.8	48.9	35.5**	--	42.2	--
NeCo 7415N	9-27	38.5	2.3	48.6	--	--	--	--
Dekalb CX469c	9-29	39.0	2.3	47.0	32.8*	48.9	39.9	42.9
MFA Morsoy 9345 SCN	10-01	40.8	1.8	47.0	32.0*	55.6*	39.5	44.9
Pioneer Variety 9451	9-29	44.7	4.3	46.5	29.9	--	38.2	--
Northrup King S42-32	9-28	42.5	1.8	46.2	30.4	--	38.3	--
Delsoy 4210	9-28	40.0	3.0	45.7	31.6*	54.6*	38.7	44.0
Terra-TS4792	10-01	37.0	2.0	45.3	--	--	--	--
NeCo 7475N	10-01	35.7	1.0	42.2	--	--	--	--
<b>EXPERIMENTAL VARIETIES</b>								
NMSB-129	9-27	42.5	4.4	50.7	--	--	--	--
NMSB-89	10-01	41.0	4.2	48.7	--	--	--	--
5.0 Maturity Group Check##	10-02							
<b>AVERAGE</b>	<b>9-29</b>	<b>39.7</b>	<b>2.4</b>	<b>50.9</b>	<b>30.6</b>	<b>50.8</b>	<b>40.8</b>	<b>44.1</b>
L.S.D. AT .10 <sup>1</sup>	1	2.1	0.7	3.6	5.0	5.5		
C.V. %	0.3	5.7		7.6	14.3	9.5		
<b>TRIAL AVERAGE</b>		<b>40.9</b>	<b>2.9</b>	<b>50.2</b>	<b>29.5</b>	<b>56.1</b>	<b>39.8</b>	<b>45.3</b>

<sup>1</sup> LSD for previous years 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 26. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Benton City (Audrain County) on the Robert and Bruce Boyes Farm during 1993-95.

Planted: 19 June 1995  
 Harvested: 11, 18 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Putnam Silt Loam  
 Soil Test: pH=6.2, OM=2.2%, P=22, K=89

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Lasso + Scepter  
 Post: Blazer, Poast  
 Irrigation: 0.00 Inches  
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 10080 Eggs / 250cc of Soil  
 Cyst Nematode Race: Race = 3  
 Growing Season Rainfall: May=10.7, June=3.7, July=2.1, Aug.=3.8, Sept.=2.2, TOTAL=22.5 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 3</b>							
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-27							
Northrup King S39-11	9-29	33.5	1.0	45.3**	41.3*	41.0*	43.3	42.5
Lewis 391	9-28	32.0	1.0	44.5*	39.1*	--	41.8	--
NeCo 7395N	10-01	35.5	1.0	44.4*	--	--	--	--
Willcross 9539	10-01	28.5	1.0	44.3*	--	--	--	--
Freedom 4350	9-27	31.0	1.0	44.2*	--	--	--	--
Bergmann-Taylor 386C	9-27	31.0	1.0	44.1*	--	--	--	--
Willcross 94	9-28	30.0	1.0	42.8*	--	36.8	--	--
Lewis 362	9-28	30.0	1.0	42.2*	--	--	--	--
Merschman McKinley II	9-29	27.0	1.0	41.9*	38.9	38.6*	40.4	39.8
Bergmann-Taylor 399C	9-28	31.0	1.0	41.9*	38.4	35.5	40.2	38.6
Clayton Seed CS 9437	9-28	32.0	1.0	41.6*	--	--	--	--
Pioneer Variety 9394	9-29	33.0	1.0	41.5*	39.1*	39.2*	40.3	39.9
Reeds Brand 360 SCN	10-01	34.5	1.0	41.4*	38.4	42.5**	39.9	40.8
Linford	9-29	35.5	1.0	41.2*	38.8	39.3*	40.0	39.8
Dyna-Gro 3391N	9-27	31.0	1.0	40.5	--	--	--	--
Terra-TR390SCN	9-27	29.5	1.0	40.3	42.3*	37.2	41.3	39.9
NeCo 1051N	9-28	31.0	1.0	40.3	40.7*	--	40.5	--
McAllister Recyster	9-28	29.5	1.0	39.9	--	39.9*	--	--
Ciba Seeds 3522Y	9-27	29.5	1.0	39.6	--	--	--	--
Reeds Brand 355 SCN	9-29	30.5	1.0	39.0	--	--	--	--
Asgrow A3732	9-28	29.0	1.0	38.8	--	--	--	--
Williams 82 ####	10-01	35.5	1.0	38.4	34.3	38.2*	36.3	37.0
Asgrow A3431	9-27	27.0	1.0	38.0	42.9*	38.2*	40.5	39.7
Lynks 5380	9-28	31.5	1.0	37.9	39.8*	38.5*	38.8	38.7
Dekalb CX394c	9-29	30.5	1.0	37.6	--	--	--	--
MFA Morsoy 9335 SCN	9-28	30.0	1.0	37.3	40.3*	--	38.8	--
Saline	10-01	32.5	1.0	36.7	40.1*	41.1*	38.4	39.3
MFA Morsoy 9338 SCN	9-27	31.5	1.0	36.5	39.1*	38.1*	37.8	37.9
Ray Carroll RC-938cy	9-29	28.5	1.0	36.0	--	37.2	--	--
Pioneer Variety 9362	9-27	25.5	1.0	35.4	40.2*	38.3*	37.8	38.0
Yale	9-28	25.5	1.0	34.8	38.0	39.2*	36.4	37.3
<b>EXPERIMENTAL VARIETIES</b>								
NMSB-4455	10-01	38.5	1.0	43.7*	--	--	--	--
NMSB-4503	9-28	37.5	1.0	41.3*	--	--	--	--
<b>AVERAGE</b>	<b>9-28</b>	<b>31.2</b>	<b>1.0</b>	<b>40.4</b>	<b>39.7</b>	<b>38.0</b>	<b>40.0</b>	<b>39.4</b>
L.S.D. AT .10 <sup>1</sup>	<b>1</b>	<b>2.0</b>	<b>NS</b>	<b>4.1</b>	<b>3.9</b>	<b>4.9</b>		
C.V. %	<b>0.3</b>	<b>6.7</b>		<b>10.8</b>	<b>8.5</b>	<b>11.4</b>		

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

4.0 Maturity Group Check##	10-04							
LG Seeds LG 6462c	10-05	35.5	1.1	39.9**	--	--	--	--
Heartland Seed AP-40	10-01	32.0	1.0	38.6*	--	--	--	--
Freedom 4437	10-01	36.5	1.2	38.6*	--	--	--	--
Lewis 405	10-01	39.5	1.3	38.1*	38.5*	45.2*	38.3	40.6

TABLE 26. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	Dekalb CX469c	10-03	38.0	1.3	38.0*	37.6	45.9*	37.8
MFA Morsoy 9441 SCN	10-02	33.0	1.3	37.7*	--	--	--	--
Willcross 9541N	10-02	32.0	1.0	37.3*	--	--	--	--
Terra-TS4792	10-03	42.5	1.6	36.9*	--	--	--	--
MFA Morsoy 9345 SCN	10-04	37.0	1.5	36.5*	32.4	39.1	34.5	36.0
Mustang	10-03	35.0	1.1	36.4*	39.6*	--	38.0	--
Stine 4572	10-05	29.5	1.1	36.3*	--	--	--	--
Delsoy 4210	10-02	36.5	1.7	36.1*	35.9	43.7	36.0	38.6
Terra-TS4292	10-03	29.0	1.3	36.1*	39.6*	45.9*	37.9	40.5
Lynks 5451	10-01	31.5	1.0	35.8	--	--	--	--
Golden Harvest X 454	10-01	31.0	1.2	35.8	--	--	--	--
Lewis 431	10-05	32.5	1.1	35.8	--	--	--	--
Ciba Seeds 4305Y	10-01	36.0	1.2	35.5	--	--	--	--
MFA Morsoy 9444 SCN	10-04	33.0	1.0	35.5	--	--	--	--
Merschman Richmond III	10-02	33.0	1.2	35.3	39.9*	41.1	37.6	38.8
NeCo 7415N	10-03	31.0	1.3	35.0	--	--	--	--
Stine 4322CN	10-02	29.0	1.0	35.0	40.7*	46.7*	37.9	40.8
Willcross 9544N	10-05	36.0	1.0	34.8	--	--	--	--
Pioneer Variety 9451	10-01	34.5	1.2	34.3	39.9*	41.5	37.1	38.6
LG Seeds LG 6437c	10-01	34.0	1.0	34.2	--	--	--	--
NeCo 7445N	10-05	32.0	1.1	34.2	--	--	--	--
Bergmann-Taylor 436C	10-04	31.0	1.0	34.2	--	--	--	--
NeCo 7475N	10-05	41.5	1.6	33.8	--	--	--	--
MFA Morsoy 9245 SCN	10-02	33.5	1.0	33.7	38.6*	42.1	36.2	38.1
Bergmann-Taylor 445C	10-05	33.0	1.0	33.6	38.1*	--	35.9	--
Northrup King S42-32	10-02	33.5	1.6	32.7	41.4**	44.8*	37.1	39.6
ICI D454	10-01	30.0	1.0	32.2	39.3*	47.7*	35.8	39.7
Golden Harvest H-1432	10-02	25.5	1.0	31.8	--	--	--	--
5.0 Maturity Group Check##	10-17							
<b>EXPERIMENTAL VARIETIES</b>								
NMSB-129	10-02	30.5	1.0	37.5*	--	--	--	--
NMSB-89	10-04	35.0	1.3	35.2	--	--	--	--
<b>AVERAGE</b>	<b>10-03</b>	<b>33.6</b>	<b>1.2</b>	<b>35.7</b>	<b>38.4</b>	<b>43.2</b>	<b>37.0</b>	<b>39.1</b>
L.S.D. AT .10 <sup>1</sup>	1	3.8	0.2	3.8	3.3	4.5		
C.V. %	0.3	12.1		11.2	7.5	9.3		
<b>TRIAL AVERAGE</b>		<b>32.4</b>	<b>1.1</b>	<b>38.0</b>	<b>39.1</b>	<b>40.0</b>	<b>38.6</b>	<b>39.0</b>

<sup>1</sup> LSD for previous years 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 27. Performance of Soybean Cyst Nematode Resistant Soybean Varieties evaluated at two Central Missouri locations (Marshall and Benton City) during 1995.

**Marshall**  
 Planted: 22 May 1995  
 Harvested: 2, 13 October 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A  
 Soil Type: Monona Silt Loam  
 Previous Crop: Corn  
 SCN Pop. at Planting: 2640 Eggs  
 Growing Season Moisture: 30.0 Inches

**Benton City**  
 Planted: 19 June 1995  
 Harvested: 11, 18 October 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A  
 Soil Type: Putnam Silt Loam  
 Previous Crop: Soybean  
 SCN Pop. at Planting: 10080 Eggs  
 Growing Season Moisture: 22.5 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Marshall	Bentn Cty	Mean	Marshall	Bentn Cty	Mean

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

Willcross 9539	3.0	1.0	2.0	57.4**	44.3*	50.8**
Lewis 391	2.8	1.0	1.9	51.8	44.5*	48.2*
Reeds Brand 355 SCN	3.0	1.0	2.0	56.4*	39.0	47.7
Merschman McKinley II	4.3	1.0	2.6	53.2	41.9*	47.6
Bergmann-Taylor 386C	2.8	1.0	1.9	50.9	44.1*	47.5
Asgrow A3431	2.7	1.0	1.8	56.8*	38.0	47.4
Freedom 4350	4.2	1.0	2.6	50.6	44.2*	47.4
Bergmann-Taylor 399C	2.8	1.0	1.9	52.6	41.9*	47.2
Asgrow A3732	3.3	1.0	2.2	53.9*	38.8	46.4
Clayton Seed CS 9437	3.4	1.0	2.2	51.0	41.6*	46.3
Lewis 362	4.0	1.0	2.5	50.2	42.2*	46.2
Terra-TR390SCN	2.3	1.0	1.6	51.6	40.3	46.0
Willcross 94	2.8	1.0	1.9	49.3	42.8*	46.0
Dyna-Gro 3391N	2.8	1.0	1.9	51.4	40.5	46.0
McAllister Recyster	2.7	1.0	1.8	51.6	39.9	45.8
NeCo 7395N	2.7	1.0	1.8	45.8	44.4*	45.1
NeCo 1051N	4.5	1.0	2.8	49.2	40.3	44.8
Ciba Seeds 3522Y	2.9	1.0	2.0	49.7	39.6	44.6
Pioneer Variety 9394	4.0	1.0	2.5	47.3	41.5*	44.4
Northrup King S39-11	3.2	1.0	2.1	43.5	45.3**	44.4
MFA Morsoy 9335 SCN	2.2	1.0	1.6	51.1	37.3	44.2
Lynks 5380	3.7	1.0	2.4	48.4	37.9	43.2
Dekalb CX394c	2.7	1.0	1.8	48.4	37.6	43.0
Saline	3.9	1.0	2.4	49.1	36.7	42.9
Yale	4.3	1.0	2.6	50.5	34.8	42.6
Reeds Brand 360 SCN	2.9	1.0	2.0	43.4	41.4*	42.4
Pioneer Variety 9362	4.3	1.0	2.6	49.1	35.4	42.2
Linford	2.7	1.0	1.8	43.0	41.2*	42.1
MFA Morsoy 9338 SCN	4.1	1.0	2.6	47.7	36.5	42.1
Williams 82 ####	3.1	1.0	2.0	45.2	38.4	41.8
Ray Carroll RC-938cy	4.0	1.0	2.5	46.8	36.0	41.4

**EXPERIMENTAL VARIETIES**

NMSB-4455	4.3	1.0	2.6	45.3	43.7*	44.5
NMSB-4503	2.3	1.0	1.6	45.0	41.3*	43.2
<b>AVERAGE</b>	<b>3.3</b>	<b>1.0</b>	<b>2.1</b>	<b>49.6</b>	<b>40.4</b>	<b>45.0</b>
L.S.D. AT .10	0.8	NS	0.4	3.8	4.1	2.8
C.V. %				8.0	10.8	9.3

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

LG Seeds LG 6462c	2.9	1.1	2.0	53.9*	39.9**	46.9**
Heartland Seed AP-40	1.6	1.0	1.3	54.5*	38.6*	46.6*
Stine 4572	1.4	1.1	1.2	56.2**	36.3*	46.2*
Lynks 5451	4.2	1.0	2.6	55.2*	35.8	45.5*
Lewis 431	1.0	1.1	1.0	55.0*	35.8	45.4*

TABLE 27. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Marshall	Bentn Cty	Mean	Marshall	Bentn Cty	Mean
Freedom 4437	1.9	1.2	1.6	51.7	38.6*	45.2*
Bergmann-Taylor 436C	1.8	1.0	1.4	55.6*	34.2	44.9*
NeCo 7445N	4.8	1.1	3.0	55.5*	34.2	44.8*
Ciba Seeds 4305Y	1.9	1.2	1.6	53.2*	35.5	44.4*
MFA Morsoy 9444 SCN	1.8	1.0	1.4	52.8*	35.5	44.2
Golden Harvest X 454	2.3	1.2	1.8	52.4	35.8	44.1
Willcross 9541N	2.3	1.0	1.6	50.8	37.3*	44.0
Lewis 405	1.8	1.3	1.6	49.8	38.1*	44.0
Willcross 9544N	4.3	1.0	2.6	52.8*	34.8	43.8
Terra-TS4292	1.6	1.3	1.4	51.4	36.1*	43.8
LG Seeds LG 6437c	2.1	1.0	1.6	53.4*	34.2	43.8
MFA Morsoy 9441 SCN	1.7	1.3	1.5	49.7	37.7*	43.7
Mustang	1.0	1.1	1.0	50.8	36.4*	43.6
Bergmann-Taylor 445C	2.2	1.0	1.6	53.6*	33.6	43.6
Merschman Richmond III	4.3	1.2	2.8	51.2	35.3	43.2
ICI D454	1.9	1.0	1.4	53.7*	32.2	43.0
MFA Morsoy 9245 SCN	1.8	1.0	1.4	51.8	33.7	42.8
Dekalb CX469c	2.3	1.3	1.8	47.0	38.0*	42.5
Stine 4322CN	1.8	1.0	1.4	48.9	35.0	42.0
NeCo 7415N	2.3	1.3	1.8	48.6	35.0	41.8
MFA Morsoy 9345 SCN	1.8	1.5	1.6	47.0	36.5*	41.8
Terra-TS4792	2.0	1.6	1.8	45.3	36.9*	41.1
Delsoy 4210	3.0	1.7	2.4	45.7	36.1*	40.9
Golden Harvest H-1432	2.3	1.0	1.6	49.4	31.8	40.6
Pioneer Variety 9451	4.3	1.2	2.8	46.5	34.3	40.4
Northrup King S42-32	1.8	1.6	1.7	46.2	32.7	39.4
NeCo 7475N	1.0	1.6	1.3	42.2	33.8	38.0
<b>EXPERIMENTAL VARIETIES</b>						
NMSB-129	4.4	1.0	2.7	50.7	37.5*	44.1
NMSB-89	4.2	1.3	2.8	48.7	35.2	42.0
<b>AVERAGE</b>	<b>2.4</b>	<b>1.2</b>	<b>1.8</b>	<b>50.9</b>	<b>35.7</b>	<b>43.3</b>
L.S.D. AT .10	0.7	0.2	0.4	3.6	3.8	2.6
C.V. %				7.6	11.2	9.1
<b>TRIAL AVERAGE</b>	<b>2.9</b>	<b>1.1</b>	<b>2.0</b>	<b>50.2</b>	<b>38.0</b>	<b>44.1</b>

\*\* Highest yielding variety in the maturity group.

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

#### Susceptible check variety.

NS Not Significant.

TABLE 28. Performance of Soybean Cyst Varieties evaluated near Garden City (Cass County) on the Bill Cook Farm during 1995 and on the Jim Kircher Farm during 1994.

Planted: 15 June 1995  
 Harvested: 3, 17 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Haig Silt Loam  
 Soil Test: pH=5.9, OM=2.9%, P=54, K=286

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Bronco + Scepter  
 Post: Blazer, Poast+, Agri-dex  
 Irrigation: 0.00 Inches  
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 21360 Eggs / 250cc of Soil  
 Cyst Nematode Race: Race = 3  
 Growing Season Rainfall: May=13.6, June=7.8, July=4.3, Aug.=3.6, Sept.=1.7, TOTAL=31.0 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

3.0 Maturity Group Check##	9-15							
Pioneer Variety 9362	9-21	33.5	1.1	41.6**	--	--	--	--
Terra TS390SCN	9-20	34.5	1.2	39.1	51.0	--	45.1	--
MFA Morsoy 9338 SCN	9-22	35.8	1.3	39.0	--	--	--	--
Saline	9-28	37.8	1.5	38.8	48.9	--	43.8	--
Pioneer Variety 9394	9-26	36.3	1.1	38.7	49.8	--	44.3	--
Linford	9-26	38.3	1.8	37.6	47.2	--	42.4	--
NeCo 7395N	9-28	37.0	1.5	37.2	--	--	--	--
<b>AVERAGE</b>	<b>9-24</b>	<b>36.2</b>	<b>1.4</b>	<b>38.9</b>	<b>50.0</b>		<b>44.4</b>	
L.S.D. AT .10 <sup>1</sup>	2	1.8	0.2	1.4	NS			
C.V.%	0.6	5.1		3.8	7.0			

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

4.0 Maturity Group Check##	9-28							
Terra TS4292	9-28	37.8	1.5	38.7**	52.8	--	45.8	--
MFA Morsoy 9245 SCN	9-28	38.8	1.0	38.3*	54.2*	--	46.3	--
Asgrow A4138	9-28	38.5	1.9	38.2*	--	--	--	--
Pioneer Variety 9451	9-29	39.7	1.3	37.7*	53.6	--	45.7	--
Northrup King S42-32	10-01	38.3	2.0	36.9	52.6	--	44.8	--
Pioneer Variety 9491	10-04	32.2	1.1	36.6	55.8*	--	46.2	--
MFA Morsoy 9444 SCN	10-03	37.7	1.5	35.9	--	--	--	--
Dekalb CX469c	9-29	40.8	2.0	35.8	53.3	--	44.6	--
Northrup King S46-44	10-01	39.0	1.3	35.7	53.3	--	44.5	--
Ciba Seeds 4305Y	9-29	40.3	1.6	35.6	--	--	--	--
Asgrow A4922	10-04	41.0	1.8	35.2	--	--	--	--
Merschman Houston III	10-01	39.7	1.8	35.1	--	--	--	--
NeCo 7445N	10-02	38.3	1.3	34.7	--	--	--	--
Willcross 9544N	10-03	40.7	1.3	34.7	--	--	--	--
Delsoy 4210	9-28	41.5	2.0	34.6	51.2	--	42.9	--
Mustang	10-01	38.0	1.1	34.5	--	--	--	--
Midland 8475	10-03	38.8	1.3	34.3	56.3*	--	45.3	--
AgraTech FFR 474	10-03	45.2	2.4	34.0	--	--	--	--
Pioneer Variety 9481	10-02	43.0	2.2	34.0	--	--	--	--
Dekalb CX499c	10-03	44.3	1.1	33.7	--	--	--	--
Stine 4572	10-04	34.5	1.0	33.1	--	--	--	--
MFA Morsoy 9345 SCN	10-01	40.5	2.3	31.6	54.6*	--	43.1	--
Manokin	10-05	33.7	2.4	30.8	56.5*	--	43.7	--
Delsoy 4710	10-02	43.2	2.6	30.5	52.7	--	41.6	--
Terra TS4792	10-01	46.0	2.3	30.5	50.1	--	40.3	--
NeCo 7475N	10-02	46.5	1.8	30.5	--	--	--	--
Willcross 9547N	10-02	46.5	2.2	29.8	--	--	--	--



TABLE 28. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>EXPERIMENTAL VARIETIES</b>								
Midland XP48N	10-03	39.3	1.4	35.8	--	--	--	--
<b>AVERAGE</b>	<b>10-01</b>	<b>40.1</b>	<b>1.7</b>	<b>34.5</b>	<b>52.9</b>		<b>43.7</b>	
L.S.D. AT .10 <sup>1</sup>	1	2.0	0.4	1.7	3.6			
C.V.%	0.3	5.3		5.1	6.0			
<b>MATURITY GROUP 5</b>								
<b>COMMERCIAL VARIETIES</b>								
5.0 Maturity Group Check##	10-05							
Asgrow A5547	10-10	36.0	2.1	33.1**	--	--	--	--
MFA Morsoy 9152 SCN	10-10	33.5	1.5	32.7*	45.8	--	39.3	--
Terra TS504	10-07	33.0	1.7	32.6*	--	--	--	--
Merschman Rushmore II	10-09	34.0	1.7	30.5	--	--	--	--
Willcross 9552N	10-10	32.2	3.7	30.4	--	--	--	--
Essex #####	10-06	31.5	1.7	29.2	46.8	--	38.0	--
TN 5-95	10-11	37.2	1.9	28.8	--	--	--	--
Delsoy 4900	10-06	34.2	1.9	28.1	47.2	--	37.7	--
Avery	10-08	46.2	3.0	27.0	48.3*	--	37.7	--
Hutcheson #####	10-12	36.3	1.8	25.9	--	--	--	--
Hartwig	10-12	35.5	3.4	23.1	34.0	--	28.6	--
6.0 Maturity Group Check##	10-11							
<b>AVERAGE</b>	<b>10-09</b>	<b>35.4</b>	<b>2.2</b>	<b>29.2</b>	<b>45.7</b>		<b>37.4</b>	
L.S.D. AT .10 <sup>1</sup>	1	1.6	0.4	1.2	4.6			
C.V.%	0.3	4.8		4.3	8.4			
<b>TRIAL AVERAGE</b>		<b>38.3</b>	<b>1.7</b>	<b>33.8</b>	<b>51.2</b>		<b>42.5</b>	

<sup>1</sup> LSD for previous years 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 29. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1993-95.

Planted: 16 June 1995  
 Harvested: 4, 24 October 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Parsons Silt Loam  
 Soil Test: pH=6.8, OM=1.9%, P=67, K=151

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=44  
 Herbicide: Pre: Lasso + Scepter  
 Post: Poast+, Agri-dex  
 Irrigation: 0.00 Inches  
 Previous Crop: Corn

Cyst Nematode Population at Planting: 1120 Eggs / 250cc of Soil  
 Cyst Nematode Race: Race = 5  
 Growing Season Rainfall: May=13.4, June=11.6, July=1.1, Aug.=3.0, Sept.=2.1, TOTAL=31.2 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.

**MATURITY GROUP 3**

**COMMERCIAL VARIETIES**

3.0 Maturity Group Check##	9-19							
Pioneer Variety 9394	9-24	33.0	1.0	39.5**	45.5*	29.5	42.5	38.2
NeCo 7395N	9-24	34.8	1.3	39.2	--	--	--	--
Saline	9-24	34.2	1.3	39.2	47.0**	30.2*	43.1	38.8
Linford	9-22	36.3	1.3	38.5	43.5	30.4*	41.0	37.5
Terra TS390SCN	9-20	31.7	1.0	37.8	40.6	32.1**	39.2	36.8
MFA Morsoy 9338 SCN	9-22	32.7	1.2	37.4	--	31.0*	--	--
Pioneer Variety 9362	9-20	29.7	1.0	36.9	--	--	--	--
<b>AVERAGE</b>	<b>9-22</b>	<b>33.2</b>	<b>1.2</b>	<b>38.4</b>	<b>42.1</b>	<b>30.2</b>	<b>40.2</b>	<b>36.9</b>
L.S.D. AT .10 <sup>1</sup>	1	1.5	0.2	NS	3.1	2.4		
C.V.%	0.2	4.6		5.5	6.3	6.9		

**MATURITY GROUP 4**

**COMMERCIAL VARIETIES**

4.0 Maturity Group Check##	9-24							
Manokin	10-08	34.8	3.5	43.3**	62.4**	38.8**	52.9	48.2
MFA Morsoy 9444 SCN	10-03	33.7	1.3	41.6*	--	--	--	--
Terra TS4292	10-02	32.8	1.1	40.9*	48.4	31.7	44.7	40.3
Northrup King S46-44	10-03	34.5	1.0	40.9*	57.9	38.0*	49.4	45.6
Midland 8475	10-03	35.0	1.3	40.7	59.5*	--	50.1	--
Willcross 9544N	10-04	39.5	1.7	40.6	--	--	--	--
Pioneer Variety 9491	10-05	27.2	1.1	40.4	58.5*	30.0	49.5	43.0
Ciba Seeds 4305Y	10-01	38.5	1.3	39.9	--	--	--	--
MFA Morsoy 9245 SCN	10-02	36.3	1.0	39.6	51.3	30.4	45.5	40.4
Merschman Houston III	10-04	36.3	1.3	39.5	--	31.7	--	--
Pioneer Variety 9451	10-01	34.8	1.2	39.2	50.2	32.0	44.7	40.5
Willcross 9547N	10-04	43.2	2.4	39.0	--	--	--	--
Mustang	10-03	35.2	1.1	38.8	--	--	--	--
Stine 4572	10-05	31.8	1.3	38.8	--	--	--	--
Asgrow A4138	10-02	36.0	1.1	38.7	--	--	--	--
Delsoy 4710	10-06	40.5	2.5	38.5	58.5*	32.4	48.5	43.1
Asgrow A4922	10-06	36.0	1.5	38.4	--	--	--	--
Dekalb CX469c	10-02	37.0	1.3	38.4	53.3	30.2	45.8	40.6
NeCo 7445N	10-04	32.7	1.3	38.3	--	--	--	--
AgraTech FFR 474	10-05	40.0	2.1	37.9	--	--	--	--
Northrup King S42-32	10-03	35.0	1.4	37.9	53.6	34.7*	45.8	42.1
Terra TS4792	10-04	42.8	2.1	37.7	55.6	36.8*	46.7	43.4
Dekalb CX499c	10-04	41.0	1.3	37.7	--	--	--	--
NeCo 7475N	10-05	42.7	2.3	37.6	--	--	--	--
Pioneer Variety 9481	10-04	39.7	1.8	36.9	--	--	--	--
Delsoy 4210	10-02	36.8	1.4	36.5	49.1	25.8	42.8	37.1
MFA Morsoy 9345 SCN	10-04	40.8	1.9	36.1	60.2*	34.9*	48.2	43.7

TABLE 29. Continued.

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
<b>EXPERIMENTAL VARIETIES</b>								
Midland XP48N	10-05	35.5	1.6	41.6*	--	--	--	--
<b>AVERAGE</b>	<b>10-04</b>	<b>36.8</b>	<b>1.6</b>	<b>39.1</b>	<b>55.0</b>	<b>32.2</b>	<b>47.0</b>	<b>42.1</b>
L.S.D. AT .10 <sup>1</sup>	1	2.2	0.4	2.5	4.2	4.6		
C.V. %	0.4	6.4		6.6	6.7	12.3		
<b>MATURITY GROUP 5</b>								
<b>COMMERCIAL VARIETIES</b>								
5.0 Maturity Group Check##	10-06							
Asgrow A5547	10-08	31.3	1.7	44.5**	--	--	--	--
MFA Morsoy 9152 SCN	10-08	28.7	2.0	42.7*	61.2**	--	52.0	--
TN 5-95	10-08	33.0	1.8	40.5	--	--	--	--
Merschman Rushmore II	10-07	30.7	2.4	40.1	--	--	--	--
Terra TS504	10-06	31.2	2.2	40.1	--	--	--	--
Willcross 9552N	10-07	33.2	3.2	39.3	--	--	--	--
Hutcheson ####	10-08	29.5	1.7	39.1	--	--	--	--
Hartwig	10-09	29.5	2.4	38.9	49.7	27.9	44.3	38.8
Essex ####	10-07	30.2	1.8	38.3	51.5	--	44.9	--
Delsoy 4900	10-06	32.0	1.6	33.0	56.9*	32.7*	45.0	40.9
Avery	10-07	44.8	3.4	31.3	51.8	30.5	41.6	37.9
6.0 Maturity Group Check##	10-11							
<b>AVERAGE</b>	<b>10-07</b>	<b>32.2</b>	<b>2.2</b>	<b>38.9</b>	<b>55.1</b>	<b>30.0</b>	<b>47.0</b>	<b>41.3</b>
L.S.D. AT .10 <sup>1</sup>	1	2.4	0.6	2.4	4.9	3.3		
C.V. %	0.2	7.8		6.3	7.4	9.5		
<b>TRIAL AVERAGE</b>		<b>35.1</b>	<b>1.7</b>	<b>38.9</b>	<b>52.5</b>	<b>31.2</b>	<b>45.7</b>	<b>40.9</b>

<sup>1</sup> LSD for previous years 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 30. Performance of Soybean Cyst Nematode Resistant Varieties evaluated at two Southwestern Missouri locations (Garden City and Lamar) during 1995.

**Garden City**  
 Planted: 15 June 1995  
 Harvested: 3, 17 October 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A.

**Lamar**  
 Planted: 16 June 1995  
 Harvested: 4, 24 October 1995  
 Row Spacing: 30 Inches  
 Planted Population: 156,800 Seeds/A.

Soil Type: Haig Silt Loam  
 Previous Crop: Soybean  
 SCN Population at Planting: 21360 Eggs  
 Growing Season Moisture: 31.0 Inches

Soil Type: Parsons Silt Loam  
 Previous Crop: Corn  
 SCN Population at Planting: 1120 Eggs  
 Growing Season Moisture: 31.2 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Garden City	Lamar	Mean
<b>MATURITY GROUP 3</b>						
<b>COMMERCIAL VARIETIES</b>						
Pioneer Variety 9362	1.1	1.0	1.0	41.6**	36.9	39.2**
Pioneer Variety 9394	1.1	1.0	1.0	38.7	39.5**	39.1*
Saline	1.5	1.3	1.4	38.8	39.2	39.0*
Terra TS390SCN	1.2	1.0	1.1	39.1	37.8	38.4*
NeCo 7395N	1.5	1.3	1.4	37.2	39.2	38.2*
MFA Morsoy 9338 SCN	1.3	1.2	1.2	39.0	37.4	38.2*
Linford	1.8	1.3	1.6	37.6	38.5	38.0*
<b>AVERAGE</b>	<b>1.4</b>	<b>1.2</b>	<b>1.2</b>	<b>38.9</b>	<b>38.4</b>	<b>38.6</b>
<b>L.S.D. AT .10</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>1.4</b>	<b>NS</b>	<b>1.2</b>
<b>C.V. %</b>				<b>3.8</b>	<b>5.5</b>	<b>4.7</b>
<b>MATURITY GROUP 4</b>						
<b>COMMERCIAL VARIETIES</b>						
Terra TS4292	1.5	1.1	1.3	38.7**	40.9*	39.8**
MFA Morsoy 9245 SCN	1.0	1.0	1.0	38.3*	39.6	39.0*
MFA Morsoy 9444 SCN	1.5	1.3	1.4	35.9	41.6*	38.8*
Pioneer Variety 9491	1.1	1.1	1.1	36.6	40.4	38.5*
Asgrow A4138	1.9	1.1	1.5	38.2*	38.7	38.4*
Pioneer Variety 9451	1.3	1.2	1.2	37.7*	39.2	38.4*
Northrup King S46-44	1.3	1.0	1.2	35.7	40.9*	38.3*
Ciba Seeds 4305Y	1.6	1.3	1.4	35.6	39.9	37.8
Willcross 9544N	1.3	1.7	1.5	34.7	40.6	37.6
Midland 8475	1.3	1.3	1.3	34.3	40.7	37.5
Northrup King S42-32	2.0	1.4	1.7	36.9	37.9	37.4
Merschman Houston III	1.8	1.3	1.6	35.1	39.5	37.3
Dekalb CX469c	2.0	1.3	1.6	35.8	38.4	37.1
Manokin	2.4	3.5	3.0	30.8	43.3**	37.0
Asgrow A4922	1.8	1.5	1.6	35.2	38.4	36.8
Mustang	1.1	1.1	1.1	34.5	38.8	36.6
NeCo 7445N	1.3	1.3	1.3	34.7	38.3	36.5
Stine 4572	1.0	1.3	1.2	33.1	38.8	36.0
AgraTech FFR 474	2.4	2.1	2.2	34.0	37.9	36.0
Dekalb CX499c	1.1	1.3	1.2	33.7	37.7	35.7
Delsoy 4210	2.0	1.4	1.7	34.6	36.5	35.6
Pioneer Variety 9481	2.2	1.8	2.0	34.0	36.9	35.4
Delsoy 4710	2.6	2.5	2.6	30.5	38.5	34.5
Willcross 9547N	2.2	2.4	2.3	29.8	39.0	34.4
Terra TS4792	2.3	2.1	2.2	30.5	37.7	34.1
NeCo 7475N	1.8	2.3	2.0	30.5	37.6	34.0
MFA Morsoy 9345 SCN	2.3	1.9	2.1	31.6	36.1	33.8
<b>EXPERIMENTAL VARIETIES</b>						
Midland XP48N	1.4	1.6	1.5	35.8	41.6*	38.7*
<b>AVERAGE</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>	<b>34.5</b>	<b>39.1</b>	<b>36.8</b>
<b>L.S.D. AT .10</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>1.7</b>	<b>2.5</b>	<b>1.5</b>
<b>C.V. %</b>				<b>5.1</b>	<b>6.6</b>	<b>6.0</b>

TABLE 30. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Garden City	Lamar	Mean
<b>MATURITY GROUP 5</b>						
<b>COMMERCIAL VARIETIES</b>						
Asgrow A5547	2.1	1.7	1.9	33.1**	44.5**	38.8**
MFA Morsoy 9152 SCN	1.5	2.0	1.8	32.7*	42.7*	37.7*
Terra TS504	1.7	2.2	2.0	32.6*	40.1	36.4
Merschman Rushmore II	1.7	2.4	2.0	30.5	40.1	35.3
Willcross 9552N	3.7	3.2	3.4	30.4	39.3	34.8
TN 5-95	1.9	1.8	1.8	28.8	40.5	34.6
Essex #####	1.7	1.8	1.8	29.2	38.3	33.8
Hutcheson #####	1.8	1.7	1.8	25.9	39.1	32.5
Hartwig	3.4	2.4	2.9	23.1	38.9	31.0
Delsoy 4900	1.9	1.6	1.8	28.1	33.0	30.6
Avery	3.0	3.4	3.2	27.0	31.3	29.2
<b>AVERAGE</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>29.2</b>	<b>38.9</b>	<b>34.0</b>
L.S.D. AT .10	0.4	0.6	0.4	1.2	2.4	1.3
C.V.%				4.3	6.3	5.7
<b>TRIAL AVERAGE</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>33.8</b>	<b>38.9</b>	<b>36.4</b>

\*\* 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 31. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Bertrand (Mississippi County) on the Arington Farms during 1993-95.

Planted: 25 May 1995  
 Harvested: 28 Sept., 16 Oct. 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Clana Loamy Fine Sand  
 Soil Test: pH=5.8, OM=1.3%, P=124, K=178  
 Cyst Nematode Population at Planting: 16530 Eggs / 250cc of Soil  
 Cyst Nematode Race: Race = 5  
 Growing Season Rainfall: May=4.9, June=4.6, July=3.6, Aug.=2.4, Sept.=1.3, TOTAL=16.8 Inches

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=15  
 Herbicide: Pre: Prowl + Tricept  
 Post: Reflex, Fusilade  
 Irrigation: 4.0 Inches  
 Previous Crop: Corn

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 4</b>							
<b>VARIETIES</b>								
4.0 Maturity Group Check##	9-16							
Delsoy 4210	9-23	33.8	1.6	45.3**	31.6**	42.5*	38.5	39.8
Pioneer Variety 9472	9-22	35.2	1.5	42.7*	27.1*	--	34.9	--
MFA Morsoy 9345 SCN	9-26	34.2	1.5	40.2*	30.9*	41.1*	35.6	37.4
Manokin	10-01	28.0	1.4	40.0*	29.5*	43.7**	34.8	37.7
TN 4-94	10-02	37.2	1.5	38.3	--	--	--	--
Terra TS4292	9-19	27.5	1.5	38.1	29.9*	31.9	34.0	33.3
Delsoy 4710	9-28	33.7	1.5	37.1	31.0*	37.7*	34.1	35.3
Patriot 6457N	9-25	29.7	1.5	35.9	--	--	--	--
Terra TS 390SCN ###	9-18	28.5	1.5	35.2	19.8	31.0	27.5	28.7
MFA Morsoy 9444 SCN	9-24	28.5	1.5	34.7	--	--	--	--
Pioneer Variety 9444	9-18	27.5	1.4	34.5	28.9*	--	31.7	--
Asgrow A4715	9-26	28.5	1.5	34.3	--	--	--	--
Northrup King S46-44	9-20	31.3	1.6	34.0	28.7*	36.5*	31.4	33.1
Hyperformer HY 4540	9-25	30.2	1.5	33.7	--	--	--	--
Terra TS4792	9-26	35.8	1.5	33.4	24.1*	33.1	28.8	30.2
AgraTech FFR 474	9-24	33.3	1.5	32.9	24.7*	--	28.8	--
Patriot 6453N	9-20	30.3	1.5	28.2	--	--	--	--
Pioneer Variety 9481	9-19	28.3	1.5	20.1	--	--	--	--
<b>AVERAGE</b>	<b>9-24</b>	<b>31.2</b>	<b>1.5</b>	<b>35.5</b>	<b>26.3</b>	<b>34.3</b>	<b>30.9</b>	<b>32.0</b>
L.S.D. AT .10 <sup>1</sup>	2	3.9	NS	6.6	9.3	7.3		
C.V.%	0.7	13.0		19.3	30.4	17.2		
<b>MATURITY GROUP 5</b>								
<b>VARIETIES</b>								
5.0 Maturity Group Check##	9-18							
Hartwig	10-10	27.7	1.2	39.6**	31.7*	42.8**	35.7	38.0
Patriot 6530N	10-01	27.0	1.0	38.4*	--	--	--	--
Asgrow A5843	10-11	26.2	1.0	36.9*	35.0**	--	36.0	--
MFA Morsoy 9152 SCN	10-07	23.0	1.0	36.1*	28.1*	33.0	32.1	32.4
Pioneer Variety 9521	10-01	25.0	1.0	34.8	24.7	41.0*	29.8	33.5
Terra TS504	10-01	23.8	1.0	34.6	--	--	--	--
Avery	9-28	45.7	1.0	34.3	30.5*	33.9	32.4	32.9
AgraTech FFR 514	9-29	25.8	1.0	33.0	32.3*	--	32.7	--
Patriot 6555N	10-01	22.5	1.0	32.6	--	--	--	--
AgraTech AT 555	10-10	30.3	1.0	32.1	29.3*	33.2	30.7	31.5
Pioneer Variety 9551	10-02	26.5	1.0	30.4	28.1*	38.9*	29.3	32.5
Hyperformer HSC 557	10-11	44.5	1.0	29.0	31.2*	34.2	30.1	31.5
Hutcheson #####	10-04	25.3	1.0	28.6	--	--	--	--
AgraTech FFR 563	10-10	30.2	1.0	28.3	--	--	--	--
TN 5-95	10-02	24.2	1.0	20.4	--	--	--	--
6.0 Maturity Group Check##	10-12							
<b>AVERAGE</b>	<b>10-04</b>	<b>28.5</b>	<b>1.0</b>	<b>32.6</b>	<b>27.5</b>	<b>34.5</b>	<b>30.0</b>	<b>31.5</b>
L.S.D. AT .10 <sup>1</sup>	2	3.0	NS	4.5	7.0	6.3		
C.V.%	0.7	10.9		14.3	22.1	15.8		
<b>TRIAL AVERAGE</b>		<b>30.0</b>	<b>1.3</b>	<b>34.2</b>	<b>26.7</b>	<b>34.4</b>	<b>30.4</b>	<b>31.8</b>

<sup>1</sup> LSD for previous years 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.  
 NS Not significant.

TABLE 32. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Clarkton (Dunklin County) on the Delta Research Center Rhodes Farm during 1993-95.

Planted: 15 May 1995  
 Harvested: 28 Sept., 24 Oct. 1995  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Bosket Fine Sandy Loam  
 Soil Test: pH=5.2, OM=1.2%, P=126, K=358  
 Cyst Nematode Population at Planting: 3650 eggs / 250cc of soil  
 Cyst Nematode Race: Race = 5  
 Growing Season Rainfall: May=4.8, June=6.2, July=5.9, Aug.=1.6, Sept.=3.1, TOTAL=21.6 Inches

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Tri-4 + Scepter  
 Post: Select + Agri-dex  
 Irrigation: 1.00 Inch  
 Previous Crop: Soybean

Brand-Variety	1995			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1995	1994	1993	2 Yr.	3 Yr.
	<b>MATURITY GROUP 4</b>							
<b>VARIETIES</b>								
4.0 Maturity Group Check##	9-16							
Delsoy 4210	9-05	35.2	1.8	41.3**	26.6	35.3*	34.0	34.4
Asgrow A4715	9-17	30.8	1.2	39.7*	--	--	--	--
MFA Morsoy 9444 SCN	9-08	32.5	1.3	37.5*	--	--	--	--
Patriot 6457N	9-11	28.3	1.1	36.7*	--	--	--	--
Terra TS4792	9-09	35.7	1.7	36.4*	29.5	34.1	33.0	33.3
AgraTech FFR 474	9-17	37.3	2.0	35.4	29.9	--	32.7	--
TN 4-94	9-23	38.7	1.2	35.0	--	--	--	--
Terra TS4292	9-06	25.7	1.0	35.0	24.2	26.7	29.6	28.6
MFA Morsoy 9345 SCN	9-09	34.3	1.6	34.9	26.6	35.4*	30.8	32.3
Pioneer Variety 9481	9-10	31.0	1.4	34.3	--	--	--	--
Northrup King S46-44	9-08	32.2	1.2	33.8	29.8	35.0*	31.8	32.9
Hyperformer HY 4540	9-08	31.2	1.1	33.3	--	--	--	--
Pioneer Variety 9472	9-09	31.0	1.6	33.0	34.2*	--	33.6	--
Patriot 6453N	9-09	31.8	1.3	33.0	--	--	--	--
Terra TS 390SCN ###	9-01	29.0	1.1	32.8	19.1	32.6	26.0	28.2
Delsoy 4710	9-16	34.3	1.3	32.0	31.6*	39.8**	31.8	34.5
Pioneer Variety 9444	9-02	29.2	1.2	31.9	22.3	--	27.1	--
Manokin	9-23	26.0	1.5	21.1	27.6	29.6	24.4	26.1
<b>AVERAGE</b>	<b>9-11</b>	<b>31.9</b>	<b>1.4</b>	<b>34.3</b>	<b>28.7</b>	<b>33.9</b>	<b>31.5</b>	<b>32.3</b>
L.S.D. AT .10 <sup>1</sup>	4	3.9	NS	4.9	8.7	5.4		
C.V.%	1.6	12.5		14.9	25.7	12.9		
<b>MATURITY GROUP 5</b>								
<b>VARIETIES</b>								
5.0 Maturity Group Check##	9-26							
Hutcheson #####	10-02	34.3	1.0	34.1**	--	--	--	--
MFA Morsoy 9152 SCN	9-24	23.2	1.0	31.5*	47.7*	15.0	39.6	31.4
Asgrow A5843	10-01	31.5	1.0	30.5*	45.9*	--	38.2	--
Pioneer Variety 9521	9-22	22.2	1.0	28.8	42.8*	18.2	35.8	29.9
Patriot 6555N	9-23	21.8	1.0	28.1	--	--	--	--
Terra TS504	9-26	21.3	1.0	27.8	--	--	--	--
AgraTech FFR 563	9-29	35.0	1.0	27.7	--	--	--	--
AgraTech FFR 514	9-25	37.2	1.0	27.2	49.6**	--	38.4	--
Patriot 6530N	9-23	22.8	1.0	26.9	--	--	--	--
Avery	9-23	52.2	1.0	26.6	31.3	16.0	29.0	24.6
Pioneer Variety 9551	9-25	23.7	1.0	26.3	38.2	24.3*	32.3	29.6
Hyperformer HSC 557	10-07	45.5	1.0	25.4	43.6*	32.3**	34.5	33.8
Hartwig	9-24	29.8	1.0	25.3	47.5*	27.8*	36.4	33.5
TN 5-95	9-23	29.2	1.0	23.3	--	--	--	--
AgraTech AT 555	9-26	30.8	1.0	23.2	47.0*	21.2	35.1	30.5
6.0 Maturity Group Check##	10-07							
<b>AVERAGE</b>	<b>9-26</b>	<b>30.7</b>	<b>1.0</b>	<b>27.5</b>	<b>42.3</b>	<b>19.6</b>	<b>34.9</b>	<b>29.8</b>
L.S.D. AT .10 <sup>1</sup>	4	3.7	NS	5.5	7.6	8.6		
C.V.%	1.7	12.6		20.6	15.6	37.9		
<b>TRIAL AVERAGE</b>		<b>30.0</b>	<b>1.2</b>	<b>31.2</b>	<b>33.6</b>	<b>26.8</b>	<b>32.4</b>	<b>30.5</b>

<sup>1</sup> LSD for previous years 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.

NS Not significant.

TABLE 33. Performance of Soybean Cyst Nematode Resistant Varieties evaluated at two Southeastern Missouri locations (Bertrand and Clarkton) during 1995.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Bertrand	Clarkton	Mean	Bertrand	Clarkton	Mean
<b>MATURITY GROUP 4</b>						
<b>VARIETIES</b>						
Delsoy 4210	1.6	1.8	1.7	45.3**	41.3**	43.3**
Pioneer Variety 9472	1.5	1.6	1.6	42.7*	33.0	37.8
MFA Morsoy 9345 SCN	1.5	1.6	1.6	40.2*	34.9	37.6
Asgrow A4715	1.5	1.2	1.4	34.3	39.7*	37.0
TN 4-94	1.5	1.2	1.4	38.3	35.0	36.6
Terra TS4292	1.5	1.0	1.2	38.1	35.0	36.6
Patriot 6457N	1.5	1.1	1.3	35.9	36.7*	36.3
MFA Morsoy 9444 SCN	1.5	1.3	1.4	34.7	37.5*	36.1
Terra TS4792	1.5	1.7	1.6	33.4	36.4*	34.9
Delsoy 4710	1.5	1.3	1.4	37.1	32.0	34.6
AgraTech FFR 474	1.5	2.0	1.8	32.9	35.4	34.2
Terra TS 390SCN ###	1.5	1.1	1.3	35.2	32.8	34.0
Northrup King S46-44	1.6	1.2	1.4	34.0	33.8	33.9
Hyperformer HY 4540	1.5	1.1	1.3	33.7	33.3	33.5
Pioneer Variety 9444	1.4	1.2	1.3	34.5	31.9	33.2
Manokin	1.4	1.5	1.4	40.0*	21.1	30.6
Patriot 6453N	1.5	1.3	1.4	28.2	33.0	30.6
Pioneer Variety 9481	1.5	1.4	1.4	20.1	34.3	27.2
<b>AVERAGE</b>	<b>1.5</b>	<b>1.4</b>	<b>1.4</b>	<b>35.5</b>	<b>34.3</b>	<b>34.9</b>
L.S.D. AT .10	NS	NS	NS	6.6	4.9	4.2
C.V.%				19.3	14.9	20.0
<b>MATURITY GROUP 5</b>						
<b>VARIETIES</b>						
MFA Morsoy 9152 SCN	1.0	1.0	1.0	36.1*	31.5*	33.8**
Asgrow A5843	1.0	1.0	1.0	36.9*	30.5*	33.7*
Patriot 6530N	1.0	1.0	1.0	38.4*	26.9	32.6*
Hartwig	1.2	1.0	1.1	39.6**	25.3	32.4*
Pioneer Variety 9521	1.0	1.0	1.0	34.8	28.8	31.8*
Hutcheson #####	1.0	1.0	1.0	28.6	34.1**	31.4*
Terra TS504	1.0	1.0	1.0	34.6	27.8	31.2*
Patriot 6555N	1.0	1.0	1.0	32.6	28.1	30.4
Avery	1.0	1.0	1.0	34.3	26.6	30.4
AgraTech FFR 514	1.0	1.0	1.0	33.0	27.2	30.1
Pioneer Variety 9551	1.0	1.0	1.0	30.4	26.3	28.4
AgraTech FFR 563	1.0	1.0	1.0	28.3	27.7	28.0
AgraTech AT 555	1.0	1.0	1.0	32.1	23.2	27.6
Hyperformer HSC 557	1.0	1.0	1.0	29.0	25.4	27.2
TN 5-95	1.0	1.0	1.0	20.4	23.3	21.8
<b>AVERAGE</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>32.6</b>	<b>27.5</b>	<b>30.0</b>
L.S.D. AT .10	NS	0.2	NS	4.5	5.5	3.3
C.V.%				14.3	20.6	16.3
<b>TRIAL AVERAGE</b>	<b>1.3</b>	<b>1.2</b>	<b>1.2</b>	<b>34.2</b>	<b>31.2</b>	<b>32.7</b>

<sup>1</sup> LSD for previous years calculated at p = 0.05.  
**\*\*** 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 IV

### SOYBEAN DRILL TRIALS

#### EXPERIMENTAL PROCEDURES

**Field Plot Design.** A randomized block design with four replications was used. 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 1995, the locations for these trials were on (1) the Paul Parsons farm near Albany in Gentry County; (2) the Agronomy Research Center near Columbia in Boone County. The trials were evaluated in both ten and thirty inch rows.



#### SUMMARY OF RESULTS

Soybean varieties were evaluated under drill conditions in two North and Central Missouri studies during 1995. Data and management practices for these trials are presented in Tables 35 and 36.

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 34. 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 34. SOYBEAN DRILL YIELD SUMMARY.

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Albany	21	44-60	52	35
Columbia	21	33-45	39	36

TABLE 35. Performance of Soybean Varieties on the Paul Parsons near Albany (Harrison County) during 1995.

Planted: 19 June 1995  
 Harvested: 19 October 1995  
 Planted Population: 150,000=60# Seeds/A.  
 200,000=80# Seeds/A.  
 Row Spacing: 10 and 30 Inches  
 Soil Type: Grundy Silt Loam  
 Soil Test: pH=6.4, OM=2.8%, P=60, K=280

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Treflan + Sceptor + Sencor  
 Post: Blazer, Poast+  
 Irrigation: 0.00 Inches  
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=9.8, June=4.0, July=6.5, Aug.=4.6, Sept.=3.9, TOTAL=28.8 Inches

Brand-Variety	1995							
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	Yield (Bu/Acre)			Response to 10 <sup>a</sup> rows	
				30"60#	10"60#	10"80#	60#	80#
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
MFA Morsoy 9233	10-01	29.3	1.0	49.4	47.6	50.9	-1.8	1.5
Lynks 5380	10-02	34.5	1.3	55.4*	52.6	56.9*	-2.8	1.5
Clayton CS 9431	10-02	39.3	1.5	47.5	46.0	50.1	-1.5	2.6
Charleston	10-02	19.9	1.0	44.9	43.6	47.5	-1.3	2.6
Golden Harvest H-1358	10-02	34.3	1.1	56.4**	60.3**	60.2*	3.9	3.8
NC+ 3A75	10-02	35.8	1.2	49.2	50.0	50.5	0.8	1.3
Merschman Fillmore IV	10-01	32.0	1.0	53.7*	53.4	56.9*	-0.3	3.2
Northrup King S39-41	10-02	35.8	1.6	54.5*	56.2*	57.1*	1.7	2.6
ICI D330	10-01	32.8	1.0	51.6*	49.5	53.0	-2.1	1.4
AgriPro AP 3940	10-01	35.3	1.0	51.0*	50.9	51.7	-0.1	0.7
Pioneer Variety 9362	10-01	34.6	1.0	48.9*	51.2	51.1	2.3	2.2
Asgrow A3834	10-04	32.5	1.0	50.0*	51.7	51.3	1.7	1.3
Lewis 367	10-03	38.8	1.3	51.3*	52.5	53.9	1.2	2.6
NeCo 7354	10-01	29.3	1.0	50.8	51.9	52.6	1.1	1.8
Terra-Torch	10-01	36.3	1.1	55.2*	57.6*	60.4**	2.4	5.2
Stine 3660	10-02	31.8	1.1	54.0*	56.6*	54.0	2.6	0.0
Dairyland DSR-305	10-01	34.3	1.3	53.0*	56.3*	54.7	3.3	1.7
Randell 375	10-02	30.0	1.0	53.4*	58.0*	56.7*	4.6	3.3
Reeds Brand 390	10-04	34.8	1.6	49.0	50.6	51.2	1.6	2.2
Wilson 3250	10-01	30.8	1.0	46.7	49.5	52.3	2.8	5.6
Dekalb 377	10-02	39.8	1.1	53.9*	50.0	55.3*	-3.9	1.4
<b>AVERAGE</b>	<b>10-02</b>	<b>33.4</b>	<b>1.2</b>	<b>51.4</b>	<b>52.2</b>	<b>53.7</b>	<b>0.8</b>	<b>2.3</b>
<b>L.S.D. AT .10</b>	<b>2</b>	<b>2.6</b>	<b>0.4</b>	<b>5.4</b>	<b>5.4</b>	<b>5.4</b>		
<b>C.V.%</b>	<b>0.1</b>	<b>3.7</b>		<b>6.6</b>	<b>6.6</b>	<b>6.6</b>		

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

TABLE 36. Performance of Soybean Varieties on the Agronomy Research Center near Columbia (Boone County) during 1995.

Planted: 17 June 1995  
 Harvested: 4,5 October 1995  
 Planted Population: 150,000=60# Seeds/A.  
 200,000=80# Seeds/A.  
 Row Spacing: 30 Inches  
 Soil Type: Mexico Silt Loam  
 Soil Test: pH=5.6, OM=1.2%, P=64, K=208

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Squadron  
 Post: Galaxy, Poast+  
 Irrigation: 0.00 Inches  
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil  
 Growing Season Rainfall: May=14.5, June=3.9, July=4.4, Aug.=7.1, Sept.=2.3, TOTAL=32.2 Inches

Brand-Variety	1995			Yield (Bu/Acre)			Response to 10 <sup>a</sup> rows	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	Yield (Bu/Acre)			Response to 10 <sup>a</sup> rows	
				30"60#	10"60#	10"80#	60#	80#
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
MFA Morsoy 9233	9-22	28.6	1.0	34.8	38.6	37.5	3.8	2.7
Lynks 5380	9-25	30.0	1.0	37.3*	38.6	39.0	1.3	1.7
Clayton CS 9431	9-25	36.0	1.0	35.8	39.5*	40.1*	3.7	4.3
Charleston	9-24	18.3	1.0	35.5	39.0	38.8	3.5	3.3
Golden Harvest H-1358	9-25	28.8	1.0	38.1*	39.4*	39.7	1.3	1.6
NC+ 3A75	9-25	33.1	1.0	36.3	38.4	39.6	2.1	3.3
Merschman Fillmore IV	9-27	28.0	1.0	38.8*	42.7*	42.5*	3.9	3.7
Northrup King S39-41	9-26	31.9	1.0	35.8*	38.9	40.3*	3.1	4.5
ICI D330	9-24	28.0	1.0	35.2*	39.7*	40.8*	4.5	5.6
AgriPro AP 3940	9-29	32.0	1.0	39.6*	39.9*	40.2*	0.3	0.6
Pioneer Variety 9362	9-22	29.4	1.0	41.0**	40.2*	42.9*	-0.8	1.9
Asgrow A3834	9-30	28.0	1.0	40.7*	43.7**	43.1*	3.0	2.4
Lewis 367	9-21	34.3	1.0	35.1*	38.2	37.6	3.1	2.5
NeCo 7354	9-26	26.0	1.0	36.6*	40.4*	39.9	3.8	3.3
Terra-Torch	9-24	28.6	1.0	32.6	35.2	36.7	2.6	4.1
Stine 3660	9-26	28.5	1.0	40.5*	42.2*	44.6**	1.7	4.1
Dairyland DSR-305	9-19	28.8	1.0	35.1*	38.2	36.2	3.1	1.1
Randell 375	9-20	28.1	1.0	34.0	36.1	37.9	2.1	3.9
Reeds Brand 390	9-29	28.7	1.0	37.4*	39.5*	41.4*	2.1	4.0
Wilson 3250	9-26	26.9	1.0	36.2*	38.9	38.3	2.7	2.1
Dekalb 377	9-23	33.7	1.0	37.8*	37.9	40.2*	0.1	2.4
<b>AVERAGE</b>	<b>9-25</b>	<b>29.3</b>	<b>1.0</b>	<b>36.7</b>	<b>39.3</b>	<b>39.9</b>	<b>2.6</b>	<b>3.2</b>
L.S.D. AT .10	1	2.2	NS	4.5	4.5	4.5		
C.V. %	0.2	4.3		7.8	7.8	7.8		

\*\* 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 37. CHARACTERISTICS OF SOYBEAN VARIETIES AND BLENDS\*.

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	Reaction Race4
<b>COMMERCIAL VARIETIES OR BLENDS</b>													
AgraTech	FFR 474	V	NO	4	W	BR	BR	BL	T	R	MS	MR	MS
AgraTech	FFR 493	V	NO	4	P	TN	G	BF	T	S	-	-	-
AgraTech	FFR 514	V	NO	5	P	BR	BR	BL	T	R	MS	R	MR
AgraTech	FFR 563	V	NO	5	P	TN	G	IBL	T	R	R	R	MS
AgraTech	AT 555	V	NO	5	W	TN	G	BF	T	R	MS	-	MS
AgriPro	AP 3940	V	NO	3	P	BR	TW	GR	R	S	-	-	-
AgriPro	AP 4100	V	NO	4	P	TN	TW	BR	R	S	-	-	-
AgriPro	AP 4343	V	NO	4	P	TN	TW	BL	R	S	-	-	-
AgriPro	EX 3868	V	YES	3	W	TN	TW	BL	R	S	-	-	-
AgriPro	EX 4400	V	YES	4	W	TN	TW	BL	R	S	-	-	-
Asgrow	A3134	V	NO	3	P	TN	G	BL	R	R	MS	R	MR
Asgrow	A3431	V	NO	3	P	BR	G	IBL	R	R	R	R	MS
Asgrow	A3732	V	NO	3	P	TN	TW	BL	R	R	MS	R	MR
Asgrow	A3834	V	NO	3	P	TN	TN	BL	R	R	-	-	-
Asgrow	A4138	V	NO	4	W	TN	TN	BL	R	S	MR	MS	MS
Asgrow	A4341	V	NO	4	P	TN	TN	BL	R	R	-	-	-
Asgrow	A4715	V	NO	4	W	TN	TN	BL	R	R	MS	R	MS
Asgrow	A4922	V	NO	4	W	TN	TN	BL	R	R	MR	R	MR
Asgrow	A5547	V	NO	5	W	TN	G	BF	S	S	MR	R	MR
Asgrow	A5843	V	NO	5	W	TN	G	BF	S	R	MR	R	MS
Asgrow	A5885	V	NO	5	W	TN	TW	BL	S	R	MS	R	MS
Bergmann-Taylor	366-ST5	BR	NO	3	W	TN	TW	BL	T	S	-	-	-
Bergmann-Taylor	386C	BR	NO	3	P	TN	TW	BL	R	R	MS	R	MR
Bergmann-Taylor	399C	BR	NO	3	W	TW	TW	BL	T	R	MR	R	MS
Bergmann-Taylor	425	BR	NO	4	W	TN	TW	BL	R	S	-	-	-
Bergmann-Taylor	436C	BR	NO	4	P	BR	BR	BL	T	R	MS	R	MR
Bergmann-Taylor	445C	BR	NO	4	W	TN	TW	BL	T	R	MR	MR	MR
Buckshot	55	BR	NO	5	P	TN	TW	BL	S	R	MR	R	MS
Buckshot	EK58	BR	NO	5	P	TN	TW	BL	S	R	MS	R	MS
Capehart	Stone	V	NO	5	W	TN	G	BF	T	S	-	-	-
Challenger	373	BR	NO	3	P	BR	TW	BL	T	S	-	-	-
Challenger	434	BR	NO	4	W	TN	TW	BL	T	S	-	-	-
Ciba	3362	V	NO	3	P	BR	TW	BR	T	S	-	-	-
Ciba	3388	V	NO	3	W	TN	TW	BL	T	R	MR	R	MR
Ciba	3474	V	NO	4	P	BR	TW	BL	T	R	-	-	-
Ciba	3522Y	V	YES	3	W	TN	TW	BL	T	R	MR	R	MS
Ciba	4305Y	V	YES	4	P	TN	TN	BL	T	R	MR	R	MR
Clayton Seed	CS 9437	V	NO	3	W	TN	TW	BL	S	R	MS	MR	MS
Dairyland	DSR-317	V	NO	3	W	TN	TW	BL	S	S	-	-	-
Dairyland	DSR-360/ST5	V	NO	3	W	BR	TW	BL	S	S	-	-	-
Dairyland	DSR-365	V	NO	3	W	TN	TW	BL	S	S	-	-	-
Dairyland	DSR-373	V	NO	3	W	TN	TW	BL	S	R	MR	R	MS
Dairyland	DST-3125	V	YES	3	W	TN	TW	BL	S	R	-	R	MR
Dairyland	DST-3308	V	YES	3	W	BR	TW	BL	S	S	-	-	-
Dekalb	CX340c	V	NO	3	W	TN	TW	BL	S	R	MR	R	MR
Dekalb	CX368	V	NO	3	W	-	TW	BL	R	R	-	-	-
Dekalb	CX394c	V	NO	3	P	TN	TW	BL	R	R	MS	MR	MS
Dekalb	CX399	V	NO	3	W	TN	TW	BL	R	R	-	-	-
Dekalb	CX411	V	NO	4	W	TN	TW	BL	R	R	-	-	-
Dekalb	CX434	V	NO	4	P	BR	TW	BL	R	R	-	-	-
Dekalb	CX445	V	NO	4	W	BR	TW	BL	R	S	-	-	-
Dekalb	CX469c	V	NO	4	P	BR	TW	BL	S	R	MS	R	MS
Dekalb	CX499c	V	NO	4	W	BR	TW	BL	T	R	MR	R	MR
Delta King	4450	V	NO	4	W	BR	BR	BL	T	-	-	-	-
Delta King	4875	V	NO	4	W	BR	BR	BL	T	-	-	-	-
Delta King	5475	V	NO	5	W	BR	BR	BL	T	-	-	-	-
Delta King	5850	V	NO	5	W	BR	BR	BL	T	-	-	-	-
Deltapine	105	V	NO	5	P	TN	G	IBL	T	T	S	S	S
Deltapine	415	V	NO	5	P	TN	G	IBL	T	R	MR	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	DP 3588	V	NO	5	P	TN	TW	BL	T	S	-	-	-
Deltapine	DPX3519	V	YES	5	P	TN	G	IBL	T	R	MR	R	MS
Deltapine	DPX3571	V	YES	5	P	TN	G	IBL	T	R	MS	MR	MS

TABLE 37. 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 Screening Race1	Race3	Race4
Desoy 3303	V	NO	3	P	TN	BR	BR	R	S	-	-	-	
Desoy 3515	V	NO	3	W	TN	TW	BR	S	S	-	-	-	
Desoy 3525E	V	NO	3	W	TN	G	BF	S	S	-	-	-	
Desoy 3717	V	NO	3	M	TN	TN	BL	S	S	-	-	-	
Desoy 4114	V	NO	4	W	TN	TN	BR	S	S	-	-	-	
Dixie 478	BR	NO	4	P	G	G	IBL	MR	S	-	-	-	
Dixie 544	BR	NO	5	P	BR	BR	BL	MR	S	-	-	-	
Dixie 579	BR	NO	5	P	BR	BR	BL	S	S	-	-	-	
Dyna-Gro 3303	BR	NO	3	P	BR	TW	BR	R	S	-	-	-	
Dyna-Gro 3340	BR	NO	3	W	TN	TN	BL	T	R	MS	R	MR	
Dyna-Gro 3368	BR	NO	3	P	BR	TW	BR	R	R	-	-	-	
Dyna-Gro 3391N	BR	NO	3	W	TN	TN	BL	T	R	MR	MR	MR	
Dyna-Gro 3400	BR	NO	4	P	TN	TN	BR	T	T	-	-	-	
Dyna-Gro 3410	BR	NO	4	P	BR	TW	BL	T	T	-	-	-	
Dyna-Gro 3495	V	NO	4	W	G	G	BF	R	S	-	-	-	
Dyna-Gro 3576	V	NO	5	W	G	G	BF	S	S	-	-	-	
Fontanelle 6100	V	NO	3	P	TN	TN	BR	T	S	-	-	-	
Fontanelle 6104	V	NO	3	P	TN	BR	BL	T	S	-	-	-	
Freedom 4355	BR	NO	3	-	-	TN	-	T	-	-	-	-	
Freedom 4347	BR	NO	3	W	TW	TW	BL	T	-	-	-	-	
Freedom 4422	BR	NO	4	-	-	TN	-	T	-	-	-	-	
Freedom 4350	BR	NO	3	W	TW	TW	BL	T	R	MR	MR	MR	
Freedom 4437	BR	NO	4	P	TW	TW	BL	T	R	MR	R	MR	
Golden Harvest H-1328	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
Golden Harvest H-1353	BR	NO	3	P	TN	TN	BR	R	R	-	-	-	
Golden Harvest H-1358	BR	NO	3	W	TN	TW	BR	T	R	MR	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	R	R	R	MS	
Golden Harvest H-1458	BR	NO	4	P	BR	TN	BL	T	R	-	-	-	
Golden Harvest X 454	BR	NO	4	W	BR	G	BF	R	R	MS	MR	MS	
Hartz Variety H4994	V	NO	4	W	BR	TW	BL	T	R	MR	R	MS	
Hartz Variety H5050	V	NO	5	W	TN	TW	BL	R	-	-	-	-	
Hartz Variety H5164RR	V	NO	5	W	TN	TW	BL	T	R	S	R	MS	
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	MS	R	MS	
Hartz Variety H5545	V	NO	5	P	TN	G	IBL	R	R	R	R	S	
Hartz Variety H5566RR	V	NO	5	W	TN	TW	BL	T	R	MR	MR	MS	
Heartland Seed AP-40	BR	NO	4	W	BR	G	BF	R	T	MR	R	S	
Hornbeck HBK 49	BR	NO	4	-	-	-	-	-	-	-	-	-	
Hornbeck HBK 54	BR	NO	5	-	-	-	-	-	-	-	-	-	
Hornbeck HBK 58	BR	NO	5	-	-	-	-	-	-	-	-	-	
HyPerformer HSC 501 Br	BR	NO	5	P	TN	TW	BL	R	R	MR	R	MS	
HyPerformer HY 4540	V	NO	4	W	TN	TW	BL	-	R	MR	R	MS	
HyPerformer HSC 557	V	NO	5	P	TN	TW	BL	-	R	MS	R	MS	
HyPerformer HY 574	V	NO	5	P	TN	TW	BL	R	S	-	-	-	
ICI D371	BR	NO	3	P	BR	TW	BR	R	S	-	-	-	
ICI D396	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
ICI D414	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
ICI D454	BR	NO	4	W	BR	G	BF	R	S	MS	-	MS	
ICI D478	BR	NO	4	P	TN	TW	BL	T	S	-	-	-	
LG Seeds LG6335	V	NO	3	-	-	-	-	-	-	-	-	-	
LG Seeds LG6397	V	NO	3	-	-	-	-	-	-	-	-	-	
LG Seeds LG6453	V	NO	4	-	-	-	-	-	-	-	-	-	
LG Seeds LG6337c	V	NO	3	-	-	-	-	-	R	MR	R	MS	
LG Seeds LG6392c	V	NO	3	-	-	-	-	-	R	S	R	MS	
LG Seeds LG6437c	V	NO	4	-	-	-	-	-	R	MS	MR	S	
LG Seeds LG6462c	V	NO	4	-	-	-	-	-	R	MR	MR	MR	
JMS 4240	V	NO	4	W	BR	TW	BL	S	S	-	-	-	
JMS 4788	V	NO	4	P	BR	TW	BL	S	S	-	-	-	
JMS 3509c	V	NO	3	P	BR	TW	BL	S	R	MS	R	S	
Kruger K3434	V	NO	3	P	BR	G	BF	R	S	-	-	-	
Kruger K3525	V	NO	3	W	TN	G	BF	S	S	-	-	-	
Kruger K3606	V	NO	3	W	BR	TW	BR	S	S	-	-	-	
Kruger K3636	V	NO	3	W	TN	TN	BL	R	S	-	-	-	
Kruger K3727	V	NO	3	W	BR	TN	BL	S	S	-	-	-	

TABLE 37. Continued.

Brand	Variety Brand Blend	Exp. Var- iety	Mat- urity Group	Color			Phyto- phthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Rating	Company Race1	UMC Screening Race3
Kruger K3769+	V	NO	3	P	BR	TW	BR	S	S	-	-	-
Kruger K3808	V	NO	3	P	BR	TW	BL	S	S	-	-	-
Kruger K3838	V	NO	3	P	BR	TN	BL	S	S	-	-	-
Kruger K3848	V	NO	3	P	BR	G	BF	S	S	-	-	-
Kruger K3939	V	NO	3	P	BR	TW	BL	S	S	-	-	-
Kruger K3999	V	NO	3	P	BR	TW	BL	S	S	-	-	-
Kruger K4004	V	NO	4	P	BR	TN	BL	S	S	-	-	-
Kruger K4040	V	NO	4	M	BR	TW	BL/BR	S	S	-	-	-
Kruger K4101	V	NO	4	P	BR	TW	BL	S	S	-	-	-
Kruger K4101+	V	NO	4	P	BR	TW	BL	S	S	-	-	-
Kruger K4444	V	NO	4	P	BR	TW	BL	S	S	-	-	-
Kruger K4545	V	NO	4	P	BR	TW	BL	S	S	-	-	-
Kruger K4545 SCN	V	NO	4	P	BR	G	BR	S	S	MS	S	S
Kruger K4646	V	NO	4	P	BR	TW	BL	S	S	-	-	-
Lewis 322	BR	NO	3	M	BR	TW	BR	T	S	-	-	-
Lewis 349	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
Lewis 362	BR	NO	3	P	BR	TN	BL	R	R	MR	R	MR
Lewis 390	BR	NO	3	M	BR	TW	M	R	R	MS	MR	MS
Lewis 391	BR	NO	3	W	BR	TN	BL	R	R	MS	MR	MS
Lewis 405	BR	NO	4	P	BR	TN	BL	R	R	R	R	MR
Lewis 409	BR	NO	4	P	BR	TN	BR	T	S	-	-	-
Lewis 431	BR	NO	4	W	BR	TN	BL	T	S	S	MR	MS
Lewis 448	BR	NO	4	W	BR	G	Y	T	S	-	-	-
Lewis 3900STS	BR	NO	3	P	BR	TN	BL	T	S	-	-	-
Lynks 5373	BR	NO	3	P	TN	TW	BR	T	S	-	-	-
Lynks 5380	BR	NO	3	W	TN	TW	BL	T	R	R	MR	MR
Lynks 5451	BR	NO	4	W	TN	G	BF	R	R	MR	MR	MS
Lynks 5482	V	NO	4	P	BR	TW	BL	T	S	-	-	-
Mark Seed MRK 9335	BR	NO	3	-	-	-	-	-	-	-	-	-
Mark Seed MRK 9638	BR	NO	3	-	-	-	-	-	-	-	-	-
Mark Seed MRK 9735	BR	NO	3	-	-	-	-	-	-	-	-	-
McAllister Recyster	BR	NO	3	W	TN	TW	BL	S	R	R	R	MR
McAllister Ruler	BR	NO	3	P	BR	TW	BR	S	S	-	-	-
Merschman Atlanta III	BR	NO	4	W	BR	TW	BL	T	S	-	-	-
Merschman Austin II	BR	NO	4	P	TN	G	BF	T	S	-	-	-
Merschman Cleveland III	BR	NO	4	W	TN	TW	BL	T	S	-	-	-
Merschman Dallas	BR	NO	4	P	TN	G	BF	T	S	-	-	-
Merschman Dallas II	BR	NO	4	P	BR	G	IBL	T	S	-	-	-
Merschman Eisenhower III	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
Merschman Fillmore IV	BR	NO	3	W	BR	TW	BR	T	S	-	-	-
Merschman Hayes III	BR	NO	3	P	BR	TW	BL	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 McKinley II	BR	NO	3	W	TN	TW	BL	T	S	S	R	MS
Merschman Nashville	BR	NO	4	P	BR	TW	BL	T	S	-	-	-
Merschman Richmond II	BR	NO	4	W	TN	TW	BR	T	R	MS	MR	MS
Merschman Richmond III	BR	NO	4	P	BR	G	IBL	T	R	MR	MR	S
Merschman Rushmore II	BR	NO	5	P	TN	G	IBL	T	R	R	MR	MS
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	MR	R	MS
MFA Morsoy 9233	BR	NO	3	P	TN	BR	BL	R	S	-	-	-
MFA Morsoy 9241	BR	NO	4	P	TN	BR	BL	R	T	-	-	-
MFA Morsoy 9245 SCN	BR	NO	4	W	BR	G	BF	T	R	MS	MR	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	MR	R	MR
MFA Morsoy 9348	BR	NO	4	P	BR	TW	BL	T	S	-	-	-
MFA Morsoy 9438	BR	NO	4	P	BR	TW	BL	T	S	-	-	-
MFA Morsoy 9441 SCN	BR	NO	4	W	BR	G	BF	S	R	MS	MR	MR
MFA Morsoy 9444 SCN	BR	NO	4	W	TN	TW	BL	T	R	MS	MR	MR
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	T	R	MR	MR	MR
Midland XP351	BR	YES	3	P	BR	BR	BL	T	R	-	-	-
Midland XP481	BR	YES	4	W	BR	BR	BL	T	S	-	-	-
Midland XP491	BR	YES	4	W	BR	G	BL	T	S	-	-	-
Midland XP48N	BL	YES	4	M	M	M	M	T	R	MS	S	S

TABLE 37. Continued.

Brand	Variety Brand Blend	Exp. Vari- ety	Mat- urity Group	Color				Phyto- phthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	Screening Race3	Reaction Race4
Midwest Seed	Gen.G3660C	BR	NO	3	W	TN	TW	BL	T	R	MS	-	MR
Midwest Seed	Gen.G3870	BR	NO	3	P	TN	TW	BR	T	S	-	-	-
Midwest Seed	Gen.G3880	BR	NO	3	P	TN	TW	BR	T	S	-	-	-
Mycogen 395		V	NO	3	P	TN	TW	BL	S	S	-	-	-
Mycogen 429		V	NO	4	W	BR	G	BF	S	R	MR	R	MS
Mycogen 470		V	NO	4	P	BR	TN	BL	S	S	-	-	-
NC+ 3A75		V	NO	3	P	TN	TW	BL	S	S	-	-	-
NC+ 4A10		V	NO	4	P	TN	TW	BR	S	S	-	-	-
NC+ 4A27		V	NO	4	P	G	G	BF	S	R	MS	R	MS
NC+ 5A44		V	NO	4	P	TN	G	IBL	S	R	MR	R	MS
NC+ 5H61		V	NO	5	W	TN	GR	BR	S	S	-	-	-
NeCo 1051N		BR	NO	3	W	BR	TN	BL	T	R	S	MR	MS
NeCo 7354		BR	NO	3	W	TN	TW	BL	T	S	-	-	-
NeCo 7392		BR	NO	3	P	TN	TW	BL	T	R	S	-	-
NeCo 7395N		BR	NO	3	W	TN	G	BF	T	R	S	S	S
NeCo 7415N		BR	NO	4	W	BR	G	BF	T	R	S	R	MR
NeCo 7445N		BR	NO	4	W	TN	TW	BL	T	R	MR	MR	MS
NeCo 7465		BR	NO	4	P	BR	TW	BL	T	S	-	-	-
NeCo 7475N		BR	NO	4	P	TW	BR	BL	T	R	-	R	MS
NeCo 7484		BR	NO	4	P	BR	TW	BL	T	S	-	-	-
Northrup King	S35-35	V	NO	3	P	TN	TW	BL	R	S	-	-	-
Northrup King	S39-11	V	NO	3	P	TN	TW	BL	R	S	-	-	-
Northrup King	S42-32	V	NO	4	W	BR	G	Y	R	R	MR	R	MS
Northrup King	S42-60	V	NO	4	P	TN	TW	BL	S	S	-	-	-
Northrup King	S46-44	V	NO	4	P	BR	TW	BL	R	R	MR	R	MS
Northrup King	S52-25	V	NO	5	W	BR	TW	BL	R	R	MS	R	MS
Northrup King	S57-11	V	NO	5	P	BR	TW	BL	R	R	MS	R	MS
Northrup King	S59-95	V	NO	5	P	TN	TW	BL	S	R	MS	R	MS
Ohlde 3550		BR	NO	3	-	-	-	-	T	S	-	-	-
Ohlde 3580		BR	NO	3	-	-	-	-	T	S	-	-	-
Ohlde 3403N		BR	NO	3	-	-	-	-	T	R	MS	-	MS
Ohlde 3662N		BR	NO	3	-	-	-	-	T	R	MS	R	MS
Ohlde 3900		BR	NO	3	-	-	-	-	T	S	-	-	-
Ohlde 3996		BR	NO	3	-	-	-	-	T	S	-	-	-
Ohlde 4040		BR	NO	4	-	-	-	-	T	S	-	-	-
Ohlde 4097N		BR	NO	4	-	-	-	-	T	R	S	MR	MS
Ohlde 4262N		BR	NO	4	-	-	-	-	T	R	MR	MR	MS
Ohlde 4440		BR	NO	4	-	-	-	-	T	S	-	-	-
Patriot 488		BR	NO	4	P	BR	TW	BL	T	S	-	R	MS
Patriot 6453N		BR	YES	4	-	-	-	-	-	R	MS	MR	MS
Patriot 6457N		BR	YES	4	-	-	-	-	-	R	MS	MR	MS
Patriot 6530N		BR	YES	5	-	-	-	-	-	R	R	MR	MS
Patriot 6555N		BR	YES	5	-	-	-	-	-	R	MR	MR	MS
Pioneer Variety	9281	V	NO	2	P	BR	TW	BL	R	S	-	R	MR
Pioneer Variety	9362	V	NO	3	W	BR	G	BF	R	S	MS	-	-
Pioneer Variety	9381	V	NO	3	W	TN	TW	BL	S	S	-	-	-
Pioneer Variety	9392	V	NO	3	P	TN	TW	BL	T	R	-	-	-
Pioneer Variety	9393	V	NO	3	P	TN	TW	BL	T	R	-	-	-
Pioneer Variety	9394	V	NO	3	W	TN	TW	BL	R	R	MR	R	MR
Pioneer Variety	9412	V	NO	4	P	TN	TW	BL	S	S	-	-	-
Pioneer Variety	9444	V	NO	4	W	TN	TW	BL	S	R	-	MR	MS
Pioneer Variety	9451	V	NO	4	W	BR	TW	BL	T	R	MR	R	MR
Pioneer Variety	9452	V	NO	4	W	TN	TW	BL	S	R	-	R	MS
Pioneer Variety	9472	V	NO	4	W	TN	TW	BL	T	R	MS	R	MS
Pioneer Variety	9481	V	NO	4	W	TN	TW	BL	S	R	MR	MR	MR
Pioneer Variety	9491	V	NO	4	W	BR	TW	BR	S	R	MS	R	MS
Pioneer Variety	9521	V	NO	5	P	TN	TW	BL	R	R	R	R	S
Pioneer Variety	9551	V	NO	5	W	TN	TW	BL	T	R	S	MR	S
Pioneer Variety	9584	V	NO	5	W	TN	TW	BL	T	R	MR	R	S
Pioneer Variety	9592	V	NO	5	W	TN	TW	BL	T	S	-	-	-
Prairie Brand	PB-384	BR	NO	3	W	BR	TW	BF	S	-	-	-	-
Prairie Brand	PB-376X	BR	YES	3	P	TN	TW	M	S	-	-	-	-
Randell 304		BR	NO	3	-	-	-	-	-	-	-	-	-
Randell 375		BR	NO	3	-	-	-	-	-	-	-	-	-
Ray Carroll 938cy		BR	NO	3	W	TN	TW	BL	T	R	S	R	MR
Ray Carroll 3894		BR	NO	3	W	TN	TN	BL	T	S	-	-	-
Ray Carroll 4793		BR	NO	4	P	TN	TN	BR	T	S	-	-	-

TABLE 37. Continued.

Brand	Variety Brand Blend	Exp. Variety	Matu- rity Group	Color				Phyto- phthora		Cyst Nematode Reaction Company UMC Screening			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Rating	Race1	Race3	Race4
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	S	MR	MS	
Reeds Brand 355 SCN	BR	NO	3	W	G	BR	BR	R	R	MS	R	MS	
Reeds Brand 360 SCN	BR	NO	3	W	TN	BR	BR	R	R	MS	MR	MS	
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 499	V	NO	5	P	TN	G	IBL	R	S	-	-	-	
Riverside 529I	V	NO	5	W	TN	G	BF	-	S	-	-	-	
Riverside 549	V	NO	5	-	-	-	-	-	-	-	-	-	
Scott's Maverick II	V	NO	3	W	BR	TN	BL	S	S	-	-	-	
Scott's 7421	V	NO	3	P	BR	TN	BL	S	R	-	-	-	
Scott's 95139R	V	NO	3	W	BR	G	BF	S	R	S	R	MS	
Scott's 95140	V	NO	4	M	TN	TN	BL	S	R	-	-	-	
Scott's 95237R	V	NO	3	W	TN	BR	BL	S	R	MR	MR	MS	
Stine 3570	BR	YES	3	W	BR	TW	BR	T	S	-	-	-	
Stine 3660	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
Stine 3680	BR	NO	3	W	BR	TW	BL	T	S	-	-	-	
Stine 4322CN	BR	NO	4	W	BR	G	BF	T	R	MR	R	MS	
Stine 4340	BR	NO	4	P	TN	G	IBL	T	S	-	-	-	
Stine 4572	BR	NO	4	P	TN	TW	Y	T	S	S	S	S	
Stine 4650	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Stine 4680	BR	NO	4	P	BR	TW	BR	T	S	-	-	-	
Terra E364	BR	YES	3	W	BR	G	BF	R	S	-	-	-	
Terra E415	BR	YES	3	M	BR	TW	BL	R	S	-	-	-	
Terra TS294	BR	NO	2	P	BR	G	BL	T	S	-	-	-	
Terra TS390SCN	BR	NO	3	W	TW	TW	BL	T	R	MR	R	MS	
Terra TS402	BR	NO	4	P	TW	TW	BR	T	S	-	-	-	
Terra TS474	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Terra TS4292	BR	NO	4	P	TW	BR	BL	T	R	MS	R	MR	
Terra TS4792	BR	NO	4	P	TW	BR	BL	T	R	MR	MR	MS	
Terra TS504	BR	NO	5	W	TN	TN	BL	T	R	MR	-	MS	
Terra Torch	BR	NO	3	P	BR	TW	BL	R	S	-	-	-	
Terra-Vig 5452	V	NO	5	W	TN	G	BF	R	R	MR	R	S	
Terra-Vig 5555	V	NO	5	P	TN	G	BL	T	S	S	S	S	
Terra-Vig 5693	V	NO	5	P	TN	G	IBL	T	S	-	-	-	
Terral TV 4452	V	NO	4	P	TN	BR	BL	R	R	MR	R	MS	
Terral TVX 4479	V	YES	4	W	TN	TN	BL	T	R	MS	MR	MR	
Terral TVX 4570	V	YES	4	W	TN	TN	BR	T	S	-	-	-	
Terral TVX 4596	V	YES	4	P	TN	BR	BL	T	R	MS	R	MR	
Terral TV 4990	V	NO	4	P	TN	TN	BL	-	R	MR	MR	MR	
Terral TV 5495	V	NO	5	P	TN	TN	BL	T	R	R	R	S	
Terral TV 5797	V	NO	5	W	TN	G	BF	-	R	MR	R	S	
Terral TVX 5893	V	YES	5	P	TN	TN	BR	T	R	R	R	MS	
United Agr.Prod UAPX-157	V	NO	4	-	-	-	-	-	-	-	-	-	
Willcross 92-A	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
Willcross 92-B	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
Willcross 94	BR	NO	3	W	BR	TN	BL	T	R	MR	R	MR	
Willcross 9435-A	BR	NO	3	W	TN	TW	BL	T	S	-	-	-	
Willcross 9435-B	BR	NO	3	W	TN	TW	BL	T	S	-	-	-	
Willcross 9447-A	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Willcross 9447-B	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Willcross 9531	BR	NO	3	P	BR	TW	BL	-	S	-	-	-	
Willcross 9533	BR	NO	3	P	TN	TW	BL	-	S	-	-	-	
Willcross 9536	BR	NO	3	P	BR	TW	BR	-	S	-	-	-	
Willcross 9538N	BR	NO	3	P	TN	TW	BL	-	R	S	S	S	
Willcross 9540	BR	NO	3	W	BR	TW	BL	-	S	-	-	-	
Willcross 9541N	BR	NO	4	W	BR	G	BF	-	R	MR	R	MS	
Willcross 9544N	BR	NO	4	W	TN	TW	BL	-	R	MS	MR	MR	
Willcross 9546	BR	NO	4	P	BR	TW	BL	-	S	-	-	-	
Willcross 9547N	BR	NO	4	P	TW	BR	BL	T	R	MR	R	MR	
Willcross 9552N	BR	NO	5	P	BR	TW	BL	-	R	R	R	MS	
Wilson 3630	BR	NO	3	W	TN	TW	BL	S	R	R	R	MR	
Wilson 3670	BR	NO	3	P	BR	TW	BR	S	S	-	-	-	
<b>PUBLIC VARIETIES</b>													
Jack	V	NO	2	W	BR	G	BF	R	R	MR	R	MR	
Corsica	V	NO	3	P	TN	TW	G	S	S	-	-	-	
Flyer	V	NO	3	P	TN	TW	BL	R	S	-	-	-	



TABLE 37. Continued.

Brand	Variety Brand Blend	Exp. Variety	Mat-urity Group	Color				Phyto-phthora Root Rot	Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum		Company Rating	UMC Race1	Screening Race3	Reaction Race4
Hamilton	V	NO	3	W	BR	G	BF	R	S	-	-	-
HS90-3653	V	NO	3	-	-	-	-	-	-	-	-	-
Linford	V	NO	3	W	TN	TW	BL	R	R	MR	R	MS
LN89-295	V	NO	3	W	TN	TW	BL	S	S	-	-	-
Macon	V	NO	3	-	-	-	-	-	-	-	-	-
NMSB 4503	V	YES	3	P	G	G	-	R	R	MS	R	MS
NMSB 4455	V	YES	3	-	G	G	-	R	R	MS	R	MR
Probst	V	NO	3	-	-	-	-	-	-	-	-	-
Resnik	V	NO	3	P	TN	TW	BL	R	S	-	-	-
Saline	V	NO	3	W	T	G	BF	T	R	MR	R	MS
Williams 82	V	NO	3	W	TN	TW	BL	R	S	S	S	S
Yale	V	NO	3	-	-	-	-	-	R	MR	R	MR
Calhoun	V	NO	4	-	-	-	-	-	-	-	-	-
Cisne	V	NO	4	-	-	-	-	-	-	-	-	-
Delsoy 4210	V	NO	4	W	TN	TW	G	S	R	MS	MR	MS
Delsoy 4710	V	NO	4	P	TN	TW	BL	S	R	MS	R	MS
KS4694	V	NO	4	W	BR	G	BF	S	S	-	-	-
Ky88-5037	V	YES	4	-	-	-	-	-	-	-	-	-
Manokin	V	NO	4	W	TN	TW	BL	-	R	R	R	S
Magellan	V	NO	4	-	-	-	-	-	-	S	S	S
Mustang	V	NO	4	-	-	-	-	-	R	MR	R	MR
NMSB 89	V	YES	4	W	TN	TN	BF	S	R	R	R	MS
NMSB 129	V	YES	4	W	G	G	BF	S	R	R	R	MS
Stressland	V	NO	4	P	TN	TW	BL	T	S	-	-	-
TN 4-94	V	NO	4	-	-	-	-	-	R	S	MR	MR
Avery	V	NO	5	W	BR	TW	BL	S	R	MS	R	MS
Clifford	V	NO	5	P	TN	TW	BL	S	S	-	-	-
Delsoy 4900	V	NO	5	P	TN	BR	BR	S	R	R	R	S
Essex	V	NO	5	P	TN	G	BF	T	S	-	-	-
Hartwig	V	NO	5	W	TN	TW	BL	T	S	R	R	R
Holladay	V	NO	5	P	TN	G	BF	S	S	-	-	-
Hutcheson	V	NO	5	W	TN	G	BF	T	S	-	-	-
Ky88-4080	V	YES	5	-	-	-	-	-	-	-	-	-
TN 5-95	V	NO	5	-	-	-	-	-	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 38. NAMES OF SOYBEAN ENTRIES EVALUATED IN 1995 AND THEIR SEED SOURCES.

BRAND	VARIETY/BLEND	SEED SOURCE
AgraTech	FFR 474, FFR 493, FFR 514, FFR 563, AT555	AgraTech Seeds, Inc., 5559 N. 500 W., McCordsville, IN 46055 (800-382-7333)
AgriPro	AP 3940, AP 4100, AP 4343, EX 3868, EX 4400	AgriPro Seeds, Inc., Rt. 2, Hwy. 30 E, Ames, IA 50010 (515-232-0707)
Asgrow	A3134, A3431, A3732, A3834, A4138, A4341, A4715, A4922, A5547, A5843, A5885	Asgrow Seed Co., 2605 E. Kilgore, Kalamazoo, MI 49002 (616-384-5562)
Bergmann-Taylor	366-ST5, 386C, 399C 425, 436C, 445C	Bergmann-Taylor, Inc., Box 317, St. Jacob, IL 62281 (618-644-5522)
Buckshot	55, EK58	Delhi Seed Co. Inc., Box 176, Hwy 17N., Delhi, LA 71232 (318-878-9031)
Capehart	Stone	Capehart Seed Service, Box 10, Hwy. 61 S., Holland, MO 63853 (314-695-4447)
Challenger	373, 434	Weber Seeds, Inc., Rt #4, Box 130, Marshall, Mo 65340 (816-886-3745)
Ciba	3362, 3388, 3474 3522Y, 4305Y	Ciba Seeds, 3615 S. Hilton Ln, Peoria, IL 61607 (309-697-2414)
Clayton Seed	CS 9437	LaPrairie-Chatton Elevator, Inc., Box 20, Clayton, IL 62324 (217-894-6561)
Dairyland	DSR-317, DSR-360/STS, DSR-365, DSR-373, DST-3125, DST-3308	Dairyland Seed Co., Inc., Box 958, 3570 Hwy. H, West Bend, WI 53095 (800-236-0163)
Dekalb	CX340c, CX368, CX394c, CX399, CX411, CX434, CX445, CX469c, CX499c	Dekalb Genetics Corp., 3100 Sycamore Road, DeKalb, IL 60115 (815-758-9323)
Delta King	4450, 4875, 5475, 5850	Delta King Seed Co., Box 970, McCrory, AR 72101 (501-731-5485)
Deltapine	105, 415, DP 3456, DP 3478, DP 3588, DPX 3519, DPX 3571	Delta and Pine Land Co., Box 157, Scott, MS 38772 (601-742-3351)
Desoy	3303, 3515, 3525E, 3717, 4114	Dennis Ewing Farm Seed, 3903 Squaw Rd, Ames, IA 50014 (515-232-8236)
Dixie	478, 544, 579	Cache River Valley Development Corp. Box 10, Cash, AR 72421 (501-477-5427)
Dyna-Gro	3303, 3368, 3400 3391N, UAPX-157	Pueblo Chem. & Supply Co., 632 Deer Rd., Clifton, KS 66937 (913-455-3369)
Dyna-Gro	3495, 3576	Tri-State Delta Chem. Inc., Box 89, Rayville, LA 71269 (318-728-9041)
Dyna-Gro	3340, 3400, 3410, 3391N, UAPX-157	UAP/Richter, Box 230, Pittsfield, IL 62363 (217-285-4461)
Fontanelle	6100, 6104	Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044 (402-721-1410)
Freedom	4355, 4347, 4422, 4350, 4437	Freedom Seed Co., US Rt 24 E., Box 710, Astoria, IL 61501 (309-759-4480)
Golden Harvest	H-1328, H-1353, H-1358, H-1388, H-1407, H-1458, H-1432, X 454	The J.C. Robinson Seed Co., 100 J.C. Robinson Blvd., Box A, Waterloo, NE 68069 (402-779-2531)
Hartz Variety	H4994, H5050, H5164RR, H5218, H5350, H5545, H5566RR	Jacob Hartz Seed Co., Inc., Box 946, Stuttgart, AR 72160 (501-673-8565)
Heartland Seed	AP-40	Heartland Agriculture, L.L.C., 838 NE 1000 Rd., Calhoun, MO 65323 (816-694-3316)
Hornbeck	HBK 49, HBK 54, HBK 58	Hornbeck Seed Co. Inc., Box 347, DeWitt, AR 72042 (501-946-2087)

TABLE 38. Continued.

BRAND	VARIETY/BLEND	FIRM AND ADDRESS
HyPerformer	HSC 501Br, HSC 557, HY 574, HY 4540	HyPerformer Seed Co., One Hy Crop Row, Memphis, TN 38120 (901-756-1771)
ICI	D371, D396, D414, D454, D478	ICI Seed, 6945 Vista Dr., West Des Moines, IA 50266 (515-222-1400)
JMS	3509c, 4240, 4788	LG Seed Co., Mt Pleasant Service Center, Old Hwy 218 N., Box 28, Mt. Pleasant, IA 52641 (319-385-2259)
Kruger	K3434, K3525, K3606, K3636, K3727, K3769+, K3808, K3838, K3848, K3939, K3999, K4004, K4040, K4101, K4101+, K4444, K4545, K4545SCN, K4646	Kruger Seed Co., Box A, Hwy 20 E, Dike, IA 50624 (319-989-2414)
Lewis	322, 349, 362, 390, 391, 405, 409, 431, 448, 3900STS	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376 (217-964-2131)
LG Seeds	LG6335, LG6337c, LG6392c, LG6397, LG6437c, LG6453, LG6462c	LG Seeds, Mt. Pleasant Service Center, Old Hwy 218 N. Box 28, Mt. Pleasant, IA 52641 (319-385-2259)
Lynks	5373, 5380, 5451, 5482	Lynks Seeds, Box 637, Marshalltown, IA 50158 (800-798-2676)
Mark Seed	MRK 9335, MRK 9638, MRK 9735	Mark Seed Co., 823 W. 2nd, Box 67, Perry, IA 50220 (515-465-2122)
McAllister	Recyster, Ruler	LG Seeds, Mt. Pleasant Service Center, Old Hwy 218 N., Box 28, Mt. Pleasant, IA 52641 (319-385-2259)
Merschman	Atlanta III, Austin II, Cleveland III, Dallas, Dallas II, Fillmore IV, Eisenhower III, Hayes III, Houston III, Kennedy IV, McKinley II, Nashville, Richmond II, Richmond III, Rushmore II	Merschman Seed Co., 103 Ave. D., West Point, IA 52656 (319-837-6111)
MFA Morsoy	8838, 8842, 9137, 9233, 9241, 9348, 9438, 9152 SCN, 9245 SCN, 9335 SCN, 9338 SCN, 9345 SCN, 9441 SCN, 9444 SCN	MFA Inc., 615 Locust, Columbia, MO 65201 (314-876-5285)
Midland	8393, 8413, 8410, 8475, XP351, XP481, XP491, XP48N	Midland Seeds Inc., 1906 Kingman Rd., Ottawa, KS 66067 (913-242-3598)
Midwest Seed Gen.	G3660C, G3870, G3880	Midwest Seed Genetics, Inc., Box 518, 213 E. 6th, Carroll, IA 51401 (800-369-8218)
Mycogen	395, 429, 470	Mycogen Plant Sciences, 720 St. Croix St., Prescott, WI 54021 (800-321-2867)
NC+	3A75, 4A10, 4A27, 5A44, 5H61	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504 (402-467-2517)
NeCo	1051N, 7354, 7392, 7395N, 7415N, 7445N, 7465, 7475N, 7484	NeCo Seed Farms, Inc., Box 379, Garden City, MO 64747 (816-862-8203)
Northrup King	S35-35, S39-11, S42-32, S42-60, S46-44, S52-25, S57-11, S59-95	Northrup King Co., 702 Magnolia, Mt. Vernon, IL 62864 (618-244-3454)
Ohlde	3550, 3580, 3403N, 3662N, 3900, 3996, 4040, 4097N, 4262N, 4440	Ohlde Seed Farms Inc. (Midwest Seed Genetics), RT.1, Box 63, Palmer, KS 66962 (913-692-4555)
Patriot	488, 6453N, 6457N, 6530N, 6555N	Patriot Seed, Inc., 1411 N. Kickapoo, Lincoln, IL 62656 (217-864-3313)

TABLE 38. Continued.

BRAND	VARIETY/BLEND	FIRM AND ADDRESS
Pioneer Variety	9392, 9444, 9452, 9472, 9481, 9521, 9551, 9584, 9592	Pioneer Hi-Bred Int., Inc., 6767 Old Madison Pike #110 Huntsville, AL 35806 (205-971-0760)
Pioneer Variety	9281, 9362, 9381, 9392, 9393, 9394, 9412, 9451, 9452, 9481, 9491	Pioneer Hi-Bred Int., Inc., MidRiver Off., Box 1536 O'Fallon, IL 62269 (618-624-8222)
Prairie Brand	PB-376X, PB-384	Sansgaard Seed Farms, Inc., 15 X Ave., Story City, IA 50248 (515-733-2101)
Randell	304, 375	Randell Seed Co., Box 67, Cedar, IA 52543 (515-673-7020)
Ray-Carroll	3894, 4793, 938cy	Ray Carroll Seeds, Box 267, E. Santa Fe, Norborne, MO 64668 (816-594-3711)
Reeds Brand	222, 390, 445, 330 STS, 350 SCN, 355 SCN, 360 SCN	Reeds Seeds, Inc., 1035 Industrial Rd., Box 230, Chillicothe, MO 64601 (816-646-4426)
Riverside	499, 529I, 549	Terra Int., Box 171376, 6555 Quince Rd., Memphis, TN 38187 (901-758-1341)
Scott's	7421, 95139R, 95140, 95237R, Maverick II	Scott's Quality Seeds, 1701 N. Broadway, Mt. Pleasant, IA 52641 (319-385-8519)
Stine	3570, 3660, 3680, 4322CN, 4340, 4572, 4650, 4680	Stine Seed Co., 2225 Laredo Trail, Adel, IA, 50003 (515-677-2605)
Terra	E364, E415, TS294, TR390SCN, TS402, TS474, TS4292, TS4792, TS504, Torch	Terra Int., Inc., 600 4th St., Box 6000, Sioux City, IA 51102 (712-233-3609)
Terra-Vig	5452, 5555, 5693	Terral-Norris Seed Co., Inc., 604 Blount St., Box 826, Lake Providence, LA 71254 (318-559-2840)
Terra	TV 4452, TVX 4479, TVX 4570, TVX 4596, TV 4990, TV 5495, TV 5797, TVX 5893	Terral-Norris Seed Co., Inc., 604 Blount St., Box 826, Lake Providence, LA 71254 (318-559-2840)
Willcross	92-A, 92-B, 94, 9345-A, 9435-B, 9447-A, 9447-B, 9531, 9533, 9536, 9538N, 9540, 9541N, 9544N, 9546, 9547N, 9552N	Midland Soybean Dev. Assoc., Box 379, Garden City, MO 64747 (816-862-8203)
Wilson	3630, 3670	Wilson Seeds, Inc., Box 391, Harlan, IA 51537 (712-755-3841)
Public Varieties	Avery, Calhoun, Corsica, Clifford, Delsoy 4210, Delsoy 4710, Delsoy 4900, HS90-3653, Essex, Flyer, Hamilton, Hartwig, Holladay, Hutcheson, Jack, Ky88-4080, Ky88-5037, KS4694, Linford, Macon, Magellan, Manokin, Mustang, Probst, Resnik, Saline, Yale, Stressland, Williams 82	MSIA, 3211 LeMone Industrial Blvd., Columbia, MO 65201 (314-449-0586)
	Macon, Cisne, HS90-3653, TN 4-94, TN 5-95, Magellan, Mustang, LN89-295, NMSB-89, NMSB-129, NMSB 4455, NMSB-4503	University of Missouri, Foundation Seed (314-884-7333)

## NOTES

# 250 million people are looking for this.



## Make sure they can find it.

It's the SoySeal. And the best way to make sure America's 250 million consumers can find it is to place it prominently on printed and published materials.

The SoySeal represents one of the vast uses of U.S.-grown soybeans, which produce the world's most widely consumed vegetable oil.

Readers of newspapers and buyers of printing are becoming more discriminate in their demand for products that are more friendly to the environment. The use of soy ink allows you to meet that demand. And the SoySeal allows you to proclaim that you have.

If you are already using soy ink, tell everyone that you have done something for them. Don't keep it a secret. Market your product.

For information on how you can qualify to display the SoySeal, write:

### SoySeal

**Missouri Soybean Merchandising Council**

P.O. Box 104778

Jefferson City, MO 65110-4778 • (314) 635-6701

1-800-662-3261

**AMERICAN SOYBEAN ASSOCIATION  
THE UNITED SOYBEAN BOARD, INVESTING CHECKOFF DOLLARS**



District 4  
Pat Bean  
Lamar, MO



District 1  
John Letzig  
President  
Richmond, MO



District 4  
Neal Bredehoeft  
Vice President  
Alma, MO



District 1  
Steve Alexander  
Secretary  
Hopkins, MO



District 1  
Brooks Hurst  
Treasurer  
Tarkio, MO



District 7  
Dave Madison  
Caruthersville, MC



District 3  
EW Carroll  
Clarence, MO

## Farmers Representing You

The Missouri Soybean Association (MSA) is an organization



District 2  
Mike McKeown  
Moberly, MO

funded by dues from Missouri soybean farmers like you.

The MSA board, 16 soybean producers from across the



District 7  
Cindy Faulkner  
New Madrid, MO



District 7  
Joe Sorrells  
East Prairie, MO

state, were elected by their fellow association members.

This group of unpaid farmer-volunteers is in charge of all

lobbying efforts in Washington, D. C. and Jefferson City to



District 1  
Dennis Fulk  
Platte City, MO



District 6  
Earl Stolte  
Maryland Hts., MO

ensure that Missouri soybean producers are represented

with a strong and unified voice. As these board members

face critical decisions they need to hear your thoughts

and ideas. Let us hear from you. Your input is important!



District 2  
Ron Gibson  
Norborne, MO



District 7  
Larry Strobel  
Bell City, MO



District 3  
David Krusemark  
Madison, MO



District 5  
John Sam Williamson  
Columbia, MO

*Missouri Soybean Association, It's Working.*

---

---

# Missouri Soybean Association

P.O. Box 104778 • Jefferson City, MO 65110-4778 • Phone: (314) 635-3819

The 1995 Missouri Crop Performance was printed by the Missouri Soybean Merchandising Council and is a supplement to the *Missouri Soybean Farmer*.



The Missouri Agricultural Experiment Station does not discriminate on the basis of race, color, national origin, sex, religion, age, disability or status as a Vietnam era veteran in employment or programs. ■ If you have special needs as addressed by the Americans with Disabilities Act and need this publication in an alternative format, write ADA Officer, Extension and Agricultural Information, 1-98 Agriculture Building, Columbia, MO 65211, or call (314) 882-8237. Reasonable efforts will be made to accommodate your special needs.