

Soybean

2000 Missouri Crop Performance



Wiebold, Minor, Morris, Mason, Knerr, Hasty, Fritts, Adams

Agricultural Experiment Station
College of Agriculture Food and Natural Resources
University of Missouri-Columbia

TABLE OF CONTENTS

COMPARING VARIETIES	4
EXPERIMENTAL PROCEDURES	5
Entries	5
Plot Management	5
Data Recorded	5
Cyst Nematode Screening	5
Availability of Data	5
 PART I - STANDARD SOYBEAN TRIALS	 6
EXPERIMENTAL PROCEDURES	6
Field Plot Design	6
Locations	6
Map of Test Locations	6
SUMMARY OF RESULTS	6
Yield Summary for Standard Soybean Tests (Table 1)	7
NORTHERN LOCATIONS	
Corning (Table 2)	8
Albany (Table 3)	10
Osborn (Table 4)	12
Novelty (Table 5)	14
LaGrange (Table 6)	16
Summary of Northern Locations (Table 7)	18
Graphic Yield Summary for the Northern Locations (Figure 1)	20
CENTRAL LOCATIONS	
Henrietta (Table 8)	21
Grand Pass (Table 9)	22
Columbia (Table 10)	23
Truxton (Table 11)	24
Annada (Table 12)	25
Summary of Central Locations (Table 13)	26
Graphic Yield Summary for the Central Locations (Figure 2)	27
SOUTHWESTERN LOCATIONS	
Garden City (Table 14)	28
Butler (Table 15)	29
Urich (Table 16)	30
Nevada (Table 17)	31
Lamar (Table 18)	32
Summary of Southwestern Locations (Table 19)	33
Graphic Yield Summary for the Southwestern Locations (Figure 3)	34
SOUTHEASTERN LOCATIONS	
Oran (Table 20)	35
Wyatt (Table 21)	37
Morehouse (Table 22)	39
Portageville Loam (Table 23)	41
Portageville Clay (Table 24)	43
Summary of Southeastern Locations (Table 25)	45
Graphic Yield Summary for the Southeastern Locations (Figure 4)	47
 PART II - SOYBEAN CYST NEMATODE TRIALS	 48
EXPERIMENTAL PROCEDURES	48
Field Plot Design	48
Locations	49
Map of Test Locations	49
SUMMARY OF RESULTS (Table 26)	49

NORTHERN SOYBEAN CYST NEMATODE LOCATIONS

Corning (Table 27)	50
Mooreville (Table 28)	51
Novelty (Table 29)	52
LaGrange (Table 30)	53
Summary of Northern Locations (Table 31)	54
Graphic Yield Summary for the Northern Locations (Figure 5)	55

CENTRAL SOYBEAN CYST NEMATODE LOCATIONS

Henrietta (Table 32)	56
Marshall (Table 33)	57
Columbia (Table 34)	58
Winfield (Table 35)	59
Summary of Central Locations (Table 36)	60
Graphic Yield Summary for the Central Locations (Figure 6)	61

SOUTHWEST SOYBEAN CYST NEMATODE LOCATION

Garden City (Table 37)	62
Nevada (Table 38)	63
Lamar (Table 39)	64
Summary of Southwestern Locations (Table 40)	65
Graphic Yield Summary for the Southwestern Locations (Figure 7)	66

SOUTHEAST SOYBEAN CYST NEMATODE LOCATIONS

Bertrand (Table 41)	67
Dexter (Table 42)	68
Clarkton (Table 43)	69
Summary of Southeastern Locations (Table 44)	70
Graphic Yield Summary for the Southeastern Locations (Figure 8)	71

PART III - ROUNDUP READY SOYBEAN TRIALS 72

EXPERIMENTAL PROCEDURES	72
Field Plot Design	72
Locations	72
Map of Test Locations	72

SUMMARY OF RESULTS (Table 45) 73

NORTHERN LOCATIONS

Corning (Table 46)	74
Albany (Table 47)	76
Osborn (Table 48)	78
Novelty (Table 49)	80
LaGrange (Table 50)	82
Summary of Northern Locations (Table 51)	84
Graphic Yield Summary for the Northern Locations (Figure 9)	86

CENTRAL LOCATIONS

Henrietta (Table 52)	87
Grand Pass (Table 53)	89
Columbia (Table 54)	91
Truxton (Table 55)	93
Annada (Table 56)	95
Summary of Central Locations (Table 57)	97
Graphic Yield Summary for the Central Locations (Figure 10)	99

SOUTHWESTERN LOCATIONS

Garden City (Table 58)	100
Butler (Table 59)	102
Urich (Table 60)	104
Nevada (Table 61)	106
Lamar (Table 62)	108
Summary of Southwestern Locations (Table 63)	110
Graphic Yield Summary for the Southwestern Locations (Figure 11)	112

SOUTHEASTERN LOCATIONS

Oran (Table 64)	113
Wyatt (Table 65)	115
Morehouse (Table 66)	117
Portageville Loam (Table 67)	119
Portageville Clay (Table 68)	121
Summary of Southeastern Locations (Table 69)	123
Graphic Yield Summary for the Southeastern Locations (Figure 12)	125
SOYBEAN CHARACTERISTICS (Table 70)	126
SOYBEAN SEED COMPANY ADDRESSES (Table 71)	133

THE AUTHORS

William J. Wiebold 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, Richard W. Hasty, Travis G. Fritts and Edward G. Adams are Research Specialists.

ACKNOWLEDGEMENTS

The authors recognize and express their appreciation to the following individuals for their part in making the 2000 soybean trials possible: Rick Bottoms, Director, Graves Experiment Center, Fairfax; Gene Millard, Osborn; Don Null, Director, Hundley-Whaley Farm, Albany; Ron and Bud Beetsma, Mooresville; Randall Smoot, Director, Greenley Memorial Center, Novelty; Roger Tieman, LaGrange; John Schaffer, LaGrange; John Williams, Henrietta; Ryland Utlaut, Grand Pass; Frank Swisher, Marshall; Tim Reinbott, Director, Agronomy Research Center, Columbia; Roy Cope, Truxton; Bob Burkemper, Annada; Stan Rolf, Winfield; Bill Cook, Garden City; Dale Bettles, Butler; Kurt Gretzinger, Urich; Steve Cabbage, Nevada; Morris Klotz, Nevada; Wally Norton, Lamar; Ron Bean, Lamar; Glenn Nothdurft, Oran; Randy Arington, Bertrand; Elott Raffety, Wyatt; Chuck Boyers, Dexter; Tom Jennings, Morehouse; and Jake Fisher, Director, Delta Research Center, Portageville and Clarkton.

Special recognition is given to: Dr. Terry Niblack and Mr. Robert Heinz for their assistance in conducting the cyst nematode screening. Extension Area Agronomists who conducted trials were Rick Bottoms, Fairfax and Steve Norburg, Albany.

MISSOURI CROP PERFORMANCE

2000

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 have increased from 51 in 1973 to 390 in 2000.

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 the variety plots. Results obtained should aid the individual grower in judging the relative merits 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 also contribute. 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 across locations 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, herbicide tolerance 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 out harvest dates. Therefore, information presented on disease reaction, lodging, herbicide tolerance, 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 available information and then grow a small acreage to determine adaptability. This should be the practice for all new varieties regardless of origin.

EXPERIMENTAL PROCEDURES

Entries. Three types of tests were conducted, each including experimental lines, released varieties and brands. "Standard" full-season tests evaluated entries at sites having a low infestation of SCN. Two of these were conducted by University of Missouri Extension personnel and are standard northern tests. The "Cyst Nematode" tests evaluated entries at sites heavily infested with cyst nematodes. One of these was conducted by University of Missouri Extension personnel and is a SCN northern test. "Roundup Ready" tests compared entries resistant to Roundup herbicide. Two of these were conducted by University of Missouri Extension personnel and are Roundup northern tests. All producers of soybean seed were eligible to submit entries for these evaluations in 2000. 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 was charged for each entry.

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

Data Recorded. Maturity group classification was provided by the entry sponsor. Maturity data were recorded when approximately 75 percent of the pods had turned color. 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.

Data on maturity, plant height, lodging and yield are given for each entry and location. 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. Sites naturally infested with soybean cyst nematodes (SCN) were used for testing of SCN resistant entries. All entries submitted to the program as SCN resistant were tested for reaction to Race 1, Race 3, and Race 4 in a separate greenhouse screening study.

Availability of Data. Results of the Missouri Crop Performance Trials are now available in three forms: this printed Special Report, Missouri's Agricultural Electronic Bulletin Board and our web site. Variety test information is accessible from the MAIN MENU under "CROP PERFORMANCE TESTING" of the AgEBB. The system number for the AgEBB is 573/882-8289. Information on the Worldwide Web is available at <http://agebb.missouri.edu/cropperf/soybean/>. If you need assistance call 573/882-4827 for help from the system staff.

PART I

STANDARD SOYBEAN TRIALS

EXPERIMENTAL PROCEDURES

Field Plot Design. A lattice design with three replications was used. Individual plots were typically four rows wide and 20 feet long. The center two rows of each plot were harvested to determine yield. However, at two northern locations, seven-row plots were used with five being harvested.

Locations. On the basis of geographical characteristics, the state was divided into regions. Soybean variety evaluation trials reported here were located in the north, central, southwest, and southeast regions of the state. Trial locations are shown on the adjacent map. In 2000, the locations for these trials are as follows:

North Missouri

1. Graves Experiment Center, Corning (Holt Co.)
2. Hundley-Whaley farm, Albany (Gentry Co.)
3. Gene Millard farm, Osborn (DeKalb Co.)
4. Greenly Memorial Center, Novelty (Knox Co.)
5. Roger Tieman farm, LaGrange (Lewis Co.)

Central Missouri

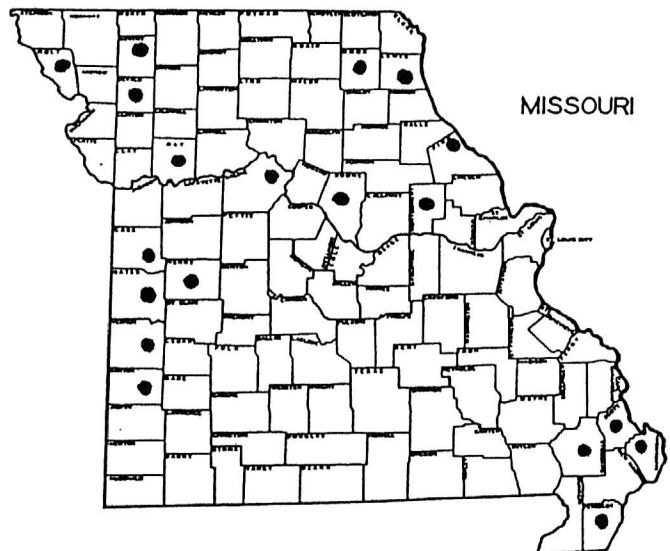
6. John Williams farm, Henrietta (Ray Co.)
7. Ryland Utlaut farm, Grand Pass (Saline Co.)
8. Agronomy Research Center, Columbia (Boone Co.)
9. Roy Cope farm, Truxton (Montgomery Co.)
10. Bob Burkemper farm, Annada (Pike Co.)

Southwest Missouri

11. Bill Cook farm, Garden City (Cass Co.)
12. Dale Bettles farm, Butler (Bates Co.)
13. Kurt Gretzinger farm, Urich (Henry Co.)
14. Steve Cabbage farm, Nevada (Vernon Co.)
15. Wally Norton farm, Lamar (Barton Co.)

Southeast Missouri

16. Glenn Nothdruff farm, Oran (Scott Co.)
17. Elott Raffety farm, Wyatt (Mississippi Co.)
18. Tom Jennings farm, Morehouse (Stoddard Co.)
19. Delta Research Center, Portageville (Pemiscot Co.)



SUMMARY OF RESULTS

Soybean entries were evaluated in twenty standard tests in 2000. Data from these tests are presented in Tables 2 through 25. 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.

TABLE 1. YIELD SUMMARY FOR STANDARD SOYBEAN TESTS

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Northern Region - Standard				
Corning	45	38-54	45	2
Albany	45	39-56	47	3
Osborn	45	41-61	51	4
Novelty	45	46-58	52	5
LaGrange	45	44-60	52	6
Central Region - Standard				
Henrietta	31	30-50	40	8
Grand Pass	31	35-58	45	9
Columbia	31	41-65	52	10
Truxton	31	25-63	51	11
Annada	31	41-63	56	12
Southwest Region - Standard				
Garden City	26	12-32	22	14
Butler	26	7-36	23	15
Urich	26	13-48	35	16
Nevada	26	15-46	34	17
Lamar	26	16-30	24	18
Southeast Region - Standard				
Oran	48	10-56	39	20
Wyatt	48	15-48	35	21
Morehouse	48	18-74	61	22
Portageville(Loam)	48	33-68	54	24
Portageville(Clay)	48	23-49	36	23

TABLE 2. Performance of Soybean Varieties evaluated at the Extension Location (Graves Extension Center) near Corning (Atchison/Holt Counties) during 1998-2000.

Planted: 10 May 2000
 Harvested: 9,10 October 2000
 Planted Population: 192,500 Seeds/A
 Row Spacing: 15 inches
 Soil Type: Haynie Silt Loam
 Soil Test: pH=6.1, OM=3.2%, P=60, K=440

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Touchdown, Dual II Mag., Canopy
 Post: Select
 Irrigation: None
 Previous Crop: Corn
 Tillage: No-till

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

Growing Season Rainfall: May=1.9, June=6.8, July=4.6, Aug.=3.4, Sept.=2.0 TOTAL=18.7 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.

MATURITY GROUP 3

Reeds Brand 390	9-20	39.0	2.0	54.3**	--	46.8	--	--
Pioneer variety 93B82	9-19	40.0	1.0	52.7*	--	46.1	--	--
Fontanelle 9885	9-25	38.0	2.0	51.7*	--	--	--	--
U.S. Seeds US S350	9-19	37.0	2.0	49.7*	--	--	--	--
NK Brand S32-Z3	9-19	36.0	3.0	49.2*	--	--	--	--
Kruger K-3939+	9-28	37.0	2.0	49.1*	--	55.7*	--	--
Kruger K-3231	9-20	36.0	4.0	49.0*	--	--	--	--
Kruger K-3717+	9-23	39.0	3.0	48.9*	--	--	--	--
NC+ 3A87	9-14	39.0	2.0	48.9*	--	--	--	--
Stine 3870-0	9-20	39.0	3.0	48.9*	--	47.3	--	--
Kruger K-3555SCN	9-24	38.0	3.0	48.8*	--	--	--	--
Garst D398	9-24	39.0	2.0	48.5*	--	47.3	--	--
Kruger K-3424+	9-23	38.0	3.0	48.4*	--	53.4*	--	--
Kruger K-3515SCN	9-23	40.0	2.0	46.8*	--	--	--	--
Morsoy 3570	9-20	38.0	2.0	46.8*	--	--	--	--
Kruger K-3303	9-17	40.0	3.0	46.8*	--	--	--	--
Kruger K-3555	9-23	38.0	4.0	46.2*	--	--	--	--
Golden Harvest H-1383	9-20	39.0	2.0	45.9*	--	48.5*	--	--
Kruger K-3333+	9-20	38.0	2.0	45.5*	--	44.4	--	--
Pioneer variety 93B66	9-25	36.0	3.0	45.1	--	--	--	--
Excel 7311ST	9-18	37.0	3.0	44.9	--	--	--	--
Kruger K-3913SCN	9-25	40.0	1.0	44.8	--	--	--	--
Maverick	9-26	37.0	2.0	44.6	--	57.8**	--	--
Morsoy 3386	9-24	41.0	2.0	44.4	--	47.6*	--	--
LG Seeds LGC 3663N	9-24	38.0	3.0	44.2	--	--	--	--
Lewis 375	9-25	36.0	3.0	43.9	--	--	--	--
U.S. Seeds US E371#	9-21	40.0	2.0	43.8	--	--	--	--
Reeds Brand 330 STS	9-23	38.0	2.0	43.2	--	40.2	--	--
Kruger K-3663SCN	9-19	41.0	2.0	42.9	--	--	--	--
Kruger K-3636SCN	9-27	39.0	3.0	42.7	--	--	--	--
NK Brand S38-T8	9-23	37.0	3.0	42.3	--	--	--	--
Morsoy 3709N	9-25	38.0	1.0	42.1	--	--	--	--
Renze 3651cn	9-16	36.0	2.0	41.7	--	--	--	--
Kruger K-3888 SCN/STS	9-17	37.0	2.0	40.7	--	--	--	--
Kruger K-3333+SCN	9-18	40.0	3.0	40.6	--	--	--	--
Kruger K-3777SCN	9-21	39.0	2.0	40.5	--	--	--	--
Midland 9B370N	9-20	38.0	2.0	39.1	--	--	--	--
Vigoro V362SCN	9-22	38.0	3.0	38.4	--	--	--	--
Crow's C 37003N	9-18	40.0	2.0	37.9	--	--	--	--
GROUP 3 AVERAGE	9-21	38.3	2.4	45.5		46.3		
L.S.D. AT .10	NS	NS	NS	8.8		10.4		
C.V. %	23.8	7.0		12.0		16.5		

TABLE 2. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Reeds Brand 444	9-24	41.0	2.0	45.1**	--	--	--	--
Kruger K-4214SCN	9-20	37.0	2.0	44.5*	--	--	--	--
U.S. Seeds US E421#	9-21	40.0	3.0	44.4*	--	--	--	--
Reeds Brand 445	9-19	39.0	3.0	42.8*	--	42.8	--	--
NK Brand S42-H1	9-23	38.0	2.0	42.3*	--	--	--	--
Morsoy 4067 SCN	9-19	40.0	3.0	38.4*	--	56.1**	--	--
GROUP 4 AVERAGE	9-21	39.2	2.5	42.9		43.4		
L.S.D. AT .10	NS	NS	1.3	NS		8.1		
C.V. %	25.7	7.5		14.9		13.5		
TRIAL AVERAGE		38.4	2.4	45.2		45.8		

Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 3. Performance of Soybean Varieties evaluated at the Extension location (Hundley-Whaley Farm) near Albany (Gentry County) during 1998-2000.

Planted: 16 May 2000 Fertilizer: N=0; P₂O₅=0; K₂O=120
 Harvested: 9, 12 October 2000 Herbicide: Pre: Frontier, Canopy XL, FirstRate, Authority
 Planted Population: 192,500 Seeds/A Post: Select
 Row Spacing: 15 Inches Irrigation: None
 Soil Type: Grundy Silt Loam Previous Crop: Corn
 Soil Test: pH=6.2, OM=3.1%, P=64, K=294 Tillage: Conventional

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

Growing Season Rainfall: May=1.6, June=5.7, July=3.6, Aug.=2.0, Sept.=2.9 TOTAL=15.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date ¹	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Kruger K-3424+	9-15	34.2	1.2	55.9**	32.6	--	44.3	--
Kruger K-3303	9-17	35.1	1.1	53.9*	--	--	--	--
Pioneer variety 93B82	9-20	34.4	1.3	53.3*	39.6*	--	46.5	--
Lewis 375	9-18	39.0	1.2	53.1*	--	--	--	--
Pioneer variety 93B66	9-15	31.1	1.5	52.9*	--	--	--	--
Kruger K-3333+	9-12	36.3	1.4	52.0*	35.7	--	43.9	--
Kruger K-3231	9-14	36.1	1.5	50.6*	--	--	--	--
Kruger K-3717+	9-19	37.0	1.8	50.5*	--	--	--	--
Kruger K-3515SCN	9-17	33.8	1.3	49.9	34.0	--	42.0	--
Kruger K-3555SCN	9-13	35.8	1.9	49.7	--	--	--	--
Kruger K-3663SCN	9-19	32.4	1.5	49.7	--	--	--	--
Morsoy 3570	9-15	33.6	1.8	49.6	--	--	--	--
Stine 3870-0	9-20	28.0	1.5	49.4	33.4	--	41.4	--
LG Seeds LGC 3663N	9-20	38.3	1.6	49.3	--	--	--	--
NK Brand S38-T8	9-19	37.1	1.7	49.2	--	--	--	--
Kruger K-3555	9-15	35.7	1.7	48.8	38.4*	--	43.6	--
Kruger K-3913SCN	9-22	34.0	1.7	48.6	36.3	--	42.5	--
Kruger K-3777SCN	9-19	35.5	1.1	48.5	36.3	--	42.4	--
NC 7 3A87	9-21	30.6	1.5	48.4	30.7	--	39.6	--
Excel 7311ST	9-13	28.8	1.4	48.2	--	--	--	--
Kruger K-3636SCN	9-21	33.0	1.8	48.1	35.6	--	41.9	--
Renze 3651cn	9-20	35.5	1.4	47.5	--	--	--	--
Kruger K-3333+SCN	9-15	38.9	1.8	47.3	--	--	--	--
NK Brand S32-Z3	9-11	31.2	1.1	47.0	--	--	--	--
U.S. Seeds US E371#	9-20	37.3	1.3	46.9	--	--	--	--
Vigoro V362SCN	9-20	31.1	1.7	46.2	--	--	--	--
U.S. Seeds US S350	9-12	33.7	1.2	45.5	--	--	--	--
Midland 9B370N	9-19	35.0	1.4	45.5	41.2**	--	43.4	--
Morsoy 3386	9-16	33.9	1.2	45.4	34.5	--	40.0	--
Kruger K-3939+	9-19	31.3	1.3	45.2	31.3	--	38.3	--
Crow's C 37003N	9-19	33.7	1.2	45.0	--	--	--	--
Garst D398	9-22	31.7	2.1	44.5	29.7	--	37.1	--
Reeds Brand 330 STS	9-22	36.0	1.7	44.4	32.9	--	38.7	--
Fontanelle 9885	9-20	29.0	1.6	44.2	--	--	--	--
Reeds Brand 390	9-22	35.7	1.2	44.1	33.3	--	38.7	--
Morsoy 3709N	9-20	34.8	1.0	42.5	--	--	--	--
Maverick	9-19	41.3	2.3	41.2	35.5	--	38.4	--
Golden Harvest H-1383	9-18	29.8	1.4	40.9	--	--	--	--
Kruger K-3888 SCN/STS	9-20	40.0	1.5	39.1	--	--	--	--
GROUP 3 AVERAGE	9-18	34.4	1.5	47.7	34.7	--	41.2	--
L.S.D. AT .10	2	3.5	0.5	5.4	4.7			
C.V. %	0.5	7.4		8.3	10.2			

TABLE 3. Continued

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date ¹	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
NK Brand S42-H1	9-20	41.3	1.8	50.3**	--	--	--	--
Reeds Brand 444	9-22	42.6	1.8	48.6*	38.5	--	43.6	--
U.S. Seeds US E421 [#]	9-20	36.8	1.7	46.7	--	--	--	--
Morsoy 4067 SCN	9-20	42.4	1.5	45.1	--	--	--	--
Reeds Brand 445	9-23	43.7	1.7	42.0	35.2	--	38.6	--
Kruger K-4214SCN	9-21	45.5	2.0	41.3	--	--	--	--
GROUP 4 AVERAGE	9-21	42.0	1.8	45.7	35.9	--	40.8	--
L.S.D. AT .10	2	1.8	0.6	3.1	2.9			
C.V. %	0.4	3.2		5.2	5.8			
TRIAL AVERAGE		35.4	1.5	47.5	35.0		41.2	

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

TABLE 4. Performance of Soybean Varieties evaluated near Osborn (DeKalb County) on the Gene Millard Farm during 1998-2000.

Planted: 11 May 2000
 Harvested: 2 October 2000
 Planted Population: 156,800
 Row Spacing: 30 inches
 Soil Type: Grundy Silt Loam
 Soil Test: pH=6.7, OM=2.7%, P=80, K=331

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron, Frontier, Lexone
 Post: Blazer Ultra, Fusion
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1400 Eggs/250cc of soil

Growing Season Rainfall: May=4.1, June=7.2, July=4.8, Aug.=2.5, Sept.=4.4 TOTAL=23.0 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Garst D398	9-15	41.2	1.1	60.9**	53.2	60.9*	57.1	58.3
Kruger K-3424 +	9-11	38.5	1.6	59.0*	54.0*	--	56.5	--
Golden Harvest H-1383	9-14	40.9	1.7	57.5*	--	55.0	--	--
Pioneer variety 93B66	9-11	41.5	1.6	56.8*	--	--	--	--
Pioneer variety 93B82	9-15	42.6	2.4	56.4*	57.9**	59.3*	57.2	57.9
Kruger K-3717 +	9-13	40.6	2.0	55.0*	--	--	--	--
Stine 3870-0	9-16	40.5	1.7	54.9*	51.5	61.5*	53.2	56.0
NC+ 3A87	9-15	39.1	1.0	54.8*	47.4	--	51.1	--
Kruger K-3303	9-11	39.5	1.5	54.6	--	--	--	--
Fontanelle 9885	9-16	39.4	1.3	54.3	--	--	--	--
Kruger K-3333 +	9-13	41.0	2.3	54.3	56.7*	52.4	55.5	54.5
Morsoy 3570	9-13	39.7	2.4	54.3	--	--	--	--
Kruger K-3939 +	9-15	38.9	2.0	54.2	55.5*	60.3*	54.9	56.7
Kruger K-3231	9-13	42.7	2.3	54.1	--	--	--	--
Morsoy 3386	9-12	39.6	1.7	52.8	54.7*	51.7	53.8	53.1
NK Brand S32-Z3	9-08	37.3	1.7	52.3	--	--	--	--
U.S. Seeds US S350	9-10	42.4	2.0	51.9	--	--	--	--
Kruger K-3555	9-13	37.6	1.9	51.8	53.5*	--	52.7	--
Kruger K-3636SCN	9-14	39.4	2.1	51.3	54.3*	--	52.8	--
NK Brand S38-T8	9-16	46.3	2.7	50.5	--	--	--	--
LG Seeds LGC 3663N	9-15	45.3	2.0	50.2	--	--	--	--
Kruger K-3333+SCN	9-12	43.3	2.5	49.5	--	--	--	--
Kruger K-3663SCN	9-14	41.6	1.7	49.3	--	--	--	--
Lewis 375	9-15	44.0	2.0	49.0	--	--	--	--
Kruger K-3777SCN	9-16	44.3	1.0	48.9	53.7*	--	51.3	--
Vigoro V362SCN	9-15	36.0	1.4	48.7	--	--	--	--
Kruger K-3555SCN	9-08	39.7	2.9	48.4	--	--	--	--
Crow's C 37003N	9-16	45.5	1.0	48.0	--	--	--	--
U.S. Seeds US E371#	9-14	44.4	1.3	47.4	--	--	--	--
Excel 7311ST	9-09	32.8	1.4	46.4	--	--	--	--
Midland 9B370N	9-15	44.8	2.1	46.3	52.8	--	49.6	--
Kruger K-3888 SCN/STS	9-15	47.0	2.7	46.1	--	--	--	--
Morsoy 3709N	9-16	44.4	1.0	46.0	--	--	--	--
Reeds Brand 390	9-18	42.2	1.7	45.7	50.5	60.7*	48.1	52.3
Maverick	9-15	48.3	2.9	45.6	48.5	57.0*	47.1	50.4
Renze 3651cn	9-15	45.2	1.7	45.4	--	--	--	--
Kruger K-3913SCN	9-18	42.9	3.0	45.2	54.3*	--	49.8	--
Kruger K-3515SCN	9-09	39.0	1.9	44.7	53.1	--	48.9	--
Reeds Brand 330 STS	9-15	46.5	2.0	41.1	48.2	59.2*	44.7	49.5
GROUP 3 AVERAGE	9-14	41.7	1.9	50.9	52.6	57.7	51.8	53.7
L.S.D. AT .10	2	3.8	0.7	6.2	4.6	7.5		
C.V. %	0.6	6.6		8.9	6.4	9.4		

TABLE 4. Continued

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
U.S. Seeds US E421 [#]	9-16	44.3	2.0	52.1**	--	--	--	--
NK Brand S42-H1	9-16	44.9	1.8	51.8*	--	--	--	--
Kruger K-4214SCN	9-19	50.0	2.8	50.4*	--	--	--	--
Morsoy 4067 SCN	9-17	47.8	2.3	47.1*	--	61.1*	--	--
Reeds Brand 445	9-20	49.1	2.7	45.4	47.7	63.8**	46.6	52.3
Reeds Brand 444	9-18	46.0	2.7	44.8	49.2*	--	47.0	--
GROUP 4 AVERAGE	9-18	47.0	2.4	48.6	48.6	60.2	48.6	52.5
L.S.D. AT .10	1	3.4	0.6	5.8	4.7	3.6		
C.V. %	0.4	5.2		9.0	7.1	4.3		
TRIAL AVERAGE		42.4	1.9	50.6	51.6	58.1	51.1	53.4

[#] Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

TABLE 5. Performance of Soybean Varieties evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1998-2000.

Planted: 12 May 2000
 Harvested: 28 Sept., 3 Oct. 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.4, OM=2.9%, K=53, P=334

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Steel
 Post: Storm, Poast
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 280 Eggs/250cc of soil

Growing Season Rainfall: May=1.9, June=7.4, July=1.7, Aug.=4.5, Sept.=3.6 TOTAL=19.1 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Kruger K-3424+	9-15	33.7	2.2	58.1**	22.3	--	40.2	--
Golden Harvest H-1383	9-17	40.7	1.6	55.4*	--	31.7	--	--
Kruger K-3515SCN	9-12	37.0	1.5	55.2*	26.5*	--	40.9	--
Kruger K-3939+	9-17	42.7	1.1	55.1*	24.8*	32.7	40.0	37.5
U.S. Seeds US S350	9-14	41.3	2.7	54.8*	--	--	--	--
Kruger K-3303	9-15	35.7	2.2	54.6*	--	--	--	--
Kruger K-3333+	9-15	41.7	3.0	54.5*	21.4	33.3*	38.0	36.4
Renze 3651cn	9-16	44.0	1.0	54.2*	--	--	--	--
Pioneer variety 93B66	9-14	41.7	1.2	54.1*	--	--	--	--
Kruger K-3555	9-15	39.3	3.0	53.7*	26.5*	--	40.1	--
Fontanelle 9885	9-18	38.7	1.1	53.7*	--	--	--	--
Kruger K-3663SCN	9-17	37.7	1.0	53.5*	--	--	--	--
Excel 7311ST	9-12	36.0	1.0	53.1*	--	--	--	--
Midland 9B370N	9-16	45.0	1.0	53.0*	26.8*	--	39.9	--
NK Brand S38-T8	9-16	44.0	1.6	52.9*	--	--	--	--
Kruger K-3777SCN	9-15	43.3	1.0	52.8*	28.0**	--	40.4	--
Morsoy 3570	9-14	39.7	2.3	52.7*	--	--	--	--
Kruger K-3913SCN	9-18	43.7	2.3	52.3	25.7*	--	39.0	--
NK Brand S32-Z3	9-14	35.0	2.1	52.2	--	--	--	--
Lewis 375	9-17	45.3	1.7	52.1	--	--	--	--
NC+ 3A87	9-16	41.3	1.3	52.0	26.1*	--	39.1	--
Kruger K-3555SCN	9-12	40.0	3.7	51.9	--	--	--	--
Morsoy 3386	9-15	37.0	1.5	51.9	25.6*	26.5	38.8	34.7
Kruger K-3636SCN	9-17	38.3	2.0	51.8	25.6*	--	38.7	--
Kruger K-3717+	9-17	40.3	1.7	51.8	--	--	--	--
Crow's C 37003N	9-15	43.7	1.0	51.7	--	--	--	--
Pioneer variety 93B82	9-16	39.0	1.7	51.5	27.1*	29.9	39.3	36.2
U.S. Seeds US E3717	9-16	43.3	1.2	51.2	--	--	--	--
Morsoy 3709N	9-15	44.3	1.0	50.9	--	--	--	--
Kruger K-3231	9-15	37.7	2.0	50.8	--	--	--	--
Garst D398	9-18	41.3	1.3	50.8	24.7*	29.9	37.8	35.1
Stine 3870-0	9-17	38.3	1.0	50.8	25.2*	31.6	38.0	35.9
Kruger K-3888 SCN/STS	9-15	47.0	1.9	50.4	--	--	--	--
LG Seeds LGC 3663N	9-16	44.0	1.9	49.7	--	--	--	--
Maverick	9-16	49.7	3.2	49.7	26.0*	32.9	37.9	36.2
Kruger K-3333+SCN	9-15	42.7	1.6	49.0	--	--	--	--
Reeds Brand 390	9-18	40.0	1.9	48.5	26.0*	31.1	37.3	35.2
Reeds Brand 330 STS	9-17	44.0	2.2	47.2	25.4*	32.8	36.3	35.1
Vigoro V362SCN	9-16	35.3	1.2	45.8	--	--	--	--
GROUP 3 AVERAGE	9-16	40.8	1.7	52.2	25.3	32.0	38.8	36.5
L.S.D. AT .10	1	2.8	0.9	4.6	3.4	4.8		
C.V. %	0.4	4.9		6.5	9.7	11.0		

TABLE 5. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
U.S. Seeds US E421 [#]	9-17	39.7	1.0	54.1**	--	--	--	--
Kruger K-4214SCN	9-18	44.2	1.7	54.0*	--	--	--	--
NK Brand S42-H1	9-17	41.7	1.3	53.4*	--	--	--	--
Morsoy 4067 SCN	9-17	43.5	1.0	49.8*	--	40.6*	--	--
Reeds Brand 444	9-19	41.8	2.1	47.2	24.0	--	35.6	--
Reeds Brand 445	9-19	47.0	1.7	47.0	23.5	40.7*	35.3	37.1
GROUP 4 AVERAGE	9-18	43.0	1.5	50.9	24.9	37.9	37.9	37.9
L.S.D. AT .10	1	3.0	0.4	3.7	2.5	5.7		
C.V. %	0.1	5.1		5.6	7.3	10.8		
TRIAL AVERAGE		41.1	1.7	52.0	25.2	32.9	38.6	36.7

[#] Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

TABLE 6. Performance of Soybean Varieties evaluated near LaGrange (Lewis County) on the Roger Tieman Farm during 2000 and the John Schaffer Farm during 1999.

Planted: 8 May 2000
 Harvested: 9 October 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Westerville Silt Loam
 Soil Test: pH=5.7, OM=3.2%, P=100, K=537

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Storm, Poast
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 700 Eggs/250cc of soil

Growing Season Rainfall: May=1.8, June=7.2, July=4.2, Aug.=3.8, Sept.=2.4 TOTAL=19.4 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Kruger K-3555	9-13	38.1	2.0	57.7**	55.8	--	56.8	--
NK Brand S32-Z3	9-12	36.6	1.0	57.3*	--	--	--	--
Kruger K-3663SCN	9-14	41.2	1.3	56.9*	--	--	--	--
Pioneer variety 93B82	9-14	41.5	2.3	56.9*	59.6*	--	58.3	--
Kruger K-3717+	9-14	39.3	2.3	55.5*	--	--	--	--
LG Seeds LGC 3663N	9-13	46.4	2.0	55.3*	--	--	--	--
Kruger K-3515SCN	9-13	39.2	2.0	54.8*	56.3	--	55.6	--
Kruger K-3913SCN	9-16	42.8	2.0	54.7*	53.4	--	54.1	--
Kruger K-3333+	9-12	42.3	1.0	54.3*	57.7	--	56.0	--
Fontanelle 9885	9-14	37.7	1.3	54.2*	--	--	--	--
U.S. Seeds US S350	9-11	39.2	1.7	53.9*	--	--	--	--
Kruger K-3636SCN	9-14	41.0	1.7	53.7*	55.5	--	54.6	--
Maverick	9-15	50.9	2.3	53.2	55.4	--	54.3	--
Kruger K-3231	9-12	41.0	1.3	53.1	--	--	--	--
Midland 9B370N	9-14	44.3	1.3	53.0	57.5	--	55.3	--
Kruger K-3303	9-12	37.8	1.3	52.9	--	--	--	--
Kruger K-3777SCN	9-14	42.4	1.3	52.8	58.4	--	55.6	--
U.S. Seeds US E371#	9-14	42.8	1.7	52.6	--	--	--	--
Golden Harvest H-1383	9-14	37.0	1.3	52.5	--	--	--	--
Kruger K-3555SCN	9-11	41.6	2.0	52.3	--	--	--	--
NK Brand S38-T8	9-14	43.1	1.0	52.2	--	--	--	--
Kruger K-3939+	9-14	36.4	1.3	51.7	59.2*	--	55.5	--
Morsoy 3570	9-14	40.7	1.7	51.6	--	--	--	--
Vigoro V362SCN	9-15	38.9	1.7	51.5	--	--	--	--
Renze 3651cn	9-13	43.2	1.0	50.0	--	--	--	--
Morsoy 3386	9-13	37.6	1.7	49.6	56.2	--	52.9	--
Kruger K-3333+SCN	9-11	44.7	2.0	49.1	--	--	--	--
Lewis 375	9-12	44.1	1.7	49.0	--	--	--	--
Kruger K-3888 SCN/STS	9-14	45.5	2.0	48.8	--	--	--	--
Reeds Brand 390	9-15	45.2	2.0	48.7	54.2	--	51.5	--
Stine 3870-0	9-14	39.5	1.0	48.5	60.8*	--	54.7	--
Excel 7311ST	9-10	34.8	1.7	48.3	--	--	--	--
Morsoy 3709N	9-14	41.9	1.0	47.9	--	--	--	--
Kruger K-3424+	9-12	40.0	1.3	47.5	55.2	--	51.4	--
Garst D398	9-14	38.8	1.7	46.8	62.8**	--	54.8	--
NC+ 3A87	9-14	36.7	1.7	46.4	58.1	--	52.3	--
Pioneer variety 93B66	9-12	38.2	1.0	46.0	--	--	--	--
Reeds Brand 330 STS	9-13	45.0	1.7	45.0	51.8	--	48.4	--
Crow's C 37003N	9-14	42.4	1.0	44.3	--	--	--	--
GROUP 3 AVERAGE	9-13	41.0	1.6	51.6	57.0	--	54.3	--
L.S.D. AT .10	1	3.8	0.7	4.4	3.8			
C.V. %	0.3	6.7		6.1	4.9			

TABLE 6. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Reeds Brand 444	9-18	46.7	1.3	60.1**	55.7*	--	57.9	--
NK Brand S42-H1	9-15	45.1	1.0	55.6	--	--	--	--
U.S. Seeds US E421#	9-14	40.9	1.7	53.9	--	--	--	--
Reeds Brand 445	9-17	49.6	2.0	52.1	54.0	--	53.1	--
Morsoy 4067 SCN	9-15	45.8	1.7	50.6	--	--	--	--
Kruger K-4214SCN	9-16	45.9	1.7	44.4	--	--	--	--
GROUP 4 AVERAGE	9-16	45.7	1.6	52.8	54.4	--	53.6	--
L.S.D. AT .10	1	2.7	0.5	3.9	3.5	--	--	--
C.V. %	0.2	4.4		5.7	4.7			
TRIAL AVERAGE		41.6	1.6	51.7	56.3		54.0	

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

TABLE 7. Yield Summary for Soybean Varieties evaluated at five Northern Missouri Locations (Corning, Albany, Osborn, Novelty, and LaGrange) during 2000.

<p><u>Corning</u> Planted: 9,10 May 2000 Harvested: 9,10 October 2000 Growing Season Rainfall: 18.7"</p>	<p><u>Albany</u> Planted: 16 May 2000 Harvested: 9,12 October 2000 Growing Season Rainfall: 15.8"</p>	<p><u>Osborn</u> Planted: 11 May 2000 Harvested: 2 October 2000 Growing Season Rainfall: 23.0"</p>
<p><u>Novelty</u> Planted: 12 May 2000 Harvested: 28 Sept., 3 Oct. 2000 Growing Season Rainfall: 19.1"</p>	<p><u>LaGrange</u> Planted: 8 May 2000 Harvested: 9 October 2000 Growing Season Rainfall: 19.4"</p>	

	Yield (Bu/Acre)					
Brand-Variety	Corning	Albany	Osborn	Novelty	LaGrange	Mean

MATURITY GROUP 3

Pioneer variety 93B82	52.7*	53.3*	56.4*	51.5	56.9*	54.2**
Kruger K-3424+	48.4*	55.9**	59.0*	58.1**	47.5	53.8*
Kruger K-3303	46.8*	53.9*	54.6	54.6*	52.9	52.6*
Kruger K-3717+	48.9*	50.5*	55.0*	51.8	55.5*	52.3*
Kruger K-3333+	45.5*	52.0*	54.3	54.5*	54.3*	52.1*
Kruger K-3555	46.2*	48.8	51.8	53.7*	57.7**	51.6*
Fontanelle 9885	51.7*	44.2	54.3	53.7*	54.2*	51.6*
NK Brand S32-Z3	49.2*	47.0	52.3	52.2	57.3*	51.6*
Kruger K-3231	49.0*	50.6*	54.1	50.8	53.1	51.5*
U.S. Seeds US S350	49.7*	45.5	51.9	54.8*	53.9*	51.2*
Kruger K-3939+	49.1*	45.2	54.2	55.1*	51.7	51.0
Morsoy 3570	46.8*	49.6	54.3	52.7	51.6	51.0
Pioneer variety 93B66	45.1	52.9*	56.8*	54.1*	46.0	51.0
Stine 3870-0	48.9*	49.4	54.9*	50.8	48.5	50.5
Kruger K-3663SCN	42.9	49.7	49.3	53.5*	56.9*	50.5
Golden Harvest H-1383	45.9*	40.9	57.5*	55.4*	52.5	50.4
Garst D398	48.5*	44.5	60.9**	50.8	46.8	50.3
Kruger K-3515SCN	46.8*	49.9	44.7	55.2*	54.8*	50.3
Kruger K-3555SCN	48.8*	49.7	48.4	51.9	52.3	50.2
NC + 3A87	48.9*	48.4	54.8*	52.0	46.4	50.1
LG Seeds LGC 3663N	44.2	49.3	50.2	49.7	55.3*	49.7
Kruger K-3636SCN	42.7	48.1	51.3	51.8	53.7*	49.5
NK Brand S38-T8	42.3	49.2	50.5	52.9	52.2	49.4
Lewis 375	43.9	53.1*	49.0	52.1	49.0	49.4
Kruger K-3913SCN	44.8	48.6	45.2	52.3	54.7*	49.1
Morsoy 3386	44.4	45.4	52.8	51.9	49.6	48.8
Kruger K-3777SCN	40.5	48.5	48.9	52.8	52.8	48.7
U.S. Seeds US E371#	43.8	46.9	47.4	51.2	52.6	48.4
Reeds Brand 390	54.3**	44.1	45.7	48.5	48.7	48.2
Excel 7311ST	44.9	48.2	46.4	53.1	48.3	48.2
Renze 3651cn	41.7	47.5	45.4	54.2*	50.0	47.8
Midland 9B370N	39.1	45.5	46.3	53.0	53.0	47.4
Kruger K-3333+SCN	40.6	47.3	49.5	49.0	49.1	47.1
Maverick	44.6	41.2	45.6	49.7	53.2	46.8
Vigoro V362SCN	38.4	46.2	48.7	45.8	51.5	46.1
Morsoy 3709N	42.1	42.5	46.0	50.9	47.9	45.9
Crow's C 37003N	37.9	45.0	48.0	51.7	44.3	45.4
Kruger K-3888 SCN/STS	40.7	39.1	46.1	50.4	48.8	45.0
Reeds Brand 330 STS	43.2	44.4	41.1	47.2	45.0	44.2
GROUP 3 AVERAGE	45.5	47.7	50.9	52.2	51.6	49.6
L.S.D. AT .10	8.8	5.4	6.2	4.6	4.4	3.1
C.V.%	12.0	8.3	8.9	6.5	6.1	10.3

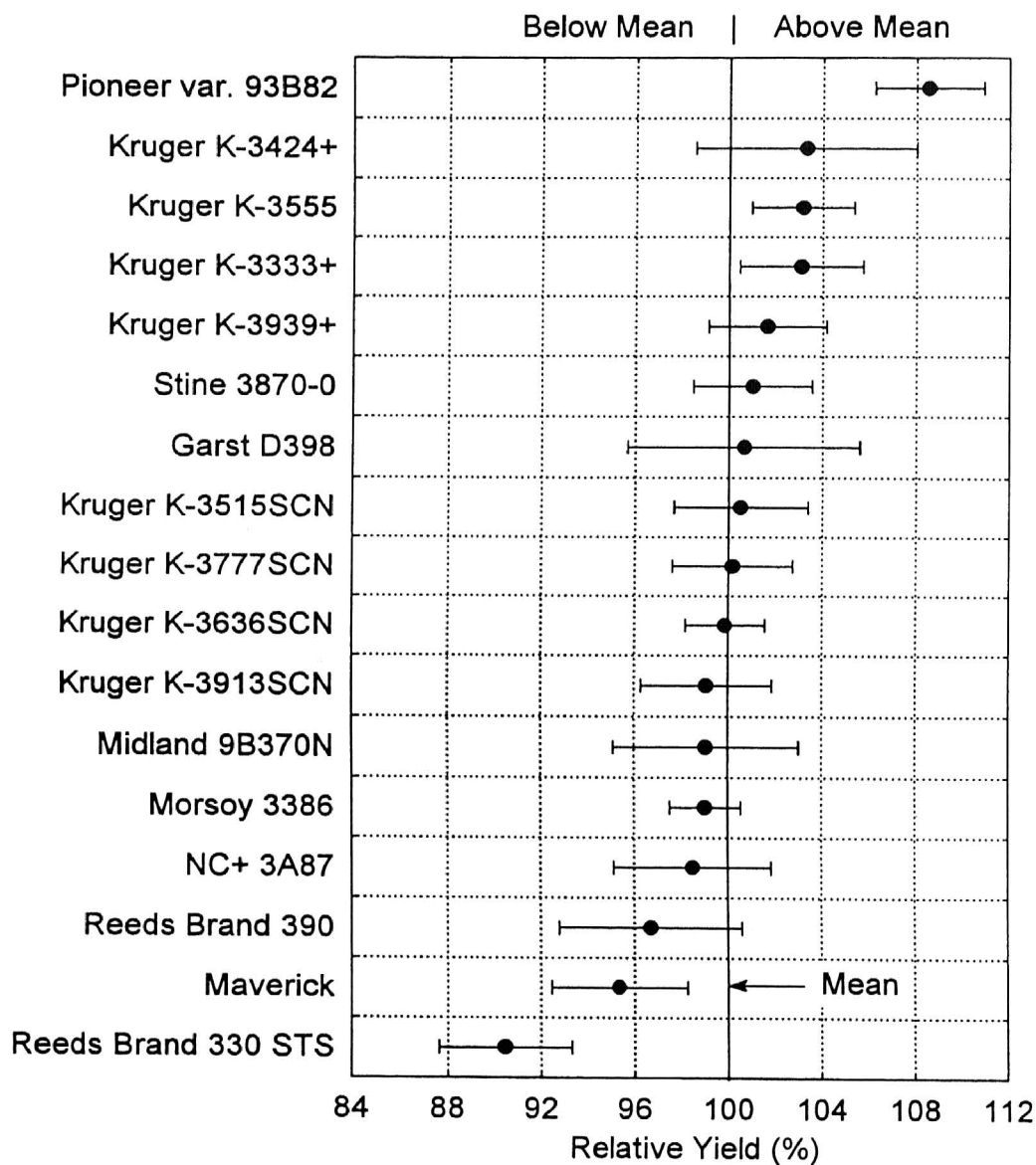
TABLE 7. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Corning	Albany	Osborn	Novelty	LaGrange	
MATURITY GROUP 4						
NK Brand S42-H1	42.3	50.3**	51.8*	53.4*	55.6	50.7**
U.S. Seeds US E421#	44.4	46.7	52.1**	54.1**	53.9	50.2*
Reeds Brand 444	45.1**	48.6*	44.8	47.2	60.1**	49.2*
Kruger K-4214SCN	44.5	41.3	50.4*	54.0*	44.4	46.9
Morsoy 4067 SCN	38.4	45.1	47.1*	49.8	50.6	46.2
Reeds Brand 445	42.8	42.0	45.4	47.0	52.1	45.8
GROUP 4 AVERAGE	42.9	45.7	48.6	50.9	52.8	48.2
L.S.D. AT .10	NS	3.1	5.8	3.7	3.9	2.7
C.V.%	14.9	5.2	9.0	5.6	5.7	9.3
TRIAL AVERAGE	45.2	47.5	50.6	52.0	51.7	49.4

Experimental variety.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

Figure 1. Graphic Summary of Two-year (99/2000) Results of Soybean Varieties at Five North Missouri Locations.

MG III



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 8. Performance of Soybean Varieties evaluated near Henrietta (Ray County) on the John Williams Farm during 2000 and near Garden City (Cass County) on the Bill Cook Farm during 1998-99.

Planted: 2 May 2000
 Harvested: 18 September 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Landers Silt Loam
 Soil Test: pH=6.8, OM=1.8%, P=24, K=351

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Roundup
 Post: Galaxy, Blazer Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 420 Eggs/250cc of soil
 Growing Season Rainfall: May=2.7, June=8.0, July=2.6, Aug. =5.6, Sept. =3.4 TOTAL=22.3 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Pioneer variety 93B66	9-09	45.9	2.3	49.3**	--	--	--	--
Garst D398	9-14	48.7	1.7	41.9*	41.7	43.4*	41.8	42.3
U.S. Seeds US E371#	9-11	50.7	2.0	40.6	--	--	--	--
Midland 9B370N	9-12	51.3	2.7	39.2	43.7*	--	41.5	--
Lewis 372	9-12	50.3	2.0	38.6	44.9**	--	41.8	--
NK Brand S38-T8	9-11	52.9	2.0	38.6	--	--	--	--
Maverick	9-13	51.5	4.0	38.4	38.3	37.0	38.4	37.9
Pioneer variety 93B82	9-13	47.6	2.7	38.3	40.4	40.2	39.4	39.6
Dyna-Gro 3395	9-14	48.0	2.0	38.3	39.4	34.6	38.9	37.4
Morsoy 3386	9-08	48.7	1.7	36.0	--	--	--	--
U.S. Seeds US S350	9-09	44.1	1.7	35.3	--	--	--	--
Reeds Brand 330 STS	9-12	52.5	2.7	30.8	35.0	32.1	32.9	32.6
GROUP 3 AVERAGE	9-12	49.4	2.3	38.8	39.6	35.9	39.2	38.1
L.S.D. AT .10	2	2.8	1.3	8.3	3.1	4.8		
C.V. %	0.5	4.1		15.0	5.7	9.8		
MATURITY GROUP 4								
Midland 9A420N	9-15	47.0	2.1	49.6**	--	--	--	--
LG Seeds LGC 4344N	9-15	49.0	1.6	48.6**	--	--	--	--
Garst D445N	9-14	44.3	2.1	46.1*	--	--	--	--
Golden Harvest H-4249	9-15	43.7	2.1	46.0*	--	--	--	--
NC+ 4N26	9-15	43.7	2.4	46.0*	--	--	--	--
Gateway 427	9-14	45.7	2.4	43.1	--	--	--	--
U.S. Seeds US E421#	9-13	47.3	1.1	43.1	--	--	--	--
Lewis 414	9-13	52.0	1.8	42.0	--	--	--	--
Dyna-Gro UAPX 337	9-17	51.7	2.8	40.9	--	--	--	--
Pioneer variety 94B53	9-15	50.0	2.2	39.9	--	--	--	--
NK Brand S42-H1	9-14	46.3	2.2	39.7	--	--	--	--
MPride/MPV 440STS	9-17	46.7	3.1	39.4	--	--	--	--
Morsoy 4477 SCN	9-15	50.0	1.6	39.2	--	42.6*	--	--
MPride/MPV 430NSTS	9-15	51.7	2.8	39.2	--	--	--	--
Morsoy 4067 SCN	9-14	48.7	2.1	38.0	--	39.1	--	--
U.S. Seeds US E471#	9-18	51.7	2.1	37.4	--	--	--	--
Reeds Brand 445	9-18	52.3	1.8	36.9	39.2	39.8	38.1	38.6
Dyna-Gro DG-3402 STS	9-12	46.7	1.6	35.3	40.4	--	37.9	--
Gateway 471	9-17	56.3	2.0	29.7	--	--	--	--
GROUP 4 AVERAGE	9-15	48.7	2.1	41.0	41.0	37.3	41.0	39.8
L.S.D. AT .10	1	5.2	0.8	5.0	2.3	3.8		
C.V. %	0.3	7.7		9.0	4.2	7.5		
TRIAL AVERAGE		48.9	2.2	40.2	40.1	36.6	40.1	39.0

Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

TABLE 9. Performance of Soybean Varieties evaluated near Grand Pass (Saline County) on the Ryland Utlaut Farm during 1998-2000.

Planted: 11 May 2000
 Harvested: 10 October 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Haynie Silt Loam
 Soil Test: pH=5.8, OM= 2.7%, P=35, K=696

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Scepter
 Post: Blazer Ultra, Basagran, Select
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 560 Eggs/250cc of soil
 Growing Season Rainfall: May=4.2, June=6.4, July=3.2, Aug.=4.2, Sept.=1.9 TOTAL=19.9 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Morsoy 3386	9-13	43.3	2.9	57.6**	--	--	--	--
Pioneer variety 93B82	9-15	38.5	3.4	53.8*	55.3**	54.0*	54.6	54.4
Pioneer variety 93B66	9-14	42.4	2.9	53.5	--	--	--	--
U.S. Seeds US S350	9-12	38.5	3.4	51.8	--	--	--	--
Garst D398	9-16	42.5	2.6	49.6	47.4	54.6*	48.5	50.5
Dyna-Gro 3395	9-16	46.0	2.9	48.8	48.9	55.4*	48.9	51.0
Reeds Brand 330 STS	9-16	45.6	3.3	47.6	41.1	50.3	44.4	46.3
Maverick	9-16	45.5	4.3	45.1	44.1	50.3	44.6	46.5
NK Brand S38-T8	9-15	47.1	3.7	44.8	--	--	--	--
U.S. Seeds US E371#	9-15	48.3	3.0	38.9	--	--	--	--
Lewis 372	9-16	49.2	3.2	36.8	41.4	--	39.1	--
Midland 9B370N	9-15	50.0	3.2	36.6	45.5	--	41.1	--
GROUP 3 AVERAGE	9-15	44.7	3.2	47.1	45.2	51.5	46.2	47.9
L.S.D. AT .10	1	2.8	NS	3.9	3.5	3.9		
C.V. %	0.3	4.6		6.0	5.7	5.5		
MATURITY GROUP 4								
Golden Harvest H-4249	9-24	45.0	2.4	54.0**	--	--	--	--
Garst D445N	9-23	45.7	2.4	53.1*	--	--	--	--
NC+ 4N26	9-23	43.7	1.6	52.9*	--	--	--	--
Midland 9A420N	9-23	46.3	1.3	52.1*	--	--	--	--
LG Seeds LGC 4344N	9-24	49.0	1.1	49.5	--	--	--	--
Dyna-Gro DG-3402 STS	9-21	45.3	1.9	48.1	42.8	--	45.5	--
MPride/MPV 440STS	9-23	45.0	3.7	47.8	--	--	--	--
NK Brand S42-H1	9-22	50.0	1.8	45.8	--	--	--	--
Pioneer variety 94B53	9-21	48.3	2.9	43.8	--	--	--	--
Lewis 414	9-22	48.3	1.5	43.7	--	--	--	--
Gateway 427	9-22	43.7	2.7	43.1	--	--	--	--
U.S. Seeds US E421#	9-22	46.0	2.3	42.8	--	--	--	--
Dyna-Gro UAPX 337	9-25	48.7	2.8	41.5	--	--	--	--
Reeds Brand 445	9-25	48.7	3.4	41.1	42.3	49.3	41.7	44.2
Morsoy 4477 SCN	9-22	47.7	1.5	40.1	--	52.0*	--	--
Gateway 471	9-26	49.0	2.8	36.6	--	--	--	--
MPride/MPV 430NSTS	9-22	43.0	3.1	36.6	--	--	--	--
Morsoy 4067 SCN	9-21	49.3	2.6	36.5	--	44.3	--	--
U.S. Seeds US E471#	9-27	52.0	2.9	34.6	--	--	--	--
GROUP 4 AVERAGE	9-23	47.1	2.4	44.4	42.7	49.5	43.6	45.5
L.S.D. AT .10	2	3.0	1.0	3.6	4.7	3.8		
C.V. %	0.5	4.7		5.9	8.4	6.0		
TRIAL AVERAGE								
		46.2	2.7	45.5	44.3	50.5	44.9	46.7

Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 10. Performance of Soybean Varieties evaluated near Columbia (Boone County) on the Agronomy Research Center 1998-2000.

Planted: 5 May 2000
 Harvested: 28 Sept., 3 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.7, OM=2.5%, P=66, K=323

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Lasso, Scepter
 Post: Basagran, Blazer Ultra, Poast+
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 500 Eggs/250cc of soil
 Growing Season Rainfall: May=5.0, June=7.8, July=4.8, Aug.=12.1, Sept.=2.6 TOTAL=32.3 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Maverick	9-15	44.7	3.1	64.7**	36.0	56.1*	50.4	52.3
NK Brand S38-T8	9-15	39.9	1.3	63.0	--	--	--	--
U.S. Seeds US S350	9-11	35.0	3.2	62.9	--	--	--	--
Pioneer variety 93B82	9-15	34.8	2.3	61.8	41.5	53.9	51.7	52.4
U.S. Seeds US E371 [#]	9-16	36.9	1.0	61.8	--	--	--	--
Lewis 372	9-15	37.7	1.0	58.9	45.0*	--	52.0	--
Morsoy 3386	9-10	32.1	2.0	58.5	--	--	--	--
Midland 9B370N	9-15	35.1	1.0	58.5	45.5*	--	52.0	--
Dyna-Gro 3395	9-15	32.7	1.2	57.3	36.6	54.7*	47.0	49.5
Pioneer variety 93B66	9-09	30.1	1.2	56.9	--	--	--	--
Reeds Brand 330 STS	9-20	36.5	1.4	55.6	36.4	47.4	46.0	46.5
Garst D398	9-14	30.5	1.3	50.4	38.4	53.3	44.4	47.4
GROUP 3 AVERAGE	9-14	35.5	1.7	59.2	39.2	51.1	49.2	49.8
L.S.D. AT .10	2	4.5	0.8	NS	3.7	3.3		
C.V. %	0.6	9.4		10.6	7.0	4.6		
MATURITY GROUP 4								
LG Seeds LGC 4344N	9-17	42.7	1.6	53.6**	--	--	--	--
Dyna-Gro UAPX 337	9-19	42.3	2.8	53.3	--	--	--	--
Morsoy 4067 SCN	9-16	41.8	2.8	50.1	--	57.3*	--	--
Garst D445N	9-14	39.2	1.4	50.0	--	--	--	--
Gateway 471	9-19	42.5	2.9	49.9	--	--	--	--
Golden Harvest H-4249	9-16	34.0	1.2	49.8	--	--	--	--
NK Brand S42-H1	9-16	40.0	1.2	49.2	--	--	--	--
Pioneer variety 94B53	9-16	40.2	3.0	49.0	--	--	--	--
Reeds Brand 445	9-21	40.4	3.4	47.1	23.8	43.0	35.5	38.0
MPride/MPV 430NSTS	9-17	39.3	3.0	47.1	--	--	--	--
Midland 9A420N	9-15	39.9	1.3	46.5	--	--	--	--
NC+ 4N26	9-16	37.9	2.0	45.9	--	--	--	--
U.S. Seeds US E421 [#]	9-14	38.0	2.1	45.7	--	--	--	--
Morsoy 4477 SCN	9-16	38.7	1.7	44.9	--	54.7	--	--
MPride/MPV 440STS	9-19	44.2	3.3	44.8	--	--	--	--
Gateway 427	9-15	37.3	3.2	44.0	--	--	--	--
Lewis 414	9-12	39.8	1.1	43.7	--	--	--	--
U.S. Seeds US E471 [#]	9-21	43.5	3.0	42.7	--	--	--	--
Dyna-Gro DG-3402 STS	9-16	40.4	3.0	40.6	27.6*	--	34.1	--
GROUP 4 AVERAGE	9-16	40.1	2.3	47.2	25.4	48.6	36.3	40.4
L.S.D. AT .10	1	2.6	0.9	NS	4.1	3.2		
C.V. %	0.4	4.8		14.4	12.3	4.8		
TRIAL AVERAGE		38.3	2.1	51.9	34.2	49.9	43.1	45.3

Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 11. Performance of Soybean Varieties evaluated near Truxton (Montgomery County) on the Roy Cope Farm during 1998-2000.

Planted: 3 May 2000
 Harvested: 3 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.9, OM=2.5%, P=60, K=182

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Extreme, Authority
 Post: None
 Irrigation: None
 Previous Crop: Corn
 Tillage: No-Till

Cyst Nematode Population at Planting: 280 Eggs/250cc of soil

Growing Season Rainfall: May=3.9, June=8.4, July=5.0, Aug.=10.1, Sept.=2.0 TOTAL=29.4 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.

MATURITY GROUP 3								
NK Brand S38-T8	9-12	42.6	2.2	62.8**	--	--	--	--
Lewis 372	9-14	44.1	2.2	57.8*	30.5*	--	44.2	--
U.S. Seeds US E371#	9-14	42.9	2.4	57.8*	--	--	--	--
Midland 9B370N	9-13	42.8	1.8	56.4*	30.9**	--	43.7	--
Maverick	9-14	44.8	3.2	55.4	25.5	48.0	40.5	43.0
Pioneer variety 93B82	9-12	35.6	3.8	52.4	29.8*	54.1*	41.1	45.4
U.S. Seeds US S350	9-07	38.3	3.3	51.8	--	--	--	--
Pioneer variety 93B66	9-07	37.1	2.4	49.6	--	--	--	--
Garst D398	9-14	30.8	3.1	47.1	26.5	49.7	36.8	41.1
Dyna-Gro 3395	9-14	33.3	2.2	46.6	24.3	48.2	35.5	39.7
Reeds Brand 330 STS	9-13	41.4	2.4	45.8	25.6	51.3*	35.7	40.9
Morsoy 3386	9-09	40.8	2.8	45.7	--	--	--	--
GROUP 3 AVERAGE	9-12	39.5	2.6	52.4	26.8	49.5	39.6	42.9
L.S.D. AT .10	1	4.0	0.7	7.1	2.8	5.5		
C.V. %	0.4	7.4		10.1	7.4	8.1		
MATURITY GROUP 4								
Pioneer variety 94B53	9-15	43.7	3.0	59.5**	--	--	--	--
Morsoy 4067 SCN	9-14	44.3	2.0	58.7*	--	50.3*	--	--
NK Brand S42-H1	9-13	40.8	1.7	58.3*	--	--	--	--
Gateway 471	9-16	42.6	2.7	57.9*	--	--	--	--
Morsoy 4477 SCN	9-15	39.0	2.0	57.4*	--	52.0**	--	--
U.S. Seeds US E421#	9-12	38.4	1.3	56.4*	--	--	--	--
Lewis 414	9-13	40.1	2.3	55.2*	--	--	--	--
LG Seeds LGC 4344N	9-14	43.1	2.0	54.3*	--	--	--	--
U.S. Seeds US E471#	9-16	42.5	2.3	53.2	--	--	--	--
Gateway 427	9-13	39.4	2.3	53.1	--	--	--	--
NC+ 4N26	9-14	35.9	2.7	50.6	--	--	--	--
Dyna-Gro UAPX 337	9-16	40.1	2.7	50.1	--	--	--	--
Reeds Brand 445	9-16	42.1	2.3	49.1	24.2	40.3	36.7	37.9
Garst D445N	9-13	38.9	3.3	48.7	--	--	--	--
Midland 9A420N	9-14	36.2	2.0	46.4	--	--	--	--
MPride/MPV 430NSTS	9-15	39.7	3.0	45.0	--	--	--	--
Dyna-Gro DG-3402 STS	9-14	38.7	3.0	43.7	27.1*	--	35.4	--
Golden Harvest H-4249	9-13	35.3	2.7	39.9	--	--	--	--
MPride/MPV 440STS	9-15	37.8	2.0	25.0	--	--	--	--
GROUP 4 AVERAGE	9-14	39.9	2.4	50.6	26.7	44.9	38.7	40.7
L.S.D. AT .10	1	4.2	0.7	6.0	3.8	5.9		
C.V. %	0.2	7.6		8.6	11.0	9.7		
TRIAL AVERAGE		39.8	2.5	51.3	26.7	47.3	39.0	41.8

Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

TABLE 12. Performance of Soybean Varieties evaluated near Annada (Pike County) on the Bob Burkemper Farm during 1998-2000.

Planted: 4 May 2000
 Harvested: 9 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Tice Silt Loam
 Soil Test: pH=5.2, OM=2.2%, P=109, K=317

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Scepter
 Post: Galaxy, Fusion, Blazer Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 0 Eggs/250cc of soil
 Growing Season Rainfall: May=4.0, June=8.4, July=5.6, Aug.=4.0, Sept.=2.6 TOTAL=24.6 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Garst D398	9-12	47.0	5.0	61.8**	44.0*	60.4*	52.9	55.4
Lewis 372	9-13	49.7	4.7	60.7*	43.3*	--	52.0	--
Maverick	9-12	49.7	4.9	60.1*	37.9	54.8	49.0	50.9
Midland 9B370N	9-12	50.7	4.7	57.7*	44.3*	--	51.0	--
Dyna-Gro 3395	9-13	43.0	5.0	56.6*	43.1*	60.2*	49.9	53.3
Pioneer variety 93B82	9-11	43.3	5.0	56.5*	46.9*	59.2*	51.7	54.2
U.S. Seeds US E371#	9-12	51.3	4.7	54.8*	--	--	--	--
NK Brand S38-T8	9-12	48.7	4.9	54.7*	--	--	--	--
Morsoy 3386	9-07	46.0	5.0	52.2	--	--	--	--
Pioneer variety 93B66	9-07	43.0	5.0	50.7	--	--	--	--
U.S. Seeds US S350	9-08	39.7	4.9	50.6	--	--	--	--
Reeds Brand 330 STS	9-11	45.3	5.0	40.7	42.2	53.4	41.5	45.4
GROUP 3 AVERAGE	9-11	46.4	4.9	54.8	44.1	54.9	49.5	51.3
L.S.D. AT .10	2	4.9	0.2	8.9	4.8	5.1		
C.V. %	0.4	7.6		12.0	7.9	6.8		
MATURITY GROUP 4								
Morsoy 4477 SCN	9-16	47.6	4.9	63.1**	--	61.9**	--	--
Gateway 471	9-16	48.3	5.0	60.1*	--	--	--	--
U.S. Seeds US E421#	9-14	47.9	5.0	60.0*	--	--	--	--
NK Brand S42-H1	9-15	48.0	5.0	59.4*	--	--	--	--
Garst D445N	9-12	46.7	4.9	59.1*	--	--	--	--
Lewis 414	9-14	44.7	5.0	58.6*	--	--	--	--
U.S. Seeds US E471#	9-17	49.7	4.9	58.4*	--	--	--	--
Dyna-Gro UAPX 337	9-15	50.7	5.0	58.3*	--	--	--	--
Pioneer variety 94B53	9-15	46.8	4.9	58.2*	--	--	--	--
Midland 9A420N	9-13	47.1	4.9	57.5*	--	--	--	--
MPride/MPV 440STS	9-16	47.8	5.0	57.4*	--	--	--	--
Dyna-Gro DG-3402 STS	9-13	44.6	5.0	56.9*	43.6*	--	50.3	--
NC+ 4N26	9-13	47.4	4.7	56.0*	--	--	--	--
Morsoy 4067 SCN	9-13	49.6	4.8	55.6	--	58.5*	--	--
Golden Harvest H-4249	9-12	42.5	4.9	53.3	--	--	--	--
Reeds Brand 445	9-16	47.2	4.9	53.0	35.2	52.1	44.1	46.8
MPride/MPV 430NSTS	9-16	45.4	4.9	53.0	--	--	--	--
Gateway 427	9-17	45.5	4.9	51.9	--	--	--	--
LG Seeds LGC 4344N	9-14	45.9	5.0	50.1	--	--	--	--
GROUP 4 AVERAGE	9-14	47.0	4.9	56.8	39.1	52.6	48.0	49.5
L.S.D. AT .10	2	3.2	NS	7.2	2.6	5.9		
C.V. %	0.6	5.0		9.4	5.0	8.3		
TRIAL AVERAGE		46.8	4.9	56.0	42.3	53.8	49.2	50.7

Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 13. Performance Summary for Soybeans evaluated at Five Central Locations (Henrietta, Grand Pass, Columbia, Truxton and Annada) during 2000.

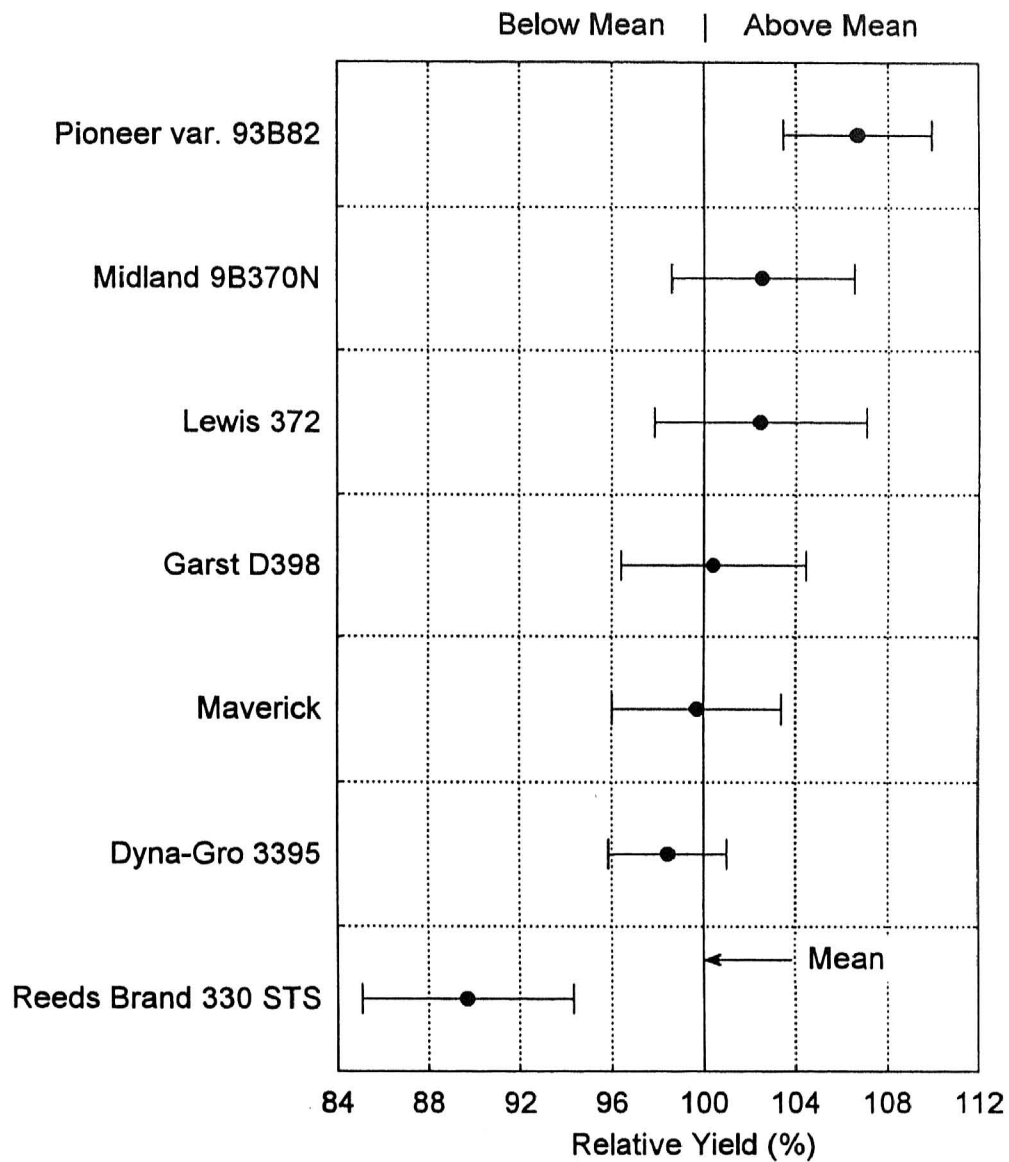
Henrietta Planted: 2 May 2000 Harvested: 18 September 2000 Growing Season Rainfall: 22.3"	Grand Pass Planted: 11 May 2000 Harvested: 10 October 2000 Growing Season Rainfall: 19.9"	Columbia Planted: 5 May 2000 Harvested: 28 Sept., 3 Oct. 2000 Growing Season Rainfall: 32.3"
Truxton Planted: 3 May 2000 Harvested: 3 October Growing Season Rainfall: 29.4"	Annada Planted: 4 May 2000 Harvested: 9 October 2000 Growing Season Rainfall: 24.6"	

Brand-Variety	Yield (Bu/Acre)					
	Henrietta	Grand Pass	Columbia	Truxton	Annada	Mean
MATURITY GROUP 3						
NK Brand S38-T8	38.6	44.8	63.0	62.8**	54.7*	52.8**
Maverick	38.4	45.1	64.7**	55.4	60.1*	52.7*
Pioneer variety 93B82	38.3	53.8*	61.8	52.4	56.5*	52.6*
Pioneer variety 93B66	49.3**	53.5	56.9	49.6	50.7	52.0*
U.S. Seeds US E371#	40.6	38.9	61.8	57.8*	54.8*	50.8*
Lewis 372	38.6	36.8	58.9	57.8*	60.7*	50.6*
U.S. Seeds US S350	35.3	51.8	62.9	51.8	50.6	50.5*
Garst D398	41.9*	49.6	50.4	47.1	61.8**	50.2*
Morsoy 3386	36.0	57.6**	58.5	45.7	52.2	50.0*
Midland 9B370N	39.2	36.6	58.5	56.4*	57.7*	49.7*
Dyna-Gro 3395	38.3	48.8	57.3	46.6	56.6*	49.5*
Reeds Brand 330 STS	30.8	47.6	55.6	45.8	40.7	44.1
GROUP 3 AVERAGE	38.8	47.1	59.2	52.4	54.8	50.5
L.S.D. AT .10	8.3	3.9	NS	7.1	8.9	3.3
C.V.%	15.0	6.0	10.6	10.1	12.0	11.0
MATURITY GROUP 4						
Garst D445N	46.1*	53.1*	50.0	48.7	59.1*	51.4**
LG Seeds LGC 4344N	48.6*	49.5	53.6**	54.3*	50.1	51.2*
NK Brand S42-H1	39.7	45.8	49.2	58.3*	59.4*	50.5*
Midland 9A420N	49.6**	52.1*	46.5	46.4	57.5*	50.4*
NC+ 4N26	46.0*	52.9*	45.9	50.6	56.0*	50.3*
Pioneer variety 94B53	39.9	43.8	49.0	59.5**	58.2*	50.1*
U.S. Seeds US E421#	43.1	42.8	45.7	56.4*	60.0*	49.6*
Morsoy 4477 SCN	39.2	40.1	44.9	57.4*	63.1**	48.9*
Dyna-Gro UAPX 337	40.9	41.5	53.3	50.1	58.3*	48.8*
Lewis 414	42.0	43.7	43.7	55.2*	58.6*	48.6*
Golden Harvest H-4249	46.0*	54.0**	49.8	39.9	53.3	48.6*
Morsoy 4067 SCN	38.0	36.5	50.1	58.7*	55.6	47.8
Gateway 427	43.1	43.1	44.0	53.1	51.9	47.0
Gateway 471	29.7	36.6	49.9	57.9*	60.1*	46.8
Reeds Brand 445	36.9	41.1	47.1	49.1	53.0	45.4
U.S. Seeds US E471#	37.4	34.6	42.7	53.2	58.4*	45.3
Dyna-Gro DG-3402 STS	35.3	48.1	40.6	43.7	56.9*	44.9
MPride/MPV 430NSTS	39.2	36.6	47.1	45.0	53.0	44.2
MPride/MPV 440STS	39.4	47.8	44.8	25.0	57.4*	42.9
GROUP 4 AVERAGE	41.0	44.4	47.2	50.6	56.8	48.0
L.S.D. AT .10	5.0	3.6	NS	6.0	7.2	3.0
C.V.%	9.0	5.9	14.4	8.6	9.4	10.2
TRIAL AVERAGE	40.2	45.5	51.9	51.3	56.0	49.0

Experimental variety.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

Figure 2. Graphic Summary of Two-year (99/2000) Results of Soybean Varieties at Five Central Missouri Locations.

MG III



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 14. Performance of Soybean Varieties evaluated near Garden City (Cass County) on the Bill Cook Farm during 2000 and near Archie on the Tom Kurzweil Farm during 1999.

Planted: 2 May 2000
 Harvested: 22 Sept., 10 Oct. 2000
 Planted Population: 156,800 Seed/A
 Row Spacing: 30 inches
 Soil Type: Haig Silt Loam
 Soil Test: pH=5.4, OM=2.8%, P=50, K=397

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Reflex, Select
 Irrigation: None
 Previous Crop: Soybean
 Tillage: Conventional

Cyst Nematode Population at Planting: 1680 Eggs/250cc of soil
 Growing Season Rainfall: May=3.9, June=7.0, July=2.6, Aug.=1.1, Sept.=3.4 TOTAL=18.0 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Delta King DPMS 4001 [#]	9-02	32.3	2.0	32.1**	--	--	--	--
Pioneer variety 93B82	8-29	32.7	1.0	31.5*	--	--	--	--
Delta King DPMS 3701 ^{###}	9-01	36.0	1.0	30.6*	--	--	--	--
U.S. Seeds US E371 ^{###}	8-31	34.0	1.0	30.4*	--	--	--	--
Dyna-Gro UAPX 337	9-03	38.3	1.3	29.9*	--	--	--	--
U.S. Seeds US E421 [#]	9-02	31.0	1.0	29.9*	--	--	--	--
NK Brand S42-H1	9-02	34.3	1.6	28.7*	--	--	--	--
Midland 8421	9-04	33.3	1.0	27.1	44.5	--	35.8	--
Dyna-Gro DG-3402 STS	9-03	36.7	1.0	26.4	45.5	--	36.0	--
Midland 9A420N	9-01	32.7	1.0	25.6	--	--	--	--
Morsoy 4477 SCN	9-05	33.0	1.0	25.0	--	--	--	--
Dyna-Gro 3395 ^{##}	8-30	30.7	1.0	24.1	--	--	--	--
Pioneer variety 94B53	9-03	38.0	1.3	23.9	--	--	--	--
Garst D445N	9-02	30.0	1.0	23.6	49.2*	--	36.4	--
Stine 4702-2	9-07	36.7	1.0	22.2	47.9*	--	35.1	--
Morsoy 4426 SCN	9-07	30.0	1.0	21.9	--	--	--	--
Morsoy 4719N	9-07	37.3	1.0	19.0	--	--	--	--
U.S. Seeds US E471 [#]	9-06	40.7	1.3	17.4	--	--	--	--
Delta King XTJ0784 [#]	9-06	38.3	1.0	16.7	--	--	--	--
Delta King 4711	9-06	40.0	1.3	15.3	--	--	--	--
Stine 4790	9-08	32.7	1.0	13.5	--	--	--	--
GROUP 4 AVERAGE	9-03	34.7	1.1	24.5	43.8	--	34.2	--
L.S.D. AT .10	1	2.9	0.3	4.0	4.3	--	--	--
C.V. %	0.4	6.1	--	11.6	7.2	--	--	--
MATURITY GROUP 5								
Croplan Gen. XST52 [#]	9-19	48.8	2.3	14.3**	--	--	--	--
Anand	9-19	33.5	1.0	12.9	47.0	--	30.0	--
Delsoy 5500	9-23	38.4	1.0	12.6	48.2	--	30.4	--
Hutcheson	9-23	40.9	2.3	12.2	48.5**	--	30.4	--
Delta King 5995	9-25	42.5	2.0	11.7	--	--	--	--
GROUP 5 AVERAGE	9-22	40.8	1.7	12.7	47.9	--	30.3	--
L.S.D. AT .10	1	2.2	0.6	NS	NS	--	--	--
C.V. %	0.2	3.9	--	15.2	7.5	--	--	--
TRIAL AVERAGE		35.9	1.2	22.3	44.7		33.5	

Maturity group III soybean variety entered in the maturity group IV test.
 # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 15. Performance of Soybean Varieties evaluated near Butler (Bates County) on the Dale Bettles Farm during 1998-2000.

Planted: 3 May 2000
 Harvested: 13 Sept., 10 Oct. 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Kenoma Silt Loam
 Soil Test: pH=6.8, OM=4.2%, P=91, K=396
 Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Storm, Poast, Galaxy
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1400 Eggs/250cc of soil

Growing Season Rainfall: May=4.0, June=8.9, July=2.2, Aug.=0.6, Sept.=1.6 TOTAL=17.3 in

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Pioneer variety 93B82	8-31	30.2	1.0	36.0**	--	--	--	--
U.S. Seeds US E371 ^{#,##}	8-31	30.2	1.0	30.9	--	--	--	--
Midland 9A420N	9-02	29.6	1.0	30.1	--	--	--	--
Delta King DPMS 4001 [#]	9-01	33.2	1.0	30.1	--	--	--	--
Midland 8421	9-02	32.2	1.0	29.9	33.3*	32.3*	31.6	31.8
NK Brand S42-H1	9-01	28.5	1.0	28.1	--	--	--	--
Delta King DPMS 3701 ^{#,##}	9-01	30.4	1.0	28.1	--	--	--	--
Garst D445N	9-02	26.9	1.0	26.8	34.0*	--	30.4	--
U.S. Seeds US E421 [#]	9-01	27.3	1.0	25.9	--	--	--	--
Pioneer variety 94B53	9-01	32.2	1.0	25.9	--	--	--	--
Morsoy 4477 SCN	9-02	29.0	1.0	25.3	--	28.8*	--	--
Dyna-Gro DG-3402 STS	9-02	30.0	1.0	24.9	32.9*	--	28.9	--
Dyna-Gro 3395 ^{##}	8-31	27.2	1.0	24.8	--	26.8	--	--
Dyna-Gro UAPX 337	9-02	32.3	1.0	24.7	--	--	--	--
Morsoy 4719N	9-03	33.1	1.0	23.9	--	--	--	--
Morsoy 4426 SCN	9-03	28.3	1.0	23.3	--	30.2*	--	--
Delta King XTJ0784 [#]	9-04	32.0	1.0	22.5	--	--	--	--
U.S. Seeds US E471 [#]	9-05	33.3	1.0	21.8	--	--	--	--
Stine 4702-2	9-04	31.1	1.0	21.2	33.2*	--	27.2	--
Delta King 4711	9-03	31.3	1.0	19.6	--	--	--	--
Stine 4790	9-03	29.9	1.0	10.4	--	23.7	--	--
GROUP 4 AVERAGE	9-02	30.4	1.0	25.4	32.8	27.1	29.1	28.4
L.S.D. AT .10	1	3.1	NS	4.7	3.8	5.8		
C.V. %	0.4	7.3		13.9	8.6	15.6		
MATURITY GROUP 5								
Croplan Gen. XST52 [#]	9-14	42.3	1.0	13.1**	--	--	--	--
Anand	9-16	30.7	1.0	12.4*	26.4	21.4	19.4	20.1
Delsoy 5500	9-17	32.7	1.0	10.3	32.0*	25.5*	21.2	22.6
Hutcheson	9-16	33.7	1.0	9.7	36.2**	25.2*	23.0	23.7
Delta King 5995	9-17	39.0	1.0	7.2	--	--	--	--
GROUP 5 AVERAGE	9-16	35.7	1.0	10.5	31.5	24.8	21.0	22.3
L.S.D. AT .10	1	2.0	NS	2.0	5.0	3.4		
C.V. %	0.3	4.1		14.8	9.3	10.1		
TRIAL AVERAGE								
		31.4	1.0	22.6	32.9	26.8	27.8	27.4

Maturity group III soybean variety entered in the maturity group IV test.
 # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 16. Performance of Soybean Varieties evaluated near Urich (Henry County) on the Kurt Gretzinger Farm during 1999-2000.

Planted: 2 May 2000
 Harvested: 21 Sept., 10 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Hartwell Silt Loam
 Soil Test: pH=5.7, OM=3.8%, P=30, K=309

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Select
 Irrigation: None
 Previous Crop: Grain Sorghum
 Tillage: Conventional

Cyst Nematode Population at Planting: 2660 Eggs/250cc of soil

Growing Season Rainfall: May=6.0, June=7.4, July=3.2, Aug.=0.9, Sept.=3.9 TOTAL=21.4 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Pioneer variety 93B82	9-01	35.9	2.3	48.0**	--	--	--	--
Dyna-Gro DG-3402 STS	9-04	37.5	2.0	46.1*	42.2*	--	44.2	--
Delta King DPMS 3701 ^{###}	9-03	37.5	1.0	44.3*	--	--	--	--
U.S. Seeds US E421 [#]	9-03	34.4	1.3	44.0*	--	--	--	--
Dyna-Gro UAPX 337	9-05	41.3	2.3	43.5*	--	--	--	--
Midland 8421	9-04	38.1	3.0	43.0*	42.1*	--	42.6	--
Dyna-Gro 3395 ^{##}	9-03	33.0	1.3	42.5*	--	--	--	--
Garst D445N	9-03	33.9	1.0	41.8	43.9**	--	42.9	--
U.S. Seeds US E371 ^{###}	9-02	37.3	1.0	41.3	--	--	--	--
Midland 9A420N	9-03	34.9	1.0	41.0	--	--	--	--
Delta King DPMS 4001 [#]	9-03	38.6	3.7	39.7	--	--	--	--
Pioneer variety 94B53	9-04	38.6	3.7	38.8	--	--	--	--
NK Brand S42-H1	9-03	36.8	1.3	38.8	--	--	--	--
Morsoy 4426 SCN	9-05	33.6	1.0	38.1	--	--	--	--
Morsoy 4477 SCN	9-04	36.6	1.7	37.2	--	--	--	--
Delta King 4711	9-06	42.3	2.7	36.0	--	--	--	--
U.S. Seeds US E471 [#]	9-06	40.5	2.7	35.2	--	--	--	--
Morsoy 4719N	9-06	40.6	2.7	33.8	--	--	--	--
Stine 4702-2	9-05	41.4	2.3	32.9	43.6*	--	38.3	--
Delta King XTJ0784 [#]	9-05	42.0	2.3	32.0	--	--	--	--
Stine 4790	9-05	39.8	1.7	29.3	--	--	--	--
GROUP 4 AVERAGE	9-04	37.8	2.0	39.4	41.1	--	40.3	--
L.S.D. AT .10	1	2.3	0.7	5.9	2.0			
C.V. %	0.3	4.5		11.2	3.5			
MATURITY GROUP 5								
Croplan Gen. XST52 [#]	9-21	50.0	3.2	16.8**	--	--	--	--
Delsoy 5500	9-25	40.3	1.7	16.7*	41.3	--	29.0	--
Hutcheson	9-24	40.7	2.6	16.3*	49.7**	--	33.0	--
Anand	9-22	36.7	1.3	16.0*	39.6	--	27.8	--
Delta King 5995	9-26	42.7	3.1	13.2	--	--	--	--
GROUP 5 AVERAGE	9-24	42.1	2.4	15.8	43.5	--	29.7	--
L.S.D. AT .10	1	3.4	0.7	1.9	2.7			
C.V. %	0.2	6.0		8.5	3.8			
TRIAL AVERAGE		38.7	2.1	34.8	41.2		38.0	

^{##} Maturity group III soybean variety entered in the maturity group IV test.
[#] Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

TABLE 17. Performance of Soybean Varieties evaluated near Nevada (Vernon County) on the Steve Cabbage Farm during 1998-2000.

Planted: 3 May 2000
 Harvested: 20 Sept., 9 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=6.4, OM=2.5%, P=70, K=333

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: FronTier, Scepter, Lexone
 Post: Storm, Poast
 Irrigation: 3.75 inches
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1260 Eggs/250cc of soil

Growing Season Rainfall: May=2.6, June=8.0, July=3.8, Aug.=0.2, Sept.=1.0 TOTAL=15.6 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Pioneer variety 93B82	9-03	36.9	2.6	45.9**	--	--	--	--
Delta King DPMS 3701 ^{##}	9-05	39.6	1.0	43.9*	--	--	--	--
Dyna-Gro DG-3402 STS	9-05	38.6	2.0	42.7*	50.4*	--	46.6	--
Delta King DPMS 4001 [#]	9-05	40.2	3.5	40.9	--	--	--	--
Dyna-Gro 3395 [#]	9-05	34.9	2.4	40.8	--	57.7*	--	--
U.S. Seeds US E371 ^{##}	9-04	39.7	1.3	40.5	--	--	--	--
Midland 9A420N	9-05	35.5	1.2	40.2	--	--	--	--
Garst D445N	9-05	36.2	1.3	39.7	52.6*	--	46.2	--
U.S. Seeds US E421 [#]	9-05	36.5	1.1	39.4	--	--	--	--
NK Brand S42-H1	9-06	38.1	1.4	38.6	--	--	--	--
Midland 8421	9-06	39.5	3.3	37.9	53.8*	57.7*	45.9	49.8
Morsoy 4477 SCN	9-08	38.5	1.1	37.7	--	57.3*	--	--
Morsoy 4426 SCN	9-08	35.6	1.0	37.5	--	53.9	--	--
Dyna-Gro UAPX 337	9-07	41.6	2.3	36.4	--	--	--	--
Morsoy 4719N	9-12	43.0	2.7	34.5	--	--	--	--
Stine 4702-2	9-11	42.4	2.4	34.1	51.3*	--	42.7	--
Delta King XTJ0784 [#]	9-08	41.6	2.6	33.9	--	--	--	--
U.S. Seeds US E471 [#]	9-12	42.8	1.7	33.8	--	--	--	--
Pioneer variety 94B53	9-07	38.7	2.4	32.6	--	--	--	--
Delta King 4711	9-10	44.2	2.3	29.3	--	--	--	--
Stine 4790	9-09	39.4	1.7	26.2	--	48.7	--	--
GROUP 4 AVERAGE	9-07	39.2	2.0	37.4	50.4	51.7	43.9	46.5
L.S.D. AT .10	1	1.9	0.7	4.5	5.6	3.6		
C.V. %	0.4	3.6		9.0	8.4	5.1		
MATURITY GROUP 5								
Delta King 5995	9-29	41.0	3.6	21.9**	--	--	--	--
Delsoy 5500	9-24	35.3	1.8	20.2*	45.4	48.1*	32.8	37.9
Hutcheson	9-27	39.7	2.7	19.9*	42.0	47.0*	31.0	36.3
Anand	9-23	34.0	1.5	19.3*	48.3**	48.3*	33.8	38.6
Croplan Gen. XST52 [#]	9-20	51.3	3.1	14.9	--	--	--	--
GROUP 5 AVERAGE	9-25	40.3	2.5	19.2	45.2	47.3	32.2	37.2
L.S.D. AT .10	1	2.8	0.6	3.6	NS	3.9		
C.V. %	0.3	5.1		13.7	10.5	6.1		
TRIAL AVERAGE								
		39.4	2.1	33.9	48.6	51.1	41.2	44.5

Maturity group III soybean variety entered in the maturity group IV test.
 # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 18. Performance of Soybean Varieties evaluated near Lamar (Barton County) on the Wally Norton Farm during 1998-2000.

Planted: 4 May 2000
 Harvested: 19 Sept., 9 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=5.9, OM=1.7%, P=45, K=210

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Frontier, Scepter, Lexone
 Post: Fusion, Poast, Blazer Ultra
 Irrigation: None
 Previous Crop: Grain Sorghum
 Tillage: Conventional

Cyst Nematode Population at Planting: 140 Eggs/250cc of soil

Growing Season Rainfall: May=5.1, June=7.9, July=6.8, Aug.=0.0, Sept.=3.3 TOTAL=23.1 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
U.S. Seeds US E371 ^{##}	8-30	29.6	1.0	30.3**	--	--	--	--
Pioneer variety 93B82	8-29	30.2	1.0	28.5*	--	--	--	--
Midland 8421	9-02	34.0	2.7	28.4*	29.7	41.3*	29.1	33.1
Delta King DPMS 3701 ^{##}	8-31	30.8	1.0	28.0*	--	--	--	--
Delta King DPMS 4001 [#]	9-01	31.1	3.3	27.2*	--	--	--	--
Morsoy 4477 SCN	9-05	33.6	1.2	26.9*	--	42.8**	--	--
Midland 9A420N	9-02	27.5	1.0	25.8	--	--	--	--
U.S. Seeds US E421 [#]	9-04	28.6	1.0	25.3	--	--	--	--
NK Brand S42-H1	9-02	28.7	1.3	24.1	--	--	--	--
Garst D445N	9-02	27.6	1.1	23.7	29.4	--	26.6	--
Dyna-Gro 3395 ^{##}	8-30	26.6	1.1	23.6	--	38.0	--	--
Dyna-Gro UAPX 337	9-03	31.7	1.0	23.6	--	--	--	--
Morsoy 4426 SCN	9-06	28.3	1.0	22.8	--	40.0*	--	--
Stine 4702-2	9-08	35.8	1.7	22.4	32.3**	--	27.4	--
Morsoy 4719N	9-07	33.3	1.7	22.0	--	--	--	--
Pioneer variety 94B53	9-02	28.7	1.7	21.9	--	--	--	--
Dyna-Gro DG-3402 STS	9-03	30.7	1.1	21.7	27.4	--	24.6	--
Delta King XTJ0784 [#]	9-07	35.8	1.7	20.8	--	--	--	--
U.S. Seeds US E471 [#]	9-07	34.1	1.4	19.7	--	--	--	--
Delta King 4711	9-06	36.4	1.9	18.8	--	--	--	--
Stine 4790	9-07	32.5	2.0	15.5	--	32.3	--	--
GROUP 4 AVERAGE	9-03	31.2	1.5	23.8	28.0	36.5	25.9	29.4
L.S.D. AT .10	2	3.5	0.5	4.3	NS	3.7		
C.V. %	0.5	8.3		13.6	11.6	7.5		
MATURITY GROUP 5								
Delta King 5995	9-27	40.3	2.3	23.2**	--	--	--	--
Delsoy 5500	9-26	37.7	1.0	21.7*	26.8	30.8*	24.3	26.4
Croplan Gen. XST52 [#]	9-18	52.3	1.9	20.9	--	--	--	--
Hutcheson	9-26	32.3	1.0	19.7	26.9**	34.3**	23.3	27.0
Anand	9-19	31.7	1.1	19.4	26.9**	29.9	23.2	25.4
GROUP 5 AVERAGE	9-23	38.9	1.5	21.0	26.9	31.6	24.0	26.5
L.S.D. AT .10	1	5.3	0.6	2.0	NS	3.7		
C.V. %	0.4	10.3		6.6	4.9	8.4		
TRIAL AVERAGE		32.7	1.5	23.3	27.8	35.8	25.6	29.0

Maturity group III soybean variety entered in the maturity group IV test.
 # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 19. Yield Summary for Soybean Varieties evaluated at five Southwest Missouri locations (Garden City, Butler, Ulrich, Nevada, and Lamar) during 2000.

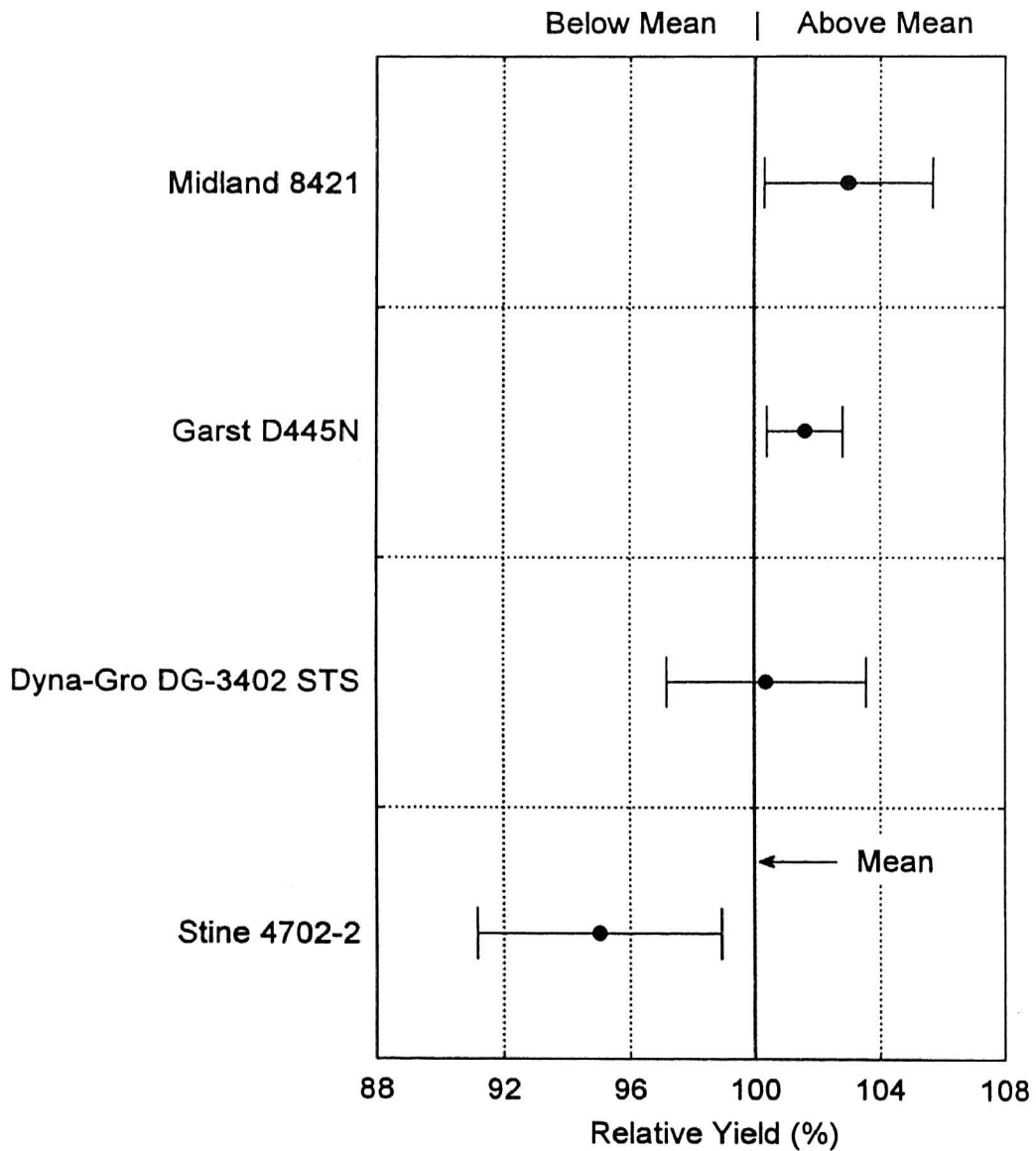
Garden City Planted: 2 May 2000 Harvested: 22 Sept., 10 Oct. 2000 Growing Season Rainfall: 18.0"	Butler Planted: 3 May 2000 Harvested: 13 Sept., 10 Oct. 2000 Growing Season Rainfall: 17.3"	Ulrich Planted: 2 May 2000 Harvested: 21 Sept., 10 Oct. 2000 Growing Season Rainfall: 21.4"
Nevada Planted: 3 May 2000 Harvested: 20 Sept., 9 Oct. 2000 Growing Season Rainfall: 15.6"	Lamar Planted: 4 May 2000 Harvested: 19 Sept., 9 Oct. 2000 Growing Season Rainfall: 23.1"	

Brand-Variety	Yield (Bu/Acre)					Mean
	Garden City	Butler	Ulrich	Nevada	Lamar	
MATURITY GROUP 4						
Pioneer variety 93B82	31.5*	36.0**	48.0**	45.9**	28.5*	38.0**
Delta King DPMS 3701 ^{#,##}	30.6*	28.1	44.3*	43.9*	28.0*	35.0
U.S. Seeds US E371 ^{#,##}	30.4*	30.9	41.3	40.5	30.3**	34.7
Delta King DPMS 4001 [#]	32.1**	30.1	39.7	40.9	27.2*	34.0
Midland 8421	27.1	29.9	43.0*	37.9	28.4*	33.3
U.S. Seeds US E421 [#]	29.9*	25.9	44.0*	39.4	25.3	32.9
Midland 9A420N	25.6	30.1	41.0	40.2	25.8	32.5
Dyna-Gro DG-3402 STS	26.4	24.9	46.1*	42.7*	21.7	32.4
NK Brand S42-H1	28.7*	28.1	38.8	38.6	24.1	31.6
Dyna-Gro UAPX 337	29.9*	24.7	43.5*	36.4	23.6	31.6
Dyna-Gro 3395 ^{##}	24.1	24.8	42.5*	40.8	23.6	31.2
Garst D445N	23.6	26.8	41.8	39.7	23.7	31.1
Morsoy 4477 SCN	25.0	25.3	37.2	37.7	26.9*	30.4
Morsoy 4426 SCN	21.9	23.3	38.1	37.5	22.8	28.7
Pioneer variety 94B53	23.9	25.9	38.8	32.6	21.9	28.6
Morsoy 4719N	19.0	23.9	33.8	34.5	22.0	26.6
Stine 4702-2	22.2	21.2	32.9	34.1	22.4	26.6
U.S. Seeds US E471 [#]	17.4	21.8	35.2	33.8	19.7	25.6
Delta King XTJ0784 [#]	16.7	22.5	32.0	33.9	20.8	25.2
Delta King 4711	15.3	19.6	36.0	29.3	18.8	23.8
Stine 4790	13.5	10.4	29.3	26.2	15.5	19.0
GROUP 4 AVERAGE	24.5	25.4	39.4	37.4	23.8	30.1
L.S.D. AT .10	4.0	4.7	5.9	4.5	4.3	2.1
C.V.%	11.6	13.9	11.2	9.0	13.6	11.4
MATURITY GROUP 5						
Delsoy 5500	12.6	10.3	16.7*	20.2*	21.7*	16.3**
Croplan Gen. XST52 [#]	14.3**	13.1**	16.8**	14.9	20.9	16.0
Anand	12.9	12.4*	16.0*	19.3*	19.4	16.0
Hutcheson	12.2	9.7	16.3*	19.9*	19.7	15.6
Delta King 5995	11.7	7.2	13.2	21.9**	23.2**	15.4
GROUP 5 AVERAGE	12.7	10.5	15.8	19.2	21.0	15.8
L.S.D. AT .10	NS	2.0	1.9	3.6	2.0	NS
C.V.%	15.2	14.8	8.5	13.7	6.6	12.6
TRIAL AVERAGE	22.3	22.6	34.8	33.9	23.3	27.4

Maturity group III soybean variety entered in the maturity group IV test.
 # Experimental variety.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

Figure 3. Graphic Summary of Two-year (99/2000) Results of Soybean Varieties at Five Southwest Missouri Locations.

MG IV



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 20. Performance of Soybean Varieties evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1998-2000.

Planted: 23 May 2000
 Harvested: 10 October 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Commerce Silt Loam
 Soil Test: pH=6.3, OM=1.6%, P=60, K=230

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Reflex, Blazer, Fusion
 Irrigation: 4.0 inches
 Previous Crop: Corn
 Tillage: Conventional

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

Growing Season Rainfall: May=4.3, June=3.7, July=2.3, Aug.=1.2, Sept.=2.5 TOTAL=14.0 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Deltapine DP 4748S	9-21	48.1	3.7	53.6**	--	--	--	--
Pioneer variety 9482	9-19	44.2	2.6	50.6*	62.8*	51.1*	56.7	54.8
Stine 4702-2	9-21	45.3	2.5	50.3*	65.1*	--	57.7	--
Delta King 4680	9-23	42.7	2.7	49.8*	--	--	--	--
Pioneer variety 94B53	9-17	45.2	3.9	48.2*	--	--	--	--
Stine 4790	9-19	41.6	3.4	47.0*	64.0*	53.9**	55.5	55.0
DeltaGrow 4740	9-19	46.5	2.4	44.2	--	--	--	--
Asgrow A4324	9-15	41.8	2.1	43.9	--	--	--	--
Golden Harvest X04755#	9-22	48.2	5.0	43.7	--	--	--	--
Hornbeck HBK 4891	9-20	45.0	5.0	43.5	61.2*	--	52.4	--
Gateway 471	9-22	47.7	4.0	43.4	--	--	--	--
Deltapine DP 4909	9-24	50.2	1.0	43.3	55.0	--	49.2	--
Delta King 4711	9-24	48.1	4.4	43.3	--	--	--	--
Dixie 4803RR®	9-22	44.7	3.9	42.3	--	--	--	--
Gateway 427	9-14	39.9	2.3	41.8	--	--	--	--
Morsoy 4719N	9-23	48.5	3.1	40.8	--	--	--	--
Dixie 478	9-18	50.9	3.3	36.9	56.3	47.7	46.6	47.0
FFR 514	9-21	48.0	4.0	35.9	46.7	--	41.3	--
Morsoy 4580	9-19	42.8	1.0	34.8	--	--	--	--
AgVenture AV1468N	9-15	41.8	3.3	34.2	--	--	--	--
Croplan Gen. 490	9-25	51.3	4.6	30.9	50.6	--	40.8	--
FFR HT 4985	9-24	43.1	4.4	30.0	49.0	--	39.5	--
Deltapine DP 3478	9-21	45.3	5.0	29.7	63.8*	49.5*	46.8	47.7
KSC-55	9-26	38.5	4.9	10.1	--	--	--	--
GROUP 4 AVERAGE	9-20	45.4	3.4	40.5	57.8	48.4	49.2	48.9
L.S.D. AT .10	3	4.1	1.4	7.1	6.4	5.3		
C.V. %	0.7	6.6		12.8	8.1	7.9		
MATURITY GROUP 5								
Morsoy 5080	9-24	50.8	2.9	55.7**	--	--	--	--
Anand	9-30	37.3	2.3	48.6*	65.3*	51.6*	57.0	55.2
Delsoy 5500	9-30	40.0	3.4	48.4*	58.2	54.2*	53.3	53.6
Golden Harvest H-1500	9-21	39.0	1.2	47.5	--	--	--	--
Asgrow A5959	10-04	39.8	3.2	45.2	59.2	--	52.2	--
AgVenture AV1520N	9-22	39.7	3.9	44.9	--	--	--	--
Delta King 5995	10-03	43.2	3.7	44.3	59.8	--	52.1	--
Caviness	10-01	40.8	3.8	42.9	--	--	--	--
Pioneer variety 95B33	9-30	37.8	2.2	41.0	--	54.6**	--	--
Morsoy 5108N	9-29	39.6	4.0	39.4	--	--	--	--
Hornbeck HBK 5991	10-03	43.4	3.7	38.7	55.3	--	47.0	--
NK Brand X 053R®#	9-28	40.3	4.4	38.5	--	--	--	--
S96-2692#	9-24	40.3	3.7	38.1	--	--	--	--
Delta King 5850	10-01	44.7	5.0	35.0	52.8	50.5	43.9	46.1
Hutcheson	9-27	38.2	2.1	33.9	59.6	48.2	46.8	47.2

TABLE 20. Continued.

Brand-Variety	1999			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1999	1998	1997	2 Yr.	3 Yr.
S94-1867#	10-01	49.7	4.6	33.9	--	--	--	--
Hornbeck HBK 5990	10-05	41.9	4.5	33.6	66.7**	52.4*	50.2	50.9
S96-2641#	10-01	39.6	3.3	32.6	--	--	--	--
S97-1688#	9-26	39.8	3.8	30.2	--	--	--	--
FFR 597	9-30	48.4	2.6	28.1	50.8	--	39.5	--
Croplan Gen. 520	9-24	48.7	2.6	27.2	57.3	--	42.3	--
Pioneer variety 9594	9-30	46.9	4.4	23.0	57.0	49.6	40.0	43.2
Soyola	10-07	55.2	3.3	21.4	--	--	--	--
S96-3418#	9-21	42.2	5.0	20.9	--	--	--	--
GROUP 5 AVERAGE	9-29	42.8	3.5	37.2	55.2	47.1	46.2	46.5
L.S.D. AT .10	3	4.5	1.1	7.6	6.3	3.5		
C.V. %	0.8	7.6		15.0	8.4	5.4		
TRIAL AVERAGE		44.1	3.5	38.9	56.5	47.8	47.7	47.7

- # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 @ Roundup ready variety.

TABLE 21. Performance of Soybean Varieties evaluated near Wyatt (Mississippi County) on the Elott Raffety Farm during 1999-2000.

Planted: 22 May 2000
 Harvested: 18 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Commerce Silt Loam
 Soil Test: pH=7.0, OM=2.6%, P=51, K=384

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Reflex, Fusion, Galaxy, Poast
 Irrigation: 3.0 Inches
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1260 Eggs/250cc of soil

Growing Season Rainfall: May=7.6, June=3.0, July=3.4, Aug.=2.8, Sept.=3.4 TOTAL=20.2 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Deltapine DP 4748S	9-21	47.7	3.7	47.6**	--	--	--	--
Gateway 427	9-18	41.3	1.7	47.6**	--	--	--	--
Gateway 471	9-25	41.3	2.7	47.0*	--	--	--	--
Asgrow A4324	9-20	38.0	2.3	46.2*	--	--	--	--
Pioneer variety 9482	9-19	44.7	3.0	43.3*	53.6	--	48.5	--
Pioneer variety 94B53	9-18	40.0	3.3	41.4*	--	--	--	--
Morsoy 4580	9-21	44.7	2.0	41.2*	--	--	--	--
Hornbeck HBK 4891	9-21	39.7	3.0	40.9*	58.2	--	49.6	--
Morsoy 4719N	9-23	45.7	3.7	39.7	--	--	--	--
Dixie 478	9-21	46.7	2.0	39.4	51.6	--	45.5	--
Stine 4702-2	9-21	45.7	3.3	39.2	62.8**	--	51.0	--
DeltaGrow 4740	9-20	41.3	3.0	39.1	--	--	--	--
Deltapine DP 4909	9-29	49.3	1.7	37.5	52.5	--	45.0	--
Deltapine DP 3478	9-22	45.3	3.3	36.8	51.4	--	44.1	--
Delta King 4680	9-21	40.3	2.3	35.6	--	--	--	--
FFR HT 4985	9-24	37.0	4.0	35.3	49.6	--	42.5	--
Delta King 4711	9-21	41.7	4.0	35.0	--	--	--	--
Dixie 4803RR®	9-22	40.0	3.7	34.1	--	--	--	--
FFR 514	9-22	40.3	4.0	33.7	45.0	--	39.4	--
AgVenture AV1468N	9-18	45.3	3.3	33.6	--	--	--	--
Golden Harvest X04755 ⁴	9-23	44.3	4.3	32.9	--	--	--	--
Stine 4790	9-22	41.3	4.7	28.4	58.2	--	43.3	--
Croplan Gen. 490	9-28	47.3	4.0	27.7	43.8	--	35.8	--
KSC-55	9-30	38.0	5.0	15.0	--	--	--	--
GROUP 4 AVERAGE	9-22	42.8	3.2	37.4	54.0	--	45.7	--
L.S.D. AT .10	2	4.9	1.7	7.0	3.8			
C.V. %	0.7	8.5		13.8	5.1			
MATURITY GROUP 5								
Asgrow A5959	10-04	39.3	3.0	41.0**	56.8*	--	48.9	--
Morsoy 5080	9-22	41.3	3.3	38.8*	--	--	--	--
Delta King 5850	9-29	38.7	4.0	37.9*	47.8	--	42.9	--
Pioneer variety 95B33	9-30	39.3	2.7	37.8*	--	--	--	--
Delta King 5995	10-03	41.3	4.3	37.1*	52.7	--	44.9	--
Golden Harvest H-1500	9-22	36.7	2.0	34.7*	--	--	--	--
S94-1867 ⁴	10-01	44.7	3.3	34.3*	--	--	--	--
NK Brand X 053R®	9-26	33.7	3.7	33.6	--	--	--	--
Pioneer variety 9594	10-05	41.7	2.7	33.2	53.9	--	43.6	--
Anand	9-29	34.3	2.3	33.2	58.3**	--	45.8	--
AgVenture AV1520N	9-26	35.3	3.3	32.3	--	--	--	--
Delsoy 5500	9-24	40.0	2.3	32.3	52.8	--	42.6	--
FFR 597	10-03	40.3	3.0	32.0	46.4	--	39.2	--
Morsoy 5108N	9-28	42.0	3.0	32.0	--	--	--	--
Hornbeck HBK 5990	10-07	43.7	2.7	31.0	54.8*	--	42.9	--

TABLE 21. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
S97-1688#	9-24	43.3	3.3	30.3	--	--	--	--
Caviness	9-30	37.3	5.0	28.4	--	--	--	--
S96-3418#	10-02	44.3	2.3	28.1	--	--	--	--
S96-2641#	9-30	38.3	3.7	27.9	--	--	--	--
Hornbeck HBK 5991	9-30	39.3	4.3	27.7	56.2*	--	42.0	--
S96-2692#	9-29	39.0	3.7	26.2	--	--	--	--
Soyola	10-09	42.3	4.7	25.9	--	--	--	--
Hutcheson	9-27	41.3	4.0	25.5	55.7*	--	40.6	--
Croplan Gen. 520	9-24	46.3	3.3	24.9	45.9	--	35.4	--
GROUP 5 AVERAGE	9-29	40.2	3.3	31.9	51.5	--	41.7	--
L.S.D. AT .10	4	6.8	1.5	6.9	4.0			
C.V. %	1.0	12.5		15.8	5.8			
TRIAL AVERAGE		41.5	3.3	34.7	52.7		43.7	

- # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 @ Roundup ready variety.

TABLE 22. Performance of Soybean Varieties evaluated near Morehouse (Stoddard County) on the Tom Jennings Farm during 1999-2000.

Planted: 18 May 2000
 Harvested: 18 October 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Gideon Silt Loam
 Soil Test: pH=6.6, OM=3.3%, P=30, K=266

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre; Squadron
 Post: Reflex, Fusion, Select
 Irrigation: 5.0 inches
 Previous Crop: Rice
 Tillage: Conventional

Cyst Nematode Population at Planting: 140 Eggs/250cc of soil

Growing Season Rainfall: May=7.2, June=3.4, July=3.8, Aug.=2.2, Sept.=2.2 TOTAL=18.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Morsoy 4580	9-20	37.6	1.2	74.1**	--	--	--	--
Morsoy 4719N	9-22	36.4	2.1	73.7*	--	--	--	--
Deltapine DP 4748S	9-20	39.6	4.0	73.6*	--	--	--	--
Stine 4702-2	9-21	38.3	2.5	71.3*	58.2*	--	64.8	--
Asgrow A4324	9-19	34.8	1.8	71.3*	--	--	--	--
Gateway 471	9-22	36.7	2.3	70.2*	--	--	--	--
Hornbeck HBK 4891	9-19	36.2	2.4	67.6	57.9*	--	62.8	--
Dixie 4803RR®	9-24	37.0	2.7	66.3	--	--	--	--
Delta King 4711	9-21	33.0	3.2	66.2	--	--	--	--
Dixie 478	9-21	34.8	3.0	65.4	62.1**	--	63.8	--
Stine 4790	9-20	34.5	2.5	64.7	57.6*	--	61.2	--
Delta King 4680	9-21	37.8	2.1	63.3	--	--	--	--
DeltaGrow 4740	9-21	39.0	3.1	62.4	--	--	--	--
Pioneer variety 9482	9-19	37.2	1.8	62.4	55.1	--	58.8	--
Golden Harvest X04755 [#]	9-21	35.4	2.8	62.1	--	--	--	--
Deltapine DP 3478	9-21	34.6	2.3	61.5	55.5	--	58.5	--
Gateway 427	9-21	35.7	2.0	60.8	--	--	--	--
AgVenture AV1468N	9-19	35.0	1.8	60.7	--	--	--	--
Deltapine DP 4909	9-22	36.8	3.1	58.5	50.4	--	54.5	--
Pioneer variety 94B53	9-21	34.9	3.5	54.3	--	--	--	--
Croplan Gen. 490	9-26	36.6	2.6	53.8	54.0	--	53.9	--
FFR HT 4985	9-24	36.7	4.1	53.3	54.3	--	53.8	--
FFR 514	9-23	37.1	2.5	52.8	53.4	--	53.1	--
KSC-55	9-29	34.4	4.3	17.8	--	--	--	--
GROUP 4 AVERAGE	9-22	36.2	2.6	62.0	54.7	--	58.4	--
L.S.D. AT .10	4	6.7	0.8	5.7	6.4	--	--	--
C.V. %	1.0	13.6	--	6.7	8.5	--	--	--

MATURITY GROUP 5

Morsoy 5080	9-22	41.0	2.0	70.2**	--	--	--	--
AgVenture AV1520N	9-24	32.7	2.3	68.0*	--	--	--	--
Morsoy 5108N	9-24	32.4	2.4	65.2	--	--	--	--
Hornbeck HBK 5991	10-04	31.9	3.0	64.6	63.7	--	64.2	--
Pioneer variety 9594	10-05	36.5	3.0	64.4	69.6*	--	67.0	--
Pioneer variety 95B33	9-22	31.4	1.7	64.2	--	--	--	--
Caviness	9-25	31.0	4.1	63.9	--	--	--	--
Delta King 5995	10-03	31.1	2.7	63.1	65.4	--	64.3	--
Asgrow A5959	9-28	33.7	2.6	61.6	68.4*	--	65.0	--
Golden Harvest H-1500	9-24	30.2	1.6	61.5	--	--	--	--
NK Brand X 053R ^{#,@}	9-24	31.6	3.1	60.5	--	--	--	--
Hutcheson	10-01	38.5	3.3	59.2	60.0	--	59.6	--
Delsoy 5500	9-28	36.4	3.0	58.8	60.1	--	59.5	--
Anand	9-27	30.1	2.0	58.1	50.5	--	54.3	--
Hornbeck HBK 5990	10-04	30.6	2.4	57.2	63.4	--	60.3	--

TABLE 22. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	Croplan Gen. 520	9-24	47.2	4.0	56.5	59.1	--	57.8
Delta King 5850	10-02	37.0	2.9	55.6	55.7	--	55.7	--
S94-1867#	10-03	38.8	3.3	54.4	--	--	--	--
S97-1688#	9-24	32.6	2.4	51.4	--	--	--	--
S96-2692#	9-29	29.8	2.7	49.8	--	--	--	--
FFR 597	10-02	38.3	3.0	49.0	61.1	--	55.1	--
S96-3418#	10-02	36.3	3.6	46.5	--	--	--	--
S96-2641#	10-01	33.7	3.0	46.0	--	--	--	--
Soyola	10-08	37.6	5.0	45.0	--	--	--	--
GROUP 5 AVERAGE	9-29	34.6	2.9	58.1	62.2	--	60.2	--
L.S.D. AT .10	3	4.3	0.6	4.6	7.1			
C.V. %	0.9	9.0		5.7	8.4			
TRIAL AVERAGE		35.4	2.8	60.1	58.6		59.3	

- # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 @ Roundup ready variety.

TABLE 23. Performance of Soybean Varieties evaluated on a Loam Soil near Portageville (Pemiscott County) on the Delta Research Center during 1998-2000.

Planted: 8 May 2000
 Harvested: 19 Oct. 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Tiptonville Silt Loam
 Soil Test: pH=6.8, OM=1.6%, P=169, K=429

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Storm
 Irrigation: 1.5 inches
 Previous Crop: Cotton
 Tillage: Conventional

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

Growing Season Rainfall: May=5.6, June=4.4, July=3.0, Aug.=0.9, Sept.=1.4 TOTAL=14.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.

MATURITY GROUP 4

Morsoy 4580	9-15	42.1	1.0	54.9**	--	--	--	--
Gateway 471	9-17	47.2	1.0	54.1*	--	--	--	--
FFR HT 4985	9-23	35.5	1.0	53.8*	56.7	--	55.3	--
Deltapine DP 4748S	9-16	43.3	1.0	53.1*	--	--	--	--
Stine 4702-2	9-13	46.5	1.0	51.6*	65.1*	--	58.4	--
Asgrow A4324	9-06	34.8	1.0	51.1*	--	--	--	--
Morsoy 4719N	9-16	45.0	1.0	50.9*	--	--	--	--
Dixie 4803RR@	9-16	44.8	1.0	50.9*	--	--	--	--
Stine 4790	9-17	40.0	1.0	50.0*	62.1*	59.8	56.1	57.3
Delta King 4680	9-16	40.7	1.0	50.0*	--	--	--	--
FFR 514	9-20	37.2	1.0	48.4	55.4	--	51.9	--
Deltapine DP 3478	9-15	41.9	1.0	48.1	62.2*	56.5	55.2	55.6
Golden Harvest X04755#	9-15	44.4	1.0	47.6	--	--	--	--
AgVenture AV1468N	9-09	40.7	1.0	46.0	--	--	--	--
Hornbeck HBK 4891	9-11	40.1	1.0	46.0	67.1**	--	56.6	--
Dixie 478	9-12	48.5	1.0	45.0	62.5*	57.4	53.8	55.0
Delta King 4711	9-13	45.6	1.0	44.9	--	--	--	--
Gateway 427	9-05	29.9	1.0	44.9	--	--	--	--
Deltapine DP 4909	9-19	49.1	1.0	44.5	58.3	--	51.4	--
Pioneer variety 9482	9-07	43.8	2.0	44.4	65.2*	57.8	54.8	55.8
DeltaGrow 4740	9-11	45.5	2.0	43.8	--	--	--	--
Croplan Gen. 490	9-22	53.0	2.0	42.5	53.6	--	48.1	--
Pioneer variety 94B53	9-03	36.8	2.3	40.2	--	--	--	--
KSC-55	9-27	29.8	3.0	33.2	--	--	--	--
GROUP 4 AVERAGE	9-14	41.9	1.3	47.5	58.4	56.4	53.0	54.1
L.S.D. AT .10	4	4.0	0.3	5.4	6.9	7.3		
C.V. %	1.1	7.2		8.4	8.6	9.5		

MATURITY GROUP 5

NK Brand X 053R@.#	9-24	29.7	1.0	68.1**	--	--	--	--
Hornbeck HBK 5991	9-29	34.0	1.0	67.2*	61.8**	--	64.5	--
AgVenture AV1520N	9-20	29.0	1.0	66.8*	--	--	--	--
Anand	9-26	28.3	1.0	65.9*	54.8	54.1	60.4	58.3
S94-1867#	9-29	37.7	1.7	65.6*	--	--	--	--
S96-2641#	9-26	29.7	1.0	64.9*	--	--	--	--
Caviness	9-25	34.0	1.0	64.1*	--	--	--	--
S96-3418#	10-01	38.0	1.3	63.3*	--	--	--	--
Asgrow A5959	9-28	36.0	1.3	62.7*	48.4	--	55.6	--
Delsoy 5500	9-24	34.3	1.3	62.5*	58.6*	54.1	60.6	58.4
Delta King 5850	9-26	34.3	1.3	62.5*	49.2	56.7	55.9	56.1
S96-2692#	9-24	35.0	1.3	62.0*	--	--	--	--
Hutcheson	9-26	33.3	1.0	61.7*	51.8	51.7	56.8	55.1
Morsoy 5108N	9-20	38.3	1.0	61.3	--	--	--	--
S97-1688#	9-27	36.3	1.0	60.5	--	--	--	--

TABLE 23. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	Delta King 5995	9-29	35.7	1.0	60.1	58.7*	--	59.4
Pioneer variety 9594	9-28	35.0	2.0	58.8	54.0	56.5	56.4	56.4
Hornbeck HBK 5990	10-02	36.7	1.0	58.2	54.5	54.2	56.4	55.6
Pioneer variety 95B33	9-20	33.0	1.3	57.3	--	56.2	--	--
Croplan Gen. 520	9-24	52.7	1.7	53.2	48.8	--	51.0	--
Morsoy 5080	9-20	47.0	1.3	52.0	--	--	--	--
FFR 597	9-28	36.3	1.0	51.1	48.3	--	49.7	--
Golden Harvest H-1500	9-21	27.3	1.0	49.3	--	--	--	--
Soyola	10-06	39.3	1.7	48.4	--	--	--	--
GROUP 5 AVERAGE	9-26	35.4	1.2	60.3	52.4	51.6	56.4	54.8
L.S.D. AT .10	1	4.1	0.5	6.6	6.8	5.2		
C.V. %	0.3	8.4		7.9	9.5	7.4		
TRIAL AVERAGE		38.7	1.2	53.9	55.3	54.1	54.6	54.4

- # Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 @ Roundup ready variety.

TABLE 24. Performance of Soybean Varieties evaluated on a Clay Soil near Portageville (Pemiscott County) on the Delta Research Center during 1998-2000.

Planted: 9 May 2000
 Harvested: 19 Oct. 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Sharkey Silty Clay
 Soil Test: pH=6.0, OM=2.6%, P=71, K=411

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Storm
 Irrigation: 3.0 inches
 Previous Crop: Cotton
 Tillage: Conventional

Cyst Nematode Population at Planting: 140 Eggs/250cc of soil

Growing Season Rainfall: May=5.6, June=4.4, July=3.0, Aug.=0.4, Sept.=1.4 TOTAL=14.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	Means	
							2 Yr.	3 Yr.
MATURITY GROUP 4								
Asgrow A4324	9-10	28.1	1.0	48.7**	--	--	--	--
DeltaGrow 4740	9-13	31.0	1.0	46.2*	--	--	--	--
Deltapine DP 4748S	9-11	32.3	1.0	45.5*	--	--	--	--
Hornbeck HBK 4891	9-11	28.7	1.0	43.3*	41.6	--	42.5	--
Golden Harvest X04755#	9-13	31.0	1.0	42.7*	--	--	--	--
Pioneer variety 9482	9-12	30.4	1.0	41.9*	50.2*	33.1	46.1	41.7
Pioneer variety 94B53	9-07	27.5	1.0	41.8*	--	--	--	--
Dixie 478	9-12	31.7	1.0	41.6*	47.4	28.2	44.5	39.1
Dixie 4803RR@	9-13	27.9	1.0	41.4*	--	--	--	--
FFR 514	9-21	28.9	1.0	41.3*	47.8	--	44.6	--
Morsoy 4719N	9-14	29.1	1.0	40.4*	--	--	--	--
FFR HT 4985	9-22	29.7	1.0	39.6	50.1*	--	44.9	--
Gateway 471	9-13	28.3	1.0	38.9	--	--	--	--
Croplan Gen. 490	9-25	36.0	1.0	37.6	48.1	--	42.9	--
Stine 4790	9-15	26.0	1.0	37.5	50.7*	33.4	44.1	40.5
Stine 4702-2	9-13	29.3	1.0	37.4	51.9**	--	44.7	--
Delta King 4680	9-13	24.8	1.0	37.0	--	--	--	--
Gateway 427	9-08	24.7	1.0	36.0	--	--	--	--
Deltapine DP 4909	9-21	28.8	1.0	34.2	46.0	--	40.1	--
Delta King 4711	9-12	29.6	1.0	33.3	--	--	--	--
AgVenture AV1468N	9-10	24.7	1.0	33.3	--	--	--	--
Deltapine DP 3478	9-12	30.5	1.0	33.0	46.4	35.7*	39.7	38.4
Morsoy 4580	9-11	26.8	1.0	30.1	--	--	--	--
KSC-55	9-30	29.1	1.0	28.2	--	--	--	--
GROUP 4 AVERAGE	9-14	29.0	1.0	38.8	45.5	32.0	42.2	38.8
L.S.D. AT .10	2	4.0	NS	8.9	3.2	5.1		
C.V. %	0.6	10.3		16.7	5.0	11.7		

MATURITY GROUP 5

Pioneer variety 9594	9-28	25.9	1.0	42.1**	56.8**	41.9*	49.5	46.9
Hornbeck HBK 5991	9-28	24.7	1.0	38.3*	56.2*	--	47.3	--
Delta King 5850	9-26	26.5	1.0	38.0*	51.7	37.1	44.9	42.3
Morsoy 5108N	9-23	25.5	1.0	37.1*	--	--	--	--
Hornbeck HBK 5990	9-29	24.4	1.0	36.8*	50.8	36.1	43.8	41.2
Delta King 5995	9-28	28.9	1.0	36.8*	51.4	--	44.1	--
Asgrow A5959	9-28	28.4	1.0	36.6*	55.5*	--	46.1	--
Caviness	9-24	27.3	1.0	35.7	--	--	--	--
Anand	9-24	18.5	1.0	35.6	52.5	33.0	44.1	40.4
S96-2641#	9-27	27.3	1.0	35.1	--	--	--	--
Hutcheson	9-27	26.1	1.0	34.2	50.4	35.9	42.3	40.2
Delsoy 5500	9-26	26.1	1.0	34.0	54.1*	39.8	44.1	42.6
Pioneer variety 95B33	9-23	24.0	1.0	33.1	--	32.1	--	--
AgVenture AV1520N	9-24	20.0	1.0	33.0	--	--	--	--
S96-3418#	9-28	24.2	1.0	32.4	--	--	--	--

TABLE 24. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
S94-1867 [#]	9-28	34.5	1.0	31.4	--	--	--	--
Morsoy 5080	9-15	30.7	1.0	31.3	--	--	--	--
FFR 597	9-29	29.4	1.0	30.0	47.5	--	38.8	--
NK Brand X 053R ^{#,@}	9-25	21.3	1.0	29.8	--	--	--	--
S97-1688 [#]	9-27	23.4	1.0	29.6	--	--	--	--
Croplan Gen. 520	9-26	31.7	1.0	29.3	42.0	--	35.7	--
Golden Harvest H-1500	9-22	23.0	1.0	26.6	--	--	--	--
S96-2692 [#]	9-26	23.2	1.0	25.8	--	--	--	--
Soyola	10-06	36.3	1.0	23.0	--	--	--	--
GROUP 5 AVERAGE	9-26	26.3	1.0	33.2	50.3	35.9	41.8	39.8
L.S.D. AT .10	1	4.2	NS	5.6	3.2	5.1		
C.V. %	0.3	11.6		12.2	4.6	10.8		
TRIAL AVERAGE		27.6	1.0	36.0	48.0	33.9	42.0	39.3

- [#] Experimental variety.
[@] Roundup ready variety.
-- Data not available.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.

TABLE 25. Yield Summary for Soybean Varieties evaluated at five Southeast Missouri locations (Oran, Wyatt, Morehouse, and Portageville) during 2000.

<u>Oran</u>	<u>Wyatt</u>	<u>Morehouse</u>
Planted: 23 May 2000	Planted: 22 May 2000	Planted: 18 May 2000
Harvested: 10 October 2000	Harvested: 18 October 2000	Harvested: 18 October 2000
Growing Season Rainfall: 14.0"	Growing Season Rainfall: 20.2	Growing Season Rainfall: 18.8"
<u>Portageville - Loam</u>	<u>Portageville - Clay</u>	
Planted: 8 May 2000	Planted: 9 May 2000	
Harvested: 19 October 2000	Harvested: 19 October 2000	
Growing Season Rainfall: 14.8"	Growing Season Rainfall: 14.8"	

Brand-Variety	Yield (Bu/Acre)					
	Oran	Wyatt	Morehouse	Port.-Loam	Port.-Clay	Mean
MATURITY GROUP 4						
Deltapine DP 4748S	53.6**	47.6**	73.6*	53.1*	45.5*	54.7**
Asgrow A4324	43.9	46.2*	71.3*	51.1*	48.7**	52.2*
Gateway 471	43.4	47.0*	70.2*	54.1*	38.9	50.7
Stine 4702-2	50.3*	39.2	71.3*	51.6*	37.4	50.0
Morsoy 4719N	40.8	39.7	73.7*	50.9*	40.4*	49.1
Pioneer variety 9482	50.6*	43.3*	62.4	44.4	41.9*	48.5
Hornbeck HBK 4891	43.5	40.9*	67.6	46.0	43.3*	48.2
DeltaGrow 4740	44.2	39.1	62.4	43.8	46.2*	47.1
Delta King 4680	49.8*	35.6	63.3	50.0*	37.0	47.1
Morsoy 4580	34.8	41.2*	74.1**	54.9**	30.1	47.0
Dixie 4803RR@	42.3	34.1	66.3	50.9*	41.4*	47.0
Gateway 427	41.8	47.6**	60.8	44.9	36.0	46.2
Golden Harvest X04755#	43.7	32.9	62.1	47.6	42.7*	45.8
Dixie 478	36.9	39.4	65.4	45.0	41.6*	45.7
Stine 4790	47.0*	28.4	64.7	50.0*	37.5	45.5
Pioneer variety 94B53	48.2*	41.4*	54.3	40.2	41.8*	45.2
Delta King 4711	43.3	35.0	66.2	44.9	33.3	44.5
Deltapine DP 4909	43.3	37.5	58.5	44.5	34.2	43.6
FFR 514	35.9	33.7	52.8	48.4	41.3*	42.4
FFR HT 4985	30.0	35.3	53.3	53.8*	39.6	42.4
Deltapine DP 3478	29.7	36.8	61.5	48.1	33.0	41.8
AgVenture AV1468N	34.2	33.6	60.7	46.0	33.3	41.6
Croplan Gen. 490	30.9	27.7	53.8	42.5	37.6	38.5
KSC-55	10.1	15.0	17.8	33.2	28.2	20.9
GROUP 4 AVERAGE	40.5	37.4	62.0	47.5	38.8	45.2
L.S.D. AT .10	7.1	7.0	5.7	5.4	8.9	3.0
C.V.%	12.8	13.8	6.7	8.4	16.7	11.2

MATURITY GROUP 5

Morsoy 5080	55.7**	38.8*	70.2**	52.0	31.3	49.6**
Asgrow A5959	45.2	41.0**	61.6	62.7*	36.6*	49.4*
AgVenture AV1520N	44.9	32.3	68.0*	66.8*	33.0	49.0*
Anand	48.6*	33.2	58.1	65.9*	35.6	48.3*
Delta King 5995	44.3	37.1*	63.1	60.1	36.8*	48.3*
Hornbeck HBK 5991	38.7	27.7	64.6	67.2*	38.3*	47.3*
Delsoy 5500	48.4*	32.3	58.8	62.5*	34.0	47.2*
Caviness	42.9	28.4	63.9	64.1*	35.7	47.0*
Morsoy 5108N	39.4	32.0	65.2	61.3	37.1*	47.0*
Pioneer variety 95B33	41.0	37.8*	64.2	57.3	33.1	46.7*
NK Brand X 053R#@	38.5	33.6	60.5	68.1**	29.8	46.1
Delta King 5850	35.0	37.9*	55.6	62.5*	38.0*	45.8
Pioneer variety 9594	23.0	33.2	64.4	58.8	42.1**	44.3
Golden Harvest H-1500	47.5	34.7*	61.5	49.3	26.6	43.9
S94-1867#	33.9	34.3*	54.4	65.6*	31.4	43.9
Hornbeck HBK 5990	33.6	31.0	57.2	58.2	36.8*	43.4
Hutcheson	33.9	25.5	59.2	61.7*	34.2	42.9
S96-2641#	32.6	27.9	46.0	64.9*	35.1	41.3
S97-1688#	30.2	30.3	51.4	60.5	29.6	40.4

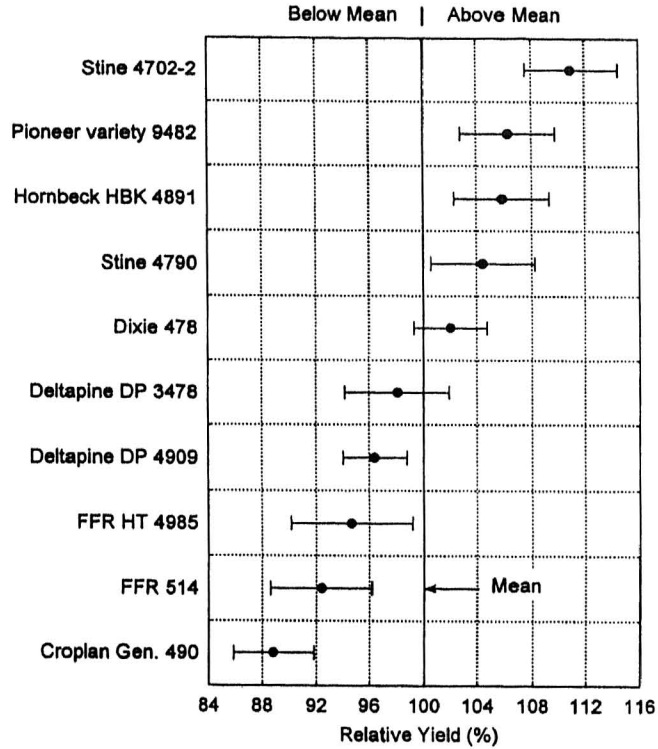
TABLE 25. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Oran	Wyatt	Morehouse	Port.-Loam	Port.-Clay	
S96-2692 [#]	38.1	26.2	49.8	62.0*	25.8	40.4
S96-3418 [#]	20.9	28.1	46.5	63.3*	32.4	38.2
Croplan Gen. 520	27.2	24.9	56.5	53.2	29.3	38.2
FFR 597	28.1	32.0	49.0	51.1	30.0	38.0
Soyola	21.4	25.9	45.0	48.4	23.0	32.7
GROUP 5 AVERAGE	37.2	31.9	58.1	60.3	33.2	44.1
L.S.D. AT .10	7.6	6.9	4.6	6.6	5.6	3.1
C.V.%	15.0	15.8	5.7	7.9	12.2	11.9
TRIAL AVERAGE	38.9	34.7	60.1	53.9	36.0	44.7

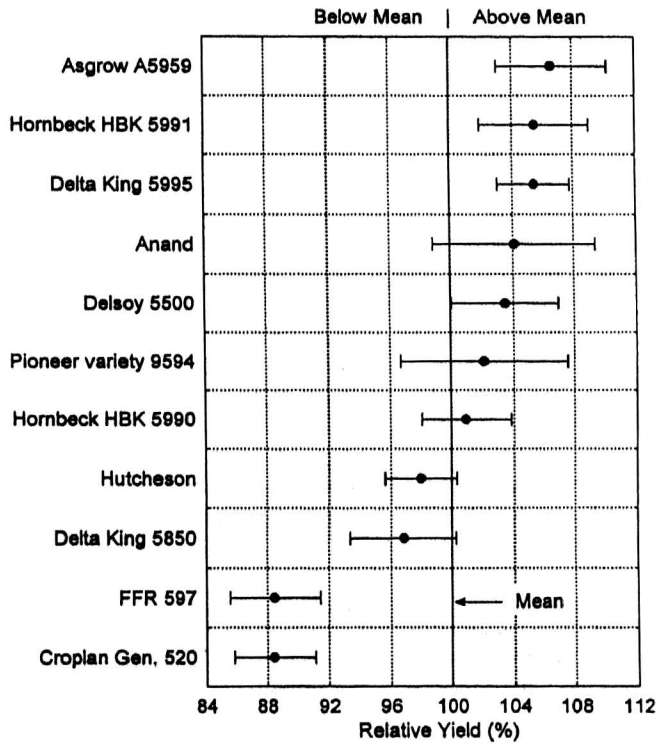
- [#] Experimental variety.
[@] Roundup ready variety.
^{**} Highest yielding variety in the maturity group.
^{*} Yield not significantly less than the highest yielding variety in the same maturity group.

Figure 4. Graphic Summary of Two-year (99/2000) Results of Soybean Varieties at Five Southeast Missouri Locations.

MG IV



MG V



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

PART II

SOYBEAN CYST NEMATODE TRIALS

Soybean resistance to soybean cyst nematode (SCN) is expressed as a reduction in the number 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 2000, 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 University of Missouri Nematode Diagnostic Laboratory. For each of the isolates used in 1999, the SCN Index and appropriate SCN Race are summarized below.

ISOLATE	SCN INDEX			
	PICKETT	PEKING	PI 88788	PI 90763
RACE 1	1.5	0.0	15.5	0.5
RACE 3	0.5	0.5	1.0	0.0
RACE 4	104.0	80.0	23.5	23.0

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

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

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

The SCN screening results are reported in Table 70 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 71 for a soybean's response to cyst nematodes are defined below:

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

*Races 1 and 3 are the most common ones in Missouri, representing 63% of all SCN populations. Race 4 is relatively rare in Missouri, but is frequently noted in descriptions of soybean resistance to SCN. There will be occasional discrepancies between the resistance ratings supplied by the seed company and the rating we obtain in our independent tests. Often, this is because the screening populations of SCN we use are more virulent or carefully characterized for race identification. On occasion, however, the discrepancy is due to failure of the test to distinguish resistance and susceptibility. One common way this can occur is as follows: susceptible cultivars with intolerant reactions to SCN will have severely reduced root systems that support few cysts. This will cause the reaction to appear as a resistant (R rating) even though the cultivar is actually susceptible.

EXPERIMENTAL PROCEDURES

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

Locations. The state was divided into different geographical regions. SCN variety evaluation trials were located in the north, central, southwest, and southeast regions of the state. Trial locations are shown on the adjacent map. In 2000, the locations for these trials were:

North Missouri

1. Graves Experiment Center, Corning (Holt Co.)
2. Ron & Bud Beetsma farm, Mooresville (Livingston Co.)
5. Greenly Memorial Center, Novelty (Knox Co.)
4. John Schaffer farm, LaGrange (Lewis Co.)

Central Missouri

5. John Williams farm, Henrietta (Ray Co.)
6. Frank Swisher farm, Marshall (Saline Co.)
7. Agronomy Research Center, Columbia (Boone Co.)
8. Stan Rolf farm, Winfield (Lincoln Co.)

Southwest Missouri

9. Bill Cook farm, Garden City (Cass Co.)
10. Morris Klotz farm, Nevada (Vernon Co.)
11. Ron Bean farm, Lamar (Barton Co.)

Southeast Missouri

12. Randy Arington farm, Bertrand (Mississippi Co.)
13. Chuck Boyers farm, Dexter (Stoddard Co.)
14. Delta Research Center farm, Clarkton (Dunklin Co.)



Soybean entries were evaluated in fourteen cyst nematode studies in north, central, west and east Missouri in 2000. For each entry and location, data on maturity, 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 SCN location are summarized below in Table 26. The ranges shown give the values for the lowest and highest yielding entries in each test. The lowest yielding varieties in these tests are generally those which are known to be susceptible to SCN.

TABLE 26. CYST NEMATODE SOYBEAN YIELD SUMMARY

LOCATION	NUMBER OF ENTRIES	YIELD (BU/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Corning	35	28-48	35	27
Mooresville	35	37-55	46	28
Novelty	35	50-63	58	29
LaGrange	35	32-60	53	30
Henrietta	26	24-43	34	32
Marshall	26	34-63	54	33
Columbia	26	33-54	45	34
Winfield	26	56-76	65	35
Garden City	17	18-39	28	37
Nevada	17	8-26	17	38
Lamar	17	7-28	16	39
Bertrand	25	8-47	25	41
Dexter	25	23-41	33	42
Clarkton	25	21-33	29	43

TABLE 27. Performance of SCN Resistant Soybean Varieties evaluated near Corning (Atchison/Holt Counties) on the Graves Experiment Center during 1999-2000.

Planted: 22 May 2000
 Harvested: 20 October 2000
 Planted Population: 192,500 Seeds/A
 Row Spacing: 15 inches
 Soil Type: Eaton-Wabash Silt Loam
 Soil Test: pH=7.4, OM=1.9%, P=52, K=297

Fertilizer: N=10; P₂O₅=50; K₂O=50
 Herbicide: Pre: Frontier
 Post: First Rate
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 4400 eggs/250cc of soil
 Growing Season Rainfall: May=1.9, June=6.8, July=4.6, Aug.=3.4, Sept.=2.0 TOTAL=18.7 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Kruger K-359RR/SCN@	9-27	42.0	3.0	48.3**	--	--	--	--
Kruger K-369 RR/SCN@	9-16	40.0	3.0	42.3*	--	--	--	--
Kruger K-3555SCN	9-15	39.0	4.0	42.3*	--	--	--	--
Kruger K-3636SCN	9-15	41.0	3.0	42.0*	44.3	--	43.2	--
Kruger K-3913SCN	9-09	41.0	4.0	41.7*	53.2*	--	47.5	--
Stine 3522-4@	9-15	39.0	3.0	40.4*	--	--	--	--
Kruger K-3333+SCN	9-22	40.0	3.0	40.1	--	--	--	--
Reeds Brand 355 SCN	9-16	42.0	3.0	37.8	56.8*	--	47.3	--
Maverick	9-26	40.0	4.0	36.5	47.7*	--	42.1	--
Advanced Gen. AG3944RR@	9-09	41.0	3.0	36.2	--	--	--	--
Midwest Seed G 3925RN@	9-17	41.0	2.0	36.1	--	--	--	--
Kruger K-389RR/SCN@	9-16	42.0	2.0	35.5	--	--	--	--
Williams 82###	9-21	39.0	3.0	35.2	40.7	--	38.0	--
Kruger K-3663SCN	9-08	42.0	2.0	35.1	--	--	--	--
Kruger K-383+RR/SCN@	9-16	41.0	3.0	35.0	41.8	--	38.4	--
Saline	9-21	41.0	3.0	35.0	49.0*	--	42.0	--
Dyna-Gro 3369N	9-21	40.0	3.0	34.3	--	--	--	--
SS94-4337#	9-10	39.0	4.0	33.5	--	--	--	--
Renze Ex37-07Rcn#@	9-18	40.0	2.0	32.6	--	--	--	--
Kruger K-330RR/SCN@	9-26	41.0	2.0	32.6	--	--	--	--
Midwest Seed G 3625 RN@	9-27	40.0	3.0	32.0	49.3*	--	40.7	--
Prairie Br. PB-3720N	9-22	43.0	2.0	31.9	41.6	--	36.8	--
Morsoy 3709N	9-26	41.0	3.0	31.7	--	--	--	--
Kruger K-3888 SCN/STS	9-23	43.0	3.0	31.3	--	--	--	--
Stine 3522	9-16	40.0	3.0	31.0	--	--	--	--
Lewis 372	9-27	42.0	1.0	30.0	--	--	--	--
Kruger K-3777SCN	9-15	40.0	3.0	29.7	43.3	--	36.5	--
Kruger K-3515SCN	9-10	41.0	2.0	28.5	49.7*	--	39.1	--
GROUP 3 AVERAGE	9-18	40.8	2.8	35.7	47.0	--	41.4	--
L.S.D. AT .10	NS	NS	1.3	8.0	10.9			
C.V. %	66.6	6.0		15.8	19.7			
MATURITY GROUP 4								
Fontanelle X10425N#	9-22	39.0	3.0	44.2**	--	--	--	--
Kruger K-4214SCN	9-20	41.0	3.0	36.7	--	--	--	--
Advanced Gen. AG4012RR@	9-26	38.0	3.0	32.1	--	--	--	--
Stine 4212-4@	9-22	39.0	2.0	31.9	--	--	--	--
Morsoy 4067 SCN	9-23	38.0	2.0	29.1	47.1*	--	38.1	--
Mustang	9-23	40.0	2.0	28.9	49.3*	--	39.1	--
Renze Ex41-03Rcn#@	9-21	41.0	3.0	28.3	--	--	--	--
GROUP 4 AVERAGE	9-22	39.4	2.6	33.0	48.3	--	40.6	--
L.S.D. AT .10	NS	NS	0.9	6.0	12.7			
C.V. %	20.2	7.6		12.4	19.0			
TRIAL AVERAGE		40.5	2.8	35.1	47.2		41.2	

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 28. Performance of SCN Resistant Soybean Varieties evaluated near Mooresville (Livingston County) on the Beetsma Farm during 2000 and near Chula on the David Pyrtle Farm during 1998-99.

Planted: 16 May 2000
 Harvested: 11 October 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Grundy Silt Loam
 Soil Test: pH=6.6, OM=4.2%, P=163, K=694

Fertilizer: N=0; P₂O₅=0; K₂O=150
 Herbicide: Pre: Frontier, Scepter, Lexone
 Post: Galaxy, Blazer Ultra, Select
 Irrigation: None
 Previous Crop: Grain Sorghum
 Tillage: Conventional

Cyst Nematode Population at Planting: 980 Eggs/250cc of soil
 Growing Season Rainfall: May=2.4, June=5.4, July=4.0, Aug.=3.1, Sept.=3.7 TOTAL=18.6 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Kruger K-359RR/SCN@	9-17	47.0	1.0	55.0**	--	--	--	--
Kruger K-389RR/SCN@	9-18	42.5	1.2	52.4*	--	--	--	--
Kruger K-369 RR/SCN@	9-16	45.0	2.4	51.6*	--	48.9*	--	--
Kruger K-330RR/SCN@	9-19	45.8	2.6	51.0	--	--	--	--
Stine 3522-4@	9-18	39.3	3.1	50.9	--	--	--	--
Renze Ex37-07Rcn#.@	9-18	42.8	1.5	50.8	--	--	--	--
Kruger K-3515SCN	9-16	40.5	3.2	50.0	33.4*	--	41.7	--
Maverick	9-19	44.8	4.4	48.9	28.0	46.8*	38.5	41.2
SS94-4337#	9-16	44.0	3.7	48.3	--	--	--	--
Stine 3522	9-14	36.8	3.5	47.2	--	--	--	--
Midwest Seed G 3925RN@	9-18	43.3	2.3	45.5	--	--	--	--
Kruger K-3913SCN	9-21	36.8	4.1	45.4	32.1*	--	38.8	--
Kruger K-3777SCN	9-18	45.5	1.5	45.3	30.5*	--	37.9	--
Kruger K-3888 SCN/STS	9-18	42.8	3.4	45.1	--	--	--	--
Advanced Gen. AG3944RR@	9-18	43.5	3.0	44.8	--	--	--	--
Prairie Br. PB-3720N	9-18	42.8	2.0	44.4	32.2*	--	38.3	--
Kruger K-383+RR/SCN@	9-14	42.8	3.9	44.4	35.2**	--	39.8	--
Kruger K-3555SCN	9-13	37.5	4.5	43.8	--	--	--	--
Midwest Seed G 3625 RN@	9-15	41.3	1.9	43.7	28.7	--	36.2	--
Morsoy 3709N	9-18	47.3	2.2	43.6	--	--	--	--
Kruger K-3333+SCN	9-15	43.0	4.5	43.4	--	--	--	--
Dyna-Gro 3369N	9-18	44.5	1.9	42.6	--	--	--	--
Lewis 372	9-18	46.5	2.3	42.5	--	--	--	--
Kruger K-3636SCN	9-19	36.0	4.8	42.4	28.6	--	35.5	--
Reeds Brand 355 SCN	9-18	44.8	3.8	42.2	28.9	49.1*	35.6	40.1
Kruger K-3663SCN	9-19	39.8	3.6	40.4	--	--	--	--
Saline	9-16	46.5	3.5	39.3	33.3*	47.6*	36.3	40.1
Williams 82###	9-16	42.0	3.7	37.4	23.4	39.2	30.4	33.3
GROUP 3 AVERAGE	9-17	42.7	3.0	45.8	30.1	45.5	38.0	40.5
L.S.D. AT .10	1	4.5	1.1	3.4	5.0	5.0		
C.V. %	0.4	9.0		6.2	14.2	9.3		
MATURITY GROUP 4								
Fontanelle X10425N#	9-21	42.8	3.7	49.4**	--	--	--	--
Stine 4212-4@	9-19	43.5	1.8	47.5*	--	--	--	--
Morsoy 4067 SCN	9-21	45.0	4.1	46.3	34.6**	48.8*	40.5	43.2
Advanced Gen. AG4012RR@	9-20	45.8	3.5	46.1	--	--	--	--
Kruger K-4214SCN	9-21	45.0	4.6	43.3	--	--	--	--
Renze Ex41-03Rcn#.@	9-23	43.5	2.1	43.0	--	--	--	--
Mustang	9-22	42.0	3.8	41.6	32.2	48.4*	36.9	40.7
GROUP 4 AVERAGE	9-21	43.9	3.4	45.3	30.7	45.9	38.0	40.6
L.S.D. AT .10	1	4.0	0.9	2.6	NS	4.1		
C.V. %	0.4	7.6		4.7	11.9	7.5		
TRIAL AVERAGE		42.9	3.1	45.7	30.2	45.6	38.0	40.5

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 29. Performance of SCN Resistant Soybean Varieties evaluated near Novelty (Knox County) on the Greenly Memorial Farm during 1998-2000.

Planted: 12 May 2000
 Harvested: 3 October
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.2, OM=3.1%, P=101, K=443
 Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Steel
 Post: Storm, Poast
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 2240 eggs / 250cc of soil
 Growing Season Rainfall: May=1.9, June=7.4, July=1.7, Aug.=4.5, Sept.=3.6 TOTAL=19.1 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Kruger K-3515SCN	9-13	38.8	1.3	63.0**	27.0	--	45.0	--
Morsoy 3709N	9-16	42.5	1.1	62.8*	--	--	--	--
Dyna-Gro 3369N	9-16	42.5	1.1	62.1*	--	--	--	--
Kruger K-3555SCN	9-13	37.3	1.2	61.8*	--	--	--	--
Kruger K-389RR/SCN@	9-16	40.5	1.2	60.8*	--	--	--	--
Renze Ex37-07Rcn#,@	9-17	38.8	1.0	60.6*	--	--	--	--
Kruger K-330RR/SCN@	9-17	42.3	1.3	60.3*	--	--	--	--
Kruger K-369 RR/SCN@	9-15	43.0	1.3	60.0*	--	35.4*	--	--
Kruger K-3663SCN	9-16	36.3	1.2	59.8*	--	--	--	--
Kruger K-3777SCN	9-16	42.3	1.2	59.7*	31.0*	--	45.4	--
Kruger K-3636SCN	9-16	36.5	1.2	59.2*	31.3*	--	45.3	--
Stine 3522-4@	9-15	38.0	1.4	59.1*	--	--	--	--
Prairie Br. PB-3720N	9-16	41.5	1.1	58.9*	30.4*	--	44.7	--
Stine 3522	9-13	37.5	1.1	58.4	--	--	--	--
Lewis 372	9-16	40.0	1.1	57.7	--	--	--	--
Kruger K-359RR/SCN@	9-16	42.5	1.2	57.7	--	--	--	--
Advanced Gen. AG3944RR@	9-16	41.8	1.2	57.6	--	--	--	--
Kruger K-3913SCN	9-18	43.5	1.6	56.9	26.0	--	41.5	--
Kruger K-383+RR/SCN@	9-14	39.5	1.8	56.1	27.1	--	41.6	--
Kruger K-3333+SCN	9-14	41.8	1.5	56.0	--	--	--	--
Midwest Seed G 3925RN@	9-17	40.8	1.2	55.8	--	--	--	--
Reeds Brand 355 SCN	9-15	40.5	1.4	55.7	28.8	31.8	42.3	38.8
SS94-4337#	9-15	46.3	1.8	55.3	--	--	--	--
Midwest Seed G 3625 RN@	9-15	38.0	1.1	54.7	25.4	--	40.1	--
Kruger K-3888 SCN/STS	9-16	42.8	1.3	54.6	--	--	--	--
Maverick	9-16	49.0	2.5	54.0	27.3	36.7*	40.7	39.3
Saline	9-15	45.0	1.4	53.7	26.0	34.9*	39.9	38.2
Williams 82###	9-16	43.8	1.5	50.6	23.5	29.4	37.1	34.5
GROUP 3 AVERAGE	9-16	41.2	1.3	58.0	27.1	34.6	42.6	39.9
L.S.D. AT .10	1	3.2	0.4	4.1	2.2	4.1		
C.V. %	0.2	6.7		6.0	6.9	10.1		
MATURITY GROUP 4								
Morsoy 4067 SCN	9-18	44.8	1.8	59.0**	28.3	37.6*	43.7	41.6
Kruger K-4214SCN	9-18	46.3	1.9	58.9*	--	--	--	--
Fontanelle X10425N#	9-16	40.5	1.1	58.4*	--	--	--	--
Stine 4212-4@	9-17	40.8	1.2	55.1	--	--	--	--
Advanced Gen. AG4012RR@	9-16	39.8	1.2	53.7	--	--	--	--
Renze Ex41-03Rcn#,@	9-18	41.3	1.4	53.2	--	--	--	--
Mustang	9-18	43.5	1.5	50.8	25.7	36.8*	38.3	37.8
GROUP 4 AVERAGE	9-17	42.4	1.4	55.6	27.6	36.0	41.6	39.7
L.S.D. AT .10	1	3.2	0.7	3.4	NS	4.0		
C.V. %	0.2	6.2		5.2	8.5	9.2		
TRIAL AVERAGE		41.4	1.4	57.5	27.2	34.9	42.4	39.9

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 30. Performance of SCN Resistant Soybean Varieties evaluated near LaGrange (Lewis County) on the John Schaffer Farm during 1998, 2000 and near Lentner (Shelby county) on the Emery Garrish Farm during 1999.

Planted: 8 May 2000
 Harvested: 10 October 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Westerville Silt Loam
 Soil Test: pH=6.7, OM=2.8%, P=110, K=303
 Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Storm, Poast
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 6570 Eggs/250cc of soil
 Growing Season Rainfall: May=1.8, June=7.2, July=4.2, Aug.=3.8, Sept.=2.4 TOTAL=19.4 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Kruger K-3913SCN	9-16	47.5	2.8	60.0**	26.2*	--	43.1	--
Kruger K-3515SCN	9-13	42.8	2.8	59.2*	27.0*	--	43.1	--
Kruger K-3663SCN	9-14	44.3	2.5	59.0*	--	--	--	--
Kruger K-369 RR/SCN@	9-12	50.3	1.8	58.1*	--	53.9	--	--
Stine 3522-4@	9-13	46.0	1.8	57.9*	--	--	--	--
Lewis 372	9-15	49.3	1.3	57.7*	--	--	--	--
Kruger K-3777SCN	9-15	47.0	1.3	57.7*	27.7**	--	42.7	--
Dyna-Gro 3369N	9-15	48.5	1.3	57.5*	--	--	--	--
Maverick	9-15	49.8	2.3	57.3*	22.9	60.2*	40.1	46.8
Kruger K-3555SCN	9-12	44.5	2.8	56.8*	--	--	--	--
Kruger K-3333 + SCN	9-12	46.3	2.8	56.7*	--	--	--	--
Kruger K-330RR/SCN@	9-13	45.5	1.8	56.3*	--	--	--	--
Kruger K-383 + RR/SCN@	9-13	45.3	2.3	56.1*	22.7	--	39.4	--
Kruger K-359RR/SCN@	9-14	47.0	1.5	55.8*	--	--	--	--
Kruger K-3636SCN	9-14	41.3	2.0	55.5*	25.2*	--	40.4	--
Prairie Br. PB-3720N	9-15	48.3	1.5	55.2*	25.5*	--	40.4	--
Advanced Gen. AG3944RR@	9-14	48.0	2.3	54.3	--	--	--	--
Morsoy 3709N	9-15	47.5	1.3	54.0	--	--	--	--
Kruger K-389RR/SCN@	9-13	44.0	2.3	53.4	--	--	--	--
SS94-4337#	9-14	48.5	2.8	52.6	--	--	--	--
Renze Ex37-07Rcn#@	9-13	43.5	1.8	51.8	--	--	--	--
Reeds Brand 355 SCN	9-14	47.3	2.3	51.1	25.4*	58.2	38.3	44.9
Stine 3522	9-13	44.3	2.8	50.5	--	--	--	--
Kruger K-3888 SCN/STS	9-14	48.8	2.3	49.4	--	--	--	--
Midwest Seed G 3925RN@	9-12	47.5	1.8	49.1	--	--	--	--
Williams 82###	9-14	48.0	3.3	41.5	18.5	49.2	30.0	36.4
Midwest Seed G 3625 RN@	9-09	43.8	1.8	41.2	21.1	--	31.2	--
Saline	9-10	45.3	3.5	37.2	21.1	50.7	29.2	36.3
GROUP 3 AVERAGE	9-13	46.4	2.2	53.7	22.8	55.8	38.3	44.1
L.S.D. AT .10	1	3.0	0.7	5.0	3.1	5.3		
C.V. %	0.5	5.4		7.9	11.6	8.2		
MATURITY GROUP 4								
Fontanelle X10425N#	9-20	44.0	2.0	60.4**	--	--	--	--
Kruger K-4214SCN	9-21	51.3	2.0	55.0*	--	--	--	--
Morsoy 4067 SCN	9-20	49.3	2.0	54.4	27.1*	37.7	40.8	39.7
Advanced Gen. AG4012RR@	9-18	47.5	2.0	51.8	--	--	--	--
Stine 4212-4@	9-20	47.5	1.5	50.8	--	--	--	--
Renze Ex41-03Rcn#@	9-20	46.5	1.8	50.5	--	--	--	--
Mustang	9-13	48.3	2.0	31.7	25.4*	52.2*	28.6	36.4
GROUP 4 AVERAGE	9-19	47.8	1.9	50.6	25.7	48.4	38.2	41.6
L.S.D. AT .10	5	3.2	0.4	5.8	2.4	6.8		
C.V. %	1.6	5.5		9.6	7.9	11.9		
TRIAL AVERAGE		46.7	2.1	53.1	23.4	54.2	38.3	43.6

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

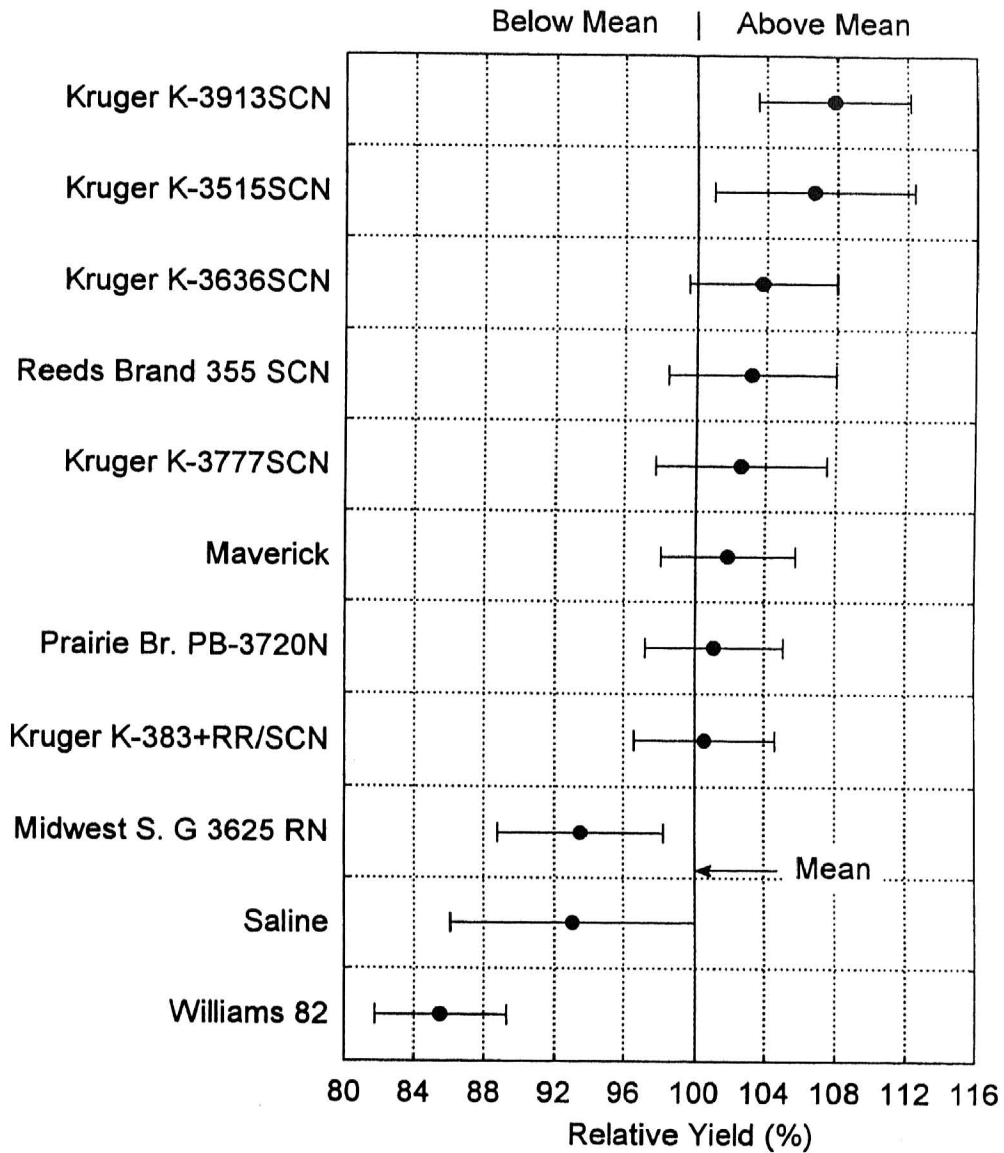
TABLE 31. Performance of SCN Resistant Soybean Varieties evaluated at four Northern Missouri Locations (Corning, Mooresville, Novelty, and LaGrange) during 2000.

Brand-Variety	Lodging Score (1-5)					Yield (Bu/Acre)				
	Corngng	Morsv1	Novlty	LaGrng	Mean	Corngng	Morsv1	Novlty	LaGrng	Mean
<p>Corning Planted: 22 May 2000 Harvested: 20 October 2000 Growing Season Rainfall: 18.7"</p> <p>Mooresville Planted: 16 May 2000 Harvested: 11 October 2000 Growing Season Rainfall: 18.6"</p> <p>Novelty Planted: 12 May 2000 Harvested: 3 October 2000 Growing Season Rainfall: 19.1"</p> <p>LaGrange Planted: 8 May 2000 Harvested: 10 October 2000 Growing Season Rainfall: 19.4"</p>										
MATURITY GROUP 3										
Kruger K-359RR/SCN@	3.0	1.0	1.2	1.5	1.7	48.3**	55.0**	57.7	55.8*	54.2**
Kruger K-369 RR/SCN@	3.0	2.4	1.3	1.8	2.1	42.3*	51.6*	60.0*	58.1*	53.0*
Stine 3522-4@	3.0	3.1	1.4	1.8	2.3	40.4*	50.9	59.1*	57.9*	52.1*
Kruger K-3555SCN	4.0	4.5	1.2	2.8	3.1	42.3*	43.8	61.8*	56.8*	51.2
Kruger K-3913SCN	4.0	4.1	1.6	2.8	3.1	41.7*	45.4	56.9	60.0**	51.0
Kruger K-389RR/SCN@	2.0	1.2	1.2	2.3	1.7	35.5	52.4*	60.8*	53.4	50.5
Kruger K-3515SCN	2.0	3.2	1.3	2.8	2.3	28.5	50.0	63.0**	59.2*	50.2
Kruger K-330RR/SCN@	2.0	2.6	1.3	1.8	1.9	32.6	51.0	60.3*	56.3*	50.0
Kruger K-3636SCN	3.0	4.8	1.2	2.0	2.8	42.0*	42.4	59.2*	55.5*	49.8
Maverick	4.0	4.4	2.5	2.3	3.3	36.5	48.9	54.0	57.3*	49.2
Dyna-Gro 3369N	3.0	1.9	1.1	1.3	1.8	34.3	42.6	62.1*	57.5*	49.1
Kruger K-3333+SCN	3.0	4.5	1.5	2.8	2.9	40.1	43.4	56.0	56.7*	49.0
Renze Ex37-07Rcn#.@	2.0	1.5	1.0	1.8	1.6	32.6	50.8	60.6*	51.8	48.9
Kruger K-3663SCN	2.0	3.6	1.2	2.5	2.3	35.1	40.4	59.8*	59.0*	48.6
Advanced Gen. AG3944RR@	3.0	3.0	1.2	2.3	2.4	36.2	44.8	57.6	54.3	48.2
Kruger K-3777SCN	3.0	1.5	1.2	1.3	1.8	29.7	45.3	59.7*	57.7*	48.1
Morsoy 3709N	3.0	2.2	1.1	1.3	1.9	31.7	43.6	62.8*	54.0	48.0
Kruger K-383+RR/SCN@	3.0	3.9	1.8	2.3	2.8	35.0	44.4	56.1*	56.1*	47.9
Prairie Br. PB-3720N	2.0	2.0	1.1	1.5	1.6	31.9	44.4	58.9*	55.2*	47.6
SS94-4337#	4.0	3.7	1.8	2.8	3.1	33.5	48.3	55.3	52.6	47.4
Lewis 372	1.0	2.3	1.1	1.3	1.4	30.0	42.5	57.7	57.7*	47.0
Stine 3522	3.0	3.5	1.1	2.8	2.6	31.0	47.2	58.4	50.5	46.8
Reeds Brand 355 SCN	3.0	3.8	1.4	2.3	2.6	37.8	42.2	55.7	51.1	46.7
Midwest Seed G 3925RN@	2.0	2.3	1.2	1.8	1.8	36.1	45.5	55.8	49.1	46.6
Kruger K-3888 SCN/STS	3.0	3.4	1.3	2.3	2.5	31.3	45.1	54.6	49.4	45.1
Midwest Seed G 3625 RN@	3.0	1.9	1.1	1.8	1.9	32.0	43.7	54.7	41.2	42.9
Saline	3.0	3.5	1.4	3.5	2.8	35.0	39.3	53.7	37.2	41.3
Williams 82###	3.0	3.7	1.5	3.3	2.9	35.2	37.4	50.6	41.5	41.2
GROUP 3 AVERAGE	2.8	3.0	1.3	2.2	2.3	35.7	45.8	58.0	53.7	48.3
L.S.D. AT .10	1.3	1.1	0.4	0.7	0.4	8.0	3.4	4.1	5.0	2.4
C.V.%						15.8	6.2	6.0	7.9	8.6
MATURITY GROUP 4										
Fontanelle X10425N#	3.0	3.7	1.1	2.0	2.4	44.2**	49.4**	58.4*	60.4**	53.1**
Kruger K-4214SCN	3.0	4.6	1.9	2.0	2.9	36.7	43.3	58.9*	55.0*	48.5
Morsoy 4067 SCN	2.0	4.1	1.8	2.0	2.5	29.1	46.3	59.0**	54.4	47.2
Stine 4212-4@	2.0	1.8	1.2	1.5	1.6	31.9	47.5*	55.1	50.8	46.3
Advanced Gen. AG4012RR@	3.0	3.5	1.2	2.0	2.4	32.1	46.1	53.7	51.8	45.9
Renze Ex41-03Rcn#.@	3.0	2.1	1.4	1.8	2.1	28.3	43.0	53.2	50.5	43.8
Mustang	2.0	3.8	1.5	2.0	2.3	28.9	41.6	50.8	31.7	38.2
GROUP 4 AVERAGE	2.6	3.4	1.4	1.9	2.3	33.0	45.3	55.6	50.6	46.1
L.S.D. AT .10	0.9	0.9	0.7	0.4	0.3	6.0	2.6	3.4	5.8	2.1
C.V.%						12.4	4.7	5.2	9.6	7.8
TRIAL AVERAGE	2.8	3.1	1.4	2.1	2.3	35.1	45.7	57.5	53.1	47.8

Susceptible check variety.
Experimental variety.
@ Roundup ready variety.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the same maturity group.

Figure 5. Graphic Summary of Two-year (99/2000) Results of SCN Resistant Soybean Varieties at Four North Missouri Locations.

MG III



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 32. Performance of SCN Resistant Soybean Varieties evaluated near Henrietta (Ray County) on the John Williams Farm during 2000 and near Garden City (Cass County) on the Bill Cook Farm during 1998-99.

Planted: 25 April 2000
 Harvested: 19 September 2000
 Planted Population: 186,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Parkville Silt Loam
 Soil Test: pH=7.3, OM=2.3, P=21, K=560

Fertilizer: N=0, P₂O₅=0, K₂O=0
 Herbicide: Pre: Lasso, Scepter, Canopy
 Post: Galaxy, Select, Fusion
 Irrigation: None
 Previous Crop: Wheat
 Tillage: Conventional

Cyst Nematode Population at Planting: 1960 Eggs/250cc of soil
 Growing Season Rainfall: May=2.7, June=8.0, July=2.6, Aug.=5.6, Sept.=3.4 TOTAL=22.3 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Maverick	9-11	46.8	2.8	38.3**	30.3	36.0*	34.3	34.9
Advanced Gen. AG3944RR [@]	9-10	45.0	2.0	36.7*	--	--	--	--
SS94-4337 [#]	9-06	42.8	3.5	35.3*	--	--	--	--
Dyna-Gro DG 3386NSTS	9-07	47.8	2.3	34.6	--	--	--	--
Excel 8341NRR [@]	9-05	38.3	2.8	32.8	--	--	--	--
Morsoy 3709N	9-09	43.0	1.5	32.8	--	--	--	--
Williams 82 ^{###}	9-09	45.3	1.5	32.7	28.9	30.2	30.8	30.6
Reeds Brand 355 SCN	9-09	47.3	2.8	31.9	35.2*	37.2*	33.6	34.8
Saline	9-07	46.8	2.5	29.7	32.4	32.9	31.1	31.7
Excel 8382NRR [@]	9-07	42.3	3.5	28.5	37.2**	--	32.9	--
GROUP 3 AVERAGE	9-08	44.5	2.5	33.3	32.5	34.4	32.9	33.4
L.S.D. AT .10	1	4.2	0.9	3.5	2.3	3.3		
C.V. %	0.5	7.9		8.9	5.0	8.1		
MATURITY GROUP 4								
Midland 9A420N	9-14	39.8	1.3	42.6**	--	--	--	--
Garst D445N	9-14	40.5	1.0	42.2*	--	--	--	--
Mycogen 5420N	9-13	41.8	1.0	41.3*	--	--	--	--
Lewis 4029 RR [@]	9-12	45.3	1.0	38.4*	--	--	--	--
Morsoy 4426 SCN	9-13	41.5	1.0	36.8	38.0	38.4*	37.4	37.7
Advanced Gen. AG4012RR [@]	9-13	45.5	1.5	36.0	--	--	--	--
Stine 4212-4 [@]	9-11	44.3	1.0	35.7	--	--	--	--
Excel 6431N	9-13	47.8	2.0	34.4	--	--	--	--
Stine 4802-4 [@]	9-16	44.5	1.8	33.6	--	--	--	--
Vigoro V410SCN	9-09	43.5	2.0	33.5	--	--	--	--
Stine 4402-4 [@]	9-15	45.5	1.5	33.4	--	--	--	--
Morsoy 4477 SCN	9-13	41.8	2.0	32.8	40.2*	38.2*	36.5	37.1
Dyna-Gro 3438N	9-08	43.3	2.0	31.7	--	34.9	--	--
Morsoy 4067 SCN	9-08	43.0	1.8	31.1	39.8*	37.1*	35.5	36.0
Excel 8410NRR [@]	9-09	45.0	2.3	28.1	--	--	--	--
Mustang	9-09	45.8	1.3	24.4	32.3	33.3	28.4	30.0
GROUP 4 AVERAGE	9-12	43.7	1.5	34.8	36.5	34.1	35.6	35.1
L.S.D. AT .10	1	2.7	0.7	4.4	2.4	4.4		
C.V. %	0.5	5.2		10.6	5.7	11.0		
TRIAL AVERAGE		44.0	1.9	34.2	35.2	34.2	34.7	34.5

Maturity group checks as identified on page 5.
 # Experimental variety.
 @ Roundup ready variety.
 Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

TABLE 33. Performance of SCN Resistant Soybean Varieties evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1998-2000.

Planted: 25 April 2000
 Harvested: 29 September 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Monona Silt Loam
 Soil Test: pH=5.7, OM=3.4%, P=136, K=577

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Lasso, Scepter, Canopy
 Post: Blazer Ultra, Galaxy
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1260 Eggs/250cc of soil
 Growing Season Rainfall: May=4.2, June=6.4, July=3.2, Aug.=4.2, Sept.=1.9 TOTAL=19.9 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Advanced Gen. AG3944RR [@]	9-12	43.0	2.0	56.5**	--	--	--	--
Maverick	9-13	43.8	3.0	56.4*	54.6*	56.2**	55.5	55.7
Reeds Brand 355 SCN	9-13	44.0	2.8	54.7*	54.6*	56.1*	54.7	55.1
Excel 8382NRR [@]	9-12	44.0	3.8	54.4*	55.1*	--	54.8	--
Dyna-Gro DG 3386NSTS	9-13	43.8	2.5	54.2*	--	--	--	--
Morsoy 3709N	9-13	43.3	2.3	53.1*	--	--	--	--
SS94-4337 [#]	9-12	44.8	2.5	51.5*	--	--	--	--
Excel 8341NRR [@]	9-10	41.0	3.8	47.9	--	--	--	--
Saline	9-13	46.8	3.5	42.3	52.0	45.5	47.2	46.6
Williams 82 ^{###}	9-10	44.0	2.5	33.7	49.7	47.8	41.7	43.7
GROUP 3 AVERAGE	9-12	43.8	2.9	50.5	53.9	49.6	52.2	51.3
L.S.D. AT .10	3	NS	0.8	8.1	4.8	5.4		
C.V. %	0.8	5.1		14.0	7.5	7.9		
MATURITY GROUP 4								
Morsoy 4477 SCN	9-16	42.3	2.0	62.7**	55.6*	59.1**	59.2	59.1
Morsoy 4426 SCN	9-16	42.0	2.0	62.2*	59.9**	55.7*	61.1	59.3
Mycogen 5420N	9-15	38.5	2.0	61.4*	--	--	--	--
Stine 4402-4 [@]	9-16	47.0	2.5	61.3*	--	--	--	--
Excel 6431N	9-15	47.0	2.8	59.2*	--	--	--	--
Mustang	9-17	45.5	2.5	57.6*	50.3	52.1	54.0	53.3
Garst D445N	9-15	40.5	2.0	57.0*	--	--	--	--
Midland 9A420N	9-15	37.8	2.8	56.1*	--	--	--	--
Lewis 4029 RR [@]	9-14	42.0	2.0	55.6*	--	--	--	--
Advanced Gen. AG4012RR [@]	9-14	42.5	2.3	53.6	--	--	--	--
Morsoy 4067 SCN	9-15	43.5	2.3	52.9	59.2*	52.3	56.1	54.8
Stine 4212-4 [@]	9-14	42.0	2.3	52.5	--	--	--	--
Stine 4802-4 [@]	9-17	44.8	2.5	52.1	--	--	--	--
Excel 8410NRR [@]	9-15	42.3	2.3	51.8	--	--	--	--
Vigoro V410SCN	9-15	45.0	2.0	49.9	--	--	--	--
Dyna-Gro 3438N	9-14	44.8	3.3	47.7	--	51.5	--	--
GROUP 4 AVERAGE	9-15	43.0	2.4	55.8	54.3	52.9	55.1	54.4
L.S.D. AT .10	1	3.1	0.5	7.8	4.7	4.7		
C.V. %	0.3	6.1		11.7	7.3	6.5		
TRIAL AVERAGE		43.3	2.6	53.8	54.2	51.6	54.0	53.2

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 34. Performance of SCN Resistant Soybean Varieties evaluated near Columbia on the Agronomy Research Center (Boone County) in 1998-2000.

Planted: 26 April 2000
 Harvested: 29 September 2000
 Planted Population: 156,800
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.6, OM=1.9%, P=58, K=285

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Basagran, Poast+
 Irrigation: None
 Previous Crop: Soybean
 Tillage: Conventional

Cyst Nematode Population at Planting: 14,200 Eggs/250 cc of soil
 Growing Season Rainfall: May=5.0, June=7.8, July=4.8, Aug.12.1, Sept.=2.6 TOTAL=32.3 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Morsoy 3709N	9-12	39.3	1.5	52.4**	--	--	--	--
Maverick	9-10	40.5	4.0	48.6*	31.8	49.6	40.2	43.3
Reeds Brand 355 SCN	9-12	39.8	3.0	45.3	31.1	52.5	38.2	43.0
SS94-4337#	9-08	41.5	3.5	45.2	--	--	--	--
Dyna-Gro DG 3386NSTS	9-10	40.8	3.8	45.2	--	--	--	--
Excel 8382NRR@	9-11	39.3	3.8	43.9	34.8*	--	39.4	--
Saline	9-12	43.5	3.8	41.3	32.6	43.5	37.0	39.1
Excel 8341NRR@	9-08	38.5	5.0	41.1	--	--	--	--
Advanced Gen. AG3944RR@	9-10	39.3	3.0	40.4	--	--	--	--
Williams 82###	9-13	40.8	2.8	32.8	19.5	38.2	26.2	30.2
GROUP 3 AVERAGE	9-11	40.3	3.4	43.6	30.7	49.7	37.2	41.3
L.S.D. AT .10	1	NS	0.8	5.2	2.9	4.5		
C.V. %	0.4	5.4		10.0	7.7	6.5		
MATURITY GROUP 4								
Midland 9A420N	9-14	34.5	1.8	53.8**	--	--	--	--
Mycogen 5420N	9-13	37.3	1.8	51.7*	--	--	--	--
Excel 6431N	9-15	43.0	2.5	51.5*	--	--	--	--
Garst D445N	9-12	36.8	2.3	50.2*	--	--	--	--
Morsoy 4067 SCN	9-10	39.0	3.3	48.7*	37.2	51.3	43.0	45.7
Dyna-Gro 3438N	9-11	39.3	4.5	48.1*	--	51.7	--	--
Stine 4402-4@	9-15	42.3	3.5	47.3*	--	--	--	--
Advanced Gen. AG4012RR@	9-12	38.8	3.0	46.9*	--	--	--	--
Stine 4802-4@	9-19	40.5	2.3	46.4	--	--	--	--
Morsoy 4426 SCN	9-13	38.0	2.8	45.3	39.5*	51.1	42.4	45.3
Morsoy 4477 SCN	9-15	38.3	3.0	44.7	36.8	53.3	40.8	44.9
Excel 8410NRR@	9-15	38.5	3.8	41.8	--	--	--	--
Mustang	9-15	41.3	2.5	41.6	34.6	49.8	38.1	42.0
Lewis 4029 RR@	9-11	38.0	2.8	41.4	--	--	--	--
Stine 4212-4@	9-12	38.0	2.5	40.3	--	--	--	--
Vigoro V410SCN	9-12	41.3	3.0	38.4	--	--	--	--
GROUP 4 AVERAGE	9-13	39.0	2.8	46.1	34.3	49.3	40.2	43.2
L.S.D. AT .10	1	3.0	0.9	7.0	3.8	4.4		
C.V. %	0.4	6.4		12.7	9.4	6.5		
TRIAL AVERAGE		39.5	3.1	45.2	33.1	49.5	39.2	42.6

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 35. Performance of SCN Resistant Soybean Varieties evaluated near Winfield (Lincoln County) on the Stan Rolf Farm during 1999-2000.

Planted: 26 April 2000
 Harvested: 11 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Carlo Silty Clay Loam
 Soil Test: pH=6.5, OM=2.5%, P=58, K=312

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Detail, Lexone, Roundup Ultra
 Post: Galaxy, Fusion, Blazer Ultra, Select
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 560 Eggs/250cc of soil

Growing Season Rainfall: May=6.2, June=9.8, July=3.2, Aug.=4.6, Sept.=2.4 TOTAL=26.2 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Maverick	9-12	44.5	2.5	68.9**	35.6	--	52.3	--
Advanced Gen. AG3944RR@	9-10	44.0	2.3	67.6*	--	--	--	--
Morsoy 3709N	9-10	41.5	2.3	66.2*	--	--	--	--
Dyna-Gro DG 3386NSTS	9-11	42.8	2.5	65.3*	--	--	--	--
Excel 8382NRR@	9-11	41.3	3.5	63.6*	34.6	--	49.1	--
Williams 82###	9-09	42.3	2.8	61.9	33.7	--	47.8	--
Reeds Brand 355 SCN	9-11	41.0	3.3	60.8	38.4	--	49.6	--
Excel 8341NRR@	9-07	39.8	4.0	60.7	--	--	--	--
Saline	9-11	39.3	3.0	60.6	34.1	--	47.4	--
SS94-4337#	9-09	42.3	3.3	59.9	--	--	--	--
GROUP 3 AVERAGE	9-10	41.9	3.0	63.6	36.2	--	49.9	--
L.S.D. AT .10	1	NS	0.7	5.3	3.1			
C.V. %	0.4	6.2		7.1	7.1			
MATURITY GROUP 4								
Midland 9A420N	9-14	38.8	2.0	76.1**	--	--	--	--
Excel 6431N	9-15	41.8	2.3	74.0*	--	--	--	--
Mycogen 5420N	9-13	39.3	2.0	73.6*	--	--	--	--
Garst D445N	9-14	38.8	2.5	73.1*	--	--	--	--
Lewis 4029 RR@	9-12	44.3	2.0	68.0	--	--	--	--
Advanced Gen. AG4012RR@	9-11	40.3	2.0	66.3	--	--	--	--
Morsoy 4477 SCN	9-14	42.0	1.8	66.3	41.5	--	53.9	--
Stine 4402-4@	9-13	42.8	3.0	66.1	--	--	--	--
Dyna-Gro 3438N	9-11	42.5	4.0	64.5	--	--	--	--
Morsoy 4067 SCN	9-11	41.3	2.5	64.2	42.1	--	53.2	--
Excel 8410NRR@	9-14	39.5	2.8	63.9	--	--	--	--
Vigoro V410SCN	9-12	44.0	2.3	63.9	--	--	--	--
Stine 4212-4@	9-12	41.3	2.3	63.6	--	--	--	--
Morsoy 4426 SCN	9-14	40.8	2.0	60.5	43.5*	--	52.0	--
Mustang	9-14	42.5	2.3	60.4	39.5	--	50.0	--
Stine 4802-4@	9-15	43.0	1.8	56.2	--	--	--	--
GROUP 4 AVERAGE	9-13	41.4	2.4	66.3	39.6	--	53.0	--
L.S.D. AT .10	1	3.0	0.6	5.3	4.1			
C.V. %	0.4	6.0		6.7	8.7			
TRIAL AVERAGE		41.6	2.6	65.3	38.5		51.9	

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

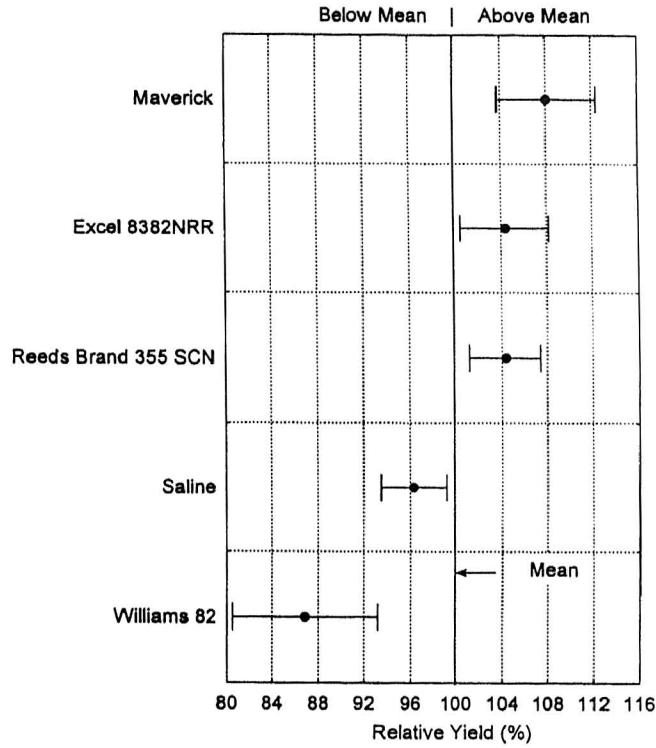
TABLE 36. Yield Summary for SCN Resistant Soybean Varieties evaluated at four Central Missouri Locations (Henrietta, Marshall, Columbia and Winfield) during 2000.

Brand-Variety	Lodging Score (1-5)					Yield (Bu/Acre)				
	Henrie	Marshl	Colmb	Winfld	Mean	Henrie	Marshl	Colmb	Winfld	Mean
MATURITY GROUP 3										
Maverick	2.8	3.0	4.0	2.5	3.1	38.3**	56.4*	48.6*	68.9**	53.0**
Morsoy 3709N	1.5	2.3	1.5	2.3	1.9	32.8	53.1*	52.4**	66.2*	51.1*
Advanced Gen. AG3944RR@	2.0	2.0	3.0	2.3	2.3	36.7*	56.5**	40.4	67.6*	50.3*
Dyna-Gro DG 3386NSTS	2.3	2.5	3.8	2.5	2.8	34.6	54.2*	45.2	65.3*	49.8
Reeds Brand 355 SCN	2.8	2.8	3.0	3.3	3.0	31.9	54.7*	45.3	60.8	48.2
SS94-4337#	3.5	2.5	3.5	3.3	3.2	35.3*	51.5*	45.2	59.9	48.0
Excel 8382NRR@	3.5	3.8	3.8	3.5	3.6	28.5	54.4*	43.9	63.6	47.6
Excel 8341NRR@	2.8	3.8	5.0	4.0	3.9	32.8	47.9	41.1	60.7	45.6
Saline	2.5	3.5	3.8	3.0	3.2	29.7	42.3	41.3	60.6	43.5
Williams 82###	1.5	2.5	2.8	2.8	2.4	32.7	33.7	32.8	61.9	40.3
GROUP 3 AVERAGE	2.5	2.9	3.4	3.0	3.0	33.3	50.5	43.6	63.6	47.8
L.S.D. AT .10	0.9	0.8	0.8	0.7	0.4	3.5	8.1	5.2	5.3	2.8
C.V.%						8.9	14.0	10.0	7.1	10.1
MATURITY GROUP 4										
Midland 9A420N	1.3	2.8	1.8	2.0	2.0	42.6**	56.1*	53.8**	76.1**	57.1**
Mycogen 5420N	1.0	2.0	1.8	2.0	1.7	41.3*	61.4*	51.7*	73.6*	57.0*
Garst D445N	1.0	2.0	2.3	2.5	1.9	42.2*	57.0*	50.2*	73.1*	55.6*
Excel 6431N	2.0	2.8	2.5	2.3	2.4	34.4	59.2*	51.5*	74.0*	54.8*
Stine 4402-4@	1.5	2.5	3.5	3.0	2.6	33.4	61.3*	47.3*	66.1	52.0
Morsoy 4477 SCN	2.0	2.0	3.0	1.8	2.2	32.8	62.7**	44.7	66.3	51.6
Morsoy 4426 SCN	1.0	2.0	2.8	2.0	1.9	36.8	62.2*	45.3	60.5	51.2
Lewis 4029 RR@	1.0	2.0	2.8	2.0	1.9	38.4*	55.6*	41.4	68.0	50.8
Advanced Gen. AG4012RR@	1.5	2.3	3.0	2.0	2.2	36.0	53.6	46.9*	66.3	50.7
Morsoy 4067 SCN	1.8	2.3	3.3	2.5	2.5	31.1	52.9	48.7*	64.2	49.2
Stine 4212-4@	1.0	2.3	2.5	2.3	2.0	35.7	52.5	40.3	63.6	48.0
Dyna-Gro 3438N	2.0	3.3	4.5	4.0	3.4	31.7	47.7	48.1*	64.5	48.0
Stine 4802-4@	1.8	2.5	2.3	1.8	2.1	33.6	52.1	46.4	56.2	47.1
Vigoro V410SCN	2.0	2.0	3.0	2.3	2.3	33.5	49.9	38.4	63.9	46.4
Excel 8410NRR@	2.3	2.3	3.8	2.8	2.8	28.1	51.8	41.8	63.9	46.4
Mustang	1.3	2.5	2.5	2.3	2.1	24.4	57.6*	41.6	60.4	46.0
GROUP 4 AVERAGE	1.5	2.4	2.8	2.4	2.3	34.8	55.8	46.1	66.3	50.8
L.S.D. AT .10	0.7	0.5	0.9	0.6	0.8	4.4	7.8	7.0	5.3	3.1
C.V.%						10.6	11.7	12.7	6.7	10.3
TRIAL AVERAGE	1.9	2.6	3.1	2.6	2.5	34.2	53.8	45.2	65.3	49.6

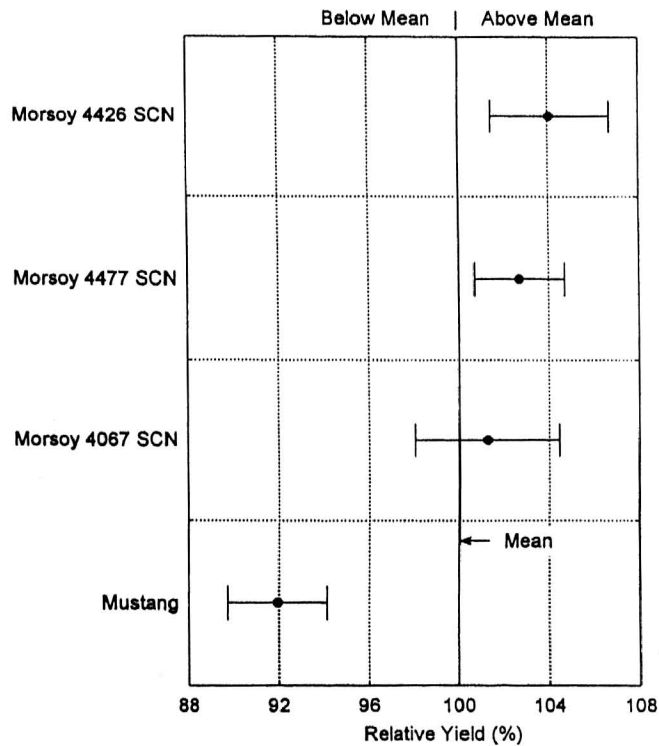
Susceptible check variety.
Experimental variety.
@ Roundup ready variety.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.

Figure 6. Graphic Summary of Two-year (99/2000) Results of SCN Resistant Soybean Varieties at Four Central Missouri Locations.

MG III



MG IV



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 37. Performance of SCN Resistant Soybean Varieties evaluated near Garden City (Cass County) on the Bill Cook Farm during 2000 and near Clinton (Henry County) on the Bill Kinyon Farm during 1998-99.

Planted: 2 May 2000
 Harvested: 21 Sept., 10 Oct. 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Kenoma Silt Loam
 Soil Test: pH=5.4, OM=2.8%, P=50, K=397

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone, Roundup Ultra
 Post: Select, Reflex
 Irrigation: None
 Previous Crop: Soybean
 Tillage: Conventional

Cyst Nematode Population at Planting: 1680 Eggs/250cc of soil

Growing Season Rainfall: May=3.9, June=7.0, July=2.6, Aug.=1.1, Sept.=3.4 TOTAL=18.0 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Dyna-Gro 3438N	9-06	35.0	1.8	38.9**	--	49.9*	--	--
Dyna-Gro UAPX 336	9-04	33.0	1.0	38.3*	--	--	--	--
Morsoy 4477 SCN	9-07	36.3	1.0	36.3*	28.6	49.4*	32.5	38.1
Morsoy 4426 SCN	9-06	35.0	1.3	32.6	30.0	49.8*	31.3	37.5
Stine 4402-4@	9-07	39.3	2.3	32.3	--	--	--	--
Dyna-Gro DG 3386NSTS##	9-02	41.0	1.0	32.1	--	--	--	--
Midland 8475	9-09	36.8	1.0	30.9	30.7*	45.0	30.8	35.5
Stine 4802-4@	9-13	39.8	1.5	30.1	--	--	--	--
Stine 4702-2	9-11	41.5	1.5	27.9	31.8*	--	29.9	--
Stine 4302-2	9-09	32.3	1.5	25.3	--	--	--	--
Delsoy 4710	9-08	43.3	2.8	24.5	26.1	38.2	25.3	29.6
Manokin	9-20	36.8	1.8	18.9	30.5*	36.2	24.7	28.5
GROUP 4 AVERAGE	9-08	37.5	1.5	30.7	28.8	44.9	29.8	34.8
L.S.D. AT .10	1	3.7	0.6	3.6	2.3	3.9		
C.V. %	0.5	8.3		10.1	6.9	6.4		
MATURITY GROUP 5								
Delsoy 5500	9-23	37.3	1.0	21.8**	20.6*	40.1	21.2	27.5
Anand	9-18	33.5	1.0	21.7*	19.9*	41.8	20.8	27.8
Morsoy 5108N	9-18	44.5	1.5	19.7*	--	--	--	--
Hutcheson###	9-24	39.3	2.0	18.6	17.7	35.0	18.2	23.8
Delsoy 5710	9-25	41.5	2.0	17.6	14.7	47.8**	16.2	26.7
GROUP 5 AVERAGE	9-22	39.2	1.5	19.9	19.3	41.9	19.6	27.0
L.S.D. AT .10	4	2.7	0.6	2.1	2.8	2.7		
C.V. %	1.3	5.5		8.2	11.9	4.7		
TRIAL AVERAGE		38.0	1.5	27.5	26.6	44.2	27.1	32.8

Susceptible check variety.
 ## Maturity group III soybean variety entered in the maturity group IV test.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

TABLE 38. Performance of SCN Resistant Soybean Varieties evaluated near Nevada (Vernon County) on the Morris Klotz Farm during 1998-2000.

Planted: 3 May 2000
 Harvested: 20 Sept., 9 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.1, OM=2.6%, P=56, K=211

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Frontier, Defail, Lexone
 Post: Galaxy, Storm, Poast
 Irrigation: None
 Previous Crop: Soybean
 Tillage: Conventional

Cyst Nematode Population at Planting: 4760 Eggs/250cc of soil

Growing Season Rainfall: May=2.6, June=8.0, July=3.8, Aug.=0.2, Sept.=1.0 TOTAL=15.6 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Dyna-Gro UAPX 336	9-01	33.5	1.3	26.2**	--	--	--	--
Dyna-Gro 3438N	9-03	36.0	2.8	25.0*	--	39.5*	--	--
Morsoy 4477 SCN	9-05	35.0	1.0	23.3*	45.5*	40.3*	34.4	36.4
Dyna-Gro DG 3386NSTS##	8-29	41.0	2.0	23.2*	--	--	--	--
Manokin	9-21	34.5	1.0	20.1	42.5	31.4	31.3	31.3
Morsoy 4426 SCN	9-06	33.0	1.0	20.0	42.2	42.0*	31.1	34.7
Stine 4802-4@	9-09	35.3	1.3	19.2	--	--	--	--
Stine 4402-4@	9-06	37.3	2.5	18.8	--	--	--	--
Midland 8475	9-07	37.0	1.0	18.5	44.9*	39.4*	31.7	34.3
Stine 4702-2	9-05	38.8	1.8	17.6	45.7*	--	31.7	--
Stine 4302-2	9-06	31.3	1.0	12.6	--	--	--	--
Delsoy 4710	9-06	41.5	2.8	11.7	41.9	29.9	26.8	27.8
GROUP 4 AVERAGE	9-06	36.2	1.6	19.7	42.6	37.4	31.2	33.2
L.S.D. AT .10	2	2.6	0.4	4.0	3.8	4.3		
C.V. %	0.5	5.9		17.0	7.5	8.5		
MATURITY GROUP 5								
Delsoy 5710	9-28	43.0	2.0	12.8**	40.3	38.8**	26.6	30.6
Anand	9-18	29.0	1.0	12.3*	45.9**	35.2*	29.1	31.1
Hutcheson###	9-25	33.3	1.5	12.0*	33.1	32.3	22.6	25.8
Delsoy 5500	9-25	33.5	1.0	11.8*	39.3	35.6*	25.6	28.9
Morsoy 5108N	9-19	38.8	2.0	8.3	--	--	--	--
GROUP 5 AVERAGE	9-23	35.5	1.5	11.4	38.8	35.3	25.1	28.5
L.S.D. AT .10	1	2.5	0.4	2.5	3.0	3.9		
C.V. %	0.3	5.7		17.3	6.4	8.0		
TRIAL AVERAGE		36.0	1.6	17.2	41.8	36.9	29.5	32.0

- ### Susceptible check variety.
- ## Maturity group III soybean variety entered in the maturity group IV test.
- @ Roundup ready variety.
- Data not available.
- ** Highest yielding variety in the maturity group.
- * Yield not significantly less than the highest yielding variety in the maturity group.

TABLE 39. Performance of SCN Resistant Soybean Varieties evaluated near Lamar (Barton County) on the Ron Bean Farm during 1998-2000.

Planted: 4 May 2000
 Harvested: 19 Sept., 9 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.1, OM=2.0%, P=142, K=543

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Frontier, Lexone, Roundup Ultra
 Post: Storm, Fusion, Blazer Ultra, Poast
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 3220 Eggs/250cc of soil

Growing Season Rainfall: May=5.1, June=7.9, July=6.8, Aug.=0.0, Sept.=3.3 TOTAL=23.1 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Dyna-Gro UAPX 336	8-30	33.5	1.5	27.5**	--	--	--	--
Dyna-Gro DG 3386NSTS##	8-29	37.3	1.8	25.6*	--	--	--	--
Dyna-Gro 3438N	9-01	32.0	1.5	24.9*	--	41.3*	--	--
Morsoy 4477 SCN	9-01	34.0	1.5	22.8	34.0	39.1*	28.4	32.0
Morsoy 4426 SCN	9-01	31.5	1.3	22.3	32.8	36.1	27.6	30.4
Stine 4402-4@	9-01	37.8	2.8	21.1	--	--	--	--
Midland 8475	9-04	36.0	1.5	20.4	36.1*	35.2	28.3	30.6
Stine 4302-2	9-02	31.5	1.8	15.2	--	--	--	--
Stine 4702-2	9-02	37.5	2.3	14.7	33.2	--	24.0	--
Stine 4802-4@	9-04	36.0	1.8	14.6	--	--	--	--
Delsoy 4710	9-04	40.3	3.5	11.7	30.2	24.2	21.0	22.0
Manokin	9-18	33.8	2.5	9.6	39.3**	28.9	24.5	25.9
GROUP 4 AVERAGE	9-03	35.1	2.0	19.2	30.6	36.3	24.9	28.7
L.S.D. AT .10	2	2.8	0.7	3.3	3.5	4.8		
C.V. %	0.6	6.8		15.3	9.7	9.8		
MATURITY GROUP 5								
Delsoy 5710	9-27	39.3	2.5	12.5**	44.7**	36.8**	28.6	31.3
Delsoy 5500	9-23	34.5	1.0	11.4*	41.9*	29.8	26.7	27.7
Hutcheson###	9-21	33.3	2.8	8.3	39.8	28.2	24.1	25.4
Anand	9-17	31.8	1.8	6.9	40.8	26.8	23.9	24.8
Morsoy 5108N	9-16	34.5	3.8	6.6	--	--	--	--
GROUP 5 AVERAGE	9-21	34.7	2.4	9.1	41.6	29.4	25.4	26.7
L.S.D. AT .10	2	1.1	0.7	4.0	3.7	5.9		
C.V. %	0.6	2.7		34.4	7.5	14.3		
TRIAL AVERAGE		35.0	2.1	16.2	32.2	34.7	24.6	28.0

Susceptible check variety.
 ## Maturity group III soybean variety entered in the maturity group IV test.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

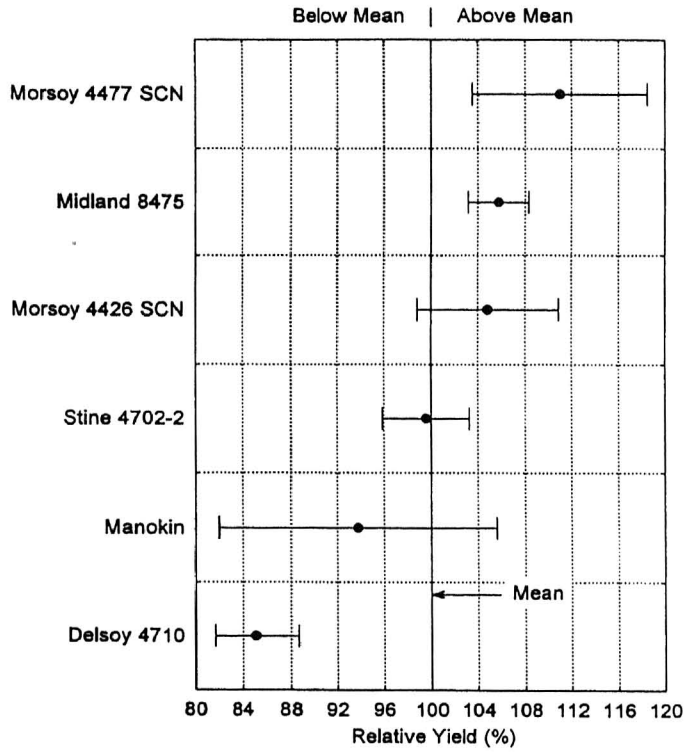
TABLE 40. Yield Summary for SCN Resistant Soybean Varieties evaluated at three Southwest Missouri locations (Garden City, Nevada, and Lamar) during 2000.

Brand-Variety	<u>Garden City</u>				<u>Nevada</u>				<u>Lamar</u>			
	Planted: 2 May 2000				Planted: 3 May 2000				Planted: 4 May 2000			
	Harvested: 21 Sept., 10 Oct. 2000				Harvested: 20 Sept., 9 Oct. 2000				Harvested: 19 Sept., 9 Oct. 2000			
	Growing Season Rainfall: 18.0"				Growing Season Rainfall: 15.6"				Growing Season Rainfall: 23.1"			
	Lodging Score (1-5)				Yield (Bu/Acre)							
	G.City	Nevada	Lamar	Mean	G.City	Nevada	Lamar	Mean				
MATURITY GROUP 4												
Dyna-Gro UAPX 336	1.0	1.3	1.5	1.3	38.3*	26.2**	27.5**	30.7**				
Dyna-Gro 3438N	1.8	2.8	1.5	2.0	38.9**	25.0*	24.9*	29.6*				
Morsoy 4477 SCN	1.0	1.0	1.5	1.2	36.3*	23.3*	22.8	27.5				
Dyna-Gro DG 3386NSTS##	1.0	2.0	1.8	1.6	32.1	23.2*	25.6*	27.0				
Morsoy 4426 SCN	1.3	1.0	1.3	1.2	32.6	20.0	22.3	25.0				
Stine 4402-4@	2.3	2.5	2.8	2.5	32.3	18.8	21.1	24.1				
Midland 8475	1.0	1.0	1.5	1.2	30.9	18.5	20.4	23.3				
Stine 4802-4@	1.5	1.3	1.8	1.5	30.1	19.2	14.6	21.3				
Stine 4702-2	1.5	1.8	2.3	1.9	27.9	17.6	14.7	20.1				
Stine 4302-2	1.5	1.0	1.8	1.4	25.3	12.6	15.2	17.7				
Manokin	1.8	1.0	2.5	1.8	18.9	20.1	9.6	16.2				
Delsoy 4710	2.8	2.8	3.5	3.0	24.5	11.7	11.7	16.0				
GROUP 4 AVERAGE	1.5	1.6	2.0	1.7	30.7	19.7	19.2	23.2				
L.S.D. AT .10	0.6	0.4	0.7	0.2	3.6	4.0	3.3	2.0				
C.V.%					10.1	17.0	15.3	13.1				
MATURITY GROUP 5												
Delsoy 5500	1.0	1.0	1.0	1.0	21.8**	11.8*	11.4*	15.0**				
Delsoy 5710	2.0	2.0	2.5	2.2	17.6	12.8**	12.5**	14.3*				
Anand	1.0	1.0	1.8	1.3	21.7*	12.3*	6.9	13.6*				
Hutcheson###	2.0	1.5	2.8	2.1	18.6	12.0*	8.3	13.0				
Morsoy 5108N	1.5	2.0	3.8	2.4	19.7*	8.3	6.6	11.5				
GROUP 5 AVERAGE	1.5	1.5	2.4	1.8	19.9	11.4	9.1	13.5				
L.S.D. AT .10	0.6	0.4	0.7	0.3	2.1	2.5	4.0	1.7				
C.V.%					8.2	17.3	34.4	18.2				
TRIAL AVERAGE	1.5	1.6	2.1	1.7	27.5	17.2	16.2	20.3				

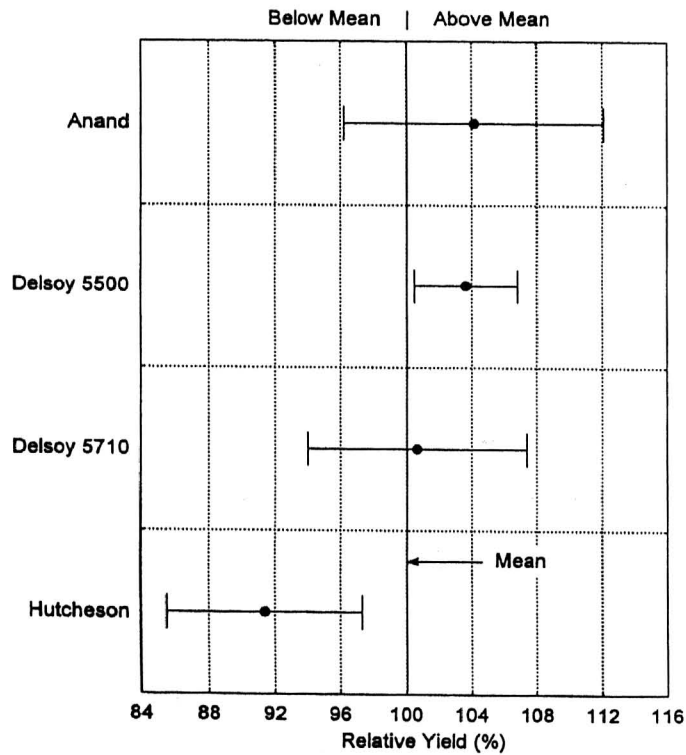
Susceptible check variety.
 ## Maturity group III soybean variety entered in the maturity group IV test.
 @ Roundup ready variety.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

Figure 7. Graphic Summary of Two-year (99/2000) Results of SCN Resistant Soybean Varieties at Three Southwest Missouri Locations.

MG IV



MG V



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 41. Performance of SCN Resistant Soybean Varieties evaluated near Bertrand (Mississippi County) on the Arington Farms during 1998-2000.

Planted: 24 May 2000
 Harvested: 19 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Clana Loamy Fine Sand
 Soil Test: pH=5.9, OM=0.8%, P=121, K=258

Fertilizer: N=0; P₂O₅=0; K₂O=125
 Herbicide: Pre: Squadron
 Post: Reflex, Fusion, Select
 Irrigation: 10.0 inches
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1820 Eggs/250cc of soil

Growing Season Rainfall: May=7.6, June=3.0, July=3.4, Aug.=2.8, Sept.=3.4 TOTAL=20.2 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Manokin	9-27	28.0	1.0	26.2**	39.3	39.8**	32.8	35.1
Excel 8410NRR@	9-18	24.5	1.0	26.2**	--	--	--	--
Morsoy 4759N	9-17	25.5	1.3	21.7*	47.3**	--	34.5	--
Morsoy 4426 SCN	9-20	26.8	1.0	16.6	36.1	--	26.4	--
FFR HT 4985	9-22	26.0	1.0	14.4	--	--	--	--
Morsoy 4477 SCN	9-19	25.0	1.0	13.7	43.9	31.2	28.8	29.6
Stine 4802-4@	9-20	29.5	1.0	13.1	--	--	--	--
Delsoy 4710	9-20	28.8	1.0	12.8	31.7	29.3	22.3	24.6
Stine 4402-4@	9-18	25.0	1.0	10.8	--	--	--	--
Pioneer variety 9492@	9-20	22.3	1.0	8.4	--	--	--	--
GROUP 4 AVERAGE	9-20	26.1	1.0	16.4	39.6	29.2	28.0	28.4
L.S.D. AT .10	2	3.8	0.2	7.4	NS	6.4		
C.V. %	0.6	12.3		38.8	25.7	18.4		
MATURITY GROUP 5								
S96-2692#	10-04	35.0	1.5	46.5**	--	--	--	--
S94-1867#	10-07	39.8	2.5	43.7*	--	--	--	--
Delsoy 5710	10-07	36.3	1.5	41.0*	27.2	43.5	34.1	37.2
S96-2641#	10-05	29.8	1.3	37.0	--	--	--	--
Anand	9-30	27.0	1.0	33.8	39.1**	43.0	36.5	38.6
Pioneer variety 95B33	9-30	34.3	1.0	33.8	33.5	44.8	33.7	37.4
S97-1688#	10-03	32.3	1.8	32.3	--	--	--	--
Morsoy 5108N	9-24	32.8	1.8	30.1	--	--	--	--
Delsoy 5500	10-03	28.3	1.8	29.9	29.3	45.9**	29.6	35.0
S96-3418#	10-04	30.5	1.8	29.0	--	--	--	--
Morsoy 5389N	9-23	26.0	1.0	27.6	32.6	--	30.1	--
Pioneer variety 95B32@	9-27	26.5	1.5	27.2	--	--	--	--
Pioneer variety 95B53@	10-03	27.8	1.0	22.3	--	--	--	--
Hutcheson###	9-29	25.8	1.3	21.8	30.2	41.5	26.0	31.2
FFR RT 557@	9-25	30.0	2.0	12.9	--	--	--	--
GROUP 5 AVERAGE	10-01	30.8	1.5	31.3	32.2	41.0	31.8	34.8
L.S.D. AT .10	5	3.7	NS	5.8	NS	NS		
C.V. %	1.6	10.1		15.6	21.7	17.6		
TRIAL AVERAGE		28.9	1.3	25.3	36.6	33.8	31.0	31.9

Susceptible check variety.

Experimental variety.

@ Roundup ready variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 42. Performance of SCN Resistant Soybean Varieties evaluated near Dexter (Stoddard County) on the Boyers Farms during 1998-2000.

Planted: 1 June 2000
 Harvested: 18 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Bosket Fine Sandy Loam
 Soil Test: pH=5.9, OM=2.0%, P=109, K=360

Fertilizer: N=25; P₂O₅=45; K₂O=60
 Herbicide: Pre: Squadron
 Post: Reflex, Fusion, Storm, Select
 Irrigation: None
 Previous Crop: Soybean
 Tillage: Conventional

Cyst Nematode Population at Planting: 1120 Eggs/250cc of soil

Growing Season Rainfall: May=7.2, June=3.4, July=3.8, Aug.=2.2, Sept.=2.2 TOTAL=18.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Morsoy 4477 SCN	9-20	36.5	1.0	40.6**	8.5	44.2*	24.6	31.1
Morsoy 4426 SCN	9-19	37.8	1.0	39.4*	10.6	--	25.0	--
Stine 4402-4@	9-19	40.0	2.5	39.4*	--	--	--	--
Excel 8410NRR@	9-19	40.0	1.3	39.1*	--	--	--	--
Stine 4802-4@	9-20	41.3	1.5	37.8*	--	--	--	--
Manokin	9-27	38.3	3.3	36.7	10.4	40.9	23.6	29.3
Pioneer variety 9492@	9-19	38.3	1.0	36.7	--	--	--	--
FFR HT 4985	9-26	39.3	3.8	35.7	--	--	--	--
Morsoy 4759N	9-19	36.3	1.0	34.3	10.8	--	22.6	--
Delsoy 4710	9-20	45.5	4.0	28.7	5.9	42.1	17.3	25.6
GROUP 4 AVERAGE	9-21	39.3	2.0	36.8	9.6	42.4	23.2	29.6
L.S.D. AT .10	2	3.7	1.0	3.8	2.2	7.9		
C.V. %	0.7	8.0		8.6	19.1	15.7		
MATURITY GROUP 5								
FFR RT 557@	10-02	43.3	1.3	34.9**	--	--	--	--
Anand	9-27	34.3	1.8	33.9*	13.3	45.3*	23.6	30.8
Morsoy 5389N	9-27	31.8	1.0	33.3*	13.9	--	23.6	--
Hutcheson###	10-03	34.0	1.0	33.1*	13.7	34.6	23.4	27.1
Delsoy 5500	9-30	36.0	1.5	32.9*	13.7	38.8	23.3	28.5
S96-2692#	9-30	36.3	1.8	32.8*	--	--	--	--
Morsoy 5108N	9-28	38.8	1.3	32.7*	--	--	--	--
Pioneer variety 95B32@	9-28	35.0	1.0	32.5*	--	--	--	--
S96-2641#	10-04	35.3	1.0	31.8*	--	--	--	--
S97-1688#	9-24	38.5	2.0	30.6*	--	--	--	--
S94-1867#	10-06	43.0	3.3	29.7*	--	--	--	--
Pioneer variety 95B33	9-28	34.8	1.0	27.8	14.7	46.8**	21.3	29.8
Pioneer variety 95B53@	9-30	34.5	1.0	24.1	--	--	--	--
Delsoy 5710	10-07	41.3	3.0	23.9	15.1**	37.5	19.5	25.5
S96-3418#	10-08	36.5	2.0	23.1	--	--	--	--
GROUP 5 AVERAGE	10-01	36.9	1.6	30.5	13.8	38.3	22.2	27.5
L.S.D. AT .10	4	3.1	0.8	5.8	NS	5.1		
C.V. %	1.4	7.0		16.3	22.0	11.1		
TRIAL AVERAGE		37.9	1.8	33.0	11.3	40.8	22.2	28.4

Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 43. Performance of SCN Resistant Soybean Varieties evaluated near Clarkton (Dunklin County) on the Delta Research Center Rhodes Farm during 1998-2000.

Planted: 31 May 2000
 Harvested: 19 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Bosket Fine Sandy Loam
 Soil Test: pH=6.0, OM=0.6%, P=117, K=255

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Prowl, Scepter
 Post: Storm
 Irrigation: 7.0 inches
 Previous Crop: Soybean
 Tillage: Conventional

Cyst Nematode Population at Planting: 2800 Eggs/250cc of soil

Growing Season Rainfall: May=7.9, June=4.2, July=2.3, Aug.=0.9, Sept.=1.2 TOTAL=16.5 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
FFR HT 4985	9-24	29.5	1.0	33.4**	--	--	--	--
Stine 4402-4@	9-12	35.0	1.0	31.9*	--	--	--	--
Pioneer variety 9492@	9-11	26.8	1.0	30.4*	--	--	--	--
Morsoy 4477 SCN	9-11	33.0	1.0	29.4	17.9	35.3*	23.7	27.5
Stine 4802-4@	9-22	37.8	1.0	29.0	--	--	--	--
Excel 8410NRR@	9-10	30.5	1.3	28.9	--	--	--	--
Morsoy 4426 SCN	9-10	26.8	1.0	27.8	20.6*	--	24.2	--
Manokin	9-24	27.5	1.0	27.3	15.9	30.3	21.6	24.5
Morsoy 4759N	9-12	24.3	1.3	25.3	19.9*	--	22.6	--
Delsoy 4710	9-20	33.0	1.3	21.4	15.7	35.3*	18.6	24.1
GROUP 4 AVERAGE	9-16	30.4	1.1	28.5	17.3	33.0	22.9	26.2
L.S.D. AT .10	2	5.3	0.3	3.3	2.5	5.8		
C.V. %	0.6	15.0		9.9	12.4	14.9		
MATURITY GROUP 5								
S97-1688#	9-30	36.3	1.3	32.8**	--	--	--	--
S94-1867#	10-05	40.5	2.0	32.0*	--	--	--	--
S96-2641#	10-02	34.0	1.0	31.1*	--	--	--	--
S96-3418#	10-06	34.0	1.0	30.7*	--	--	--	--
Delsoy 5500	9-28	32.0	1.0	30.5*	17.6*	39.9*	24.1	29.3
Morsoy 5108N	9-27	35.5	1.0	29.9*	--	--	--	--
Pioneer variety 95B32@	9-25	32.5	1.0	29.6*	--	--	--	--
Anand	9-29	31.3	1.0	29.1*	18.0*	43.7**	23.6	30.3
S96-2692#	9-29	35.0	1.3	29.1*	--	--	--	--
Pioneer variety 95B53@	9-28	33.3	1.0	29.0*	--	--	--	--
Morsoy 5389N	9-23	26.8	1.0	28.8*	14.1	--	21.5	--
FFR RT 557@	9-28	36.8	1.3	28.3	--	--	--	--
Delsoy 5710	10-08	37.8	1.5	28.1	14.1	36.8	21.1	26.3
Hutcheson###	9-29	33.8	1.0	24.5	15.5	35.2	20.0	25.1
Pioneer variety 95B33	9-23	34.8	1.0	21.2	19.0**	40.1*	20.1	26.8
GROUP 5 AVERAGE	9-29	34.3	1.2	29.0	16.1	37.3	22.6	27.5
L.S.D. AT .10	1	3.3	0.5	4.0	2.6	6.6		
C.V. %	0.4	8.3		11.6	13.0	15.3		
TRIAL AVERAGE								
		32.7	1.1	28.8	16.8	34.6	22.8	26.7

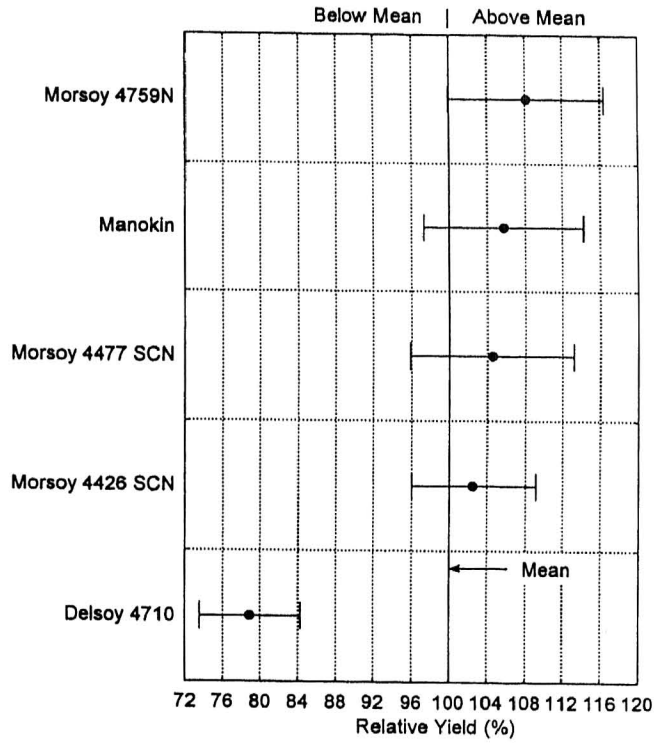
Susceptible check variety.
 # Experimental variety.
 @ Roundup ready variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.

TABLE 44. Yield Summary for SCN Resistant Soybean Varieties evaluated at three Southeastern Missouri Locations (Bertrand, Dexter, and Clarkton) during 2000.

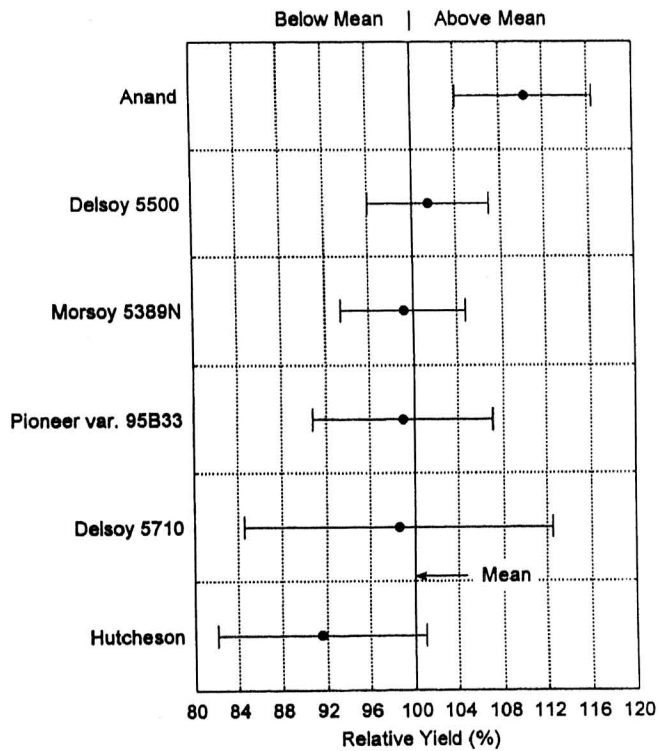
Brand-Variety	Bertrand				Dexter				Clarkton			
	Planted: 24 May 2000 Harvested: 19 October 2000 Growing Season Rainfall: 20.2"				Planted: 1 June 2000 Harvested: 18 October 2000 Growing Season Rainfall: 18.8"				Planted: 31 May 2000 Harvested: 19 October 2000 Growing Season Rainfall: 16.5"			
	Lodging Score (1-5)				Yield (Bu/Acre)							
	Bertrd	Dexter	Clarktn	Mean	Bertrd	Dexter	Clarktn	Mean				
MATURITY GROUP 4												
Excel 8410NRR@	1.0	1.3	1.3	1.2	26.2**	39.1*	28.9	31.4**				
Manokin	1.0	3.3	1.0	1.8	26.2**	36.7	27.3	30.1*				
Morsoy 4426 SCN	1.0	1.0	1.0	1.0	16.6	39.4*	27.8	27.9				
Morsoy 4477 SCN	1.0	1.0	1.0	1.0	13.7	40.6**	29.4	27.9				
FFR HT 4985	1.0	3.8	1.0	1.9	14.4	35.7	33.4**	27.8				
Stine 4402-4@	1.0	2.5	1.0	1.5	10.8	39.4*	31.9*	27.4				
Morsoy 4759N	1.3	1.0	1.3	1.2	21.7*	34.3	25.3	27.1				
Stine 4802-4@	1.0	1.5	1.0	1.2	13.1	37.8*	29.0	26.6				
Pioneer variety 9492@	1.0	1.0	1.0	1.0	8.4	36.7	30.4*	25.2				
Delsoy 4710	1.0	4.0	1.3	2.1	12.8	28.7	21.4	21.0				
GROUP 4 AVERAGE	1.0	2.0	1.1	1.4	16.4	36.8	28.5	27.2				
L.S.D. AT .10	0.2	1.0	0.3	0.2	7.4	3.8	3.3	2.9				
C.V.%					38.8	8.6	9.9	15.9				
MATURITY GROUP 5												
S96-2692#	1.5	1.8	1.3	1.5	46.5**	32.8*	29.1*	36.1**				
S94-1867#	2.5	3.3	2.0	2.6	43.7*	29.7*	32.0*	35.1*				
S96-2641#	1.3	1.0	1.0	1.1	37.0	31.8*	31.1*	33.3*				
Anand	1.0	1.8	1.0	1.3	33.8	33.9*	29.1*	32.3				
S97-1688#	1.8	2.0	1.3	1.7	32.3	30.6*	32.8**	31.9				
Delsoy 5500	1.8	1.5	1.0	1.4	29.9	32.9*	30.5*	31.1				
Delsoy 5710	1.5	3.0	1.5	2.0	41.0*	23.9	28.1	31.0				
Morsoy 5108N	1.8	1.3	1.0	1.4	30.1	32.7*	29.9*	30.9				
Morsoy 5389N	1.0	1.0	1.0	1.0	27.6	33.3*	28.8*	29.9				
Pioneer variety 95B32@	1.5	1.0	1.0	1.2	27.2	32.5*	29.6*	29.8				
S96-3418#	1.8	2.0	1.0	1.6	29.0	23.1	30.7*	27.6				
Pioneer variety 95B33	1.0	1.0	1.0	1.0	33.8	27.8	21.2	27.6				
Hutcheson###	1.3	1.0	1.0	1.1	21.8	33.1*	24.5	26.5				
FFR RT 557@	2.0	1.3	1.3	1.5	12.9	34.9**	28.3	25.4				
Pioneer variety 95B53@	1.0	1.0	1.0	1.0	22.3	24.1	29.0*	25.1				
GROUP 5 AVERAGE	1.5	1.6	1.2	1.4	31.3	30.5	29.0	30.3				
L.S.D. AT .10	NS	0.8	0.5	0.4	5.8	5.8	4.0	3.0				
C.V.%					15.6	16.3	11.6	14.7				
TRIAL AVERAGE	1.3	1.8	1.1	1.4	25.3	33.0	28.8	29.0				

Susceptible check variety.
Experimental variety.
@ Roundup ready variety.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.

Figure 8. Graphic Summary of Two-year (99/2000) Results of SCN Resistant Soybean Varieties at Three Southeast Missouri Locations.
MG IV



MG V



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

PART III

ROUNDUP READY SOYBEAN TRIALS

EXPERIMENTAL PROCEDURES

Field Plot Design. A randomized lattice design with three replications was used. Individual plots were four rows wide and 20 feet long. Weed control in all plots of resistant varieties was achieved with Roundup herbicide. The center two rows of each plot were harvested to determine yield. However, at two northern locations, seven row plots were used with five being harvested.

Locations. Roundup Ready soybean variety evaluation trials were located in all regions of the state. Trial locations are shown on the adjacent map.

North Missouri

1. Graves Experiment Center, Corning (Holt Co.)
2. Hundley-Whaley Farm, Albany (Gentry Co.)
3. Gene Millard farm, Osborn (Dekalb Co.)
4. Greenly Memorial Center, Novelty (Knox Co.)
5. Roger Tieman farm, LaGrange (Lewis Co.)

Central Missouri

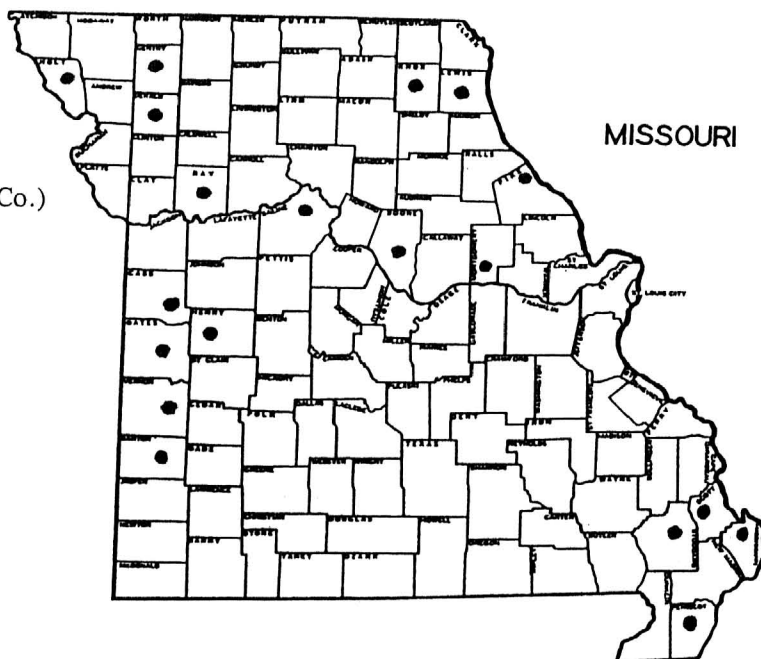
6. John Williams farm, Henrietta (Ray Co.)
7. Ryland Utlaut farm; Grand Pass (Saline Co.)
8. Agronomy Research Center Columbia (Boone Co.)
9. Roy Cope farm, Truxton (Montgomery Co.)
10. Bob Burkemper farm, Annada (Pike Co.)

Southwest Missouri

11. Bill Cook farm, Garden City (Cass Co.)
12. Dale Bettles farm, Butler (Bates Co.)
13. Kurt Gretzinger farm, Urich (Henry Co.)
14. Steve Cabbage farm, Nevada (Vernon Co.)
15. Wally Norton farm, Lamar (Barton Co.)

Southeast Missouri

16. Glenn Nothdruff farm, Oran (Scott Co.)
17. Elott Raffety farm, Wyatt (Mississippi Co.)
18. Tom Jennings farm, Moorehouse (Stoddard Co.)
19. Delta Research Center, Portageville (Pemiscot Co.)



SUMMARY OF RESULTS

Roundup ready soybean varieties were evaluated under standard cropping conditions. Data from these trials and management practices employed are presented in Tables 46-69. Data is also presented graphically in Figures 9 through 12 to permit ready comparison of performance of Roundup Ready varieties.

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

Average yields and ranges observed are summarized in Table 45. The ranges shown give the values for the lowest and highest yielding variety in each region. They provide an indication of the variation in yield potential among Roundup Ready soybean varieties available on the market in Missouri. Conventional variety means (Tables 2-25) can be used as a standard for comparison to the Roundup Ready variety mean.

TABLE 45. ROUNDUP READY SOYBEAN YIELD SUMMARY.

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
North Region - Roundup Ready				
Corning	110	30-50	40	46
Albany	110	35-48	42	47
Osborn	110	29-50	41	48
Novelty	110	47-62	54	49
LaGrange	110	39-59	49	50
Central Region - Roundup Ready				
Henrietta	81	22-49	36	52
Grand Pass	81	29-52	40	53
Columbia	81	44-67	55	54
Truxton	81	40-60	50	55
Annada	81	47-65	55	56
Southwest Region - Roundup Ready				
Garden City	54	12-38	25	58
Butler	54	9-29	18	59
Urich	54	13-46	27	60
Nevada	54	15-40	30	61
Lamar	54	14-31	21	62
Southeast Region - Roundup Ready				
Oran	89	14-54	39	64
Wyatt	89	28-52	40	65
Morehouse	89	48-75	64	66
Portageville(Loam)	89	35-55	45	67
Portageville(Clay)	89	20-50	37	68

TABLE 46. Performance of Roundup Ready Soybean Varieties evaluated near Corning (Atchison/Holt Counties) on the Graves Experiment Center during 1998-2000.

Planted: 10,12 May 2000
 Harvested: 9,10 October 2000
 Planted Population: 192,500 Seeds/A.
 Row Spacing: 15 Inches
 Soil Type: Haynie Silt Loam
 Soil Test: pH=6.2, OM=3.2%, P=65, K=430

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Touchdown, Dual II Mag., Canopy
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 0 Eggs/250cc of soil
 Growing Season Rainfall: May=1.9, June=6.8, July=4.6, Aug.=3.4, Sept.=2.0 TOTAL=18.7 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Fontanelle 9973 RR	9-17	33.0	2.0	49.6**	--	--	--	--
Midwest Seed G 3245R	9-23	35.0	1.0	49.4*	--	--	--	--
Prairie Br. PB-3550RR	9-24	38.0	1.0	48.6*	42.2*	--	45.4	--
NC+ 3A77RR	9-12	35.0	1.0	48.4*	--	--	--	--
Midland 9A380RR	9-20	36.0	1.0	47.6*	--	--	--	--
Kruger K-320 RR/SCN	9-23	35.0	1.0	47.0*	40.2*	--	43.6	--
Mersch. Monroe IIIR	9-24	34.0	2.0	46.9*	--	--	--	--
Kruger K-333+RR	9-13	39.0	2.0	46.4*	--	--	--	--
Kruger K-303RR/SCN	9-25	38.0	1.0	46.0*	--	--	--	--
Kruger K-369+RR	9-19	37.0	1.0	45.5*	--	--	--	--
Morsoy RT 3739	9-18	37.0	1.0	45.5*	38.7*	--	42.1	--
NK Brand S30-P6	9-18	36.0	1.0	45.5*	--	--	--	--
Kruger K-344RR	9-19	35.0	1.0	45.5*	45.9*	--	45.7	--
Kruger K-349RR	9-22	38.0	1.0	45.1*	--	--	--	--
Pioneer variety 93B84	9-26	37.0	2.0	45.1*	37.3*	--	41.2	--
Mersch. McKinley VRR	9-23	38.0	2.0	45.0*	--	--	--	--
Renze 3611R	9-23	36.0	1.0	44.5*	--	--	--	--
Kruger K-373+ RR	9-20	40.0	1.0	44.3*	43.6*	--	44.0	--
Atlas Mycogen 5366NRR	9-21	38.0	2.0	44.2*	--	--	--	--
AgriPro AP 3955RR/N	9-25	37.0	1.0	44.2*	--	--	--	--
LG Seeds LGC 3656NRR	9-22	28.0	1.0	44.1*	--	--	--	--
Prairie Br. PB-3410RR	9-28	32.0	2.0	43.8*	--	--	--	--
Kruger K-399 RR	9-12	38.0	2.0	43.7*	38.2*	49.6	41.0	43.8
Kruger K-349BRR	9-28	43.0	1.0	43.6*	--	--	--	--
Kruger K-353ARR	9-19	38.0	1.0	43.4*	--	--	--	--
Willcross RR 2370	9-14	36.0	1.0	43.3*	--	--	--	--
Advanced Gen. AG3797RR	9-29	37.0	1.0	43.2*	41.7*	53.8	42.5	46.2
Asgrow AG3201	9-22	37.0	2.0	43.1*	--	--	--	--
Prairie Br. PB-3505RR	9-26	31.0	2.0	43.0*	40.5*	--	41.8	--
Kruger K-323 RR	9-10	40.0	2.0	43.0*	--	--	--	--
Midwest Seed G 3060R	9-07	39.0	2.0	43.0*	--	--	--	--
Kruger K-323+RR	9-23	36.0	1.0	43.0*	--	--	--	--
Fontanelle 9891N/RR	9-23	32.0	2.0	42.8*	--	--	--	--
Kruger K-355RR	9-27	40.0	2.0	42.5*	--	--	--	--
Croplan Gen. RT3557	9-15	36.0	1.0	42.4*	--	--	--	--
Kruger K-369 RR	9-24	40.0	2.0	42.3*	37.8*	--	40.1	--
Mersch. Fillmore VRR	9-19	32.0	2.0	42.2*	29.5	--	35.9	--
Golden Harvest H-3848RR	9-15	35.0	1.0	42.2*	34.4	40.9	38.3	39.2
Crow's C 35007R	9-17	41.0	1.0	42.1*	--	--	--	--
Asgrow AG3302	9-17	32.0	1.0	41.9*	42.3*	50.8	42.1	45.0
Asgrow AG3701	9-14	34.0	2.0	41.9*	31.8	39.9	36.9	37.9
Dyna-Gro 3370RR	9-16	32.0	1.0	41.8*	36.2	--	39.0	--
Kruger K-353RR	9-18	35.0	1.0	41.7*	--	--	--	--
AgriPro AP 3510RR	9-20	36.0	1.0	41.5*	--	--	--	--
Pioneer variety 93B53	9-22	33.0	2.0	41.3*	26.9	42.6	34.1	36.9
Prairie Br. PB-3927RR#	9-25	39.0	1.0	40.8	--	--	--	--
U.S. Seeds US E3401RR#	9-28	30.0	2.0	40.8	--	--	--	--
Kruger K-353+RR	9-28	40.0	2.0	40.7	--	--	--	--
Kruger K-389RR/SCN	9-22	37.0	1.0	40.6	--	--	--	--
Kruger K-393RR	9-18	37.0	1.0	40.5	35.8	--	38.2	--
Kruger K-388+RR	9-20	37.0	2.0	40.4	--	--	--	--
Kruger K-359RR/SCN	9-25	38.0	2.0	40.4	--	--	--	--
Garst D370RR	9-18	36.0	2.0	40.2	--	--	--	--
Stine 3763-4	9-16	38.0	2.0	39.8	--	--	--	--
Mersch. Washington VIIIIR	9-17	27.0	1.0	39.8	39.7*	--	39.8	--
AgriPro AP 3792RR/N	9-22	35.0	1.0	39.6	40.3*	--	40.0	--
Midland XA351NRR#	9-27	35.0	1.0	39.6	--	--	--	--
NC+ 3A99RR	9-25	33.0	1.0	39.4	--	--	--	--

TABLE 46. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
Lewis 3592 RR	9-15	33.0	1.0	39.3	--	--	--	--
Willcross RR 2351	9-29	35.0	1.0	39.2	--	--	--	--
Kruger K-377+RR	9-20	40.0	1.0	39.2	41.9*	--	40.6	--
Prairie Br. PB-3592RR#	9-21	30.0	2.0	39.1	--	--	--	--
Prairie Br. PB-3712NRR	9-18	31.0	2.0	39.0	--	--	--	--
Dekalb DKB35-51	9-27	34.0	2.0	39.0	--	--	--	--
Crow's C 37009R	9-25	40.0	2.0	38.8	--	--	--	--
Kruger K-330RR/SCN	9-18	35.0	1.0	38.8	--	--	--	--
Dekalb DKB36-51c	9-27	35.0	1.0	38.6	--	--	--	--
AgriPro AP 3611RR/N	9-18	31.0	1.0	38.5	35.6	51.8	37.1	42.0
Kruger K-383+RR	9-25	40.0	1.0	38.1	--	--	--	--
Morsoy RT 3549	9-13	35.0	2.0	38.1	31.3	--	34.7	--
Kruger K-383ARR	9-20	41.0	2.0	37.5	--	--	--	--
Prairie Br. PB-3770RR	9-27	37.0	2.0	37.5	43.8*	--	40.7	--
U.S. Seeds US E3701RR#	9-27	31.0	2.0	37.4	--	--	--	--
Excel 8340RR	9-24	35.0	2.0	37.3	--	--	--	--
Croplan Gen. 370RR	9-11	39.0	1.0	37.3	--	--	--	--
Lewis 3717 RR	9-14	32.0	2.0	37.2	--	--	--	--
NK Brand X 039#	9-29	43.0	2.0	37.0	--	--	--	--
Excel 8381NRR	9-18	33.0	1.0	37.0	--	--	--	--
Taylor Exp.388R#	9-27	35.0	1.0	37.0	--	--	--	--
Willcross RR 2338	9-22	37.0	1.0	37.0	--	--	--	--
Prairie Br. PB-3404RR#	9-17	34.0	2.0	36.7	--	--	--	--
Stine 3800-4	9-21	36.0	2.0	36.7	--	--	--	--
NK Brand S34-B2	9-22	32.0	1.0	36.6	--	--	--	--
Dekalb DKB32-51c	9-28	36.0	2.0	36.5	--	--	--	--
Kruger K-349ARR	9-28	42.0	2.0	36.5	--	--	--	--
Kruger K-369 RR/SCN	9-22	39.0	1.0	36.3	--	42.6	--	--
Lewis 3876 RR	9-20	34.0	2.0	36.2	--	--	--	--
Croplan Gen. RC3838	9-14	38.0	1.0	36.0	--	--	--	--
Dekalb DKB31-51	9-27	35.0	2.0	35.9	--	--	--	--
MPride/MPV 350NRR	9-21	35.0	2.0	35.9	--	--	--	--
Midland XA371NRR#	9-14	31.0	2.0	35.8	--	--	--	--
Kruger K-303+RR/SCN	9-10	35.0	2.0	35.6	--	--	--	--
Mersch. Eisenhower VIRR	9-20	33.0	2.0	35.1	--	--	--	--
MPride/MPV 398NRR	9-28	33.0	2.0	34.7	35.4	--	35.1	--
Vigoro V391NRR	9-25	36.0	2.0	34.6	--	--	--	--
Kruger K-300RR/SCN	9-22	41.0	1.0	33.5	--	--	--	--
GROUP 3 AVERAGE	9-21	35.8	1.5	40.9	35.7	46.5	38.3	41.0
L.S.D. AT .10	4.8	2.8	1.0	8.4	9.8	NS		
C.V. %	14.1	4.8		12.8	20.5	--		
MATURITY GROUP 4								
Advanced Gen. AG4088RR	9-28	41.0	2.0	43.3**	71.2*	44.4	57.3	53.0
Fontanelle 415RR	9-29	42.0	3.0	41.3*	--	--	--	--
Mersch. Cleveland VIRR	9-25	43.0	2.0	40.9*	--	--	--	--
NK Brand S46-W8	9-29	39.0	3.0	38.8*	--	--	--	--
Kruger K-399+RR	9-24	41.0	2.0	37.3*	63.6*	--	50.5	--
MPride/MPV 437NRR	9-28	41.0	2.0	37.3*	66.7*	37.4	52.0	47.1
Taylor 415RR	9-30	42.0	3.0	36.9*	--	--	--	--
MPride/MPV 457NRR	9-26	39.0	2.0	35.7*	59.8*	53.6	47.8	49.7
Mersch. Houston VRR	9-28	44.0	3.0	35.2*	64.4*	--	49.8	--
Mersch. Norfolk IVRR	9-30	41.0	1.0	32.7	71.9**	--	52.3	--
NK Brand S42-M1	9-29	45.0	2.0	32.7	54.1	--	43.4	--
Stine 4212-4	9-26	41.0	2.0	32.0	--	--	--	--
Prairie Br. PB-4120NRR	9-24	42.0	2.0	31.9	--	--	--	--
Pioneer variety 94B01	9-24	40.0	2.0	29.9	50.8	--	40.4	--
GROUP 4 AVERAGE	9-27	41.5	2.2	36.1	56.6	44.4	46.4	45.7
L.S.D. AT .10	4.9	3.5	1.3	8.6	15.4	NS		
C.V. %	11.0	5.0		14.5	20.5			
TRIAL AVERAGE		36.5	1.6	40.3	39.4	46.2	39.8	41.9

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 47. Performance of Roundup Ready Soybean Varieties evaluated near Albany (Gentry County) on the Hundley-Whaley Farm during 1998-2000.

Planted: 16 May 2000 Fertilizer: N=0; P₂O₅=0; K₂O=60
 Harvested: 9-12 October 2000 Herbicide: Pre: Frontier, FirstRate, Authority, Canopy XL
 Planted Population: 192,500 Seeds/A Post: Roundup Ultra
 Row Spacing: 15 inches Irrigation: None
 Soil Type: Grundy Silt Loam Previous Crop: Corn
 Soil Test: pH=6.2, OM=3.1%, P=64, K=294 Tillage: Conventional

Cyst Nematode Population at Planting: 0 Eggs/250cc of soil
 Growing Season Rainfall: May=1.6, June=5.7, July=3.6, Aug.=2.0, Sept.=2.9 TOTAL=15.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date ¹	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Kruger K-323+RR	9-12	27.2	1.4	47.4**	--	--	--	--
Prairie Br. PB-3550RR	9-16	33.1	1.4	47.0*	34.9	--	41.0	--
Kruger K-330RR/SCN	9-20	35.3	1.5	46.8*	--	--	--	--
Stine 3763-4	9-19	33.1	1.3	46.5*	--	--	--	--
Kruger K-349BRR	9-21	31.1	1.2	46.4*	--	--	--	--
Dekalb DKB35-51	9-18	29.9	1.2	46.2*	--	--	--	--
Kruger K-373+RR	9-18	30.5	1.4	46.1*	36.8*	--	41.5	--
Crow's C 35007R	9-16	33.4	1.4	46.1*	--	--	--	--
Morsoy RT 3549	9-16	31.7	1.1	46.0*	37.0*	--	41.5	--
Kruger K-399 RR	9-18	32.0	1.0	45.7*	35.6	53.8	40.7	45.0
Midland XA371NRR#	9-21	32.2	1.1	45.7*	--	--	--	--
Mersch. McKinley VRR	9-18	34.3	1.2	44.9*	--	--	--	--
Kruger K-333+RR	9-12	29.4	1.2	44.7*	--	--	--	--
Fontanelle 9973 RR	9-19	33.0	1.1	44.6*	--	--	--	--
Prairie Br. PB-3770RR	9-16	30.0	1.3	44.6*	32.9	--	38.8	--
Excel 8340RR	9-15	33.0	1.4	44.4*	--	--	--	--
Kruger K-349ARR	9-21	34.7	1.5	44.3*	--	--	--	--
Stine 3800-4	9-21	27.5	1.1	44.1*	--	--	--	--
Prairie Br. PB-3712NRR	9-19	34.0	1.5	43.9*	--	--	--	--
Kruger K-353ARR	9-19	36.1	1.2	43.9*	--	--	--	--
Kruger K-377+RR	9-17	34.5	1.5	43.9*	36.6	--	40.3	--
AgriPro AP 3955RR/N	9-19	36.9	1.4	43.8*	--	--	--	--
Kruger K-355RR	9-16	34.2	1.4	43.8*	--	--	--	--
Dekalb DKB36-51c	9-20	31.8	1.0	43.6*	--	--	--	--
MPride/MPV 350NRR	9-17	35.5	1.3	43.6*	--	--	--	--
Lewis 3876 RR	9-21	32.8	1.0	43.5*	--	--	--	--
Asgrow AG3302	9-14	30.5	1.2	43.4*	32.4	57.3	37.9	44.4
NC+ 3A77RR	9-22	32.6	1.3	43.4*	--	--	--	--
Kruger K-369 RR	9-17	30.5	1.4	43.3*	37.0*	--	40.2	--
Crow's C 37009R	9-18	36.9	1.1	43.2*	--	--	--	--
Kruger K-303RR/SCN	9-12	28.6	1.3	43.2*	--	--	--	--
Pioneer variety 93B84	9-22	33.5	1.3	43.2*	38.2*	--	40.7	--
Taylor Exp. 388R#	9-19	28.5	1.1	43.1*	--	--	--	--
Excel 8381NRR	9-17	35.9	1.3	43.1*	--	--	--	--
Midwest Seed G 3060R	9-11	29.8	1.5	43.1*	--	--	--	--
Asgrow AG3201	9-14	32.8	1.2	43.0*	--	--	--	--
U.S. Seeds US E3701RR#	9-22	33.8	1.1	42.9*	--	--	--	--
Midwest Seed G 3245R	9-12	30.7	1.1	42.9*	--	--	--	--
U.S. Seeds US E3401RR#	9-14	26.5	1.1	42.8*	--	--	--	--
Morsoy RT 3739	9-21	31.1	1.0	42.8*	35.3	--	39.1	--
Dekalb DKB32-51c	9-16	31.3	1.2	42.7*	--	--	--	--
Croplan Gen. RC3838	9-20	33.3	1.1	42.6*	--	--	--	--
Mersch. Monroe IIRR	9-18	32.0	1.1	42.6*	--	--	--	--
LG Seeds LGC 3656NRR	9-22	32.8	1.0	42.5*	--	--	--	--
Kruger K-369 RR/SCN	9-14	37.1	1.3	42.4*	--	52.4	--	--
NK Brand S34-B2	9-16	30.1	1.1	42.2*	--	--	--	--
Kruger K-369+RR	9-11	27.9	1.3	42.1*	--	--	--	--
NC+ 3A99RR	9-21	35.4	1.4	42.0*	--	--	--	--
AgriPro AP 3510RR	9-17	30.7	1.1	41.9*	--	--	--	--
Kruger K-349RR	9-14	29.2	1.1	41.8*	--	--	--	--
Kruger K-389RR/SCN	9-21	33.0	1.0	41.8*	--	--	--	--
Kruger K-353+RR	9-22	30.6	1.0	41.7*	--	--	--	--
Kruger K-383ARR	9-14	37.0	1.3	41.7*	--	--	--	--
Kruger K-353RR	9-18	31.5	1.1	41.6	--	--	--	--
Prairie Br. PB-3927RR#	9-18	33.2	1.5	41.6	--	--	--	--
Croplan Gen. RT3557	9-15	34.6	1.4	41.5	--	--	--	--
Pioneer variety 93B53	9-13	31.5	1.3	41.5	32.6	47.3	37.1	40.5
Kruger K-393RR	9-17	34.0	1.0	41.5	36.2	--	38.9	--

TABLE 47. Continued

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date ¹	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
Prairie Br. PB-3404RR [#]	9-22	28.9	1.1	41.4	--	--	--	--
Renze 3611R	9-18	32.3	1.2	41.3	--	--	--	--
Advanced Gen. AG3797RR	9-22	35.1	1.3	41.2	35.7	51.4	38.5	42.8
Willcross RR 2370	9-17	32.9	1.1	41.0	--	--	--	--
Mersch. Eisenhower VIRR	9-21	28.1	1.1	40.9	--	--	--	--
Prairie Br. PB-3592RR [#]	9-17	33.7	1.4	40.8	--	--	--	--
Fontanelle 9891N/RR	9-19	33.2	1.1	40.4	--	--	--	--
Kruger K-383+RR	9-21	27.5	1.0	40.4	--	--	--	--
Vigoro V391NRR	9-19	33.5	1.2	40.4	--	--	--	--
Willcross RR 2351	9-16	30.9	1.3	40.2	--	--	--	--
Kruger K-320 RR/SCN	9-12	31.5	1.1	40.2	31.6	--	35.9	--
Prairie Br. PB-3505RR	9-19	33.5	1.4	40.1	33.1	--	36.6	--
Dyna-Gro 3370RR	9-18	32.4	1.1	39.9	35.1	--	37.5	--
Kruger K-300RR/SCN	9-15	31.7	2.0	39.9	--	--	--	--
Kruger K-359RR/SCN	9-17	32.8	1.1	39.7	--	--	--	--
Kruger K-323 RR	9-10	30.0	1.3	39.7	--	--	--	--
Mersch. Fillmore VRR	9-13	27.3	1.2	39.6	31.5	--	35.6	--
Midland XA351NRR [#]	9-18	35.1	1.1	39.6	--	--	--	--
Garst D370RR	9-18	32.8	1.2	39.5	--	--	--	--
NK Brand S30-P6	9-13	29.6	1.7	39.5	--	--	--	--
Willcross RR 2338	9-17	31.0	1.3	39.4	--	--	--	--
MPride/MPV 398NRR	9-21	31.3	1.2	39.3	34.7	--	37.0	--
Mersch. Washington VIIIR	9-21	30.1	2.1	39.0	36.3	--	37.7	--
Kruger K-303+RR/SCN	9-13	31.1	1.0	39.0	--	--	--	--
Asgrow AG3701	9-19	29.8	1.2	38.8	37.5*	56.7	38.2	44.3
Atlas Mycogen 5366NRR	9-19	31.5	1.2	38.8	--	--	--	--
Dekalb DKB31-51	9-13	27.4	1.2	38.6	--	--	--	--
Kruger K-344RR	9-16	28.8	1.0	38.6	40.8**	--	39.7	--
AgriPro AP 3611RR/N	9-18	34.9	1.3	38.2	34.9	48.6	36.6	40.6
NK Brand X 039 [#]	9-18	28.3	1.0	38.2	--	--	--	--
Golden Harvest H-3848RR	9-19	34.7	1.4	38.1	33.4	49.2	35.8	40.2
Croplan Gen. 370RR	9-22	27.1	1.3	37.9	--	--	--	--
Kruger K-388+RR	9-17	29.0	1.1	37.8	--	--	--	--
Midland 9A380RR	9-21	29.2	1.0	36.4	--	--	--	--
Prairie Br. PB-3410RR	9-14	26.3	1.1	36.3	--	--	--	--
Lewis 3717 RR	9-20	33.3	1.3	36.0	--	--	--	--
Lewis 3592 RR	9-16	32.5	1.1	35.8	--	--	--	--
AgriPro AP 3792RR/N	9-18	28.7	1.0	34.8	34.7	--	34.8	--
GROUP 3 AVERAGE	9-17	31.8	1.2	41.8	34.5	50.6	38.2	42.3
L.S.D. AT .10	2	3.9	NS	5.7	4.1	NS		
C.V. %	0.7	9.0		9.9	8.7	--		
MATURITY GROUP 4								
Kruger K-399+RR	9-21	34.3	1.2	47.7**	33.1	--	40.4	--
NK Brand S46-W8	9-23	42.2	1.5	45.5*	--	--	--	--
MPride/MPV 457NRR	9-24	41.8	1.8	45.2*	33.2	56.4	39.2	44.9
Taylor 415RR	9-23	38.5	1.3	44.0	--	--	--	--
Pioneer variety 94B01	9-19	40.5	1.3	42.5	37.8**	--	40.2	--
MPride/MPV 437NRR	9-23	34.6	1.5	42.0	34.8	44.2	38.4	40.3
Prairie Br. PB-4120NRR	9-18	37.4	2.0	41.5	--	--	--	--
Mersch. Cleveland VIRR	9-20	39.0	1.5	41.3	--	--	--	--
Fontanelle 415RR	9-22	37.1	1.7	40.8	--	--	--	--
Mersch. Houston VRR	9-22	37.4	1.2	40.8	32.9	--	36.9	--
Stine 4212-4	9-19	38.4	1.8	40.6	--	--	--	--
Mersch. Norfolk IVRR	9-23	37.8	1.2	39.3	29.1	--	34.2	--
Advanced Gen. AG4088RR	9-19	39.0	1.8	38.3	32.8	55.8	35.6	42.3
NK Brand S42-M1	9-23	43.2	1.5	37.7	34.5	--	36.1	--
GROUP 4 AVERAGE	9-21	38.6	1.5	41.9	33.7	54.3	37.8	43.3
L.S.D. AT .10	1	2.9	0.5	3.3	2.9	NS		
C.V. %	0.3	5.6		5.7	6.2	--		
TRIAL AVERAGE		32.7	1.3	41.9	34.4	51.2	38.1	42.5

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 48. Performance of Roundup Ready Soybean Varieties evaluated near Osborn (DeKalb County) on the Gene Millard Farm during 1998-2000.

Planted: 11 May 2000
 Harvested: 2 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Grundy Silt Loam
 Soil Test: pH=6.7, OM=2.7%, P=80, K=331

Fertilizer: N=0; P2O5=0; K2O=0
 Herbicide: Pre: Prowl, Scepter, Frontier, Lexone
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1400 Eggs/250cc of soil
 Growing Season Rainfall: May=4.1, June=7.2, July=4.8, Aug.=2.5, Sept.=4.4 TOTAL=23.0 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Kruger K-353RR	9-14	44.7	2.0	49.5**	--	--	--	--
Kruger K-303RR/SCN	9-07	38.4	2.0	49.3*	--	--	--	--
Kruger K-389RR/SCN	9-14	45.5	2.0	49.3*	--	--	--	--
Kruger K-349RR	9-11	38.0	1.0	49.1*	--	--	--	--
Kruger K-303+RR/SCN	9-09	44.7	1.0	49.0*	--	--	--	--
DeKalb DKB31-51	9-11	38.3	1.3	48.6*	--	--	--	--
U.S. Seeds US E3701RR#	9-14	47.7	2.0	47.8*	--	--	--	--
Croplan Gen. RC3838	9-14	44.4	1.7	47.3*	--	--	--	--
Taylor Exp.388R#	9-15	40.5	1.3	46.9*	--	--	--	--
Asgrow AG3201	9-09	40.4	1.7	46.5*	--	--	--	--
Croplan Gen. RT3557	9-14	40.8	1.3	46.4*	--	--	--	--
MPride/MPV 350NRR	9-12	42.3	1.3	46.2*	--	--	--	--
Prairie Br. PB-3712NRR	9-13	45.3	2.0	46.0*	--	--	--	--
Midland XA351NRR#	9-12	47.4	1.0	45.8*	--	--	--	--
Morsoy RT 3549	9-12	46.1	2.7	45.6*	61.3*	--	53.5	--
Kruger K-353+RR	9-15	43.1	2.0	45.5*	--	--	--	--
Kruger K-388+RR	9-13	40.2	1.3	45.3*	--	--	--	--
Kruger K-333+RR	9-08	37.9	2.3	45.0*	--	--	--	--
Willcross RR 2351	9-11	40.5	1.7	45.0*	--	--	--	--
Prairie Br. PB-3550RR	9-11	44.2	1.7	44.9*	52.7	--	48.8	--
Kruger K-377+RR	9-13	44.4	1.7	44.6*	52.5	--	48.6	--
Mersch. Eisenhower VIRR	9-15	39.0	1.3	44.2*	--	--	--	--
Kruger K-369 RR/SCN	9-12	44.7	1.3	44.1*	--	58.0	--	--
Kruger K-359RR/SCN	9-12	47.2	1.3	43.6*	--	--	--	--
DeKalb DKB32-51c	9-11	39.7	1.0	43.5*	--	--	--	--
Midland XA371NRR#	9-14	45.0	1.3	43.5*	--	--	--	--
NK Brand X 039#	9-13	41.6	1.0	43.0*	--	--	--	--
LG Seeds LGC 3656NRR	9-13	42.2	1.7	42.9*	--	--	--	--
Prairie Br. PB-3410RR	9-09	37.4	1.0	42.7*	--	--	--	--
Lewis 3717 RR	9-15	46.0	2.3	42.4*	--	--	--	--
Mersch. Monroe IIIR	9-12	43.0	1.0	42.3*	--	--	--	--
Excel 8340RR	9-11	43.6	1.7	42.0*	--	--	--	--
Willcross RR 2370	9-15	51.4	2.0	41.8*	--	--	--	--
Midland 9A380RR	9-13	37.9	1.3	41.7*	--	--	--	--
Asgrow AG3302	9-09	44.2	1.7	41.7*	54.0	65.1	47.9	53.6
Kruger K-349BRR	9-13	42.1	1.7	41.7*	--	--	--	--
Atlas Mycogen 5366NRR	9-11	43.0	1.7	41.7*	--	--	--	--
Mersch. Fillmore VRR	9-08	36.9	1.0	41.5*	57.4	--	49.5	--
NK Brand S34-B2	9-11	41.6	1.0	41.4*	--	--	--	--
Kruger K-369 RR	9-10	42.0	1.7	41.3	58.0	--	49.7	--
Kruger K-320 RR/SCN	9-09	44.5	1.7	41.3	49.8	--	45.6	--
Lewis 3876 RR	9-13	43.3	1.0	41.3	--	--	--	--
Lewis 3592 RR	9-10	41.3	1.0	41.2	--	--	--	--
DeKalb DKB36-51c	9-12	44.3	1.7	41.2	--	--	--	--
Prairie Br. PB-3404RR#	9-12	42.1	1.3	41.0	--	--	--	--
Midwest Seed G 3060R	9-07	39.7	1.3	40.9	--	--	--	--
Mersch. McKinley VRR	9-08	39.7	1.3	40.9	--	--	--	--
Vigoro V391NRR	9-13	44.0	1.3	40.9	--	--	--	--
Kruger K-330RR/SCN	9-14	45.5	1.0	40.8	--	--	--	--
Prairie Br. PB-3505RR	9-09	45.0	1.3	40.8	55.4	--	48.1	--
U.S. Seeds US E3401RR#	9-08	33.4	1.0	40.7	--	--	--	--
Golden Harvest H-3848RR	9-12	45.6	1.3	40.5	45.8	51.7	43.2	46.0
Kruger K-383+RR	9-11	38.1	1.0	40.4	--	--	--	--
Morsoy RT 3739	9-13	42.6	1.3	40.1	54.0	--	47.1	--
AgriPro AP 3792RR/N	9-10	43.9	1.7	39.9	55.1	--	47.5	--
NK Brand S30-P6	9-07	34.9	1.3	39.8	--	--	--	--
Willcross RR 2338	9-10	35.8	1.0	39.5	--	--	--	--
Pioneer variety 93B53	9-07	37.9	1.0	39.4	57.6	50.9	48.5	49.3

TABLE 48. Continued

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
Stine 3763-4	9-11	40.6	1.0	39.3	--	--	--	--
Fontanelle 9891N/RR	9-15	43.5	1.0	39.2	--	--	--	--
AgriPro AP 3510RR	9-11	42.5	2.0	38.8	--	--	--	--
Kruger K-399 RR	9-11	38.7	1.7	38.7	53.8	57.9	46.3	50.1
Kruger K-373+ RR	9-10	39.5	1.7	38.5	56.6	--	47.6	--
Midwest Seed G 3245R	9-06	37.4	1.3	38.5	--	--	--	--
Prairie Br. PB-3927RR [#]	9-13	44.3	2.3	38.3	--	--	--	--
Crow's C 37009R	9-13	45.6	1.7	37.9	--	--	--	--
Kruger K-349ARR	9-13	39.7	1.7	37.9	--	--	--	--
Kruger K-383ARR	9-09	43.9	2.7	37.8	--	--	--	--
AgriPro AP 3611RR/N	9-09	41.7	1.3	37.7	51.4	56.6	44.6	48.6
Kruger K-323+RR	9-05	31.4	1.0	37.5	--	--	--	--
MPride/MPV 398NRR	9-15	40.4	1.7	37.5	51.9	--	44.7	--
Kruger K-353ARR	9-14	47.7	2.3	37.1	--	--	--	--
Crow's C 35007R	9-09	39.6	1.3	37.1	--	--	--	--
Fontanelle 9973 RR	9-11	39.9	1.0	37.1	--	--	--	--
Croplan Gen. 370RR	9-14	41.2	1.0	37.1	--	--	--	--
Prairie Br. PB-3770RR	9-11	39.4	1.0	37.0	55.6	--	46.3	--
Advanced Gen. AG3797RR	9-13	44.2	1.7	36.8	53.8	54.7	45.3	48.4
Kruger K-300RR/SCN	9-04	41.1	1.7	36.8	--	--	--	--
NC+ 3A99RR	9-14	40.8	1.3	36.7	--	--	--	--
Kruger K-344RR	9-07	40.3	2.0	36.7	58.7*	--	47.7	--
Renze 3611R	9-09	37.1	1.0	36.3	--	--	--	--
Prairie Br. PB-3592RR [#]	9-08	41.0	1.0	36.2	--	--	--	--
Pioneer variety 93B84	9-11	40.8	1.0	36.0	56.5	--	46.3	--
Excel 8381NRR	9-11	45.2	1.7	35.4	--	--	--	--
Dyna-Gro 3370RR	9-13	44.6	1.3	35.4	59.1*	--	47.3	--
Kruger K-369+RR	9-07	31.6	1.0	35.2	--	--	--	--
Kruger K-355RR	9-07	38.9	1.0	35.0	--	--	--	--
Dekalb DKB35-51	9-10	40.5	1.0	34.7	--	--	--	--
Asgrow AG3701	9-12	45.7	1.0	34.6	54.2	59.5	44.4	49.4
Kruger K-393RR	9-12	45.2	2.0	34.2	64.7**	--	49.5	--
Stine 3800-4	9-13	36.2	1.0	33.8	--	--	--	--
Garst D370RR	9-10	43.0	1.0	33.4	--	--	--	--
AgriPro AP 3955RR/N	9-10	42.3	2.0	33.4	--	--	--	--
Mersch. Washington VIIIR	9-14	35.9	1.0	33.1	56.2	--	44.7	--
Kruger K-323 RR	9-04	37.7	1.0	32.9	--	--	--	--
NC+ 3A77RR	9-12	37.0	1.0	29.3	--	--	--	--
GROUP 3 AVERAGE	9-11	41.6	1.4	40.6	53.1	57.1	46.9	50.3
L.S.D. AT .10	3	5.1	0.8	8.1	6.3	NS		
C.V. %	0.8	8.9		14.5	8.6	--		
MATURITY GROUP 4								
Kruger K-399+RR	9-16	39.9	1.0	48.9**	49.6*	--	49.3	--
MPride/MPV 437NRR	9-17	41.0	1.0	43.9	48.0	57.3	46.0	49.7
Taylor 415RR	9-15	42.8	1.3	43.5	--	--	--	--
Stine 4212-4	9-15	45.3	1.0	43.0	--	--	--	--
Fontanelle 415RR	9-17	46.2	1.4	42.9	--	--	--	--
Mersch. Cleveland VIRR	9-14	44.2	1.0	42.5	--	--	--	--
Pioneer variety 94B01	9-14	46.0	1.1	42.4	47.3	--	44.9	--
Mersch. Norfolk IVRR	9-20	44.9	1.0	41.8	46.7	--	44.3	--
NK Brand S46-W8	9-20	47.4	2.6	40.9	--	--	--	--
Mersch. Houston VRR	9-16	43.8	1.1	40.7	50.8*	--	45.8	--
MPride/MPV 457NRR	9-19	45.6	2.0	40.3	46.8	53.3	43.6	46.8
NK Brand S42-M1	9-18	50.1	1.9	39.9	47.0	--	43.5	--
Prairie Br. PB-4120NRR	9-13	43.0	1.1	38.1	--	--	--	--
Advanced Gen. AG4088RR	9-17	42.1	1.4	36.2	50.0*	56.1	43.1	47.4
GROUP 4 AVERAGE	9-16	44.4	1.4	41.8	48.8	56.1	45.3	48.9
L.S.D. AT .10	2	3.1	0.5	NS	3.9	NS		
C.V. %	0.5	5.1		10.1	5.8			
TRIAL AVERAGE		41.9	1.4	40.8	52.4	56.9	46.6	50.0

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 49. Performance of Roundup Ready Soybean Varieties evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1998-2000.

Planted: 12 May 2000
 Harvested: 28 Sept., 3 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.4, OM=2.9%, P=53, K=334

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Steel
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 280 Eggs/250cc of soil
 Growing Season Rainfall: May=1.9, June=7.4, July=1.7, Aug.=4.5, Sept.=3.6 TOTAL=19.1 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
U.S. Seeds US E3701RR#	9-16	43.1	1.0	61.8**	--	--	--	--
Kruger K-320 RR/SCN	9-14	45.0	2.3	61.3*	29.0	--	45.2	--
Kruger K-349RR	9-13	40.1	1.0	61.2**	--	--	--	--
Croplan Gen. RC3838	9-16	43.0	1.0	60.8*	--	--	--	--
Midwest Seed G 3245R	9-12	39.3	2.0	60.7*	--	--	--	--
Dekalb DKB31-51	9-12	37.6	1.4	60.4*	--	--	--	--
Kruger K-303RR/SCN	9-10	34.2	1.0	60.0*	--	--	--	--
Kruger K-399 RR	9-14	39.4	1.0	59.2*	23.0	31.8	41.1	38.0
Asgrow AG3201	9-14	40.5	1.3	59.0*	--	--	--	--
Midland XA371NRR#	9-15	43.5	1.3	58.6*	--	--	--	--
Dekalb DKB36-51c	9-18	43.9	1.3	58.1*	--	--	--	--
Crow's C 35007R	9-13	42.5	1.3	58.1*	--	--	--	--
Kruger K-333+RR	9-12	35.2	1.0	57.9*	--	--	--	--
NK Brand X 039#	9-17	40.9	1.0	57.6*	--	--	--	--
Prairie Br. PB-3712NRR	9-16	43.8	1.4	57.2*	--	--	--	--
Kruger K-373+ RR	9-15	43.0	1.0	57.0*	29.6	--	43.3	--
Taylor Exp.388R#	9-17	39.2	1.0	57.0*	--	--	--	--
MPride/MPV 350NRR	9-16	45.2	1.7	56.9*	--	--	--	--
Kruger K-323+RR	9-12	33.5	1.0	56.8*	--	--	--	--
Asgrow AG3302	9-14	38.7	2.0	56.6*	31.2	34.3	43.9	40.7
Atlas Mycogen 5366NRR	9-16	39.9	1.3	56.5*	--	--	--	--
Dekalb DKB35-51	9-14	39.0	1.0	56.4*	--	--	--	--
Kruger K-369+RR	9-13	34.4	1.0	56.0	--	--	--	--
Wilcross RR 2351	9-14	42.6	1.0	56.0	--	--	--	--
Prairie Br. PB-3550RR	9-14	41.6	2.0	55.5	28.2	--	41.9	--
Pioneer variety 93B53	9-15	39.3	1.0	55.5	29.5	29.5	42.5	38.2
Stine 3800-4	9-17	36.6	1.0	55.5	--	--	--	--
Kruger K-389RR/SCN	9-16	43.2	1.3	55.3	--	--	--	--
Lewis 3876 RR	9-16	43.8	2.0	55.2	--	--	--	--
Renze 3611R	9-16	38.2	1.3	55.0	--	--	--	--
Fontanelle 9973 RR	9-16	42.0	2.0	54.9	--	--	--	--
Kruger K-383+RR	9-15	43.1	1.0	54.9	--	--	--	--
Kruger K-303+RR/SCN	9-12	37.4	1.0	54.7	--	--	--	--
Kruger K-323 RR	9-13	37.0	2.7	54.6	--	--	--	--
Mersch. Monroe IIIR	9-16	36.9	1.0	54.6	--	--	--	--
Kruger K-359RR/SCN	9-15	42.6	1.0	54.6	--	--	--	--
Kruger K-330RR/SCN	9-15	43.3	1.0	54.6	--	--	--	--
LG Seeds LGC 3656NRR	9-16	38.9	1.3	54.5	--	--	--	--
Kruger K-393RR	9-17	43.1	2.0	54.4	26.9	--	40.7	--
Kruger K-344RR	9-15	39.5	1.3	54.4	27.4	--	40.9	--
Croplan Gen. RT3557	9-16	41.1	1.6	54.3	--	--	--	--
Midwest Seed G 3060R	9-10	37.2	1.4	54.2	--	--	--	--
AgriPro AP 3611RR/N	9-14	43.8	1.0	54.1	24.9	34.6	39.5	37.9
Lewis 3592 RR	9-16	41.0	2.0	54.0	--	--	--	--
Croplan Gen. 370RR	9-16	43.4	1.0	54.0	--	--	--	--
Asgrow AG3701	9-16	43.5	1.0	54.0	31.4	37.0	42.7	40.8
Kruger K-369 RR	9-15	42.3	1.3	53.9	29.2	--	41.6	--
Mersch. McKinley VRR	9-15	41.7	2.3	53.9	--	--	--	--
NK Brand S30-P6	9-12	37.8	2.3	53.7	--	--	--	--
AgriPro AP 3510RR	9-15	44.5	1.6	53.7	--	--	--	--
Mersch. Fillmore VRR	9-14	35.6	1.0	53.7	26.7	--	40.2	--
Prairie Br. PB-3404RR#	9-17	44.0	1.4	53.6	--	--	--	--
Dekalb DKB32-51c	9-15	37.7	1.3	53.6	--	--	--	--
Prairie Br. PB-3927RR#	9-16	42.5	3.4	53.6	--	--	--	--
Midland XA351NRR#	9-15	42.0	2.0	53.4	--	--	--	--
Prairie Br. PB-3592RR#	9-16	43.4	1.0	53.3	--	--	--	--
Mersch. Eisenhower VIRR	9-18	38.6	1.0	53.1	--	--	--	--
Morsoy RT 3739	9-17	40.1	2.0	53.1	30.9	--	42.0	--

TABLE 49. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
Golden Harvest H-3848RR	9-16	47.2	1.0	53.0	25.3	31.2	39.2	36.5
AgriPro AP 3792RR/N	9-14	38.6	1.3	52.9	25.0	--	39.0	--
Excel 8340RR	9-15	42.7	2.4	52.9	--	--	--	--
Prairie Br. PB-3410RR	9-13	35.0	1.1	52.8	--	--	--	--
Kruger K-383ARR	9-15	42.4	2.0	52.7	--	--	--	--
Willcross RR 2338	9-14	38.2	1.4	52.7	--	--	--	--
NK Brand S34-B2	9-14	41.5	1.0	52.6	--	--	--	--
Morsoy RT 3549	9-15	44.8	1.7	52.3	29.4	--	40.9	--
Pioneer variety 93B84	9-17	44.0	1.3	52.3	23.8	--	38.1	--
MPride/MPV 398NRR	9-17	42.0	2.7	52.2	36.9**	--	44.6	--
Kruger K-349BRR	9-17	40.2	2.0	52.2	--	--	--	--
Kruger K-353RR	9-16	43.5	2.0	52.2	--	--	--	--
Mersch. Washington VIII RR	9-17	40.2	1.3	52.2	30.8	--	41.5	--
Willcross RR 2370	9-17	48.0	2.7	52.0	--	--	--	--
Kruger K-388+RR	9-16	37.2	1.7	51.9	--	--	--	--
Kruger K-300RR/SCN	9-10	41.0	1.3	51.9	--	--	--	--
Prairie Br. PB-3505RR	9-16	40.1	2.0	51.8	26.9	--	39.4	--
Midland 9A380RR	9-17	38.2	1.7	51.7	--	--	--	--
Kruger K-369 RR/SCN	9-15	48.0	1.0	51.5	--	28.7	--	--
Dyna-Gro 3370RR	9-17	45.1	2.7	51.4	28.7	--	40.1	--
Lewis 3717 RR	9-17	42.6	2.0	51.2	--	--	--	--
U.S. Seeds US E3401RR#	9-13	33.7	1.0	51.1	--	--	--	--
Stine 3763-4	9-15	39.5	1.0	51.1	--	--	--	--
Vigoro V391NRR	9-18	42.7	1.0	51.0	--	--	--	--
Kruger K-349ARR	9-17	40.2	2.0	50.7	--	--	--	--
Kruger K-377+RR	9-16	42.1	2.7	50.7	26.2	--	38.5	--
AgriPro AP 3955RR/N	9-16	35.1	3.7	49.9	--	--	--	--
Crow's C 37009R	9-17	45.2	1.3	49.9	--	--	--	--
Kruger K-355RR	9-16	41.4	1.4	49.8	--	--	--	--
NC+ 3A99RR	9-17	39.6	2.4	49.8	--	--	--	--
Kruger K-353ARR	9-17	43.9	3.6	49.2	--	--	--	--
Kruger K-353+RR	9-18	45.4	2.9	49.1	--	--	--	--
Prairie Br. PB-3770RR	9-16	41.7	1.4	48.8	28.1	--	38.5	--
Garst D370RR	9-17	45.7	1.7	48.8	--	--	--	--
Advanced Gen. AG3797RR	9-17	42.4	2.0	48.4	28.9	37.5	38.7	38.3
Excel 8381NRR	9-16	41.7	2.3	48.1	--	--	--	--
NC+ 3A77RR	9-17	38.3	2.0	47.6	--	--	--	--
Fontanelle 9891N/RR	9-16	42.9	1.7	46.6	--	--	--	--
GROUP 3 AVERAGE	9-15	41.0	1.6	54.0	27.9	33.0	41.0	38.3
L.S.D. AT .10	1	3.7	0.8	5.7	5.0	NS		
C.V. %	0.4	6.6		7.6	13.0	--		
MATURITY GROUP 4								
Kruger K-399+RR	9-18	35.0	1.1	53.8**	24.2	--	39.0	--
Stine 4212-4	9-17	41.7	1.1	53.8**	--	--	--	--
NK Brand S42-M1	9-18	42.5	1.1	53.0*	23.7	--	38.4	--
Taylor 415RR	9-18	41.3	1.1	52.9*	--	--	--	--
Mersch. Houston VRR	9-18	42.9	1.2	51.9*	26.9	--	39.4	--
Advanced Gen. AG4088RR	9-18	41.1	1.0	51.7*	22.3	33.4	37.0	35.8
Pioneer variety 94B01	9-17	41.2	1.1	51.7*	26.6	--	39.2	--
Prairie Br. PB-4120NRR	9-17	39.6	1.0	51.3*	--	--	--	--
MPride/MPV 437NRR	9-18	34.3	1.0	51.3*	23.3	36.0	37.3	36.9
Mersch. Cleveland VIRR	9-17	39.5	1.0	51.2*	--	--	--	--
MPride/MPV 457NRR	9-18	39.8	1.2	49.7*	22.9	41.6	36.3	38.1
Fontanelle 415RR	9-18	43.9	1.1	47.2	--	--	--	--
NK Brand S46-W8	9-18	41.8	1.2	47.2	--	--	--	--
Mersch. Norfolk IVRR	9-19	40.7	1.0	46.7	23.6	--	35.2	--
GROUP 4 AVERAGE	9-18	40.4	1.1	51.0	24.4	36.0	37.7	37.1
L.S.D. AT .10	1	3.0	0.2	6.2	NS	NS		
C.V. %	0.1	5.4		8.9	10.7	--		
TRIAL AVERAGE		40.9	1.5	53.6	27.3	33.4	40.5	38.1

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 50. Performance of Roundup Ready Soybean Varieties evaluated near LaGrange (Lewis County) on the Roger Tieman Farm 1998,2000 and on the John Schaffer Farm during 1999.

Planted: 8 May 2000
 Harvested: 9 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Westerville Silt Loam
 Soil Test: pH=5.7, OM=3.2%, P=100, K=537

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Scepter, Lexone
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 700 Eggs/250cc of soil
 Growing Season Rainfall: May=1.8, June=7.2, July=4.2, Aug.=3.8, Sept.=2.4 TOTAL=19.4 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Kruger K-399 RR	9-14	37.9	1.6	58.6**	46.4	60.2	52.5	55.1
Kruger K-373+ RR	9-13	38.4	1.1	55.9*	49.7	--	52.8	--
Prairie Br. PB-3404RR#	9-15	41.0	2.0	55.5*	--	--	--	--
Kruger K-383ARR	9-12	43.7	1.5	55.4*	--	--	--	--
Kruger K-353ARR	9-15	43.9	2.1	55.4*	--	--	--	--
Kruger K-388+RR	9-14	40.3	1.3	55.2*	--	--	--	--
Kruger K-369 RR/SCN	9-12	45.1	1.6	54.4*	--	64.3	--	--
Mersch. Monroe IIIR	9-14	39.6	1.0	54.0*	--	--	--	--
Kruger K-383+RR	9-14	38.6	1.2	53.7*	--	--	--	--
Midwest Seed G 3245R	9-10	38.1	1.2	53.5*	--	--	--	--
Advanced Gen. AG3797RR	9-15	41.8	1.6	53.5*	48.9	61.8	51.2	54.7
Asgrow AG3302	9-13	39.3	1.4	53.4*	51.2*	66.5	52.3	57.0
Renze 3611R	9-14	36.7	1.0	53.3*	--	--	--	--
U.S. Seeds US E3401RR#	9-13	34.5	1.0	53.0*	--	--	--	--
Fontanelle 9973 RR	9-15	38.2	1.4	52.9	--	--	--	--
Crow's C 37009R	9-14	43.4	1.4	52.8	--	--	--	--
Kruger K-349BRR	9-15	39.5	1.8	52.4	--	--	--	--
U.S. Seeds US E3701RR#	9-13	40.3	1.4	52.3	--	--	--	--
Dyna-Gro 3370RR	9-14	42.3	2.4	52.2	48.7	--	50.5	--
Garst D370RR	9-14	42.1	1.7	52.1	--	--	--	--
Kruger K-369+RR	9-13	33.7	1.0	51.9	--	--	--	--
Kruger K-349RR	9-11	38.5	2.4	51.8	--	--	--	--
Taylor Exp. 388R#	9-15	36.4	1.4	51.7	--	--	--	--
Mersch. Eisenhower VIIR	9-15	37.4	1.3	51.5	--	--	--	--
Mersch. Washington VIIIR	9-16	40.3	1.5	51.5	48.8	--	50.2	--
Kruger K-333+RR	9-12	37.0	1.4	51.4	--	--	--	--
Lewis 3876 RR	9-13	36.6	1.6	51.3	--	--	--	--
Kruger K-349ARR	9-14	41.8	1.7	51.0	--	--	--	--
Kruger K-353+RR	9-14	41.2	1.6	51.0	--	--	--	--
Kruger K-353RR	9-12	40.9	1.9	50.7	--	--	--	--
Willcross RR 2370	9-14	44.2	2.0	50.7	--	--	--	--
Kruger K-359RR/SCN	9-13	41.1	1.3	50.6	--	--	--	--
NK Brand S34-B2	9-13	36.4	1.0	50.5	--	--	--	--
Stine 3800-4	9-15	37.3	1.0	50.3	--	--	--	--
Willcross RR 2351	9-12	38.3	1.8	50.2	--	--	--	--
Kruger K-389RR/SCN	9-13	42.2	1.5	50.2	--	--	--	--
Midland XA351NRR#	9-13	42.7	1.6	50.2	--	--	--	--
Stine 3763-4	9-15	36.0	1.0	50.0	--	--	--	--
Kruger K-330RR/SCN	9-14	40.1	1.5	50.0	--	--	--	--
Kruger K-369 RR	9-12	39.2	2.0	49.9	49.8	--	49.9	--
Kruger K-344RR	9-11	37.7	1.8	49.8	49.0	--	49.4	--
Kruger K-377+RR	9-13	39.1	1.9	49.7	48.4	--	49.1	--
Prairie Br. PB-3770RR	9-13	39.6	1.3	49.6	48.2	--	48.9	--
Midland XA371NRR#	9-13	40.9	1.6	49.6	--	--	--	--
Willcross RR 2338	9-13	39.6	1.4	49.6	--	--	--	--
Midwest Seed G 3060R	9-11	37.0	1.4	49.5	--	--	--	--
Kruger K-355RR	9-11	42.3	2.0	49.5	--	--	--	--
Morsoy RT 3549	9-12	38.3	2.4	49.4	49.0	--	49.2	--
Kruger K-323+RR	9-10	35.2	1.5	49.2	--	--	--	--
Croplan Gen. RT3557	9-12	39.5	2.0	49.1	--	--	--	--
Dekalb DKB35-51	9-13	35.2	1.4	48.9	--	--	--	--
Asgrow AG3701	9-13	37.8	1.4	48.9	50.0	67.4	49.5	55.4
MPride/MPV 350NRR	9-13	42.5	1.0	48.9	--	--	--	--
Kruger K-320 RR/SCN	9-10	43.8	1.1	48.7	49.4	--	49.1	--
Excel 8381NRR	9-14	42.3	2.0	48.5	--	--	--	--
AgriPro AP 3955RR/N	9-14	42.5	2.7	48.5	--	--	--	--
NC+ 3A77RR	9-15	40.3	1.4	48.4	--	--	--	--
Prairie Br. PB-3550RR	9-12	34.8	1.7	48.2	48.0	--	48.1	--

TABLE 50. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
Kruger K-300RR/SCN	9-08	37.8	2.4	48.2	--	--	--	--
AgriPro AP 3611RR/N	9-12	42.8	1.8	47.9	45.5	63.0	46.7	52.1
Pioneer variety 93B84	9-14	37.6	1.0	47.6	48.1	--	47.9	--
Midland 9A380RR	9-14	38.4	1.4	47.5	--	--	--	--
Croplan Gen. RC3838	9-13	40.7	1.1	47.5	--	--	--	--
Mersch. McKinley VRR	9-13	39.9	1.9	47.3	--	--	--	--
Asgrow AG3201	9-11	37.8	1.4	47.2	--	--	--	--
Fontanelle 9891N/RR	9-14	43.5	1.0	47.2	--	--	--	--
Dekalb DKB31-51	9-10	38.2	1.8	47.1	--	--	--	--
Prairie Br. PB-3712NRR	9-13	38.7	1.0	47.1	--	--	--	--
Kruger K-323 RR	9-11	35.7	1.3	47.0	--	--	--	--
Atlas Mycogen 5366NRR	9-13	40.6	1.3	47.0	--	--	--	--
Mersch. Fillmore VRR	9-13	32.1	1.0	46.9	50.1	--	48.5	--
Prairie Br. PB-3505RR	9-13	37.7	1.9	46.8	48.0	--	47.4	--
Morsoy RT 3739	9-15	40.7	2.1	46.7	50.4	--	48.6	--
Vigoro V391NRR	9-14	41.8	1.1	46.2	--	--	--	--
Dekalb DKB36-51c	9-13	40.3	1.6	46.2	--	--	--	--
Crow's C 35007R	9-12	37.1	1.7	46.1	--	--	--	--
Prairie Br. PB-3410RR	9-13	32.4	1.0	46.1	--	--	--	--
Prairie Br. PB-3592RR#	9-13	42.4	2.0	45.4	--	--	--	--
NK Brand S30-P6	9-07	34.8	1.8	45.2	--	--	--	--
Dekalb DKB32-51c	9-13	35.7	1.1	45.0	--	--	--	--
NK Brand X 039#	9-14	34.3	1.4	45.0	--	--	--	--
AgriPro AP 3510RR	9-12	38.5	2.0	44.9	--	--	--	--
Kruger K-303+RR/SCN	9-09	35.0	1.3	44.5	--	--	--	--
Prairie Br. PB-3927RR#	9-14	41.2	1.9	44.4	--	--	--	--
MPride/MPV 398NRR	9-14	37.8	1.6	44.3	50.7	--	47.5	--
NC+ 3A99RR	9-14	38.5	1.6	43.8	--	--	--	--
Excel 8340RR	9-11	39.5	1.7	43.7	--	--	--	--
Kruger K-303RR/SCN	9-11	34.4	1.0	43.4	--	--	--	--
Kruger K-393RR	9-14	40.2	1.9	43.2	54.6**	--	48.9	--
Lewis 3592 RR	9-12	39.8	1.7	43.0	--	--	--	--
AgriPro AP 3792RR/N	9-13	40.8	1.3	42.5	48.3	--	45.4	--
Lewis 3717 RR	9-14	41.1	1.6	42.4	--	--	--	--
Golden Harvest H-3848RR	9-13	39.8	1.7	42.3	46.0	60.7	44.2	49.7
Croplan Gen. 370RR	9-17	32.6	1.0	41.0	--	--	--	--
LG Seeds LGC 3656NRR	9-14	40.4	1.9	40.1	--	--	--	--
Pioneer variety 93B53	9-09	37.1	1.4	39.0	48.6	60.3	43.8	49.3
GROUP 3 AVERAGE	9-13	39.1	1.5	48.9	47.7	63.3	48.3	53.3
L.S.D. AT .10	1	3.7	0.7	5.6	3.4	NS		
C.V. %	0.3	6.9		8.4	5.2	-		
MATURITY GROUP 4								
Kruger K-399+RR	9-16	41.2	1.4	54.4**	55.5**	--	55.0	--
Mersch. Cleveland VIRR	9-14	44.5	2.0	52.4*	--	--	--	--
NK Brand S46-W8	9-16	48.2	2.0	50.9*	--	--	--	--
Pioneer variety 94B01	9-13	44.0	1.6	49.5	52.5*	--	51.0	--
Stine 4212-4	9-14	47.0	1.6	49.4	--	--	--	--
Prairie Br. PB-4120NRR	9-14	45.0	2.0	48.4	--	--	--	--
Taylor 415RR	9-15	45.4	1.7	48.1	--	--	--	--
MPride/MPV 437NRR	9-16	42.2	1.3	47.4	50.2	59.7	48.8	52.4
Mersch. Houston VRR	9-15	49.0	2.0	47.1	54.0*	--	50.6	--
Advanced Gen. AG4088RR	9-15	48.1	2.0	46.8	47.9	52.9	47.4	49.2
MPride/MPV 457NRR	9-15	48.4	1.7	46.4	52.0*	66.1	49.2	54.8
Mersch. Norfolk IVRR	9-16	44.0	1.7	43.9	53.1*	--	48.5	--
Fontanelle 415RR	9-15	47.1	2.0	42.9	--	--	--	--
NK Brand S42-M1	9-16	49.4	2.0	40.6	52.7*	--	46.7	--
GROUP 4 AVERAGE	9-15	46.0	1.8	47.7	52.3	62.0	50.0	54.0
L.S.D. AT .10	1	2.7	NS	3.6	4.5	NS		
C.V. %	0.2	4.4		5.6	6.3	-		
TRIAL AVERAGE		40.0	1.6	48.8	48.5	63.1	48.6	53.4

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 51. Performance of Roundup Ready Soybean Varieties evaluated at six Northern Missouri Locations (Corning, Albany, Osborn, Novelty and LaGrange) during 2000.

Brand-Variety	Corning Planted: 10, 12 May 2000 Harvested: 9, 10 October 2000 Growing Season Rainfall: 18.7"		Albany Planted: 16 May 2000 Harvested: 9-12 October 2000 Growing Season Rainfall: 15.8"		Osborn Planted: 11 May 2000 Harvested: 2 October 2000 Growing Season Rainfall: 23.0"	
	Novelty Planted: 12 May 2000 Harvested: 28 Sept., 3 Oct. 2000 Growing Season Rainfall: 19.1"		LaGrange Planted: 8 May 2000 Harvested: 9 October 2000 Growing Season Rainfall: 19.4"			
	Yield (Bu/Acre)					
	Corning	Albany	Osborn	Novelty	LaGrange	Mean
MATURITY GROUP 3						
Kruger K-349RR	45.1*	41.8*	49.1*	61.2*	51.8	49.8**
Kruger K-399 RR	43.7*	45.7*	38.7	59.2*	58.6**	49.2*
Kruger K-333+RR	46.4*	44.7*	45.0*	57.9*	51.4	49.1*
Midwest Seed G 3245R	49.4*	42.9*	38.5	60.7*	53.5*	49.0*
Prairie Br. PB-3550RR	48.6*	47.0*	44.9*	55.5	48.2	48.8*
U.S. Seeds US E3701RR#	37.4	42.9*	47.8*	61.8**	52.3	48.4*
Kruger K-303RR/SCN	46.0*	43.2*	49.3*	60.0*	43.4	48.4*
Kruger K-373+RR	44.3*	46.1*	38.5	57.0*	55.9*	48.4*
Mersch. Monroe IIRR	46.9*	42.6*	42.3*	54.6	54.0*	48.1*
Fontanelle 9973 RR	49.6**	44.6*	37.1	54.9	52.9	47.8*
Asgrow AG3201	43.1*	43.0*	46.5*	59.0*	47.2	47.8*
Kruger K-320 RR/SCN	47.0*	40.2	41.3	61.3*	48.7	47.7
Kruger K-389RR/SCN	40.6	41.8*	49.3*	55.3	50.2	47.4
Asgrow AG3302	41.9*	43.4*	41.7*	56.6*	53.4*	47.4
Kruger K-349BRR	43.6*	46.4*	41.7*	52.2	52.4	47.3
Kruger K-353RR	41.7*	41.6	49.5**	52.2	50.7	47.1
Taylor Exp. 388R#	37.0	43.1*	46.9*	57.0*	51.7	47.1
Croplan Gen. RC3838	36.0	42.6*	47.3*	60.8*	47.5	46.8
Kruger K-323+RR	43.0*	47.4**	37.5	56.8*	49.2	46.8
Croplan Gen. RT3557	42.4*	41.5	46.4*	54.3	49.1	46.7
Prairie Br. PB-3712NRR	39.0	43.9*	46.0*	57.2*	47.1	46.6
Midland XA371NRR#	35.8	45.7*	43.5*	58.6*	49.6	46.6
Mersch. McKinley VRR	45.0*	44.9*	40.9	53.9	47.3	46.4
MPride/MPV 350NRR	35.9	43.6*	46.2*	56.9*	48.9	46.3
Morsoy RT 3549	38.1	46.0*	45.6*	52.3	49.4	46.3
Kruger K-330RR/SCN	38.8	46.8*	40.8	54.6	50.0	46.2
Kruger K-369+RR	45.5*	42.1*	35.2	56.0	51.9	46.1
Kruger K-369 RR	42.3*	43.3*	41.3	53.9	49.9	46.1
Midwest Seed G 3060R	43.0*	43.1*	40.9	54.2	49.5	46.1
Willcross RR 2351	39.2	40.2	45.0*	56.0	50.2	46.1
Kruger K-388+RR	40.4	37.8	45.3*	51.9	55.2*	46.1
Dekalb DKB31-51	35.9	38.6	48.6*	60.4*	47.1	46.1
Renze 3611R	44.5*	41.3	36.3	55.0	53.3*	46.1
Crow's C 35007R	42.1*	46.1*	37.1	58.1*	46.1	45.9
Kruger K-353ARR	43.4*	43.9*	37.1	49.2	55.4*	45.8
Kruger K-359RR/SCN	40.4	39.7	43.6*	54.6	50.6	45.8
Willcross RR 2370	43.3*	41.0	41.8*	52.0	50.7	45.8
Kruger K-369 RR/SCN	36.3	42.4*	44.1*	51.5	54.4*	45.7
Midland XA351NRR#	39.6	39.6	45.8*	53.4	50.2	45.7
U.S. Seeds US E3401RR#	40.8	42.8*	40.7	51.1	53.0*	45.7
Prairie Br. PB-3404RR#	36.7	41.4	41.0	53.6	55.5*	45.6
Atlas Mycogen 5366NRR	44.2*	38.8	41.7*	56.5*	47.0	45.6
Morsoy RT 3739	45.5*	42.8*	40.1	53.1	46.7	45.6
Kruger K-377+RR	39.2	43.9*	44.6*	50.7	49.7	45.6
Kruger K-353+RR	40.7	41.7*	45.5*	49.1	51.0	45.6
Dekalb DKB36-51c	38.6	43.6*	41.2	58.1*	46.2	45.5
Kruger K-383+RR	38.1	40.4	40.4	54.9	53.7*	45.5
Lewis 3876 RR	36.2	43.5*	41.3	55.2	51.3	45.5
Stine 3763-4	39.8	46.5*	39.3	51.1	50.0	45.3
Dekalb DKB35-51	39.0	46.2*	34.7	56.4*	48.9	45.0
Kruger K-383ARR	37.5	41.7*	37.8	52.7	55.4*	45.0
Kruger K-344RR	45.5*	38.6	36.7	54.4	49.8	45.0
Midland 9A380RR	47.6*	36.4	41.7*	51.7	47.5	45.0
Mersch. Eisenhower VIRR	35.1	40.9	44.2*	53.1	51.5	45.0
Pioneer variety 93B84	45.1*	43.2*	36.0	52.3	47.6	44.8
LG Seeds LGC 3656NRR	44.1*	42.5*	42.9*	54.5	40.1	44.8
Mersch. Fillmore VRR	42.2*	39.6	41.5*	53.7	46.9	44.8
NK Brand S30-P6	45.5*	39.5	39.8	53.7	45.2	44.7

TABLE 51. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Corning	Albany	Osborn	Novelty	LaGrange	
NK Brand S34-B2	36.6	42.2*	41.4*	52.6	50.5	44.6
Advanced Gen. AG3797RR	43.2*	41.2	36.8	48.4	53.5*	44.6
Kruger K-303+RR/SCN	35.6	39.0	49.0*	54.7	44.5	44.6
Crow's C 37009R	38.8	43.2*	37.9	49.9	52.8	44.5
Prairie Br. PB-3505RR	43.0*	40.1	40.8	51.8	46.8	44.5
Prairie Br. PB-3410RR	43.8*	36.3	42.7*	52.8	46.1	44.3
Dekalb DKB32-51c	36.5	42.7*	43.5*	53.6	45.0	44.2
AgriPro AP 3510RR	41.5*	41.9*	38.8	53.7	44.9	44.2
NK Brand X 039#	37.0	38.2	43.0*	57.6*	45.0	44.2
Dyna-Gro 3370RR	41.8*	39.9	35.4	51.4	52.2	44.1
Kruger K-355RR	42.5*	43.8*	35.0	49.8	49.5	44.1
Kruger K-349ARR	36.5	44.3*	37.9	50.7	51.0	44.1
Stine 3800-4	36.7	44.1*	33.8	55.5	50.3	44.1
Excel 8340RR	37.3	44.4*	42.0*	52.9	43.7	44.1
AgriPro AP 3955RR/N	44.2*	43.8*	33.4	49.9	48.5	44.0
Prairie Br. PB-3927RR#	40.8	41.6	38.3	53.6	44.4	43.7
Willcross RR 2338	37.0	39.4	39.5	52.7	49.6	43.6
Asgrow AG3701	41.9*	38.8	34.6	54.0	48.9	43.6
Prairie Br. PB-3770RR	37.5	44.6*	37.0	48.8	49.6	43.5
Kruger K-323 RR	43.0*	39.7	32.9	54.6	47.0	43.4
NC+ 3A77RR	48.4*	43.4*	29.3	47.6	48.4	43.4
Pioneer variety 93B53	41.3*	41.5	39.4	55.5	39.0	43.3
AgriPro AP 3611RR/N	38.5	38.2	37.7	54.1	47.9	43.3
Fontanelle 9891N/RR	42.8*	40.4	39.2	46.6	47.2	43.2
Golden Harvest H-3848RR	42.2*	38.1	40.5	53.0	42.3	43.2
Mersch. Washington VIIIR	39.8	39.0	33.1	52.2	51.5	43.1
Prairie Br. PB-3592RR#	39.1	40.8	36.2	53.3	45.4	43.0
Garst D370RR	40.2	39.5	33.4	48.8	52.1	42.8
Kruger K-393RR	40.5	41.5	34.2	54.4	43.2	42.8
Lewis 3592 RR	39.3	35.8	41.2	54.0	43.0	42.6
Vigoro V391NRR	34.6	40.4	40.9	51.0	46.2	42.6
Excel 8381NRR	37.0	43.1*	35.4	48.1	48.5	42.4
NC+ 3A99RR	39.4	42.0*	36.7	49.8	43.8	42.3
Kruger K-300RR/SCN	33.5	39.9	36.8	51.9	48.2	42.1
AgriPro AP 3792RR/N	39.6	34.8	39.9	52.9	42.5	41.9
Lewis 3717 RR	37.2	36.0	42.4*	51.2	42.4	41.8
MPride/MPV 398NRR	34.7	39.3	37.5	52.2	44.3	41.6
Croplan Gen. 370RR	37.3	37.9	37.1	54.0	41.0	41.4
GROUP 3 AVERAGE	40.9	41.8	40.6	54.0	48.9	45.2
L.S.D. AT .10	8.4	5.7	8.1	5.7	5.6	2.0
C.V.%	12.8	9.9	14.5	7.6	8.4	12.3
MATURITY GROUP 4						
Kruger K-399+RR	37.3*	47.7**	48.9**	53.8**	54.4**	48.4**
Mersch. Cleveland VIRR	40.9*	41.3	42.5	51.2*	52.4*	45.7*
Taylor 415RR	36.9*	44.0	43.5	52.9*	48.1	45.1
NK Brand S46-W8	38.8*	45.5*	40.9	47.2	50.9*	44.7
MPride/MPV 437NRR	37.3*	42.0	43.9	51.3*	47.4	44.4
Stine 4212-4	32.0	40.6	43.0	53.8**	49.4	43.8
MPride/MPV 457NRR	35.7*	45.2*	40.3	49.7*	46.4	43.5
Advanced Gen. AG4088RR	43.3**	38.3	36.2	51.7*	46.8	43.2
Pioneer variety 94B01	29.9	42.5	42.4	51.7*	49.5	43.2
Mersch. Houston VRR	35.2*	40.8	40.7	51.9*	47.1	43.1
Fontanelle 415RR	41.3*	40.8	42.9	47.2	42.9	43.0
Prairie Br. PB-4120NRR	31.9	41.5	38.1	51.3*	48.4	42.2
Mersch. Norfolk IVRR	32.7	39.3	41.8	46.7	43.9	40.9
NK Brand S42-M1	32.7	37.7	39.9	53.0*	40.6	40.8
GROUP 4 AVERAGE	36.1	41.9	41.8	51.0	47.7	43.7
L.S.D. AT .10	8.6	3.3	NS	6.2	3.6	2.7
C.V.%	14.5	5.7	10.1	8.9	5.6	9.4
TRIAL AVERAGE	40.3	41.9	40.8	53.6	48.8	45.0

Experimental variety.

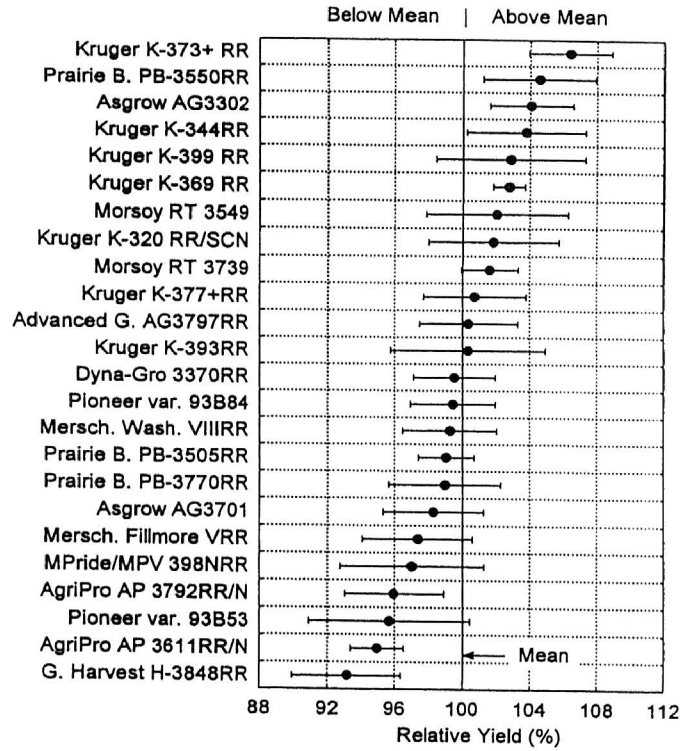
** Highest yielding variety in the maturity group.

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

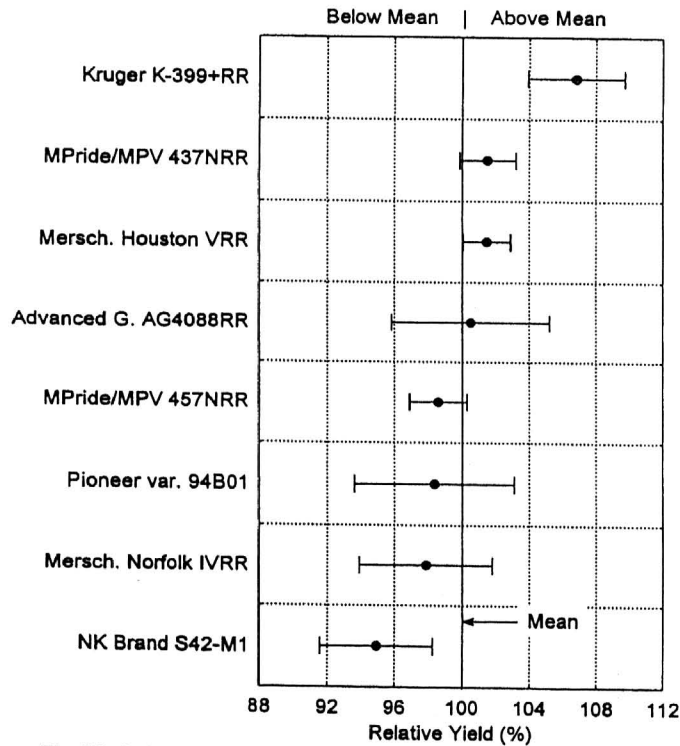
NS Not Significant.

Figure 9. Graphic Summary of Two-year (99/2000) Results of Roundup Ready Soybean Varieties at Five North Missouri Locations.

MG III



MG IV



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 52. Performance of Roundup Ready Soybean Varieties evaluated near Henrietta (Ray County) on the John Williams Farm during 2000 and near Garden City (Cass County) on the Bill Cook Farm during 1998-99.

Planted: 2 May 2000
 Harvested: 18 September 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Parkerville Silt Loam
 Soil Test: pH=6.8, OM=1.8, P=24, K=351
 Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Scepter, Roundup Ultra
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 420 Eggs/250cc of soil

Growing Season Rainfall: May=2.7, June=8.0, July=2.6, Aug.=5.6, Sept.=3.4 TOTAL=22.3 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Midland XA371NRR#	9-12	46.8	2.7	49.0**	--	--	--	--
Dekalb DKB36-51c	9-12	48.0	3.0	47.5*	--	--	--	--
Kruger K-369 RR/SCN	9-09	50.8	2.4	45.8*	--	--	--	--
Asgrow AG3701	9-11	47.2	2.1	45.6*	40.4	42.7*	43.0	42.9
Kruger K-349RR	9-08	42.3	2.7	45.0*	--	--	--	--
Kruger K-389RR/SCN	9-11	46.8	2.5	44.3*	--	--	--	--
Dekalb DKB38-51	9-13	46.0	1.8	43.7	--	--	--	--
Croplan Gen. RC3838	9-10	48.1	2.7	41.8	--	--	--	--
Morsoy RT 3859N	9-10	50.1	2.3	41.4	--	--	--	--
Kruger K-373+ RR	9-09	48.0	2.6	41.3	38.6	--	40.0	--
Croplan Gen. 370RR	9-14	48.9	1.6	41.2	41.8*	--	41.5	--
NK Brand X 039#	9-13	47.9	1.1	40.3	--	--	--	--
Kruger K-369+RR	9-07	44.6	1.6	40.2	--	--	--	--
Kruger K-388+RR	9-11	42.9	1.0	39.8	--	--	--	--
Mersch. Fillmore VRR	9-06	41.6	1.2	39.2	37.6	--	38.4	--
Kruger K-369 RR	9-09	47.4	2.3	38.6	39.7	--	39.2	--
Golden Harvest H-3848RR	9-09	46.7	1.2	38.3	34.9	41.9*	36.6	38.4
Croplan Gen. RT3557	9-12	46.6	2.1	38.3	--	--	--	--
Midland 8394NRR	9-11	52.5	3.7	38.2	40.8	39.5	39.5	39.5
MPride/MPV 398NRR	9-12	48.3	3.3	36.7	42.5*	--	39.6	--
AgriPro AP 3955RR/N	9-09	46.6	3.4	36.7	--	--	--	--
Morsoy RT 3967Scn	9-11	46.7	2.9	36.5	38.0	42.8*	37.3	39.1
Willcross RR 2390	9-12	48.2	2.4	36.2	--	--	--	--
Midland 9A380RR	9-13	46.2	1.8	36.1	--	--	--	--
AgriPro AP 3510RR	9-08	47.8	2.7	35.7	--	--	--	--
Morsoy RT 3739	9-09	44.0	3.0	35.6	40.5	--	38.1	--
Advanced Gen. AG3797RR	9-12	47.6	2.0	35.2	38.5	41.2*	36.9	38.3
Asgrow AG3702	9-10	47.7	3.4	35.1	39.9	--	37.5	--
AgriPro AP 3611RR/N	9-08	46.7	1.2	35.0	37.4	44.0*	36.2	38.8
Dyna-Gro 3394RR	9-09	50.3	2.5	34.8	34.7	--	34.8	--
AgriPro AP 3792RR/N	9-09	43.1	2.4	34.1	39.4	--	36.8	--
Lewis 3999 RR	9-14	49.6	1.9	33.1	39.6	--	36.4	--
Garst D370RR	9-12	50.6	1.3	32.9	--	--	--	--
Midland 9G380RR/STS	9-11	47.5	1.7	32.7	--	--	--	--
NC+ 3A77RR	9-09	45.1	2.0	32.0	--	--	--	--
Pioneer variety 93B84	9-11	46.2	1.8	31.6	36.9	--	34.3	--
Dyna-Gro 3388RR	9-12	53.8	1.3	31.6	39.3	41.1*	35.5	37.3
Kruger K-393RR	9-09	45.0	2.3	30.1	41.7*	--	35.9	--
Excel 8395RR	9-11	47.6	2.0	29.1	--	--	--	--
GROUP 3 AVERAGE	9-10	47.2	2.2	38.0	38.6	40.0	38.3	38.9
L.S.D. AT .10	2	3.8	1.1	4.8	2.7	7.6		
C.V. %	0.5	5.8		9.2	5.1	11.4		

Table 52. Continued

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Willcross RR 2420N	9-13	50.5	1.0	41.3**	--	--	--	--
Stine 4212-4	9-14	47.2	1.0	41.0*	--	--	--	--
Morsoy RT 4478Scn	9-16	46.1	2.0	39.1*	43.5*	27.7	41.3	36.8
Dyna-Gro 3399RR	9-13	46.2	1.3	38.5*	--	--	--	--
Atlas Mycogen 5441NRR	9-17	50.8	2.0	38.4*	43.7*	--	41.1	--
U.S. Seeds US S4200RR	9-13	49.7	2.3	38.2*	--	--	--	--
Stine 4402-4	9-16	52.2	2.7	38.1*	--	--	--	--
Mersch. Richmond VIRR	9-17	49.3	2.7	37.0*	43.6*	--	40.3	--
Croplan Gen. RC4495	9-14	45.8	1.0	37.0*	--	--	--	--
Lewis 4392 RR	9-16	48.5	3.3	36.9*	42.2	--	39.6	--
Willcross RR 2449N	9-17	51.4	2.7	36.3*	--	--	--	--
Stine 4802-4	9-18	54.6	2.7	36.0*	--	--	--	--
NK Brand S46-G2	9-16	56.8	1.7	35.9*	--	--	--	--
Garst AP 4501RR/N	9-16	52.8	2.7	35.8*	--	--	--	--
Asgrow AG4403	9-17	49.0	1.3	35.7*	--	--	--	--
Asgrow AG4301	9-15	47.9	2.3	35.2	41.7	38.7*	38.5	38.5
Pioneer variety 94B01	9-11	51.4	2.0	35.1	39.9	37.8*	37.5	37.6
NK Brand S46-W8	9-15	52.1	2.0	34.9	40.7	--	37.8	--
Willcross RR 2480N	9-17	49.1	3.0	34.9	--	--	--	--
Dekalb DKB44-51c	9-15	54.4	1.0	34.8	--	--	--	--
Kruger K-399+RR	9-17	43.2	1.7	34.7	32.4	--	33.6	--
Mersch. Memphis IVRR	9-16	45.4	1.0	34.3	38.1	--	36.2	--
Mersch. Denver RRSTS	9-15	48.8	2.3	34.2	--	--	--	--
Pioneer variety 9492	9-15	51.0	2.0	33.9	--	--	--	--
Willcross RR 2469N	9-14	49.9	1.3	33.4	--	--	--	--
MPride/MPV 457NRR	9-14	51.2	2.7	32.2	39.1	36.8	35.7	36.0
Willcross RR 2430N	9-14	48.7	1.3	32.1	--	--	--	--
Mersch. Norfolk IVRR	9-16	48.4	1.0	31.7	40.1	--	35.9	--
Dyna-Gro 3442NRR	9-16	51.8	3.0	31.6	44.3*	--	38.0	--
MPride/MPV 437NRR	9-15	48.3	2.0	31.3	34.1	39.2*	32.7	34.9
U.S. Seeds US S4409RR	9-16	49.1	3.3	30.9	39.7	--	35.3	--
Morsoy RT 4729Scn	9-16	49.2	2.3	30.7	--	--	--	--
Golden Harvest H-4122RR	9-14	47.0	2.3	30.3	--	--	--	--
Morsoy RT 4110N	9-14	51.6	2.7	29.4	--	--	--	--
NC+ 4A29RR	9-15	46.6	1.3	29.3	37.3	--	33.3	--
Gateway 4R453	9-14	47.1	1.0	28.6	--	--	--	--
LG Seeds LGC 4350NRR	9-14	50.7	1.7	28.0	--	--	--	--
AgriPro AP 4319RR/N	9-14	50.4	2.0	27.9	38.9	34.4	33.4	33.7
NK Brand S42-M1	9-15	54.7	1.7	27.8	36.3	--	32.1	--
Gateway 4R472	9-18	53.8	2.3	27.5	--	--	--	--
Lewis 4228 RR	9-15	51.2	2.3	27.2	--	--	--	--
Advanced Gen. AG4088RR	9-12	44.1	2.3	22.5	34.0	34.7	28.3	30.4
GROUP 4 AVERAGE	9-15	49.7	2.0	33.6	38.6	35.2	36.1	35.8
L.S.D. AT .10	2	4.6	0.9	5.7	5.7	6.6		
C.V. %	0.5	6.8		12.4	10.7	11.1		
TRIAL AVERAGE		48.5	2.1	35.7	38.6	38.0	37.1	37.4

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

TABLE 53. Performance of Roundup Ready Soybean Varieties evaluated near Grand Pass (Saline County) on the Ryland Utlaut Farm during 1998-2000.

Planted: 11 May 2000
 Harvested: 10 October 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Haynie Silt Loam
 Soil Test: pH=5.8, OM=2.7%, P=35, K=696

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Scepter
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 560 Eggs/250cc of soil

Growing Season Rainfall: May=4.2, June=6.4, July=3.2, Aug.=4.2, Sept.=1.9 TOTAL=19.9 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Croplan Gen. RT3557	9-14	44.0	2.5	49.8**	--	--	--	--
AgriPro AP 3510RR	9-14	45.5	3.1	49.1*	--	--	--	--
Pioneer variety 93B84	9-14	44.0	2.2	48.6*	48.3*	--	48.5	--
Croplan Gen. RC3838	9-15	42.1	1.7	47.5*	--	--	--	--
Kruger K-389RR/SCN	9-15	42.3	1.9	47.3*	--	--	--	--
Kruger K-369 RR	9-14	43.0	2.6	47.2*	46.9*	--	47.1	--
Asgrow AG3701	9-15	43.1	2.4	47.1*	44.1	56.8*	45.6	49.3
Lewis 3999 RR	9-17	43.1	1.7	47.1*	49.0*	--	48.1	--
Kruger K-388+RR	9-15	41.3	2.0	46.2*	--	--	--	--
Midland XA371NRR#	9-15	43.3	1.3	45.9*	--	--	--	--
Kruger K-373+ RR	9-14	42.8	2.7	45.5*	48.8*	--	47.2	--
Dekalb DKB36-51c	9-16	43.5	2.1	45.4*	--	--	--	--
Kruger K-349RR	9-12	37.8	1.8	44.4	--	--	--	--
Dekalb DKB38-51	9-16	44.3	1.0	44.4	--	--	--	--
Kruger K-369 RR/SCN	9-14	48.3	1.6	44.2	--	--	--	--
Golden Harvest H-3848RR	9-14	44.3	2.1	44.2	46.1*	52.3*	45.2	47.5
NC+ 3A77RR	9-16	43.2	2.4	44.1	--	--	--	--
AgriPro AP 3792RR/N	9-15	43.1	2.8	44.0	44.6	--	44.3	--
NK Brand X 039#	9-16	42.6	1.6	43.7	--	--	--	--
Midland 9A380RR	9-16	41.7	2.3	41.7	--	--	--	--
Garst D370RR	9-15	43.4	1.9	40.9	--	--	--	--
Croplan Gen. 370RR	9-16	45.0	1.5	40.0	41.1	--	40.6	--
Dyna-Gro 3388RR	9-14	47.0	2.2	38.8	41.3	53.0*	40.1	44.4
Morsoy RT 3739	9-14	42.4	2.3	38.2	45.9*	--	42.1	--
Dyna-Gro 3394RR	9-14	42.5	1.7	37.3	46.4*	--	41.9	--
Asgrow AG3702	9-14	39.7	3.2	37.0	43.4	--	40.2	--
AgriPro AP 3611RR/N	9-11	43.2	1.8	36.6	40.7	50.6	38.7	42.6
Morsoy RT 3859N	9-12	43.8	2.7	36.5	--	--	--	--
Advanced Gen. AG3797RR	9-15	44.1	2.1	35.8	45.2	44.9	40.5	42.0
Kruger K-369+RR	9-11	39.1	1.5	35.7	--	--	--	--
Midland 9G380RR/STS	9-14	41.9	1.9	35.7	--	--	--	--
AgriPro AP 3955RR/N	9-13	44.4	3.6	35.4	--	--	--	--
MPride/MPV 398NRR	9-14	41.7	2.1	35.3	47.2*	--	41.3	--
Mersch. Fillmore VRR	9-10	34.8	1.4	33.9	45.0	--	39.5	--
Willcross RR 2390	9-14	43.4	3.0	32.6	--	--	--	--
Excel 8395RR	9-13	44.7	2.2	31.5	--	--	--	--
Midland 8394NRR	9-13	43.6	3.7	31.3	45.2	51.7*	38.3	42.7
Kruger K-393RR	9-15	43.2	2.3	30.2	46.1*	--	38.2	--
Morsoy RT 3967Scn	9-12	44.1	4.1	29.2	47.4*	54.1*	38.3	43.6
GROUP 3 AVERAGE	9-14	43.0	2.2	40.8	44.3	49.8	42.6	45.0
L.S.D. AT .10	2	2.9	1.1	4.7	5.4	5.4		
C.V. %	0.5	5.0		8.4	9.0	6.5		

TABLE 53. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Dyna-Gro 3399RR	9-22	46.7	1.2	52.1**	--	--	--	--
Lewis 4392 RR	9-25	46.0	4.0	49.7*	47.0*	--	48.4	--
Dyna-Gro 3442NRR	9-26	46.7	3.6	48.3*	43.2	--	45.8	--
U.S. Seeds US S4409RR	9-25	48.3	4.3	47.6	40.8	--	44.2	--
Willcross RR 2420N	9-22	49.3	1.6	47.1	--	--	--	--
Golden Harvest H-4122RR	9-21	43.7	2.5	46.7	--	--	--	--
Stine 4212-4	9-21	50.3	1.2	45.9	--	--	--	--
NC+ 4A29RR	9-23	48.7	1.8	45.6	41.5	--	43.6	--
Asgrow AG4403	9-23	50.3	2.1	43.4	--	--	--	--
Gateway 4R472	9-28	51.7	4.1	43.4	--	--	--	--
Asgrow AG4301	9-23	49.0	3.3	43.4	42.0	51.5	42.7	45.6
Pioneer variety 9492	9-24	49.3	2.2	42.5	--	--	--	--
Morsoy RT 4110N	9-23	52.3	2.9	42.4	--	--	--	--
AgriPro AP 4319RR/N	9-24	53.7	1.8	42.1	40.7	46.1	41.4	43.0
U.S. Seeds US S4200RR	9-22	49.3	3.3	41.9	--	--	--	--
Dekalb DKB44-51c	9-21	50.7	2.5	41.7	--	--	--	--
Stine 4402-4	9-24	48.0	3.1	41.4	--	--	--	--
Kruger K-399+RR	9-21	48.3	1.6	40.8	48.3*	--	44.6	--
Mersch. Denver RRSTS	9-24	49.3	3.1	40.5	--	--	--	--
Pioneer variety 94B01	9-21	55.3	1.5	40.3	40.2	50.8	40.3	43.8
Gateway 4R453	9-23	51.3	1.7	39.7	--	--	--	--
Willcross RR 2469N	9-21	50.0	1.9	39.4	--	--	--	--
Morsoy RT 4478Scn	9-24	49.0	2.1	39.2	39.6	52.5	39.4	43.8
Mersch. Memphis IVRR	9-24	48.0	1.7	39.2	35.2	--	37.2	--
Croplan Gen. RC4495	9-22	48.0	1.1	38.8	--	--	--	--
MPride/MPV 437NRR	9-21	47.7	1.7	38.4	43.9	49.6	41.2	44.0
Stine 4802-4	9-24	49.0	2.6	37.8	--	--	--	--
Morsoy RT 4729Scn	9-23	47.3	3.1	37.0	--	--	--	--
Willcross RR 2430N	9-21	47.3	1.0	36.9	--	--	--	--
Advanced Gen. AG4088RR	9-22	47.3	2.6	36.5	37.2	46.6	36.9	40.1
Mersch. Richmond VIRR	9-23	47.7	2.3	36.1	40.7	--	38.4	--
MPride/MPV 457NRR	9-23	51.0	1.3	36.1	37.2	52.4	36.7	41.9
Willcross RR 2480N	9-23	49.3	2.7	35.8	--	--	--	--
NK Brand S46-G2	9-22	55.3	3.3	35.4	--	--	--	--
Mersch. Norfolk IVRR	9-24	50.7	1.7	35.3	42.1	--	38.7	--
Garst AP 4501RR/N	9-22	50.0	1.7	35.3	--	--	--	--
NK Brand S46-W8	9-21	50.3	3.5	34.5	42.3	--	38.4	--
Lewis 4228 RR	9-20	47.3	2.1	34.3	--	--	--	--
LG Seeds LGC 4350NRR	9-21	48.0	2.4	33.3	--	--	--	--
NK Brand S42-M1	9-22	55.0	2.2	33.2	43.6	--	38.4	--
Atlas Mycogen 5441NRR	9-22	51.7	2.3	32.4	44.9	--	38.7	--
Willcross RR 2449N	9-22	50.7	3.2	32.2	--	--	--	--
GROUP 4 AVERAGE	9-23	49.5	2.4	40.1	41.5	49.7	40.8	43.7
L.S.D. AT .10	1	2.9	1.1	3.9	5.1	NS		
C.V. %	0.4	4.2		7.1	9.0	8.4		
TRIAL AVERAGE		46.3	2.3	40.4	42.9	49.8	41.7	44.4

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 54. Performance of Roundup Ready Soybean Varieties evaluated near Columbia on the Agronomy Research Center (Boone County) during 1998-2000.

Planted: 5 May 2000
 Harvested: 28 Sept., 3 Oct. 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.7, OM=2.5, P=66, K=323

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Lasso, Scepter
 Post: Roundup Ultra, 2,4,D-B
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 500 Eggs/250cc of Soil

Growing Season Rainfall: May=5.0, June=7.8, July=4.8, Aug.=12.1, Sept.=2.6 TOTAL=32.3 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Dekalb DKB36-51c	9-14	35.0	2.1	67.0**	--	--	--	--
Midland XA371NRR#	9-14	35.0	2.0	66.1*	--	--	--	--
Kruger K-389RR/SCN	9-14	35.0	2.0	65.9*	--	--	--	--
Kruger K-369 RR/SCN	9-12	41.5	1.0	65.5*	--	--	--	--
Kruger K-373+ RR	9-11	36.0	2.3	65.2*	38.9	--	52.1	--
Croplan Gen. RC3838	9-13	35.3	2.1	65.2*	--	--	--	--
Dekalb DKB38-51	9-16	37.1	1.4	64.9*	--	--	--	--
Kruger K-388+RR	9-13	36.1	2.0	63.9*	--	--	--	--
NK Brand X 039#	9-15	33.9	1.6	63.8*	--	--	--	--
Kruger K-393RR	9-16	41.2	3.0	63.8*	40.2	--	52.0	--
Asgrow AG3701	9-14	37.3	2.0	63.7*	47.7**	47.5	55.7	53.0
NC+ 3A77RR	9-16	37.6	2.4	62.7*	--	--	--	--
Advanced Gen. AG3797RR	9-17	41.0	2.8	62.4*	39.1	37.9	50.8	46.5
AgriPro AP 3510RR	9-14	38.9	2.2	62.4*	--	--	--	--
Midland 9A380RR	9-16	37.3	2.4	62.4*	--	--	--	--
Pioneer variety 93B84	9-14	40.2	1.5	61.9*	38.4	--	50.2	--
AgriPro AP 3611RR/N	9-11	39.4	3.0	61.8*	40.4	37.1	51.1	46.4
Dyna-Gro 3388RR	9-16	36.5	1.7	61.5*	36.1	39.4	48.8	45.7
Excel 8395RR	9-16	39.6	2.7	61.3*	--	--	--	--
Kruger K-369+RR	9-12	30.9	1.3	60.7*	--	--	--	--
Mersch. Fillmore VRR	9-13	32.1	2.7	60.7*	38.1	--	49.4	--
Golden Harvest H-3848RR	9-14	36.4	1.8	60.6	40.6	42.3	50.6	47.8
Morsoy RT 3739	9-17	37.9	2.0	60.1	35.3	--	47.7	--
Asgrow AG3702	9-15	39.0	2.2	59.8	44.2*	--	52.0	--
AgriPro AP 3955RR/N	9-14	36.1	4.0	59.8	--	--	--	--
Midland 8394NRR	9-15	38.4	3.0	59.2	40.9	40.5	50.1	46.9
Croplan Gen. 370RR	9-16	37.2	1.6	59.1	37.2	--	48.2	--
Kruger K-349RR	9-10	35.3	3.2	58.9	--	--	--	--
AgriPro AP 3792RR/N	9-14	37.9	3.7	58.8	41.8	--	50.3	--
Garst D370RR	9-15	40.0	2.5	57.9	--	--	--	--
Morsoy RT 3967Scn	9-15	38.2	3.3	57.8	43.4	39.9	50.6	47.0
Midland 9G380RR/STS	9-16	38.9	3.2	57.6	--	--	--	--
Lewis 3999 RR	9-17	33.7	3.0	57.2	36.9	--	47.1	--
Kruger K-369 RR	9-12	34.7	1.2	57.2	39.9	--	48.6	--
MPride/MPV 398NRR	9-15	36.5	1.8	55.9	43.0	--	49.5	--
Croplan Gen. RT3557	9-14	37.3	3.1	54.9	--	--	--	--
Dyna-Gro 3394RR	9-16	35.8	2.0	54.9	37.1	--	46.0	--
Willcross RR 2390	9-17	35.3	2.4	54.7	--	--	--	--
Morsoy RT 3859N	9-15	39.4	2.3	53.0	--	--	--	--
GROUP 3 AVERAGE	9-14	37.0	2.3	60.8	39.2	41.0	50.0	47.0
L.S.D. AT .10	2	3.4	0.8	6.3	3.9	5.9		
C.V. %	0.4	6.6		7.5	7.2	8.7		

TABLE 54. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Asgrow AG4403	9-21	38.5	2.1	57.2**	--	--	--	--
Dekalb DKB44-51c	9-20	41.5	2.3	55.2*	--	--	--	--
Willcross RR 2449N	9-21	41.2	3.0	55.1*	--	--	--	--
Kruger K-399+RR	9-13	37.6	2.6	54.6*	33.5	--	44.1	--
Mersch. Memphis IVRR	9-19	39.0	2.5	54.3*	27.4	--	40.9	--
Willcross RR 2469N	9-18	36.7	2.0	54.3*	--	--	--	--
Gateway 4R472	9-21	39.0	3.7	53.8*	--	--	--	--
Stine 4402-4	9-19	36.1	2.3	53.5*	--	--	--	--
NK Brand S46-W8	9-19	42.4	3.3	52.8*	37.4**	--	45.1	--
Mersch. Richmond VIRR	9-20	40.0	1.6	52.7*	35.6	--	44.2	--
Mersch. Denver RRSTS	9-20	35.1	2.9	52.5*	--	--	--	--
Dyna-Gro 3442NRR	9-19	36.8	3.3	52.2*	33.6	--	42.9	--
Dyna-Gro 3399RR	9-13	36.2	2.1	51.4	--	--	--	--
NC+ 4A29RR	9-19	40.7	2.7	51.2	28.7	--	40.0	--
Gateway 4R453	9-19	39.7	2.5	51.1	--	--	--	--
Willcross RR 2480N	9-22	40.9	3.0	50.8	--	--	--	--
Lewis 4392 RR	9-18	42.5	4.0	50.3	35.7	--	43.0	--
NK Brand S46-G2	9-20	41.8	2.7	49.8	--	--	--	--
Croplan Gen. RC4495	9-18	39.2	1.6	49.6	--	--	--	--
Stine 4802-4	9-22	44.8	3.2	49.3	--	--	--	--
Pioneer variety 9492	9-20	41.2	3.3	49.3	--	--	--	--
Golden Harvest H-4122RR	9-15	36.5	3.0	49.1	--	--	--	--
MPride/MPV 457NRR	9-19	40.1	2.4	49.0	33.0	48.1*	41.0	43.4
Morsoy RT 4729Scn	9-16	42.0	2.3	49.0	--	--	--	--
Stine 4212-4	9-13	40.2	2.6	48.7	--	--	--	--
Morsoy RT 4478Scn	9-16	36.5	2.1	48.5	34.7	41.2	41.6	41.5
Asgrow AG4301	9-18	39.0	1.7	48.4	35.0	49.2*	41.7	44.2
Willcross RR 2420N	9-14	38.8	2.3	48.4	--	--	--	--
Pioneer variety 94B01	9-13	38.9	2.4	48.1	34.0	49.5*	41.1	43.9
Garst AP 4501RR/N	9-18	37.5	3.0	48.0	--	--	--	--
U.S. Seeds US S4409RR	9-20	40.7	3.2	48.0	33.4	--	40.7	--
Willcross RR 2430N	9-16	38.2	1.6	47.9	--	--	--	--
U.S. Seeds US S4200RR	9-13	37.8	2.4	47.7	--	--	--	--
NK Brand S42-M1	9-16	49.8	3.1	47.2	29.3	--	38.3	--
AgriPro AP 4319RR/N	9-19	40.0	3.2	47.1	28.5	44.2	37.8	39.9
MPride/MPV 437NRR	9-17	38.3	1.2	47.0	29.9	50.0**	38.5	42.3
Atlas Mycogen 5441NRR	9-21	40.1	2.5	46.8	33.5	--	40.2	--
Mersch. Norfolk IVRR	9-18	37.9	1.9	46.0	37.0	--	41.5	--
Morsoy RT 4110N	9-16	41.7	3.5	45.8	--	--	--	--
LG Seeds LGC 4350NRR	9-17	39.0	2.6	45.7	--	--	--	--
Lewis 4228 RR	9-15	40.1	2.8	45.0	--	--	--	--
Advanced Gen. AG4088RR	9-16	39.3	2.8	44.5	29.9	39.5	37.2	38.0
GROUP 4 AVERAGE	9-18	39.6	2.6	49.9	32.5	43.7	41.2	42.0
L.S.D. AT .10	2	3.6	0.9	5.0	NS	4.9		
C.V. %	0.6	6.7		7.3	14.4	6.7		
TRIAL AVERAGE		38.4	2.5	55.1	36.0	42.1	45.5	44.4

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 55. Performance of Roundup Ready Soybean Varieties evaluated near Truxton (Montgomery County) on the Roy Cope Farm during 1998-2000.

Planted: 3 May 2000
 Harvested: 3 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.9, OM=2.5%, P=60, K=182

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Extreme, Authority
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: No-Till

Cyst Nematode Population at Planting: 280 Eggs/250cc of soil

Growing Season Rainfall: May=3.9, June=8.4, July=5.0, Aug.=10.1, Sept.=2.0 TOTAL=29.4 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 3							
Kruger K-369 RR/SCN	9-08	45.0	2.7	60.4**	--	--	--	--
Kruger K-373 + RR	9-09	40.3	3.6	56.3*	29.7	--	43.0	--
Midland XA371NRR#	9-11	41.7	3.4	55.7*	--	--	--	--
AgriPro AP 3792RR/N	9-09	42.0	3.0	55.0*	27.0	--	41.0	--
Kruger K-389RR/SCN	9-10	42.3	3.3	54.6*	--	--	--	--
AgriPro AP 3955RR/N	9-11	42.7	4.0	54.3*	--	--	--	--
NK Brand X 039#	9-14	35.7	1.3	54.1*	--	--	--	--
Dekalb DKB38-51	9-14	38.3	2.3	53.2*	--	--	--	--
Asgrow AG3702	9-12	37.7	3.4	53.1	32.0	--	42.6	--
Kruger K-388 +RR	9-10	40.3	2.6	52.0	--	--	--	--
Golden Harvest H-3848RR	9-11	46.3	2.3	51.9	28.4	40.9	40.2	40.4
Lewis 3999 RR	9-15	38.3	3.7	51.8	27.8	--	39.8	--
Croplan Gen. RC3838	9-11	40.7	2.9	51.5	--	--	--	--
Dekalb DKB36-51c	9-12	41.3	3.7	50.6	--	--	--	--
Dyna-Gro 3388RR	9-12	37.3	2.7	50.6	29.2	46.9	39.9	42.2
Asgrow AG3701	9-12	41.7	3.3	49.9	34.7**	53.9	42.3	46.2
Midland 8394NRR	9-12	43.3	4.3	49.6	30.7	44.2	40.2	41.5
Croplan Gen. RT3557	9-12	43.7	3.1	49.5	--	--	--	--
Midland 9G380RR/STS	9-12	41.3	3.3	48.8	--	--	--	--
Pioneer variety 93B84	9-10	41.7	2.1	48.6	29.1	--	38.9	--
Kruger K-349RR	9-06	37.3	4.0	48.6	--	--	--	--
NC+ 3A77RR	9-12	40.0	2.7	48.6	--	--	--	--
AgriPro AP 3510RR	9-09	41.3	3.4	48.3	--	--	--	--
Midland 9A380RR	9-13	40.0	3.0	48.2	--	--	--	--
Excel 8395RR	9-14	43.0	3.7	47.4	--	--	--	--
Morsoy RT 3739	9-13	37.3	3.0	47.3	31.6	--	39.5	--
Kruger K-393RR	9-15	42.3	3.7	47.3	26.3	--	36.8	--
Kruger K-369 RR	9-07	39.3	4.0	47.0	31.8	--	39.4	--
Morsoy RT 3967Scn	9-13	41.3	3.7	46.2	30.1	45.6	38.2	40.6
Mersch. Fillmore VRR	9-08	35.3	2.7	46.2	30.0	--	38.1	--
Kruger K-369 +RR	9-07	35.0	3.1	46.1	--	--	--	--
Croplan Gen. 370RR	9-14	41.3	2.6	45.8	24.7	--	35.3	--
Willcross RR 2390	9-12	41.0	2.6	44.6	--	--	--	--
Advanced Gen. AG3797RR	9-14	43.7	3.0	44.3	28.1	48.0	36.2	40.1
Garst D370RR	9-12	42.3	3.3	43.9	--	--	--	--
AgriPro AP 3611RR/N	9-06	43.0	3.0	43.3	26.2	47.1	34.8	38.9
Morsoy RT 3859N	9-11	41.7	2.9	42.9	--	--	--	--
Dyna-Gro 3394RR	9-13	36.3	3.6	40.7	27.0	--	33.9	--
MPride/MPV 398NRR	9-14	39.0	3.8	40.0	30.9	--	35.5	--
GROUP 3 AVERAGE	9-11	40.6	3.1	49.2	28.9	46.4	39.1	41.5
L.S.D. AT .10	2	3.9	0.9	7.2	2.6	NS		
C.V. %	0.5	7.1		10.7	6.5	--		

TABLE 55. Continued

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Kruger K-399+RR	9-12	38.3	2.7	58.6**	24.6	--	41.6	--
NK Brand S46-W8	9-15	46.0	2.9	56.3*	28.8*	--	42.6	--
Dekalb DKB44-51c	9-15	42.9	2.0	56.2*	--	--	--	--
Asgrow AG4403	9-15	44.5	1.4	56.0*	--	--	--	--
Gateway 4R453	9-14	43.5	2.1	55.3*	--	--	--	--
Stine 4402-4	9-14	40.9	3.0	54.7*	--	--	--	--
Mersch. Denver RRSTS	9-14	42.2	2.7	54.3*	--	--	--	--
Willcross RR 2469N	9-14	43.2	1.6	54.2*	--	--	--	--
Asgrow AG4301	9-16	42.2	2.1	53.5*	29.7*	48.6	41.6	43.9
Dyna-Gro 3399RR	9-14	39.6	2.9	53.3*	--	--	--	--
LG Seeds LGC 4350NRR	9-14	42.2	2.4	53.3*	--	--	--	--
U.S. Seeds US S4200RR	9-12	40.8	3.4	53.3*	--	--	--	--
Mersch. Richmond VIRR	9-16	43.4	2.6	53.1*	28.5*	--	40.8	--
Gateway 4R472	9-19	46.0	2.7	53.1*	--	--	--	--
NK Brand S42-M1	9-14	44.3	2.8	53.1*	26.3	--	39.7	--
Garst AP 4501RR/N	9-15	43.4	2.4	52.9*	--	--	--	--
Mersch. Memphis IVRR	9-15	41.9	2.4	52.8	25.0	--	38.9	--
Pioneer variety 9492	9-16	44.1	1.9	52.8	--	--	--	--
Willcross RR 2480N	9-16	38.3	2.6	52.8	--	--	--	--
MPride/MPV 457NRR	9-15	44.7	1.9	52.8	28.3*	45.5	40.6	42.2
U.S. Seeds US S4409RR	9-16	45.7	3.3	52.8	26.7	--	39.8	--
Stine 4212-4	9-13	42.4	1.9	52.8	--	--	--	--
Willcross RR 2430N	9-14	41.0	2.1	52.7	--	--	--	--
Morsoy RT 4478Scn	9-14	40.6	2.2	52.4	27.6*	40.8	40.0	40.3
Willcross RR 2420N	9-12	43.5	1.7	52.1	--	--	--	--
Pioneer variety 94B01	9-13	39.3	1.6	51.7	29.5*	49.6	40.6	43.6
MPride/MPV 437NRR	9-14	40.7	1.6	51.2	27.4*	46.5	39.3	41.7
Morsoy RT 4729Scn	9-15	41.3	2.4	51.0	--	--	--	--
NC+ 4A29RR	9-15	41.9	3.1	51.0	25.0	--	38.0	--
AgriPro AP 4319RR/N	9-16	40.2	3.0	50.0	25.2	48.0	37.6	41.1
Morsoy RT 4110N	9-14	44.3	4.0	49.9	--	--	--	--
Dyna-Gro 3442NRR	9-16	42.6	3.9	49.3	25.8	--	37.6	--
Stine 4802-4	9-17	45.6	2.0	49.1	--	--	--	--
Golden Harvest H-4122RR	9-14	38.6	4.7	48.6	--	--	--	--
Willcross RR 2449N	9-15	43.5	2.5	48.3	--	--	--	--
NK Brand S46-G2	9-15	44.9	2.0	48.1	--	--	--	--
Mersch. Norfolk IVRR	9-16	40.1	2.1	48.1	27.6*	--	37.9	--
Atlas Mycogen 5441NRR	9-16	43.3	2.7	48.0	25.9	--	37.0	--
Lewis 4392 RR	9-15	43.7	2.6	46.2	28.0*	--	37.1	--
Croplan Gen. RC4495	9-14	39.3	1.5	45.0	--	--	--	--
Advanced Gen. AG4088RR	9-14	39.7	3.0	44.7	25.1	37.5	34.9	35.8
Lewis 4228 RR	9-14	41.9	1.7	43.7	--	--	--	--
GROUP 4 AVERAGE	9-15	42.3	2.5	51.6	26.4	43.1	39.0	40.4
L.S.D. AT .10	1	3.0	0.8	5.7	2.7	NS		
C.V. %	0.3	5.2		8.1	7.4	--		
TRIAL AVERAGE		41.5	2.8	50.5	27.7	45.1	39.1	41.1

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 56. Performance of Roundup Ready Soybean Varieties evaluated near Annada (Pike County) on the Bob Burkemper Farm during 1998-2000.

Planted: 4 May 2000
 Harvested: 9 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Tice Silt Loam
 Soil Test: pH=5.1, OM=2.2%, P=109, K=317

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual II Mag., Scepter
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Corn
 Tillage: Conventional

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

Growing Season Rainfall: May=4.0, June=8.4, July=5.6, Aug.=4.0, Sept.=2.6 TOTAL=24.6 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 3								
Croplan Gen. 370RR	9-13	50.0	4.3	64.9**	40.9*	--	52.9	--
Dekalb DKB38-51	9-15	48.4	3.4	63.2*	--	--	--	--
Dekalb DKB36-51c	9-11	48.2	4.5	62.0*	--	--	--	--
Asgrow AG3701	9-11	48.2	4.9	61.8*	40.1	59.7	51.0	53.9
Morsoy RT 3739	9-14	44.5	4.8	61.2*	41.1*	--	51.2	--
Midland 8394NRR	9-12	47.9	5.0	60.6*	38.0	53.3	49.3	50.6
NC + 3A77RR	9-12	46.5	4.9	60.4*	--	--	--	--
NK Brand X 039#	9-11	45.9	4.8	60.3*	--	--	--	--
Kruger K-349RR	9-06	43.0	4.8	60.3*	--	--	--	--
Mersch. Fillmore VRR	9-08	42.2	4.9	59.7*	42.3*	--	51.0	--
Kruger K-373+ RR	9-11	45.8	5.0	59.1*	40.8*	--	50.0	--
Excel 8395RR	9-13	45.6	5.0	59.0*	--	--	--	--
AgriPro AP 3510RR	9-09	48.3	4.5	58.1	--	--	--	--
Kruger K-369 RR/SCN	9-08	49.0	4.9	57.7	--	--	--	--
Asgrow AG3702	9-09	42.7	5.0	57.3	37.2	--	47.3	--
Kruger K-369 RR	9-10	45.1	4.8	57.2	40.8*	--	49.0	--
Lewis 3999 RR	9-14	47.7	5.0	57.2	44.0**	--	50.6	--
Garst D370RR	9-13	47.4	5.0	57.1	--	--	--	--
Kruger K-388+RR	9-11	45.1	4.9	57.0	--	--	--	--
Pioneer variety 93B84	9-12	48.7	4.9	57.0	38.3	--	47.7	--
Croplan Gen. RC3838	9-11	46.0	4.9	56.6	--	--	--	--
Midland 9G380RR/STS	9-13	44.2	4.9	56.5	--	--	--	--
Kruger K-393RR	9-14	47.6	4.8	56.4	39.9	--	48.2	--
Midland XA371NRR#	9-11	43.3	5.0	55.8	--	--	--	--
AgriPro AP 3792RR/N	9-12	45.3	4.9	55.5	39.8	--	47.7	--
Dyna-Gro 3388RR	9-13	47.7	4.8	55.4	39.8	44.7	47.6	46.6
Kruger K-389RR/SCN	9-11	45.9	5.0	54.7	--	--	--	--
Morsoy RT 3967Scn	9-12	45.6	5.0	54.6	41.0*	55.3	47.8	50.3
Kruger K-369+RR	9-08	42.0	5.0	54.6	--	--	--	--
MPride/MPV 398NRR	9-13	44.3	5.0	53.9	42.9*	--	48.4	--
AgriPro AP 3611RR/N	9-08	48.0	5.0	53.8	38.4	59.5	46.1	50.6
Croplan Gen. RT3557	9-12	46.0	4.9	53.7	--	--	--	--
Advanced Gen. AG3797RR	9-14	45.8	5.0	53.2	41.2*	62.9	47.2	52.4
Golden Harvest H-3848RR	9-13	46.2	4.9	52.9	37.8	54.9	45.4	48.5
Midland 9A380RR	9-14	42.8	5.0	52.4	--	--	--	--
Morsoy RT 3859N	9-11	46.9	5.0	51.3	--	--	--	--
Dyna-Gro 3394RR	9-13	48.4	4.9	51.1	38.3	--	44.7	--
AgriPro AP 3955RR/N	9-11	50.2	5.0	49.6	--	--	--	--
Willcross RR 2390	9-13	42.9	5.0	46.9	--	--	--	--
GROUP 3 AVERAGE	9-12	46.1	4.8	56.7	39.4	54.9	48.1	50.3
L.S.D. AT .10	2	3.5	0.4	6.3	3.7	NS		
C.V. %	0.5	5.5		8.1	6.8	--		

TABLE 56. Continued

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Morsoy RT 4729Scn	9-16	49.0	4.3	61.3**	--	--	--	--
Dyna-Gro 3399RR	9-14	47.9	3.6	61.0*	--	--	--	--
Kruger K-399+RR	9-15	47.8	4.0	60.1*	37.3	--	48.7	--
NC+ 4A29RR	9-15	47.6	4.1	59.5*	40.5*	--	50.0	--
Morsoy RT 4478Scn	9-15	47.7	4.3	58.0*	38.8	50.2	48.4	49.0
Mersch. Memphis IVRR	9-16	48.2	3.8	57.5*	29.4	--	43.5	--
Morsoy RT 4110N	9-15	49.9	4.9	56.7*	--	--	--	--
Dekalb DKB44-51c	9-16	52.0	4.4	56.7*	--	--	--	--
Lewis 4228 RR	9-15	46.6	4.5	55.6*	--	--	--	--
Asgrow AG4301	9-16	47.1	4.5	55.5*	41.3*	60.9	48.4	52.6
Asgrow AG4403	9-16	48.6	3.9	54.9*	--	--	--	--
Willcross RR 2449N	9-17	47.2	4.9	54.6*	--	--	--	--
Lewis 4392 RR	9-16	42.4	5.0	54.3*	36.8	--	45.6	--
Garst AP 4501RR/N	9-17	47.0	4.4	54.1	--	--	--	--
Pioneer variety 94B01	9-13	49.9	3.9	54.0	38.3	58.8	46.2	50.4
Willcross RR 2480N	9-17	51.7	4.9	53.3	--	--	--	--
Mersch. Richmond VIRR	9-16	49.1	3.2	53.3	36.6	--	45.0	--
Stine 4212-4	9-14	46.7	4.3	53.0	--	--	--	--
Gateway 4R472	9-17	51.7	4.9	53.0	--	--	--	--
MPride/MPV 457NRR	9-16	48.8	4.9	52.5	36.0	55.9	44.3	48.1
Willcross RR 2430N	9-14	49.3	3.4	52.3	--	--	--	--
Stine 4402-4	9-15	47.0	5.0	52.2	--	--	--	--
MPride/MPV 437NRR	9-14	46.7	4.2	52.1	42.3**	55.1	47.2	49.8
Willcross RR 2469N	9-16	49.9	4.7	52.0	--	--	--	--
Willcross RR 2420N	9-13	47.8	3.4	51.3	--	--	--	--
Pioneer variety 9492	9-17	50.6	4.4	51.2	--	--	--	--
U.S. Seeds US 54200RR	9-12	47.3	5.0	51.1	--	--	--	--
U.S. Seeds US 54409RR	9-16	48.2	4.7	50.9	39.0*	--	45.0	--
NK Brand S46-W8	9-16	49.5	4.3	50.6	39.2*	--	44.9	--
Dyna-Gro 3442NRR	9-14	45.5	4.8	50.4	36.4	--	43.4	--
AgriPro AP 4319RR/N	9-18	49.1	5.0	50.3	38.2	55.1	44.3	47.9
Mersch. Denver RRSTS	9-15	46.1	3.3	50.0	--	--	--	--
Gateway 4R453	9-15	48.7	3.9	49.9	--	--	--	--
Stine 4802-4	9-16	52.6	4.9	49.8	--	--	--	--
NK Brand S46-G2	9-15	52.3	3.9	49.8	--	--	--	--
Atlas Mycogen 5441NRR	9-16	48.2	4.9	48.7	39.7*	--	44.2	--
LG Seeds LGC 4350NRR	9-15	47.4	4.4	48.5	--	--	--	--
Mersch. Norfolk IVRR	9-16	48.4	2.8	48.2	38.2	--	43.2	--
Golden Harvest H-4122RR	9-14	43.7	3.4	48.1	--	--	--	--
NK Brand S42-M1	9-15	48.8	4.3	48.1	34.8	--	41.5	--
Advanced Gen. AG4088RR	9-15	46.1	5.0	47.4	35.3	55.3	41.4	46.0
Croplan Gen. RC4495	9-15	48.4	3.0	47.3	--	--	--	--
GROUP 4 AVERAGE	9-15	48.3	4.3	52.8	37.2	53.7	45.0	47.9
L.S.D. AT .10	2	3.2	1.1	7.1	3.4	NS		
C.V. %	0.5	4.8		9.8	6.6	--		
TRIAL AVERAGE		47.3	4.6	54.7	38.3	54.4	46.5	49.1

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 57. Yield Summary for Roundup Ready Soybeans evaluated at Five Central Locations (Henrietta, Grand Pass, Columbia, Truxton and Annada) during 2000.

<u>Henrietta</u>	<u>Grand Pass</u>	<u>Columbia</u>
Planted: 2 May 2000	Planted: 11 May 2000	Planted: 5 May 2000
Harvested: 18 September 2000	Harvested: 10 October 2000	Harvested: 28 Sept., 3 Oct. 2000
Growing Season Rainfall: 22.3"	Growing Season Rainfall: 19.9"	Growing Season Rainfall: 32.3"
<u>Truxton</u>	<u>Annada</u>	
Planted: 3 May 2000	Planted: 4 May 2000	
Harvested: 3 October 2000	Harvested: 9 October 2000	
Growing Season Rainfall: 29.4"	Growing Season Rainfall: 24.6"	

	Yield (Bu/Acre)					
Brand-Variety	Henrietta	Grand Pass	Columbia	Truxton	Annada	Mean

MATURITY GROUP 3

Kruger K-369 RR/SCN	45.8*	44.2	65.5*	60.4**	57.7	54.7**
Dekalb DKB36-51c	47.5*	45.4*	67.0**	50.6	62.0*	54.5*
Midland XA371NRR#	49.0**	45.9*	66.1*	55.7*	55.8	54.5*
Dekalb DKB38-51	43.7	44.4	64.9*	53.2*	63.2*	53.9*
Asgrow AG3701	45.6*	47.1*	63.7*	49.9	61.8*	53.6*
Kruger K-373 + RR	41.3	45.5*	65.2*	56.3*	59.1*	53.5*
Kruger K-389RR/SCN	44.3*	47.3*	65.9*	54.6*	54.7	53.4*
Croplan Gen. RC3838	41.8	47.5*	65.2*	51.5	56.6	52.5*
NK Brand X 039#	40.3	43.7	63.8*	54.1*	60.3*	52.4*
Kruger K-388 +RR	39.8	46.2*	63.9*	52.0	57.0	51.8*
Kruger K-349RR	45.0*	44.4	58.9	48.6	60.3*	51.4
AgriPro AP 3510RR	35.7	49.1*	62.4*	48.3	58.1	50.7
Croplan Gen. 370RR	41.2	40.0	59.1	45.8	64.9**	50.2
Golden Harvest H-3848RR	38.3	44.2	60.6	51.9	52.9	49.6
NC+ 3A77RR	32.0	44.1	62.7*	48.6	60.4*	49.6
Pioneer variety 93B84	31.6	48.6*	61.9*	48.6	57.0	49.5
AgriPro AP 3792RR/N	34.1	44.0	58.8	55.0*	55.5	49.5
Kruger K-369 RR	38.6	47.2*	57.2	47.0	57.2	49.4
Lewis 3999 RR	33.1	47.1*	57.2	51.8	57.2	49.3
Croplan Gen. RT3557	38.3	49.8**	54.9	49.5	53.7	49.2
Morsoy RT 3739	35.6	38.2	60.1	47.3	61.2*	48.5
Asgrow AG3702	35.1	37.0	59.8*	53.1	57.3	48.4
Midland 9A380RR	36.1	41.7	62.4*	48.2	52.4	48.2
Mersch. Fillmore VRR	39.2	33.9	60.7*	46.2	59.7*	47.9
Midland 8394NRR	38.2	31.3	59.2	49.6	60.6*	47.8
Dyna-Gro 3388RR	31.6	38.8	61.5*	50.6	55.4	47.6
Kruger K-369 +RR	40.2	35.7	60.7*	46.1	54.6	47.4
AgriPro AP 3955RR/N	36.7	35.4	59.8*	54.3*	49.6	47.2
Garst D370RR	32.9	40.9	57.9	43.9	57.1	46.5
Midland 9G380RR/STS	32.7	35.7	57.6	48.8	56.5	46.2
Advanced Gen. AG3797RR	35.2	35.8	62.4*	44.3	53.2	46.2
AgriPro AP 3611RR/N	35.0	36.6	61.8*	43.3	53.8	46.1
Excel 8395RR	29.1	31.5	61.3*	47.4	59.0*	45.7
Kruger K-393RR	30.1	30.2	63.8*	47.3	56.4	45.6
Morsoy RT 3859N	41.4	36.5	53.0	42.9	51.3	45.0
Morsoy RT 3967Scn	36.5	29.2	57.8	46.2	54.6	44.8
MPride/MPV 398NRR	36.7	35.3	55.9	40.0	53.9	44.4
Dyna-Gro 3394RR	34.8	37.3	54.9	40.7	51.1	43.8
Willcross RR 2390	36.2	32.6	54.7	44.6	46.9	43.0
GROUP 3 AVERAGE	38.0	40.8	60.8	49.2	56.7	49.1
L.S.D. AT .10	4.8	4.7	6.3	7.2	6.3	3.0
C.V.%	9.2	8.4	7.5	10.7	8.1	10.1

TABLE 57. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Henrietta	Grand Pass	Columbia	Truxton	Annada	
MATURITY GROUP 4						
Dyna-Gro 3399RR	38.5*	52.1**	51.4	53.3*	61.0*	51.2**
Kruger K-399+RR	34.7	40.8	54.6*	58.6**	60.1*	49.8*
Asgrow AG4403	35.7*	43.4	57.2**	56.0*	54.9*	49.4*
Dekalb DKB44-51c	34.8	41.7	55.2*	56.2*	56.7*	48.9*
Stine 4212-4	41.0*	45.9	48.7	52.8	53.0	48.3
Willcross RR 2420N	41.3**	47.1	48.4	52.1	51.3	48.0
Stine 4402-4	38.1*	41.4	53.5*	54.7*	52.2	48.0
Mersch. Memphis IVRR	34.3	39.2	54.3*	52.8	57.5*	47.6
Lewis 4392 RR	36.9*	49.7*	50.3	46.2	54.3*	47.5
Morsoy RT 4478Scn	39.1*	39.2	48.5	52.4	58.0*	47.4
NC+ 4A29RR	29.3	45.6	51.2	51.0	59.5*	47.3
Asgrow AG4301	35.2	43.4	48.4	53.5*	55.5*	47.2
Willcross RR 2469N	33.4	39.4	54.3*	54.2*	52.0	46.7
U.S. Seeds US S4200RR	38.2*	41.9	47.7	53.3*	51.1	46.4
Mersch. Richmond VIRR	37.0*	36.1	52.7*	53.1*	53.3	46.4
Dyna-Gro 3442NRR	31.6	48.3*	52.2*	49.3	50.4	46.4
Mersch. Denver RRSTS	34.2	40.5	52.5*	54.3*	50.0	46.3
Gateway 4R472	27.5	43.4	53.8*	53.1*	53.0	46.2
U.S. Seeds US S4409RR	30.9	47.6	48.0	52.8	50.9	46.0
Pioneer variety 9492	33.9	42.5	49.3	52.8	51.2	45.9
Pioneer variety 94B01	35.1	40.3	48.1	51.7	54.0	45.8
NK Brand S46-W8	34.9	34.5	52.8*	56.3*	50.6	45.8
Morsoy RT 4729Scn	30.7	37.0	49.0	51.0	61.3**	45.8
Willcross RR 2480N	34.9	35.8	50.8	52.8	53.3	45.5
Willcross RR 2449N	36.3*	32.2	55.1*	48.3	54.6*	45.3
Garst AP 4501RR/N	35.8*	35.3	48.0	52.9*	54.1	45.2
Gateway 4R453	28.6	39.7	51.1	55.3*	49.9	44.9
Morsoy RT 4110N	29.4	42.4	45.8	49.9	56.7*	44.8
Golden Harvest H-4122RR	30.3	46.7	49.1	48.6	48.1	44.6
MPride/MPV 457NRR	32.2	36.1	49.0	52.8	52.5	44.5
Stine 4802-4	36.0*	37.8	49.3	49.1	49.8	44.4
Willcross RR 2430N	32.1	36.9	47.9	52.7	52.3	44.4
MPride/MPV 437NRR	31.3	38.4	47.0	51.2	52.1	44.0
NK Brand S46-G2	35.9*	35.4	49.8	48.1	49.8	43.8
Croplan Gen. RC4495	37.0*	38.8	49.6	45.0	47.3	43.5
AgriPro AP 4319RR/N	27.9	42.1	47.1	50.0	50.3	43.5
Atlas Mycogen 5441NRR	38.4*	32.4	46.8	48.0	48.7	42.9
NK Brand S42-M1	27.8	33.2	47.2	53.1*	48.1	41.9
Mersch. Norfolk IVRR	31.7	35.3	46.0	48.1	48.2	41.8
LG Seeds LGC 4350NRR	28.0	33.3	45.7	53.3*	48.5	41.8
Lewis 4228 RR	27.2	34.3	45.0	43.7	55.6*	41.2
Advanced Gen. AG4088RR	22.5	36.5	44.5	44.7	47.4	39.1
GROUP 4 AVERAGE	33.6	40.1	49.9	51.6	52.8	45.6
L.S.D. AT .10	5.7	3.9	5.0	5.7	7.1	2.6
C.V.%	12.4	7.1	7.3	8.1	9.8	9.6
TRIAL AVERAGE	35.7	40.4	55.1	50.5	54.7	47.3

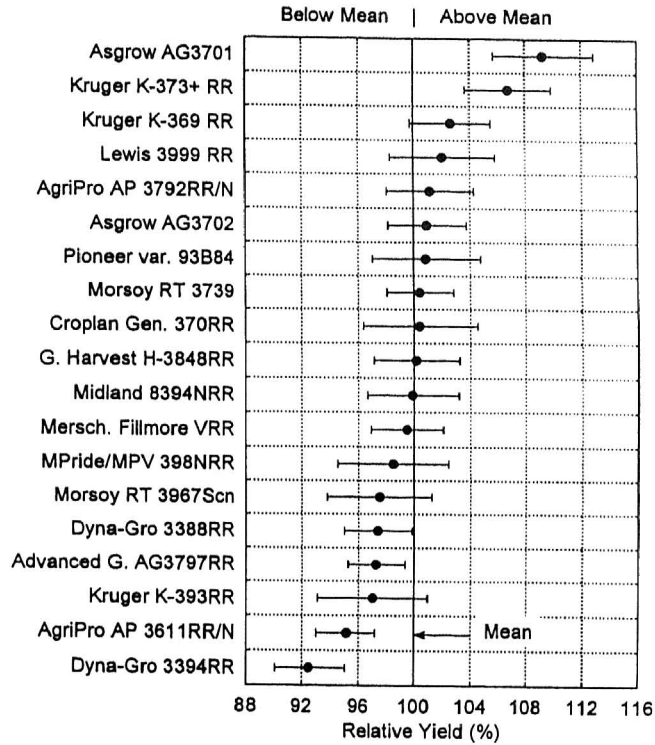
Experimental variety.

** Highest yielding variety in the maturity group.

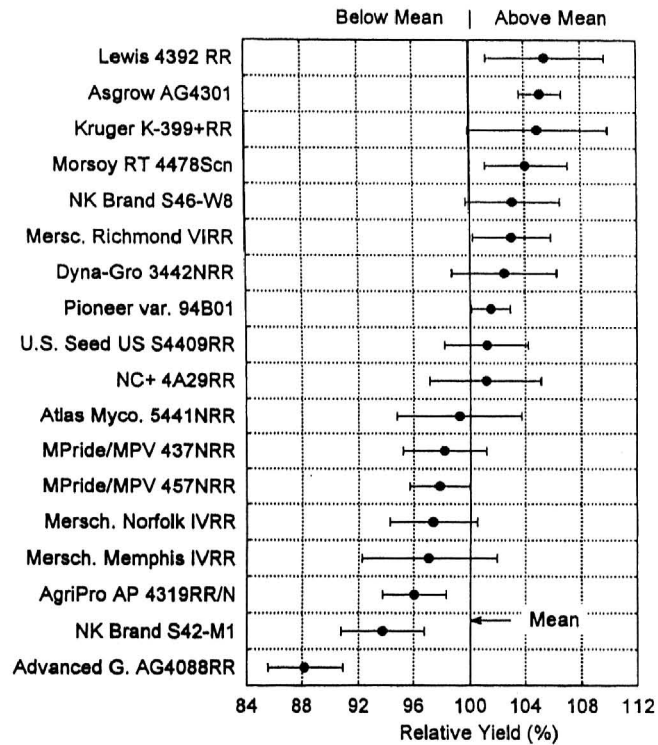
* Yield not significantly less than the highest yielding variety in the maturity group.

Figure 10. Graphic Summary of Two-year (99/2000) Results of Roundup Ready Soybean Varieties at Five Central Missouri Locations.

MG III



MG IV



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 58. Performance of Roundup Ready Soybean evaluated near Garden City (Cass County) on the Bill Cook Farm during 2000 and near Archie on the Tom Kurzweil Farm 1998-99.

Planted: 2 May 2000
 Harvested: 22 Sept., 10 Oct. 2000
 Planted Population: 156,800 Seeds/A
 Row Spacing: 30 inches
 Soil Type: Kenoma Silt Loam
 Soil Test: pH=5.4, OM=2.8%, P=50, K=397

Fertilizer: N=0, P₂O₅=0, K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Soybean
 Tillage: Conventional

Cyst Nematode Population at Planting: 1680 Eggs/250cc of soil
 Growing Season Rainfall: May=3.9, June=7.0, July=2.6, Aug.=1.1, Sept.=3.4 TOTAL=18.0 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Croplan Gen. RC3838##	9-02	31.8	1.0	37.8**	--	--	--	--
Dyna-Gro 3388RR##	9-04	36.1	1.3	32.2	--	31.3	--	--
Dyna-Gro 3468NRR	9-11	32.7	1.3	31.8	48.2*	--	40.0	--
Dyna-Gro 3399RR	9-02	32.8	1.0	31.6	--	--	--	--
Mersch. Memphis IVRR	9-10	32.2	1.0	31.4	--	--	--	--
Delta King DPMS 3801RR##	9-04	32.2	1.1	31.3	--	--	--	--
Croplan Gen. 370RR##	9-05	34.4	1.0	31.1	--	--	--	--
Morsoy RT 4478Scn	9-07	32.9	1.4	31.1	48.1*	--	39.6	--
Delta King DPMS 3901RR##	9-03	31.8	1.0	30.6	--	--	--	--
NK Brand S46-W8	9-08	38.9	2.6	29.8	49.5*	--	39.7	--
Asgrow AG4602	9-08	37.0	2.0	29.3	44.1	--	36.7	--
Stine 4402-4	9-07	37.1	2.0	29.3	--	--	--	--
NK Brand S46-G2	9-10	40.8	1.6	28.4	--	--	--	--
Dyna-Gro 3394RR##	9-05	33.2	1.0	28.0	--	--	--	--
Croplan Gen. RC4495	9-07	32.6	1.0	27.8	--	--	--	--
MPride/MPV 457NRR	9-06	37.4	1.7	27.5	40.9	37.0	34.2	35.1
Asgrow AG4403	9-08	38.4	1.1	27.5	--	--	--	--
Dyna-Gro 3442NRR	9-04	37.3	3.6	27.4	47.3*	--	37.4	--
Garst AP 4501RR/N	9-07	39.6	1.6	27.1	--	--	--	--
Dekalb CX444cRR	9-08	37.4	1.1	27.0	42.7	36.4	34.9	35.4
Dekalb CX480cRR	9-11	39.0	1.7	27.0	--	--	--	--
Willcross RR 2480N	9-11	36.8	2.0	26.9	--	--	--	--
Triumph-TR4810RR	9-12	40.1	1.3	26.9	--	--	--	--
Midland 9A480NRR	9-11	41.9	2.0	26.7	48.4*	--	37.6	--
Atlas Mycogen 5480NRR	9-11	39.6	1.7	26.5	--	--	--	--
Asgrow AG4301	9-08	33.5	1.0	26.1	49.7**	35.3	37.9	37.0
Delta King XTJ0584RR#	9-10	37.7	1.0	26.0	--	--	--	--
Asgrow AG4902	9-13	35.1	1.0	25.7	43.2	--	34.5	--
U.S. Seeds US S4809RR	9-12	37.2	1.6	25.3	46.2*	--	35.8	--
Croplan Gen. 480RR	9-09	37.6	1.7	25.0	48.6*	--	36.8	--
U.S. Seeds US S4409RR	9-05	39.6	3.3	24.8	45.3*	--	35.1	--
Dyna-Gro 3484NRR	9-11	38.4	1.3	24.7	--	--	--	--
Mersch. Richmond VIRR	9-10	36.7	1.7	24.7	--	--	--	--
Dekalb DKB44-51c	9-07	37.9	1.0	24.6	--	--	--	--
Stine 4802-4	9-11	39.1	2.0	24.5	--	--	--	--
Delta King DPMS 4401RR#	9-08	40.4	1.3	24.4	--	--	--	--
Mersch. Norfolk IVRR	9-09	32.9	1.0	24.4	--	--	--	--
Midland 9A441NRR	9-09	40.0	1.6	24.0	--	--	--	--
Morsoy RT 4889N	9-10	37.2	1.0	23.7	--	--	--	--
Garst D484 RR/N	9-11	38.0	1.0	23.6	--	--	--	--
Delta King 4868 RR	9-10	38.4	1.0	22.9	--	--	--	--
Morsoy RT 4729Scn	9-08	36.8	1.3	22.0	45.0*	--	33.5	--
Willcross RR 2490N	9-12	39.0	1.4	21.9	--	--	--	--
Pioneer variety 9492	9-11	36.3	1.3	21.7	46.5*	41.3	34.1	36.5
GROUP 4 AVERAGE	9-08	36.7	1.5	27.1	44.1	35.0	35.6	35.4
L.S.D. AT .10	2	3.2	0.6	4.2	5.1	NS		
C.V. %	0.4	6.4		11.3	8.5	-		

TABLE 58. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 5								
Asgrow AG5001	9-14	39.7	1.2	20.1**	42.9**	--	31.5	--
NC+ 5A45RR	9-19	36.3	2.3	16.4	--	30.4	--	--
Dyna-Gro 3513NRR	9-18	41.0	1.1	16.0	--	--	--	--
Willcross RR 2549N	9-22	39.7	2.2	15.7	--	--	--	--
Morsoy RT 5220N	9-19	40.0	1.6	15.5	--	--	--	--
Pioneer variety 95B53	9-26	33.0	1.1	14.0	--	--	--	--
Delta King 5661 RR	9-27	40.7	1.2	13.1	--	--	--	--
MPride/MPV 537NRR	9-23	36.7	2.2	12.8	38.8	28.0	25.8	26.5
Willcross RR 2520N	9-21	35.3	1.0	12.2	--	--	--	--
MPride/MPV 519NRR	9-21	34.3	1.1	12.2	--	--	--	--
GROUP 5 AVERAGE	9-21	37.7	1.5	14.8	39.6	28.2	27.2	27.5
L.S.D. AT .10	1	4.1	0.4	2.1	NS	NS		
C.V. %	0.3	7.9		9.7	16.2	-		
TRIAL AVERAGE		36.9	1.5	24.8	43.6	33.8	34.2	34.1

Maturity group III soybean variety entered in the maturity group IV test.
Experimental variety.
-- Data not available.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.

TABLE 59. Performance of Roundup Ready Soybean Varieties evaluated near Butler (Bates County) on the Dale Bettles Farm during 1998-2000.

Planted: 3 May 2000
 Harvested: 13 Sept., 10 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Kenoma Silt Loam
 Soil Test: pH=6.8, OM=4.2%, P=91, K=396

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Roundup Ultra
 Irrigation: 0.0
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1400 Eggs/250cc of soil

Growing Season Rainfall: May=4.0, June=8.9, July=2.2, Aug.=0.6, Sept.=1.6 TOTAL=17.3 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Croplan Gen. RC3838##	8-30	29.0	1.0	29.4**	--	--	--	--
Dyna-Gro 3399RR	8-30	27.1	1.0	27.4*	--	--	--	--
Delta King DPMS 3801RR###	8-30	27.9	1.0	26.8*	--	--	--	--
Dyna-Gro 3388RR##	8-31	29.9	1.0	25.7*	--	38.7	--	--
Delta King DPMS 3901RR###	8-30	27.0	1.0	24.2	--	--	--	--
Dekalb DKB44-51c	9-01	29.7	1.0	23.6	--	--	--	--
NK Brand S46-W8	9-03	28.8	1.0	23.3	34.9*	--	29.1	--
MPride/MPV 457NRR	9-02	29.4	1.0	22.8	34.9*	36.5	28.9	31.4
Mersch. Richmond VIRR	9-02	32.1	1.0	22.1	--	--	--	--
Asgrow AG4602	9-01	31.5	1.0	21.7	31.5	--	26.6	--
Asgrow AG4403	9-01	29.2	1.0	21.4	--	--	--	--
U.S. Seeds US S4409RR	9-01	30.9	1.0	21.1	34.4*	--	27.8	--
Willcross RR 2480N	9-03	27.2	1.0	21.0	--	--	--	--
Morsoy RT 4478Scn	9-02	27.1	1.0	20.9	37.9**	--	29.4	--
Croplan Gen. 480RR	9-03	30.2	1.0	20.9	33.8*	--	27.4	--
Croplan Gen. 370RR##	8-30	27.3	1.0	20.6	--	--	--	--
Garst D484 RR/N	9-03	30.5	1.0	20.5	--	--	--	--
Delta King 4868 RR	9-04	29.8	1.0	20.5	--	--	--	--
Dekalb CX444cRR	9-02	29.5	1.0	20.5	29.9	31.6	25.2	27.3
Dyna-Gro 3394RR##	8-31	24.3	1.0	20.3	--	--	--	--
Mersch. Memphis IVRR	9-02	28.4	1.0	20.3	--	--	--	--
Stine 4402-4	9-02	30.2	1.0	20.2	--	--	--	--
Asgrow AG4301	9-02	27.5	1.0	19.8	32.6	38.4	26.2	30.3
Dyna-Gro 3442NRR	9-01	33.5	1.0	19.8	33.5*	--	26.7	--
Dyna-Gro 3468NRR	9-02	27.0	1.0	19.5	36.5*	--	28.0	--
Delta King XTJ0584RR#	9-03	27.5	1.0	19.5	--	--	--	--
Dekalb CX480cRR	9-03	31.9	1.0	19.4	--	--	--	--
Triumph-TR4810RR	9-03	32.8	1.0	18.8	--	--	--	--
Delta King DPMS 4401RR#	9-02	33.7	1.0	18.8	--	--	--	--
Dyna-Gro 3484NRR	9-03	32.5	1.0	18.4	--	--	--	--
Midland 9A441NRR	9-01	32.0	1.0	18.4	--	--	--	--
Pioneer variety 9492	9-03	30.6	1.0	18.2	36.1*	37.9	27.2	30.7
Mersch. Norfolk IVRR	9-02	29.0	1.0	18.1	--	--	--	--
Garst AP 4501RR/N	9-02	31.9	1.0	17.9	--	--	--	--
Croplan Gen. RC4495	9-02	24.6	1.0	17.5	--	--	--	--
Midland 9A480NRR	9-03	33.6	1.0	17.2	31.0	--	24.1	--
Stine 4802-4	9-02	32.2	1.0	16.7	--	--	--	--
NK Brand S46-G2	9-02	31.9	1.0	16.0	--	--	--	--
Morsoy RT 4889N	9-02	35.5	1.0	16.0	--	--	--	--
U.S. Seeds US S4809RR	9-02	31.8	1.0	15.8	31.5	--	23.7	--
Asgrow AG4902	9-03	30.2	1.0	14.9	30.4	--	22.7	--
Atlas Mycogen 5480NRR	9-02	30.9	1.0	14.8	--	--	--	--
Morsoy RT 4729Scn	9-02	30.5	1.0	13.4	34.2*	--	23.8	--
Willcross RR 2490N	9-03	31.6	1.0	13.3	--	--	--	--
GROUP 4 AVERAGE	9-02	30.0	1.0	19.9	32.6	33.9	26.3	28.8
L.S.D. AT .10	2	3.6	NS	4.1	4.5	NS		
C.V. %	0.5	8.8		15.2	10.1	--		

TABLE 59. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 5							
Asgrow AG5001	9-09	31.4	1.0	17.2**	34.5*	--	25.9	--
Morsoy RT 5220N	9-15	33.5	1.0	16.3*	--	--	--	--
Dyna-Gro 3513NRR	9-14	33.9	1.0	14.1*	--	--	--	--
NC+ 5A45RR	9-16	32.3	1.3	13.0	--	35.4	--	--
Willcross RR 2549N	9-17	36.1	1.3	12.0	--	--	--	--
MPride/MPV 519NRR	9-16	30.5	1.0	11.4	--	--	--	--
Willcross RR 2520N	9-16	28.7	1.0	10.7	--	--	--	--
MPride/MPV 537NRR	9-17	34.5	1.0	9.9	28.2	22.7	19.1	20.3
Delta King 5661 RR	9-22	39.3	1.3	9.5	--	--	--	--
Pioneer variety 95B53	9-17	33.4	1.0	9.2	--	--	--	--
GROUP 5 AVERAGE	9-16	33.4	1.1	12.3	32.5	26.4	22.4	23.7
L.S.D. AT .10	1	2.7	NS	3.2	4.3	NS		
C.V. %	0.4	6.0		18.0	8.8	--		
TRIAL AVERAGE		30.6	1.0	18.5	32.6	32.5	25.4	27.8

- ## Maturity group III soybean variety entered in the maturity group IV test.
Experimental variety.
-- Data not available.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.

TABLE 60. Performance of Roundup Ready Soybean Varieties evaluated near Urich (Henry County) on the Kurt Gretzinger Farm during 1998-2000.

Planted: 2 May 2000
 Harvested: 21 Sept., 10 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Hartwell Silt Loam
 Soil Test: pH=5.7, OM=3.8%, P=30, K=309

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual, Scepter, Lexone
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Sorghum
 Tillage: Conventional

Cyst Nematode Population at Planting: 2660 Eggs/250cc of soil
 Growing Season Rainfall: May=6.0, June=7.4, July=3.2, Aug.=0.9, Sept.=3.9 TOTAL=21.4 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Croplan Gen. RC3838##	9-03	36.3	1.0	46.2**	--	--	--	--
Delta King DPMS 3901RR###	9-05	36.9	1.7	43.6*	--	--	--	--
Delta King DPMS 3801RR###	9-04	38.9	1.3	42.1*	--	--	--	--
Dyna-Gro 3388RR##	9-03	43.0	1.7	37.6	--	43.5	--	--
Dyna-Gro 3399RR	9-04	34.8	1.7	36.9	--	--	--	--
Dyna-Gro 3468NRR	9-07	37.5	1.3	33.8	45.0*	--	39.4	--
Mersch. Richmond VIRR	9-07	43.0	2.7	32.3	--	--	--	--
Delta King XTJ0584RR#	9-07	40.2	2.0	31.9	--	--	--	--
Stine 4402-4	9-06	42.2	2.0	31.7	--	--	--	--
Stine 4802-4	9-08	41.2	2.0	31.0	--	--	--	--
Morsoy RT 4478Scn	9-06	37.3	1.0	30.8	42.6	--	36.7	--
Dekalb DKB44-51c	9-05	43.0	1.0	30.7	--	--	--	--
Asgrow AG4602	9-06	41.6	2.0	30.4	41.3	--	35.9	--
Asgrow AG4403	9-06	44.3	1.3	30.1	--	--	--	--
Croplan Gen. RC4495	9-06	35.2	1.0	30.0	--	--	--	--
Triumph-TR4810RR	9-07	43.8	2.3	29.7	--	--	--	--
Dekalb CX444cRR	9-05	41.3	2.0	29.5	41.7	48.6**	35.6	39.9
Garst D484 RR/N	9-07	43.6	2.3	29.4	--	--	--	--
U.S. Seeds US S4809RR	9-08	45.7	2.0	29.2	42.6	--	35.9	--
MPride/MPV 457NRR	9-06	40.5	1.7	29.2	42.7	36.0	36.0	36.0
Delta King DPMS 4401RR#	9-07	44.1	2.0	29.2	--	--	--	--
Midland 9A480NRR	9-07	44.4	3.0	29.2	43.7	--	36.5	--
Willcross RR 2480N	9-07	41.1	2.0	29.0	--	--	--	--
Delta King 4868 RR	9-07	42.2	1.3	28.9	--	--	--	--
Dyna-Gro 3484NRR##	9-07	43.2	2.3	27.6	--	--	--	--
NK Brand S46-W8	9-06	44.0	2.3	27.4	44.6*	--	36.0	--
Croplan Gen. 370RR##	9-04	37.8	1.0	27.4	--	--	--	--
U.S. Seeds US S4409RR	9-07	41.8	3.7	26.4	41.8	--	34.1	--
Pioneer variety 9492	9-07	37.3	1.0	26.2	43.7	44.4	35.0	38.1
Midland 9A441NRR	9-07	41.5	1.7	25.8	--	--	--	--
Atlas Mycogen 5480NRR	9-08	44.0	2.7	25.7	--	--	--	--
Asgrow AG4301	9-07	39.5	1.7	25.1	43.9*	45.6	34.5	38.2
Mersch. Memphis IVRR	9-08	35.4	1.7	24.9	--	--	--	--
Morsoy RT 4729Scn	9-07	42.1	2.3	24.8	41.7	--	33.3	--
Dyna-Gro 3394RR##	9-03	36.7	1.0	24.6	--	--	--	--
Croplan Gen. 480RR	9-06	42.3	3.0	24.6	45.9**	--	35.3	--
Mersch. Norfolk IVRR	9-06	37.8	1.7	24.4	--	--	--	--
Morsoy RT 4889N	9-08	42.6	2.7	24.4	--	--	--	--
Dyna-Gro 3442NRR	9-06	40.8	4.0	24.1	43.3	--	33.7	--
Asgrow AG4902	9-07	40.0	1.3	23.8	42.3	--	33.1	--
Garst AP 4501RR/N	9-08	42.6	2.7	23.6	--	--	--	--
Dekalb CX480cRR	9-07	42.1	2.3	23.1	--	--	--	--
Willcross RR 2490N	9-08	47.5	2.7	21.7	--	--	--	--
NK Brand S46-G2	9-08	44.8	1.3	19.1	--	--	--	--
GROUP 4 AVERAGE	9-06	41.0	1.9	29.0	42.1	40.2	35.6	37.1
L.S.D. AT .10	1	2.5	0.8	5.4	2.0	NS		
C.V. %	0.3	4.4		13.3	3.4	--		

TABLE 60. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 5							
Asgrow AG5001	9-09	40.8	1.1	21.4**	42.7**	--	32.1	--
Morsoy RT 5220N	9-21	46.9	2.7	20.9*	--	--	--	--
Willcross RR 2549N	9-23	47.5	3.2	19.9*	--	--	--	--
NC+ 5A45RR	9-21	43.0	2.6	17.4	--	36.1	--	--
MPride/MPV 537NRR	9-23	43.9	3.0	16.1	39.8	34.3	28.0	30.1
Delta King 5661 RR	9-27	45.7	2.5	16.1	--	--	--	--
MPride/MPV 519NRR	9-19	40.6	2.6	15.0	--	--	--	--
Willcross RR 2520N	9-20	36.3	1.8	15.0	--	--	--	--
Dyna-Gro 3513NRR	9-17	48.2	1.2	14.6	--	--	--	--
Pioneer variety 95B53	9-23	38.4	2.4	12.7	--	--	--	--
GROUP 5 AVERAGE	9-20	43.1	2.3	16.9	40.4	33.8	28.7	30.4
L.S.D. AT .10	1	3.8	1.0	2.2	NS	NS		
C.V. %	1.2	6.6		8.8	10.3	--		
TRIAL AVERAGE		41.4	2.0	26.8	41.9	39.0	34.3	35.9

Maturity group III soybean variety entered in the maturity group IV test.
Experimental variety.
-- Data not available.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.

TABLE 61. Performance of Roundup Ready Soybean Varieties evaluated near Nevada (Vernon County) on the Steve Cabbage Farm during 1998-2000.

Planted: 3 May 2000
 Harvested: 20 Sept., 9 Oct. 20000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=6.4, OM=2.5%, P=70, K=333

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Frontier, Scepter, Lexone
 Post: Roundup Ultra
 Irrigation: 3.75 inches
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1260 Eggs/250cc of soil
 Growing Season Rainfall: May=2.6, June=8.0, July=3.8, Aug.=0.2, Sept.=1.0 TOTAL=15.6 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Croplan Gen. RC3838##	9-03	38.4	1.0	40.3**	--	--	--	--
Asgrow AG4403	9-08	42.5	1.0	38.9*	--	--	--	--
Croplan Gen. 370RR##	9-06	37.3	1.0	38.4*	--	--	--	--
Delta King DPMS 3801RR###	9-03	38.2	1.3	38.2*	--	--	--	--
Delta King DPMS 3901RR###	9-04	38.6	1.3	37.8*	--	--	--	--
Dyna-Gro 3388RR##	9-06	42.2	1.7	37.7*	--	53.7	--	--
Dyna-Gro 3468NRR	9-12	36.4	1.0	36.9*	51.9	--	44.4	--
Asgrow AG4602	9-11	39.8	1.7	36.6*	51.7	--	44.2	--
Mersch. Memphis IVRR	9-12	37.3	1.3	36.2*	--	--	--	--
Dekalb CX444cRR	9-10	40.7	1.3	36.1	50.8	57.3**	43.5	48.1
Dyna-Gro 3399RR	9-04	37.8	1.0	35.6	--	--	--	--
MPride/MPV 457NRR	9-11	39.9	1.3	34.8	51.6	50.8	43.2	45.7
Stine 4802-4	9-12	43.2	2.0	34.7	--	--	--	--
Dekalb DKB44-51c	9-07	41.4	1.0	34.5	--	--	--	--
Midland 9A441NRR	9-12	43.2	1.7	33.3	--	--	--	--
Stine 4402-4	9-09	40.5	2.6	32.9	--	--	--	--
Triumph-TR4810RR	9-12	42.4	1.7	32.8	--	--	--	--
Delta King XTJ0584RR#	9-12	41.6	1.0	32.8	--	--	--	--
Dyna-Gro 3442NRR	9-07	41.3	3.7	32.6	47.0	--	39.8	--
Dekalb CX480cRR	9-13	41.3	1.7	32.6	--	--	--	--
Mersch. Richmond VIRR	9-13	43.8	2.0	32.6	--	--	--	--
Dyna-Gro 3484NRR	9-12	43.6	2.3	32.2	--	--	--	--
Asgrow AG4301	9-09	38.8	1.3	32.2	48.9	53.3	40.6	44.8
Dyna-Gro 3394RR##	9-05	39.0	1.0	32.1	--	--	--	--
Delta King 4868 RR	9-12	41.3	1.4	32.0	--	--	--	--
Morsoy RT 4478Scn	9-10	38.2	1.0	31.8	51.3	--	41.6	--
Willcross RR 2480N	9-13	41.6	1.3	31.7	--	--	--	--
Croplan Gen. 480RR	9-12	42.7	2.0	31.7	54.8*	--	43.3	--
U.S. Seeds US S4409RR	9-10	40.9	3.7	31.4	50.3	--	40.9	--
Midland 9A480NRR	9-12	44.0	2.0	31.3	51.4	--	41.4	--
Atlas Mycogen 5480NRR	9-13	44.2	2.0	31.3	--	--	--	--
NK Brand S46-W8	9-10	44.5	2.7	31.2	57.2*	--	44.2	--
Pioneer variety 9492	9-11	41.1	1.3	31.1	47.8	51.8	39.5	43.6
Morsoy RT 4889N	9-12	44.7	1.7	30.6	--	--	--	--
Asgrow AG4902	9-14	38.7	1.0	30.2	50.1	--	40.2	--
Willcross RR 2490N	9-13	45.0	1.3	30.2	--	--	--	--
Garst AP 4501RR/N	9-11	41.9	1.7	30.1	--	--	--	--
Croplan Gen. RC4495	9-09	34.3	1.0	30.0	--	--	--	--
Morsoy RT 4729Scn	9-11	42.3	2.6	29.9	58.2**	--	44.1	--
Mersch. Norfolk IVRR	9-10	39.3	1.0	28.6	--	--	--	--
Delta King DPMS 4401RR#	9-10	40.9	1.4	28.5	--	--	--	--
U.S. Seeds US S4809RR	9-12	44.4	2.0	28.5	52.2*	--	40.4	--
NK Brand S46-G2	9-10	43.4	1.3	27.9	--	--	--	--
Garst D484 RR/N	9-12	43.7	3.0	26.5	--	--	--	--
GROUP 4 AVERAGE	9-10	41.0	1.6	32.9	50.7	50.5	41.8	44.7
L.S.D. AT .10	2	3.1	0.7	4.1	6.0	NS		
C.V. %	0.4	5.5		9.1	8.7	--		

TABLE 61. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 5							
Asgrow AG5001	9-13	42.0	1.4	23.7**	46.2**	--	35.0	--
Willcross RR 2549N	9-24	43.9	2.9	22.8*	--	--	--	--
Morsoy RT 5220N	9-22	43.2	2.9	21.0	--	--	--	--
NC+ 5A45RR	9-23	37.3	2.2	19.7	--	43.0	--	--
Delta King 5661 RR	9-29	37.6	2.3	18.1	--	--	--	--
MPride/MPV 537NRR	9-25	41.8	2.7	18.0	39.1	45.0	28.6	34.0
Willcross RR 2520N	9-20	33.7	1.4	17.4	--	--	--	--
MPride/MPV 519NRR	9-18	36.6	1.6	17.2	--	--	--	--
Pioneer variety 95B53	9-23	35.4	1.6	16.6	--	--	--	--
Dyna-Gro 3513NRR	9-16	43.5	1.0	15.2	--	--	--	--
GROUP 5 AVERAGE	9-21	39.5	2.0	19.0	42.0	44.6	30.5	35.2
L.S.D. AT .10	2	3.1	0.8	2.5	2.9	NS		
C.V. %	0.4	5.8		8.8	4.7	--		
TRIAL AVERAGE		40.8	1.7	30.3	49.8	49.4	40.1	43.2

Maturity group III soybean variety entered in the maturity group IV test.
Experimental variety.
-- Data not available.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.

TABLE 62. Performance of Roundup Ready Soybean Varieties evaluated near Lamar (Barton County) on the Wally Norton Farm during 1998-2000.

Planted: 4 May 2000
 Harvested: 19 Sept., 9 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=5.9, OM=1.7%, P=45, K=210

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Frontier, Scepter, Lexone
 Post: Roundup Ultra
 Irrigation: None
 Previous Crop: Grain Sorghum
 Tillage: Conventional

Cyst Nematode Population at Planting: 140 Eggs/250cc of Soil
 Growing Season Rainfall: May=5.1, June=7.9, July=6.8, Aug.=0.0, Sept.=3.3 TOTAL=23.1 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Croplan Gen. RC3838##	8-29	30.3	1.0	31.3**	--	--	--	--
Dyna-Gro 3399RR	8-30	28.3	1.0	26.7*	--	--	--	--
Delta King XTJ0584RR#	9-05	35.7	1.6	25.1	--	--	--	--
Dyna-Gro 3388RR##	8-31	35.0	1.3	24.4	--	45.0	--	--
Asgrow AG4301	9-05	35.0	1.0	24.2	27.3	41.2	25.8	30.9
Delta King DPMS 3901RR###	8-30	29.7	1.0	24.2	--	--	--	--
Delta King DPMS 3801RR###	8-30	29.3	1.0	24.2	--	--	--	--
NK Brand S46-W8	9-05	36.0	1.6	23.9	29.4*	--	26.7	--
Croplan Gen. 480RR	9-06	37.0	1.7	23.8	30.6*	--	27.2	--
U.S. Seeds US S4409RR	9-03	42.0	3.1	23.7	31.5*	--	27.6	--
Dyna-Gro 3442NRR	9-04	34.3	2.6	23.6	29.4*	--	26.5	--
Garst AP 4501RR/N	9-06	35.0	1.4	23.4	--	--	--	--
Asgrow AG4403	9-05	33.3	1.1	23.4	--	--	--	--
Dyna-Gro 3484NRR	9-07	33.7	1.3	23.1	--	--	--	--
Delta King DPMS 4401RR#	9-05	38.3	1.7	23.0	--	--	--	--
Dekalb CX444cRR	9-05	34.3	1.3	22.8	26.5	38.2	24.7	29.2
Garst D484 RR/N	9-06	37.7	2.2	22.6	--	--	--	--
Mersch. Memphis IVRR	9-06	31.7	1.0	22.5	--	--	--	--
Dyna-Gro 3394RR##	8-31	29.7	1.1	22.3	--	--	--	--
Dekalb DKB44-51c	9-05	32.0	1.1	22.2	--	--	--	--
Croplan Gen. 370RR##	8-30	29.3	1.0	22.0	--	--	--	--
MPride/MPV 457NRR	9-04	30.7	1.0	22.0	27.1	37.7	24.6	28.9
Willcross RR 2490N	9-06	42.0	1.9	21.9	--	--	--	--
Triumph-TR4810RR	9-07	38.0	1.7	21.7	--	--	--	--
Stine 4402-4	9-04	34.0	1.3	21.5	--	--	--	--
Willcross RR 2480N	9-06	41.0	2.0	21.4	--	--	--	--
Morsoy RT 4478Scn	9-02	29.3	1.0	21.3	26.8	--	24.1	--
Mersch. Norfolk IVRR	9-05	31.3	1.1	21.2	--	--	--	--
Mersch. Richmond VIRR	9-07	35.7	2.0	21.0	--	--	--	--
Asgrow AG4602	9-07	34.3	1.7	21.0	26.9	--	24.0	--
Dyna-Gro 3468NRR	9-07	30.7	1.0	20.8	26.8	--	23.8	--
U.S. Seeds US S4809RR	9-07	36.3	1.7	20.6	32.2**	--	26.4	--
Delta King 4868 RR	9-07	33.3	1.0	20.2	--	--	--	--
Midland 9A480NRR	9-06	33.7	1.9	20.1	31.1*	--	25.6	--
Midland 9A441NRR	9-04	35.3	2.0	20.1	--	--	--	--
Dekalb CX480cRR	9-07	34.7	1.7	20.0	--	--	--	--
Croplan Gen. RC4495	9-06	27.3	1.0	20.0	--	--	--	--
Atlas Mycogen 5480NRR	9-06	38.7	2.1	19.8	--	--	--	--
Morsoy RT 4889N	9-08	31.3	1.1	19.5	--	--	--	--
NK Brand S46-G2	9-06	33.0	1.0	19.2	--	--	--	--
Asgrow AG4902	9-08	32.0	1.1	18.8	28.0	--	23.4	--
Pioneer variety 9492	9-07	31.0	1.3	18.7	29.4*	36.6	24.1	28.2
Morsoy RT 4729Scn	9-05	32.0	1.3	17.8	28.4	--	23.1	--
Stine 4802-4	9-08	35.0	1.7	17.7	--	--	--	--
GROUP 4 AVERAGE	9-05	33.8	1.4	22.0	27.0	39.8	24.5	29.6
L.S.D. AT .10	2	4.5	0.6	4.6	3.4	4.7		
C.V. %	0.6	9.7		15.2	9.3	7.0		

TABLE 62. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 5							
Morsoy RT 5220N	9-17	38.3	2.7	22.4**	--	--	--	--
MPride/MPV 537NRR	9-25	32.7	2.0	20.9*	31.3	30.0	26.1	27.4
NC + 5A45RR	9-20	36.0	1.9	20.3*	--	32.1	--	--
Willcross RR 2549N	9-22	36.3	1.6	20.2*	--	--	--	--
Delta King 5661 RR	9-28	38.7	1.7	20.2*	--	--	--	--
Asgrow AG5001	9-07	35.0	1.6	19.3*	28.2	--	23.8	--
Dyna-Gro 3513NRR	9-15	36.7	1.0	15.9	--	--	--	--
Pioneer variety 95B53	9-21	33.3	1.3	15.2	--	--	--	--
Willcross RR 2520N	9-19	31.7	1.3	14.8	--	--	--	--
MPride/MPV 519NRR	9-18	36.7	2.1	13.7	--	--	--	--
GROUP 5 AVERAGE	9-19	35.5	1.7	18.3	30.6	33.2	24.5	27.4
L.S.D. AT .10	1	5.5	0.5	3.5	NS	NS		
C.V. %	0.4	11.2		13.3	10.1	6.7		
TRIAL AVERAGE		34.1	1.5	21.3	27.4	38.5	24.4	29.1

- ## Maturity group III soybean variety entered in the maturity group IV test.
Experimental variety.
-- Data not available.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.

TABLE 63. Yield Summary for Roundup Ready Soybean Varieties evaluated at five Southwest Missouri locations (Garden City, Butler, Urich, Nevada, and Lamar) during 2000.

Brand-Variety	Yield (Bu/Acre)					Mean
	Garden City	Butler	Urich	Nevada	Lamar	
<u>Garden city</u> Planted: 2 May 2000 Harvested: 22 Sept., 10 Oct. 2000 Growing Season Rainfall: 18.0"						
<u>Butler</u> Planted: 3 May 2000 Harvested: 13 Sept., 10 Oct. 2000 Growing Season Rainfall: 17.3"						
<u>Urich</u> Planted: 2 May 2000 Harvested: 21 Sept., 10 Oct. 2000 Growing Season Rainfall: 21.4"						
<u>Nevada</u> Planted: 3 May 2000 Harvested: 20 Sept., 9 Oct. 2000 Growing Season Rainfall: 15.6"						
<u>Lamar</u> Planted: 4 May 2000 Harvested: 19 Sept., 9 Oct. 2000 Growing Season Rainfall: 23.1"						
MATURITY GROUP 4						
Croplan Gen. RC3838##	37.8**	29.4**	46.2**	40.3**	31.3**	37.0**
Delta King DPMS 3801RR###	31.3	26.8*	42.1*	38.2**	24.2	32.5
Delta King DPMS 3901RR###	30.6	24.2	43.6*	37.8*	24.2	32.1
Dyna-Gro 3399RR	31.6	27.4*	36.9	35.6	26.7*	31.6
Dyna-Gro 3388RR##	32.2	25.7*	37.6	37.7*	24.4	31.5
Dyna-Gro 3468NRR	31.8	19.5	33.8	36.9*	20.8	28.6
Asgrow AG4403	27.5	21.4	30.1	38.9*	23.4	28.3
Croplan Gen. 370RR##	31.1	20.6	27.4	38.4*	22.0	27.9
Asgrow AG4602	29.3	21.7	30.4	36.6*	21.0	27.8
MPride/MPV 457NRR	27.5	22.8	29.2	34.8	22.0	27.2
Dekalb CX444cRR	27.0	20.5	29.5	36.1	22.8	27.2
Morsoy RT 4478Scn	31.1	20.9	30.8	31.8	21.3	27.2
Stine 4402-4	29.3	20.2	31.7	32.9	21.5	27.1
Dekalb DKB44-51c	24.6	23.6	30.7	34.5	22.2	27.1
NK Brand S46-W8	29.8	23.3	27.4	31.2	23.9	27.1
Delta King XTJ0584RR#	26.0	19.5	31.9	32.8	25.1	27.0
Mersch. Memphis IVRR	31.4	20.3	24.9	36.2*	22.5	27.0
Mersch. Richmond VIRR	24.7	22.1	32.3	32.6	21.0	26.5
Willcross RR 2480N	26.9	21.0	29.0	31.7	21.4	26.0
Triumph-TR4810RR	26.9	18.8	29.7	32.8	21.7	26.0
Dyna-Gro 3442NRR	27.4	19.8	24.1	32.6	23.6	25.5
Asgrow AG4301	26.1	19.8	25.1	32.2	24.2	25.5
U.S. Seeds US S4409RR	24.8	21.1	26.4	31.4	23.7	25.5
Dyna-Gro 3394RR##	28.0	20.3	24.6	32.1	22.3	25.4
Dyna-Gro 3484NRR	24.7	18.4	27.6	32.2	23.1	25.2
Croplan Gen. 480RR	25.0	20.9	24.6	31.7	23.8	25.2
Croplan Gen. RC4495	27.8	17.5	30.0	30.0	20.0	25.0
Stine 4802-4	24.5	16.7	31.0	34.7	17.7	24.9
Midland 9A480NRR	26.7	17.2	29.2	31.3	20.1	24.9
Delta King 4868 RR	22.9	20.5	28.9	32.0	20.2	24.9
Delta King DPMS 4401RR#	24.4	18.8	29.2	28.5	23.0	24.8
Garst D484 RR/N	23.6	20.5	29.4	26.5	22.6	24.5
Garst AP 4501RR/N	27.1	17.9	23.6	30.1	23.4	24.4
Dekalb CX480cRR	27.0	19.4	23.1	32.6	20.0	24.4
Midland 9A441NRR	24.0	18.4	25.8	33.3	20.1	24.3
U.S. Seeds US S4809RR	25.3	15.8	29.2	28.5	20.6	23.9
Atlas Mycogen 5480NRR	26.5	14.8	25.7	31.3	19.8	23.6
Mersch. Norfolk IVRR	24.4	18.1	24.4	28.6	21.2	23.3
Pioneer variety 9492	21.7	18.2	26.2	31.1	18.7	23.2
Morsoy RT 4889N	23.7	16.0	24.4	30.6	19.5	22.8
Asgrow AG4902	25.7	14.9	23.8	30.2	18.8	22.7
NK Brand S46-G2	28.4	16.0	19.1	27.9	19.2	22.1
Willcross RR 2490N	21.9	13.3	21.7	30.2	21.9	21.8
Morsoy RT 4729Scn	22.0	13.4	24.8	29.9	17.8	21.6
GROUP 4 AVERAGE	27.1	19.9	29.0	32.9	22.0	26.2
L.S.D. AT .10	4.2	4.1	5.4	4.1	4.6	2.2
C.V.%	11.3	15.2	13.3	9.1	15.2	21.3

TABLE 63. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Garden City	Butler	Urich	Nevada	Lamar	
MATURITY GROUP 5						
Asgrow AG5001	20.1**	17.2**	21.4**	23.7**	19.3*	20.3**
Morsoy RT 5220N	15.5	16.3*	20.9*	21.0	22.4**	19.2*
Willcross RR 2549N	15.7	12.0	19.9*	22.8*	20.2*	18.1
NC + 5A45RR	16.4	13.0	17.4	19.7	20.3*	17.4
MPride/MPV 537NRR	12.8	9.9	16.1	18.0	20.9*	15.5
Delta King 5661 RR	13.1	9.5	16.1	18.1	20.2*	15.4
Dyna-Gro 3513NRR	16.0	14.1*	14.6	15.2	15.9	15.2
Willcross RR 2520N	12.2	10.7	15.0	17.4	14.8	14.0
MPride/MPV 519NRR	12.2	11.4	15.0	17.2	13.7	13.9
Pioneer variety 95B53	14.0	9.2	12.7	16.6	15.2	13.5
GROUP 5 AVERAGE	15.6	12.3	17.9	19.0	18.3	16.3
L.S.D. AT .10	2.1	3.2	2.2	2.5	3.5	1.4
C.V.%	9.7	18.0	8.8	8.8	13.3	25.3
TRIAL AVERAGE	24.8	18.5	26.8	30.3	21.3	24.4

Maturity group III soybean variety entered in the maturity group IV test.

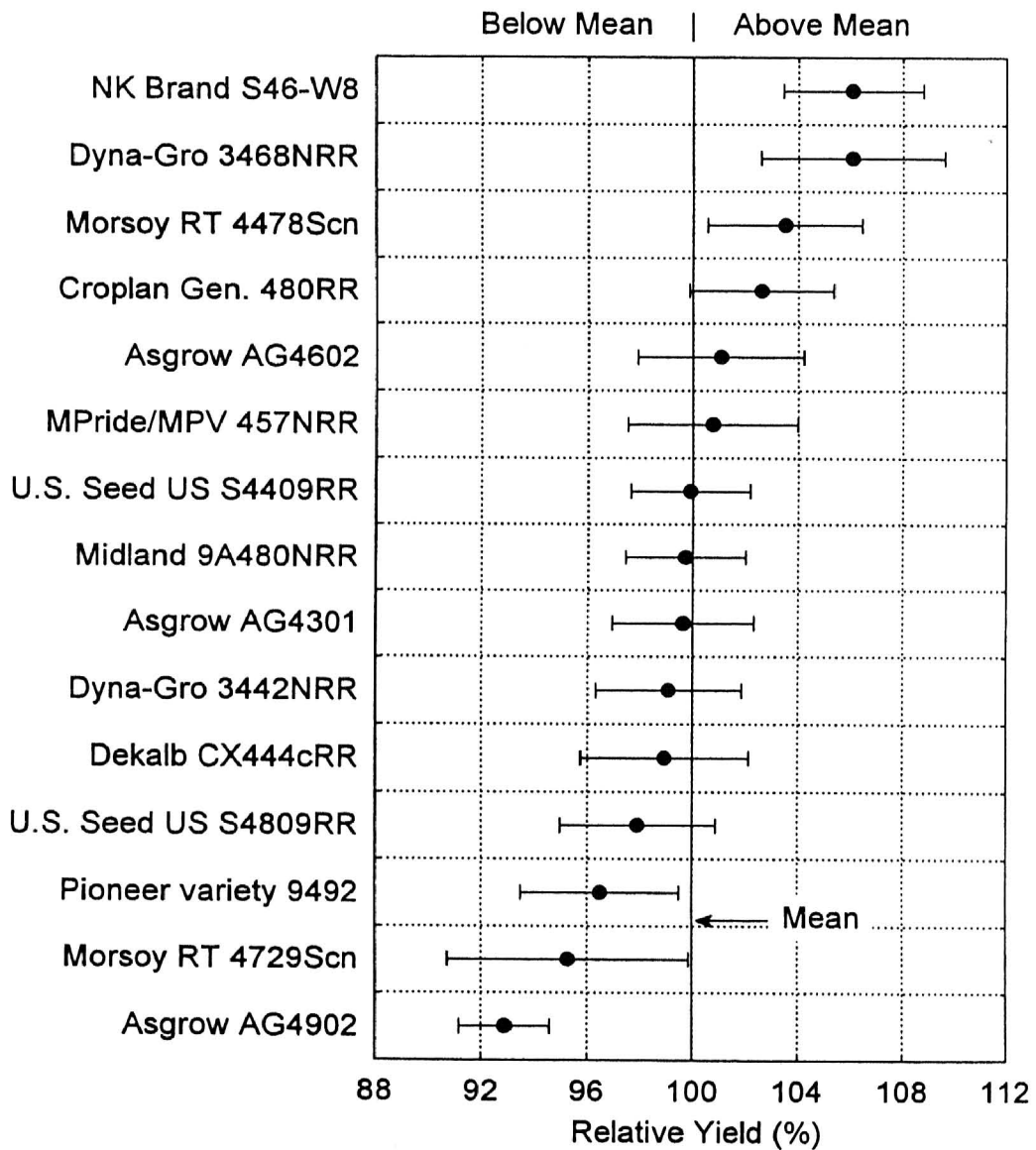
Experimental variety.

** Highest yielding variety in the maturity group.

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

Figure 11. Graphic Summary of Two-year (99/2000) Results of Roundup Ready Soybean Varieties at Five Southwest Missouri Locations.

MG IV



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 64. Performance of Roundup Ready Soybean Varieties evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1998-2000.

Planted: 23 May 2000
 Harvested: 10 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Commerce Silt Loam
 Soil Test: pH=6.3, OM=1.6%, P=60, K=230

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squalaron
 Post: Roundup Ultra
 Irrigation: 4.0 inches
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 0 Eggs/250cc of soil
 Growing Season Rainfall: May=4.3, June=5.7, July=2.3, Aug.=1.2, Sept.=2.5 TOTAL=14.0 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Dekalb DKB44-51c	9-18	44.7	1.0	54.5**	--	--	--	--
Garst D484 RR/N	9-20	45.0	2.3	48.9*	59.3*	--	54.1	--
Atlas Mycogen 5480NRR	9-20	45.0	1.0	47.7	--	--	--	--
Stine 4802-4	9-21	42.7	1.0	47.7	--	--	--	--
MPride/MPV 457NRR	9-17	44.7	1.0	47.5	58.3	38.5	52.9	48.1
Croplan Gen. 480RR	9-20	45.3	2.0	47.2	61.3*	--	54.3	--
Gateway 4R472	9-22	48.0	3.3	46.8	--	--	--	--
Asgrow AG4403	9-18	42.3	1.3	46.7	--	--	--	--
Delta King 4868 RR	9-19	41.3	1.3	46.3	58.8*	--	52.6	--
Asgrow AG4902	9-20	39.7	1.0	46.2	59.4*	--	52.8	--
Dyna-Gro 3482NRR	9-19	44.7	2.3	46.1	--	--	--	--
DeltaGrow 4850RR	9-19	45.0	2.7	45.9	--	--	--	--
Morsoy RT 4889N	9-20	42.0	1.3	45.3	58.1	--	51.7	--
Atlas Mycogen 5441NRR	9-19	42.0	3.3	45.2	--	--	--	--
Mersch. Richmond VIRR	9-19	45.0	1.3	44.8	63.0*	--	53.9	--
Hartz H4884RR	9-20	44.3	2.0	44.5	--	--	--	--
Deltapine DP 4344 RR	9-20	42.3	4.3	43.9	55.0	46.5	49.5	48.5
UniSouth USG 7489RR	9-21	45.3	3.7	43.8	--	--	--	--
Delta King 4965 RR	9-22	42.7	3.3	43.3	57.5	--	50.4	--
Asgrow AG4702	9-19	43.7	1.0	43.2	60.1*	40.5	51.7	47.9
Sure-Grow SG498RR	9-23	42.0	1.0	41.9	55.4	40.5	48.7	45.9
Hornbeck HBK R4920	9-21	47.0	3.3	41.8	--	--	--	--
Morsoy RT 4729Scn	9-18	40.7	2.0	41.4	--	--	--	--
Mersch. Memphis IVRR	9-16	42.3	1.3	41.2	52.4	--	46.8	--
Mersch. Norfolk IVRR	9-19	41.3	1.0	41.0	59.1*	--	50.1	--
Morsoy RT 4809	9-19	46.0	3.3	40.9	--	--	--	--
Morsoy RT 4478Scn	9-17	38.7	1.3	40.9	57.5	--	49.2	--
Dyna-Gro 3468NRR	9-18	40.3	1.0	40.0	--	--	--	--
AgVenture AV6489NRR	9-20	46.0	3.0	39.3	--	--	--	--
Golden Harvest X04946RR#	9-18	49.3	3.0	39.1	--	--	--	--
Hornbeck HBK R4855	9-18	44.3	4.0	39.1	61.4*	--	50.3	--
Deltapine DP 4690 RR	9-22	43.3	4.0	38.9	56.8	--	47.9	--
Morsoy RT 4499N	9-19	43.7	5.0	37.6	--	--	--	--
MPride/MPV 437NRR	9-18	39.0	1.0	37.1	--	--	--	--
FFR X-4900RR	9-22	44.0	4.0	36.8	--	--	--	--
Hornbeck HBK R4660	9-20	50.0	1.0	36.0	53.4	--	44.7	--
Willcross RR 2490N	9-19	48.7	2.3	35.2	--	--	--	--
FFR RT 517	9-23	38.3	3.7	34.3	47.1	--	40.7	--
Golden Harvest X94728RR#	9-19	36.0	1.0	33.2	--	--	--	--
Stine 4402-4	9-18	45.3	5.0	31.6	--	--	--	--
UniSouth USG 7499nRR	9-18	44.7	1.3	31.5	42.4	--	37.0	--
Pioneer variety 9492	9-18	44.7	1.3	31.5	57.1	44.9	44.3	44.5
Croplan Gen. 4979RR	9-24	52.0	4.0	28.8	--	--	--	--
Delta King 4762 RR	9-16	49.0	1.0	19.0	54.6	38.2	36.8	37.3
GROUP 4 AVERAGE	9-19	43.9	2.2	41.0	55.7	41.5	48.4	46.1
L.S.D. AT .10	2	3.0	1.3	6.3	6.0	NS		
C.V. %	0.6	5.1		11.2	7.9	10.8		

TABLE 64. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 5							
Delta King 5465RR	9-30	39.7	1.7	46.6**	--	--	--	--
Dyna-Gro 3521NRR	9-29	44.0	1.0	46.2*	--	--	--	--
Willcross RR 2580N	10-04	42.0	4.0	46.1*	--	--	--	--
Asgrow AG5501	9-30	41.7	1.0	42.9*	--	--	--	--
Deltapine DP 5915 RR	10-06	43.7	2.0	42.3*	59.4	--	50.9	--
UniSouth USG Exp. 540NRR#	9-29	42.7	2.0	42.2*	--	--	--	--
Deltapine DP 5644 RR	10-03	42.7	2.7	42.1*	50.2	56.9**	46.2	49.7
Hartz H5231RR	9-27	40.3	1.0	42.1*	--	--	--	--
Pioneer variety 95B32	9-22	37.7	2.3	42.1*	62.4*	--	52.3	--
Asgrow AG5802	10-05	47.0	1.0	41.9*	57.3	--	49.6	--
Gateway 5R515	10-04	41.7	2.7	41.2*	--	--	--	--
Hornbeck HBK XR575-99#	10-04	41.0	1.0	40.6*	--	--	--	--
Delta King 5668RR	10-01	39.7	5.0	40.3*	--	--	--	--
Willcross RR 2549N	9-30	45.7	4.3	40.2*	--	--	--	--
Croplan Gen. 556RR	10-01	41.3	1.3	39.9*	50.3	49.4	45.1	46.5
UniSouth USG Exp. 510NRR#	9-30	43.3	2.7	39.6*	--	--	--	--
MPride/MPV 519NRR	9-24	41.0	2.3	39.5*	--	--	--	--
Delta King 5366RR	9-29	40.7	3.7	39.3*	--	--	--	--
FFR RT 557	10-01	46.3	4.3	39.0	51.6	49.3	45.3	46.6
Delta King 5267RR	9-26	43.3	3.7	39.0	--	--	--	--
MPride/MPV 537NRR	9-30	43.3	3.3	38.9	48.4	48.2	43.7	45.2
Dyna-Gro 3562NRR	10-02	40.0	4.7	38.7	--	--	--	--
Delta King 5661 RR	10-02	43.7	4.3	38.6	61.4	--	50.0	--
Willcross RR 2520N	9-24	39.0	2.7	38.3	--	--	--	--
Hornbeck HBK R5588	10-01	44.7	3.7	37.8	53.0	53.0*	45.4	47.9
Morsoy RT 5220N	9-26	44.0	3.7	37.8	--	--	--	--
DeltaGrow 5310RR	9-30	43.3	4.3	37.5	--	--	--	--
FFR RT 5485	9-25	43.3	2.7	37.1	48.9	--	43.0	--
Asgrow AG5701	10-01	43.0	4.3	36.5	59.3	--	47.9	--
Morsoy RT 5050	9-21	47.3	3.0	36.4	--	--	--	--
Asgrow AG5001	9-18	44.0	1.7	36.4	61.3	--	48.9	--
AgVenture AV6540NRR	9-27	40.7	1.3	35.4	--	--	--	--
Pioneer variety 95B53	9-28	38.0	2.3	35.4	58.0	--	46.7	--
Excel 8510RR	9-20	49.0	1.0	34.5	--	--	--	--
Delta King 5762 RR	10-03	47.7	3.3	34.4	52.8	--	43.6	--
Hornbeck HBK R5920	10-03	46.7	4.0	33.9	50.4	--	42.2	--
Mersch. Rushmore IIIR	9-21	47.3	1.0	33.7	--	--	--	--
Garst AP 569RR/N	9-30	45.0	3.7	32.6	53.0	--	42.8	--
DeltaGrow 5630RR	10-01	45.3	4.7	30.7	--	--	--	--
DeltaGrow 5950RR	10-02	47.0	4.7	29.9	--	--	--	--
Asgrow AG5902	10-02	45.7	2.7	29.8	--	--	--	--
Deltapine DP 5806 RR	10-05	45.0	4.7	29.8	52.7	50.8	41.3	44.4
Garst AP 529RR/N	9-24	43.7	4.7	29.8	50.2	--	40.0	--
Croplan Gen. 5770RR	10-02	43.0	2.3	28.5	--	--	--	--
Pioneer variety 95B95	9-24	46.0	2.7	14.4	--	--	--	--
GROUP 5 AVERAGE	9-29	43.4	2.9	37.3	53.7	47.9	45.5	46.3
L.S.D. AT .10	5	3.3	1.4	7.3	5.6	5.8		
C.V. %	1.3	5.5		14.0	7.6	7.2		
TRIAL AVERAGE		43.6	2.6	39.1	54.8	44.3	47.0	46.1

Experimental variety.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 NS Not Significant.

TABLE 65. Performance of Roundup Ready Soybean Varieties evaluated near Wyatt (Mississippi County) on the Elott Raffety Farm during 1998-2000.

Planted: 22 May 2000
 Harvested: 18 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Commerce Silty Clay Loam
 Soil Test: pH=7.0, OM=2.6%, P=51, K=384

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Roundup Ultra
 Irrigation: 3.0 inches
 Previous Crop: Corn
 Tillage: Conventional

Cyst Nematode Population at Planting: 1260 Eggs/250cc of soil

Growing Season Rainfall: May=7.6, June=3.0, July=3.4, Aug.=2.8, Sept.=3.4 TOTAL=20.2 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Dekalb DKB44-51c	9-18	44.7	1.0	51.8**	--	--	--	--
MPride/MPV 457NRR	9-19	44.0	1.0	51.3	49.9	47.3	50.6	49.5
Morsoy RT 4499N	9-21	42.7	4.3	51.1	--	--	--	--
UniSouth USG 7499nRR	9-19	44.7	1.1	49.9	48.1	--	49.0	--
Pioneer variety 9492	9-19	44.7	1.1	49.9	51.2	37.4	50.6	46.2
Delta King 4868 RR	9-22	45.0	1.0	49.5	57.0*	--	53.3	--
Morsoy RT 4478Scn	9-19	41.7	1.0	49.2	48.7	--	49.0	--
Mersch. Richmond VIRR	9-20	43.7	2.2	49.2	48.5	--	48.9	--
Golden Harvest X94728RR#	9-19	42.7	1.2	49.2	--	--	--	--
Delta King 4965 RR	9-25	43.3	3.2	48.6	53.4	--	51.0	--
Stine 4402-4	9-19	44.0	4.0	48.3	--	--	--	--
Asgrow AG4702	9-20	47.0	1.0	47.9	52.9	36.4	50.4	45.7
MPride/MPV 437NRR	9-18	39.0	1.0	47.7	--	--	--	--
Mersch. Memphis IVRR	9-19	40.7	1.8	47.4	46.1	--	46.8	--
Croplan Gen. 480RR	9-21	44.7	1.3	47.2	50.5	--	48.9	--
Deltapine DP 4690 RR	9-25	44.0	3.3	46.9	55.5*	--	51.2	--
Morsoy RT 4889N	9-19	46.3	2.0	46.4	49.2	--	47.8	--
Morsoy RT 4809	9-20	44.0	1.2	46.3	--	--	--	--
Morsoy RT 4729Scn	9-19	43.7	1.9	46.3	--	--	--	--
Dyna-Gro 3468NRR	9-21	41.7	1.3	46.1	--	--	--	--
Mersch. Norfolk IVRR	9-19	43.3	1.1	46.1	55.7*	--	50.9	--
Asgrow AG4403	9-19	44.3	2.1	46.1	--	--	--	--
Asgrow AG4902	9-21	43.0	2.1	45.6	55.7*	--	50.7	--
Gateway 4R472	9-25	45.7	3.7	45.2	--	--	--	--
Stine 4802-4	9-20	44.7	1.0	45.1	--	--	--	--
Garst D484 RR/N	9-20	48.7	2.3	45.0	50.7	--	47.9	--
Dyna-Gro 3482NRR	9-23	47.3	1.4	44.3	--	--	--	--
Deltapine DP 4344 RR	9-19	44.7	4.3	43.9	52.4	28.1	48.2	41.5
Hornbeck HBK R4660	9-18	48.3	1.3	43.8	44.6	--	44.2	--
DeltaGrow 4850RR	9-20	47.3	1.2	43.6	--	--	--	--
Atlas Mycogen 5441NRR	9-20	43.7	3.0	43.1	--	--	--	--
Atlas Mycogen 5480NRR	9-20	48.7	1.7	42.1	--	--	--	--
AgVenture AV6489NRR	9-22	48.7	2.6	41.7	--	--	--	--
Hornbeck HBK R4920	9-22	48.3	3.6	41.7	--	--	--	--
Willcross RR 2490N	9-18	48.3	1.4	41.6	--	--	--	--
Golden Harvest X04946RR#	9-21	48.7	1.3	41.0	--	--	--	--
Hartz H4884RR	9-19	50.3	1.7	40.6	--	--	--	--
UniSouth USG 7489RR	9-24	46.3	4.6	40.2	--	--	--	--
FFR X-4900RR#	9-20	46.7	4.4	40.0	--	--	--	--
Hornbeck HBK R4855	9-23	46.0	4.4	39.0	56.3*	--	47.7	--
Sure-Grow SG498RR	9-25	44.3	1.3	38.8	49.5	44.5	44.2	44.3
Delta King 4762 RR	9-23	52.3	2.3	38.4	49.1	42.3	43.8	43.3
FFR RT 517	9-23	41.0	4.6	36.4	44.0	--	40.2	--
Croplan Gen. 4979RR	9-27	51.0	4.1	33.2	--	--	--	--
GROUP 4 AVERAGE	9-21	45.3	2.2	44.9	50.8	33.7	47.9	43.2
L.S.D. AT .10	3	3.1	1.3	NS	4.9	NS		
C.V. %	0.7	5.1		15.6	7.0	--		

TABLE 65. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1998	1998	2 Yr.	3 Yr.
MATURITY GROUP 5								
Deltapine DP 5915 RR	10-05	40.1	2.0	42.9**	48.4*	--	45.7	--
Asgrow AG5701	10-06	41.1	2.7	42.1*	49.7*	--	45.9	--
Dyna-Gro 3562NRR	10-02	37.6	3.0	41.7*	--	--	--	--
UniSouth USG Exp.510NRR#	9-30	41.2	1.7	41.5*	--	--	--	--
Asgrow AG5501	9-30	37.5	2.0	40.3*	--	--	--	--
Delta King 5668RR	10-02	35.9	3.3	38.9*	--	--	--	--
Pioneer variety 95B32	9-28	40.1	1.3	38.9*	48.7*	--	43.8	--
Delta King 5465RR	9-30	39.3	1.3	38.7*	--	--	--	--
Delta King 5366RR	10-01	40.2	4.3	38.6*	--	--	--	--
Delta King 5267RR	9-26	43.7	1.7	37.9*	--	--	--	--
Excel 8510RR	9-22	47.9	1.0	37.8*	--	--	--	--
Delta King 5661 RR	10-05	43.3	3.7	37.5*	50.9**	--	44.2	--
Hartz H5231RR	10-01	39.7	2.0	37.3*	--	--	--	--
UniSouth USG Exp.540NRR#	9-29	41.4	1.7	36.9	--	--	--	--
Willcross RR 2520N	9-28	38.6	1.7	36.7	--	--	--	--
Dyna-Gro 3521NRR	10-01	41.8	1.0	36.6	--	--	--	--
Morsoy RT 5050	10-01	45.7	2.7	36.4	--	--	--	--
Willcross RR 2580N	10-04	39.2	3.0	36.4	--	--	--	--
Mersch. Rushmore IIRR	9-25	48.1	1.0	36.3	--	--	--	--
DeltaGrow 5310RR	9-30	46.1	3.0	35.9	--	--	--	--
Morsoy RT 5220N	9-26	44.2	2.7	35.8	--	--	--	--
DeltaGrow 5630RR	10-03	43.5	3.0	35.8	--	--	--	--
Deltapine DP 5644 RR	10-02	39.4	2.3	35.0	47.1*	25.7	41.1	35.9
Asgrow AG5902	10-02	41.4	3.7	34.9	--	--	--	--
Gateway 5R515	9-30	44.4	3.0	34.8	--	--	--	--
Willcross RR 2549N	9-30	44.4	3.3	34.6	--	--	--	--
Delta King 5762 RR	10-06	51.1	2.7	34.2	44.8	--	39.5	--
Garst AP 569RR/N	10-03	44.5	3.0	34.0	43.2	--	38.6	--
Deltapine DP 5806 RR	10-02	48.2	3.7	33.9	44.5	29.3	39.2	35.9
Asgrow AG5802	10-03	47.0	1.3	33.8	47.4*	--	40.6	--
Hornbeck HBK R5920	10-06	45.0	3.3	33.8	43.7	--	38.8	--
AgVenture AV6540NRR	9-30	40.9	2.0	33.5	--	--	--	--
Pioneer variety 95B53	9-30	38.4	3.0	33.2	49.3*	--	41.3	--
Asgrow AG5001	9-23	46.3	2.0	33.1	49.5*	--	41.3	--
MPride/MPV 537NRR	9-30	41.2	2.7	32.4	40.7	45.2	36.6	39.4
Pioneer variety 95B95	10-03	42.1	2.0	32.1	--	--	--	--
MPride/MPV 519NRR	9-29	36.9	1.7	32.0	--	--	--	--
DeltaGrow 5950RR	10-06	41.0	2.7	31.8	--	--	--	--
Hornbeck HBK R5588	10-01	42.6	3.7	31.4	40.5	44.3	36.0	38.7
Croplan Gen. 556RR	10-01	40.7	2.7	30.7	41.1	42.8	35.9	38.2
Hornbeck HBK XR575-99#	10-02	43.8	2.3	30.7	--	--	--	--
Croplan Gen. 5770RR	10-03	45.5	2.3	30.6	--	--	--	--
FFR RT 557	9-30	44.7	4.0	30.6	41.5	44.5	36.1	38.9
Garst AP 529RR/N	9-28	42.6	3.7	30.4	41.5	--	36.0	--
FFR RT 5485	9-30	42.9	1.7	27.5	47.9*	--	37.7	--
GROUP 5 AVERAGE	10-01	42.5	2.5	35.3	44.2	40.0	39.8	39.8
L.S.D. AT .10	3	4.6	1.1	5.9	4.9	NS		
C.V. %	0.7	7.9		12.1	8.1	--		
TRIAL AVERAGE		43.9	2.4	40.1	47.8	36.5	44.0	41.5

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 66. Performance of Roundup Ready Soybean Varieties evaluated near Morehouse (Stoddard County) on the Tom Jennings Farm during 1998-2000.

Planted: 18 May 2000
 Harvested: 18 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Gideon Silt Loam
 Soil Test: pH=6.6, OM=3.3%, P=30, K=266

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squalon
 Post: Roundup Ultra
 Irrigation: 5.0 inches
 Previous Crop: Rice
 Tillage: Conventional

Cyst Nematode Population at Planting: 140 Eggs/250cc of soil

Growing Season Rainfall: May=7.2, June=3.4, July=3.8, Aug.=2.2, Sept.=2.2 TOTAL=18.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
	MATURITY GROUP 4							
Stine 4402-4	9-23	34.2	2.0	74.7**	--	--	--	--
MPride/MPV 457NRR	9-19	33.5	2.3	74.2*	54.0	21.8	64.1	50.0
Delta King 4868 RR	9-20	32.6	1.7	71.3*	61.5**	--	66.4	--
Morsoy RT 4478Scn	9-19	32.7	1.6	71.0*	49.9	--	60.5	--
Dekalb DKB44-51c	9-19	33.6	1.0	70.9*	--	--	--	--
Garst D484 RR/N	9-23	40.3	3.0	70.8*	52.9	--	61.9	--
Asgrow AG4902	9-22	34.8	1.3	70.8*	52.9	--	61.9	--
Atlas Mycogen 5441NRR	9-20	39.8	2.0	70.5*	--	--	--	--
Dyna-Gro 3468NRR	9-20	35.2	1.4	70.1*	--	--	--	--
Morsoy RT 4809	9-20	35.6	2.7	69.9*	--	--	--	--
Gateway 4R472	9-21	39.7	2.3	69.9*	--	--	--	--
DeltaGrow 4850RR	9-21	35.6	2.8	69.6*	--	--	--	--
UniSouth USG 7499nRR	9-20	36.9	1.7	69.5*	49.6	--	59.6	--
UniSouth USG 7489RR	9-21	42.5	2.6	69.5*	--	--	--	--
Pioneer variety 9492	9-20	36.9	1.7	69.5*	56.7*	26.5	63.1	50.9
Croplan Gen. 480RR	9-21	34.1	3.4	69.3*	53.9	--	61.6	--
Deltapine DP 4344 RR	9-19	35.5	2.3	69.2*	48.0	29.6	58.6	48.9
Hornbeck HBK R4855	9-20	33.9	2.0	68.6	54.5	--	61.6	--
Delta King 4965 RR	9-21	33.0	1.3	68.6	48.2	--	58.4	--
Deltapine DP 4690 RR	9-23	33.6	1.7	68.4	54.2	--	61.3	--
Willcross RR 2490N	9-21	39.1	2.0	68.3	--	--	--	--
Morsoy RT 4499N	9-18	34.4	4.6	68.0	--	--	--	--
Morsoy RT 4729Scn	9-18	35.3	2.0	67.9	--	--	--	--
Hornbeck HBK R4920	9-21	32.4	2.3	67.7	--	--	--	--
Asgrow AG4403	9-22	38.5	1.4	67.7	--	--	--	--
AgVenture AV6489NRR	9-23	33.9	2.7	67.7	--	--	--	--
Mersch. Richmond VIRR	9-21	38.2	2.1	67.7	52.0	--	59.9	--
Hornbeck HBK R4660	9-21	38.8	2.4	67.3	48.1	--	57.7	--
Golden Harvest X04946RR#	9-22	36.8	2.3	66.5	--	--	--	--
Atlas Mycogen 5480NRR	9-23	39.7	2.7	66.5	--	--	--	--
Dyna-Gro 3482NRR	9-20	39.1	2.7	65.9	--	--	--	--
Morsoy RT 4889N	9-21	32.8	2.3	65.8	54.4	--	60.1	--
FFR X-4900RR#	9-23	37.8	2.3	65.1	--	--	--	--
Stine 4802-4	9-21	37.0	2.7	64.4	--	--	--	--
Asgrow AG4702	9-21	36.6	2.6	64.3	55.2	22.3	59.8	47.3
Mersch. Norfolk IVRR	9-20	36.9	1.4	64.0	52.0	--	58.0	--
Sure-Grow SG498RR	9-22	37.3	1.0	63.8	52.6	28.8	58.2	48.4
Hartz H4884RR	9-21	35.8	2.6	63.4	--	--	--	--
Mersch. Memphis IVRR	9-20	36.2	1.4	63.0	46.6	--	54.8	--
MPride/MPV 437NRR	9-21	36.1	1.0	62.8	--	--	--	--
Delta King 4762 RR	9-21	38.5	3.0	60.0	52.3	29.0	56.2	47.1
FFR RT 517	9-23	35.3	2.4	59.7	46.3	--	53.0	--
Golden Harvest X94728RR#	9-18	34.7	1.7	57.9	--	--	--	--
Croplan Gen. 4979RR	9-26	33.0	3.7	57.4	--	--	--	--
GROUP 4 AVERAGE	9-21	36.1	2.2	67.2	51.8	24.5	59.5	47.8
L.S.D. AT .10	2	NS	0.7	5.9	4.8	NS		
C.V. %	0.7	12.4		6.6	6.8	--		

TABLE 66. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 5								
Asgrow AG5501	9-29	35.8	1.7	74.5**	--	--	--	--
Hartz H5231RR	9-26	31.4	1.4	70.2*	--	--	--	--
UniSouth USG Exp.510NRR#	9-30	36.9	2.0	70.0*	--	--	--	--
Dyna-Gro 3562NRR	10-01	33.2	2.7	70.0*	--	--	--	--
Delta King 5668RR	9-30	33.4	3.3	68.5	--	--	--	--
Dyna-Gro 3521NRR	9-30	37.3	1.6	67.4	--	--	--	--
Delta King 5267RR	9-29	35.1	2.0	65.7	--	--	--	--
Delta King 5465RR	9-29	34.4	1.7	65.6	--	--	--	--
UniSouth USG Exp.540NRR#	9-27	35.0	1.4	65.3	--	--	--	--
Delta King 5661 RR	10-02	32.5	2.3	65.2	63.0*	--	64.1	--
Morsoy RT 5050	9-25	39.3	2.3	64.8	--	--	--	--
Asgrow AG5701	10-04	34.4	2.6	64.7	61.9*	--	63.3	--
DeltaGrow 5630RR	10-04	38.5	3.7	64.6	--	--	--	--
Delta King 5366RR	10-01	33.5	4.7	64.5	--	--	--	--
Garst AP 529RR/N	9-30	31.4	2.4	64.4	62.2*	--	63.3	--
Asgrow AG5001	9-21	41.6	2.3	64.3	61.7*	--	63.0	--
Asgrow AG5802	10-06	38.0	1.6	64.1	63.1*	--	63.6	--
Willcross RR 2580N	10-04	39.0	4.0	63.6	--	--	--	--
Hornbeck HBK XR575-99#	10-05	37.5	1.7	63.2	--	--	--	--
Excel 8510RR	9-28	40.8	1.3	62.8	--	--	--	--
Pioneer variety 95B32	9-22	28.8	1.4	60.9	63.0*	--	62.0	--
DeltaGrow 5950RR	10-06	36.2	3.1	60.0	--	--	--	--
Delta King 5762 RR	10-05	37.7	2.7	59.9	60.6*	--	60.3	--
Asgrow AG5902	10-05	35.7	3.0	59.1	--	--	--	--
MPride/MPV 519NRR	9-22	32.3	1.9	59.0	--	--	--	--
Morsoy RT 5220N	9-26	35.3	2.4	58.9	--	--	--	--
Mersch. Rushmore IIIR	9-30	42.8	1.7	57.8	--	--	--	--
Pioneer variety 95B53	9-27	32.0	2.0	57.7	65.3*	--	61.5	--
Willcross RR 2520N	9-21	31.6	2.0	57.6	--	--	--	--
AgVenture AV6540NRR	9-26	30.3	2.6	57.2	--	--	--	--
Deltapine DP 5644 RR	9-30	30.2	2.3	56.4	54.2	20.0	55.3	43.5
Willcross RR 2549N	9-28	35.9	2.9	56.0	--	--	--	--
Deltapine DP 5915 RR	9-30	30.7	2.4	55.9	59.1	--	57.5	--
Hornbeck HBK R5920	10-07	38.7	3.3	55.9	64.3*	--	60.1	--
DeltaGrow 5310RR	9-25	35.6	3.7	54.4	--	--	--	--
FFR RT 557	9-27	34.9	3.6	53.9	53.5	31.5	53.7	46.3
FFR RT 5485	9-25	33.4	2.2	53.5	53.6	--	53.6	--
Gateway 5R515	9-28	32.9	3.0	53.4	--	--	--	--
MPride/MPV 537NRR	9-29	34.8	3.2	53.0	53.9	27.6	53.5	44.8
Hornbeck HBK R5588	9-28	34.8	4.1	52.8	60.3	25.4	56.6	46.2
Pioneer variety 95B95	10-06	37.8	2.7	52.1	--	--	--	--
Garst AP 569RR/N	10-02	32.0	3.9	51.5	58.9	--	55.2	--
Croplan Gen. 556RR	9-26	30.6	2.2	49.2	56.2	22.4	52.7	42.6
Deltapine DP 5806 RR	10-04	30.4	4.3	48.7	63.0*	22.2	55.9	44.6
Croplan Gen. 5770RR	10-04	35.5	2.6	47.7	--	--	--	--
GROUP 5 AVERAGE	9-30	34.9	2.6	60.1	59.3	23.5	59.7	47.6
L.S.D. AT .10	3	4.3	0.9	5.5	6.0	NS		
C.V. %	0.7	8.9		6.6	7.4	--		
TRIAL AVERAGE		35.5	2.4	63.7	55.3	24.1	59.5	47.7

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 67. Performance of Roundup Ready Soybean Varieties evaluated on a Loam Soil near Portageville (Pemiscott County) on the Delta Research Center during 1998-2000.

Planted: 8 May 2000
 Harvested: 30 Sept., 19 Oct. 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Tiptonville Silt Loam
 Soil Test: pH=6.8, OM=1.6%, P=169, K=429

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Roundup Ultra
 Irrigation: 1.5 inches
 Previous Crop: Cotton
 Tillage: Conventional

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

Growing Season Rainfall: May=5.6, June=4.4, July=3.0, Aug.=0.4, Sept.=1.4 TOTAL=14.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Dekal DKB44-51c	9-06	39.4	1.0	48.4**	--	--	--	--
Hornbeck HBK R4920	9-15	43.2	1.1	47.5*	--	--	--	--
Asgrow AG4902	9-12	39.4	1.1	46.5*	60.1*	--	53.3	--
Atlas Mycogen 5480NRR	9-10	43.3	1.1	45.5*	--	--	--	--
Gateway 4R472	9-18	45.8	1.0	45.3*	--	--	--	--
Stine 4402-4	9-09	41.5	1.2	45.2*	--	--	--	--
DeltaGrow 4850RR	9-10	43.5	1.0	45.2*	--	--	--	--
AgVenture AV6489NRR	9-14	43.5	1.0	45.0*	--	--	--	--
Stine 4802-4	9-12	42.9	1.0	44.9*	--	--	--	--
FFR X-4900RR#	9-20	37.4	1.0	44.4*	--	--	--	--
UniSouth USG 7499nRR	9-09	39.1	1.1	44.3*	55.1	--	49.7	--
Pioneer variety 9492	9-09	39.1	1.1	44.3*	57.7	60.2	51.0	54.1
Garst D484 RR/N	9-09	43.7	1.2	43.8*	60.6*	--	52.2	--
Delta King 4965 RR	9-13	42.6	1.3	43.7*	60.8*	--	52.3	--
Deltapine DP 4690 RR	9-13	37.6	1.0	43.6*	60.3*	--	52.0	--
Hornbeck HBK R4855	9-10	43.0	1.0	43.5*	58.3	--	50.9	--
Sure-Grow SG498RR	9-19	39.3	1.0	43.5*	63.4*	57.2	53.5	54.7
Hartz H4884RR	9-10	39.7	1.1	43.3*	--	--	--	--
UniSouth USG 7489RR	9-18	43.0	1.3	43.0*	--	--	--	--
FFR RT 517	9-18	30.7	1.0	42.8*	55.1	--	49.0	--
MPride/MPV 437NRR	9-07	34.6	1.1	42.6*	--	--	--	--
MPride/MPV 457NRR	9-08	40.1	1.7	42.4*	61.3*	66.2*	51.9	56.6
Morsoy RT 4729Scn	9-07	38.3	1.1	42.3*	--	--	--	--
Willcross RR 2490N	9-12	45.5	1.0	41.8	--	--	--	--
Mersch. Memphis IVRR	9-08	32.8	1.1	41.6	56.5	--	49.1	--
Delta King 4868 RR	9-15	40.8	1.0	41.5	66.3**	--	53.9	--
Morsoy RT 4809	9-16	37.4	1.0	41.3	--	--	--	--
Asgrow AG4403	9-08	38.4	1.0	41.2	--	--	--	--
Mersch. Richmond VIRR	9-09	41.4	1.1	41.0	63.5*	--	52.3	--
Morsoy RT 4478Scn	9-08	35.7	1.0	40.9	64.3*	--	52.6	--
Deltapine DP 4344 RR	9-09	42.8	1.4	40.8	50.4	61.7*	45.6	51.0
Dyna-Gro 3468NRR	9-08	35.3	1.1	40.3	--	--	--	--
Dyna-Gro 3482NRR	9-10	40.4	1.5	39.8	--	--	--	--
Morsoy RT 4499N	9-06	40.8	2.4	39.7	--	--	--	--
Mersch. Norfolk IVRR	9-09	36.7	1.1	39.7	57.9	--	48.8	--
Hornbeck HBK R4660	9-09	42.9	1.0	39.6	56.2	--	47.9	--
Atlas Mycogen 5441NRR	9-08	41.1	1.0	39.0	--	--	--	--
Golden Harvest X04946RR#	9-10	51.1	1.0	38.5	--	--	--	--
Croplan Gen. 4979RR	9-24	48.4	1.3	38.1	--	--	--	--
Asgrow AG4702	9-10	39.4	1.0	37.7	57.3	67.1*	47.5	54.0
Morsoy RT 4889N	9-09	39.3	1.3	37.6	59.3	--	48.5	--
Delta King 4762 RR	9-13	41.5	1.0	36.4	62.7*	57.1	49.6	52.1
Croplan Gen. 480RR	9-10	40.7	1.4	35.9	59.4	--	47.7	--
Golden Harvest X94728RR#	9-09	37.9	1.1	34.8	--	--	--	--
GROUP 4 AVERAGE	9-11	40.5	1.1	42.0	57.6	62.5	49.8	54.0
L.S.D. AT .10	3	4.0	0.3	6.1	6.3	7.3		
C.V. %	0.9	7.4		10.7	8.1	7.0		

TABLE 67. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 5								
UniSouth USG Exp.510NRR#	9-23	34.7	1.0	55.4**	--	--	--	--
Delta King 5465RR	9-22	31.4	1.0	55.0*	--	--	--	--
Pioneer variety 95B53	9-24	29.0	1.0	54.4*	54.7*	--	54.6	--
Asgrow AG5501	9-23	29.7	1.0	52.9*	--	--	--	--
Dyna-Gro 3521NRR	9-23	35.4	1.0	52.4*	--	--	--	--
Hartz H5231RR	9-22	32.4	1.0	52.3*	--	--	--	--
Hornbeck HBK XR575-99#	9-28	33.8	1.0	51.2*	--	--	--	--
UniSouth USG Exp.540NRR#	9-22	33.8	1.0	51.0*	--	--	--	--
Willcross RR 2549N	9-20	32.9	1.7	51.0*	--	--	--	--
Delta King 5668RR	9-26	33.0	1.0	50.8*	--	--	--	--
FFR RT 557	9-22	36.3	1.3	50.7*	51.5	46.2	51.1	49.5
AgVenture AV6540NRR	9-22	32.3	1.0	50.3*	--	--	--	--
Pioneer variety 95B95	9-29	37.7	1.0	49.9*	--	--	--	--
Delta King 5267RR	9-19	35.8	1.3	49.0*	--	--	--	--
Pioneer variety 95B32	9-21	31.1	1.0	49.0*	59.1*	--	54.1	--
Morsoy RT 5220N	9-20	34.8	1.3	48.7*	--	--	--	--
DeltaGrow 5630RR	9-27	34.7	1.0	48.6*	--	--	--	--
Hornbeck HBK R5588	9-23	36.9	1.3	48.6*	49.8	46.4	49.2	48.3
MPride/MPV 537NRR	9-22	34.2	1.0	48.4*	50.1	48.5	49.3	49.0
Deltapine DP 5806 RR	9-29	33.8	1.3	48.0*	53.9*	47.2	51.0	49.7
Asgrow AG5802	9-29	38.4	1.0	47.7*	49.5	--	48.6	--
Dyna-Gro 3562NRR	9-25	33.5	1.0	47.6*	--	--	--	--
Willcross RR 2520N	9-22	29.3	1.0	47.3*	--	--	--	--
DeltaGrow 5310RR	9-21	32.2	1.7	46.9	--	--	--	--
Delta King 5366RR	9-26	35.8	1.0	46.9	--	--	--	--
Croplan Gen. 556RR	9-23	36.2	1.0	46.6	51.7	55.0	49.2	51.1
Willcross RR 2580N	9-27	36.1	1.0	46.3	--	--	--	--
Asgrow AG5701	9-28	33.6	1.0	46.3	54.0*	--	50.2	--
Asgrow AG5001	9-19	39.1	2.0	46.0	49.6	--	47.8	--
DeltaGrow 5950RR	9-28	39.9	1.0	45.8	--	--	--	--
Garst AP 569RR/N	9-28	34.6	1.3	45.5	40.1	--	42.8	--
Delta King 5762 RR	9-27	38.5	1.0	45.3	51.3	--	48.3	--
Delta King 5661 RR	9-28	37.0	1.3	45.2	54.2*	--	49.7	--
Gateway 5R515	9-22	34.0	1.0	44.9	--	--	--	--
Deltapine DP 5915 RR	9-29	35.0	1.0	44.5	53.3	--	48.9	--
Morsoy RT 5050	9-19	41.0	1.3	43.5	--	--	--	--
Hornbeck HBK R5920	9-28	40.4	1.0	43.4	50.7	--	47.1	--
MPride/MPV 519NRR	9-22	27.9	1.0	43.1	--	--	--	--
FFR RT 5485	9-22	30.2	1.0	42.9	46.3	--	44.6	--
Excel 8510RR	9-18	43.5	1.0	42.2	--	--	--	--
Deltapine DP 5644 RR	9-25	33.8	1.0	42.0	51.3	50.2	46.7	47.8
Mersch. Rushmore IIRR	9-21	40.1	1.0	39.8	--	--	--	--
Garst AP 529RR/N	9-23	36.6	1.0	38.4	50.6	--	44.5	--
Asgrow AG5902	9-29	37.2	1.0	38.3	--	--	--	--
Croplan Gen. 5770RR	9-29	37.6	1.0	37.4	--	--	--	--
GROUP 5 AVERAGE	9-24	35.0	1.1	47.1	51.1	50.0	49.1	49.4
L.S.D. AT .10	2	4.3	0.4	8.4	6.8	8.6		
C.V. %	0.4	8.8		13.0	9.8	10.3		
TRIAL AVERAGE		37.7	1.1	44.6	54.5	57.0	49.5	52.0

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

TABLE 68. Performance of Roundup Ready Soybean varieties evaluated on a Clay Soil near Portageville (Pemiscott County) on the Delta Research Center during 1998-2000.

Planted: 9 May 2000
 Harvested: 15,19 October 2000
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 inches
 Soil Type: Sharkey Silty Clay
 Soil Test: pH=6.0, OM=2.6%, P=71, K=411

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: Roundup Ultra
 Irrigation: 3.0 inches
 Previous Crop: Cotton
 Tillage: Conventional

Cyst Nematode Population at Planting: 140 Eggs/250cc of soil

Growing Season Rainfall: May=5.6, June=4.4, July=3.0, Aug.=0.4, Sept.=1.4 TOTAL=14.8 in.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 4								
Dyna-Gro 3482NRR	9-16	32.9	1.4	49.8**	--	--	--	--
Morsoy RT 4809	9-18	28.8	1.2	49.3*	--	--	--	--
Deltapine DP 4690 RR	9-16	32.8	1.0	48.4*	53.1*	--	50.8	--
Croplan Gen. 480RR	9-13	30.5	1.6	46.8*	54.8*	--	50.8	--
Delta King 4965 RR	9-16	31.6	2.2	45.4*	47.6	--	46.5	--
Morsoy RT 4499N	9-09	30.8	1.9	45.2*	--	--	--	--
Hartz H4884RR	9-18	34.9	1.4	45.1*	--	--	--	--
AgVenture AV6489NRR	9-16	31.9	1.9	44.9*	--	--	--	--
UniSouth USG 7489RR	9-13	31.2	1.5	44.9*	--	--	--	--
Asgrow AG4702	9-18	32.0	1.4	44.7*	46.9	33.4*	45.8	41.7
Gateway 4R472	9-13	34.2	1.1	44.6*	--	--	--	--
Garst D484 RR/N	9-13	32.1	1.0	44.1*	50.0	--	47.1	--
Delta King 4762 RR	9-21	37.2	1.4	43.6	52.4	35.6**	48.0	43.9
Stine 4802-4	9-14	31.7	1.3	43.6	--	--	--	--
DeltaGrow 4850RR	9-16	32.0	1.2	43.6	--	--	--	--
Asgrow AG4403	9-12	26.9	1.1	43.5	--	--	--	--
Pioneer variety 9492	9-14	26.8	1.2	43.5	51.6	22.8	47.6	39.3
UniSouth USG 7499nRR	9-14	26.8	1.2	43.5	48.6	--	46.1	--
Stine 4402-4	9-11	29.2	1.0	43.4	--	--	--	--
Willcross RR 2490N	9-16	33.3	1.1	43.4	--	--	--	--
Deltapine DP 4344 RR	9-11	35.4	1.5	43.4	41.3	30.0*	42.4	38.2
Morsoy RT 4729Scn	9-12	30.3	1.0	43.1	--	--	--	--
MPride/MPV 457NRR	9-12	29.6	1.8	43.0	49.6	28.6	46.3	40.4
Hornbeck HBK R4855	9-11	27.9	1.3	43.0	43.5	--	43.3	--
Delta King 4868 RR	9-13	28.6	1.0	42.7	57.4**	--	50.1	--
Morsoy RT 4889N	9-15	32.8	1.7	42.4	52.0	--	47.2	--
Golden Harvest X04946RR#	9-14	32.6	1.2	42.2	--	--	--	--
Atlas Mycogen 5441NRR	9-12	28.8	1.0	41.7	--	--	--	--
Dekalb DKB44-51c	9-11	26.9	1.0	41.7	--	--	--	--
Hornbeck HBK R4660	9-13	31.1	1.2	41.5	46.0	--	43.8	--
Hornbeck HBK R4920	9-14	30.4	1.2	41.4	--	--	--	--
Asgrow AG4902	9-14	29.7	1.0	40.6	47.9	--	44.3	--
FFR X-4900RR#	9-21	31.7	1.4	40.6	--	--	--	--
Mersch. Memphis IVRR	9-14	29.6	1.0	40.6	49.5	--	45.1	--
FFR RT 517	9-19	28.9	1.0	40.1	52.9*	--	46.5	--
Dyna-Gro 3468NRR	9-14	24.9	1.1	39.8	--	--	--	--
MPride/MPV 437NRR	9-12	24.9	1.3	39.7	--	--	--	--
Atlas Mycogen 5480NRR	9-14	31.5	1.1	39.5	--	--	--	--
Mersch. Richmond VIRR	9-13	31.2	1.3	38.5	51.1	--	44.8	--
Morsoy RT 4478Scn	9-12	26.6	1.1	38.4	44.5	--	41.5	--
Sure-Grow SG498RR	9-20	25.5	1.1	38.4	50.9	25.3	44.7	38.2
Mersch. Norfolk IVRR	9-14	24.9	1.0	37.2	49.4	--	43.3	--
Croplan Gen. 4979RR	9-25	39.3	3.2	36.6	--	--	--	--
Golden Harvest X94728RR#	9-13	25.9	1.0	35.5	--	--	--	--
GROUP 4 AVERAGE	9-14	30.4	1.3	42.6	47.4	27.5	45.0	39.2
L.S.D. AT .10	3	3.8	0.7	5.9	4.5	6.8		
C.V. %	0.8	9.2		10.2	7.2	14.9		

TABLE 68. Continued.

Brand-Variety	2000			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	2000	1999	1998	2 Yr.	3 Yr.
MATURITY GROUP 5								
Hornbeck HBK R5588	9-24	30.7	1.3	39.7**	50.1	28.2	44.9	39.3
Dyna-Gro 3562NRR	9-27	30.5	1.0	39.6*	--	--	--	--
Delta King 5366RR	9-26	32.5	1.0	39.4*	--	--	--	--
UniSouth USG Exp.540NRR#	9-23	26.0	1.0	38.9*	--	--	--	--
Morsoy RT 5220N	9-23	28.8	1.0	38.5*	--	--	--	--
DeltaGrow 5630RR	9-27	31.6	1.0	38.1*	--	--	--	--
Delta King 5465RR	9-23	24.8	1.0	38.0*	--	--	--	--
Deltapine DP 5644 RR	9-26	29.6	1.0	37.9*	43.3	36.6*	40.6	39.3
Delta King 5762 RR	9-28	35.6	1.0	36.4*	47.8	--	42.1	--
Delta King 5267RR	9-22	26.7	1.0	36.2*	--	--	--	--
Morsoy RT.5050	9-16	27.8	1.0	35.9*	--	--	--	--
Pioneer variety 95B95	9-29	29.9	1.0	35.4*	--	--	--	--
Hartz H5231RR	9-23	22.9	1.0	35.2*	--	--	--	--
Delta King 5668RR	9-27	25.7	1.0	34.9*	--	--	--	--
UniSouth USG Exp.510NRR#	9-25	28.6	1.0	34.1*	--	--	--	--
DeltaGrow 5950RR	9-28	35.9	1.0	34.0*	--	--	--	--
Asgrow AG5001	9-16	29.7	1.0	33.8*	42.8	--	38.3	--
Asgrow AG5902	9-28	32.4	1.0	33.4*	--	--	--	--
Pioneer variety 95B53	9-26	25.0	1.0	33.3*	55.4**	--	44.4	--
Garst AP 529RR/N	9-26	32.1	1.0	33.0*	44.4	--	38.7	--
Deltapine DP 5806 RR	9-29	30.8	1.0	32.9*	48.9	37.9*	40.9	39.9
MPride/MPV 537NRR	9-24	26.5	1.0	32.8	45.6	28.8	39.2	35.7
Hornbeck HBK R5920	9-27	31.7	1.0	32.4	50.0	--	41.2	--
FFR RT 557	9-24	30.7	1.0	32.3	48.8	32.2	40.6	37.8
Willcross RR 2580N	9-27	28.2	1.0	32.2	--	--	--	--
Delta King 5661 RR	9-27	32.3	1.0	32.0	50.4	--	41.2	--
DeltaGrow 5310RR	9-23	28.6	1.0	31.9	--	--	--	--
MPride/MPV 519NRR	9-23	23.4	1.0	31.2	--	--	--	--
Deltapine DP 5915 RR	9-28	31.3	1.0	30.9	49.3	--	40.1	--
Hornbeck HBK XR575-99#	9-29	26.5	1.0	30.4	--	--	--	--
Willcross RR 2549N	9-23	26.1	1.0	30.3	--	--	--	--
Dyna-Gro 3521NRR	9-25	29.2	1.0	30.2	--	--	--	--
Asgrow AG5701	9-28	29.3	1.0	30.2	52.7*	--	41.5	--
AgVenture AV6540NRR	9-23	28.1	1.0	30.1	--	--	--	--
Asgrow AG5802	10-01	31.9	1.0	29.3	45.2	--	37.3	--
Pioneer variety 95B32	9-23	22.6	1.0	29.0	51.3	--	40.2	--
Gateway 5R515	9-24	25.1	1.0	28.3	--	--	--	--
Mersch. Rushmore IIIR	9-22	34.9	1.0	28.1	--	--	--	--
Garst AP 569RR/N	9-28	29.0	1.0	27.2	42.1	--	34.7	--
Excel 8510RR	9-18	33.8	1.0	26.8	--	--	--	--
FFR RT 5485	9-23	28.3	1.0	25.9	43.4	--	34.7	--
Willcross RR 2520N	9-24	22.2	1.0	25.8	--	--	--	--
Croplan Gen. 556RR	9-23	24.2	1.0	25.8	47.7	29.6	36.8	34.4
Asgrow AG5501	9-25	23.2	1.0	22.8	--	--	--	--
Croplan Gen. 5770RR	9-28	25.3	1.0	20.0	--	--	--	--
GROUP 5 AVERAGE	9-25	28.7	1.0	32.3	47.1	31.0	39.7	36.8
L.S.D. AT .10	2	3.5	NS	6.8	3.3	7.6		
C.V. %	0.4	8.8		15.5	5.1	14.5		
TRIAL AVERAGE		29.5	1.2	37.4	47.3	29.0	42.3	37.9

Experimental variety.

-- Data not available.

** Highest yielding variety in the maturity group.

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

NS Not Significant.

TABLE 69. Yield Summary for Roundup Ready Soybean Varieties evaluated at Five Southeastern Missouri locations (Oran Wyatt, Morehouse, and Portageville) during 2000.

Brand-Variety	Yield (Bu/Acre)					
	Oran	Wyatt	Morehouse	Port-Loam	Port-Clay	Mean
MATURITY GROUP 4						
Dekalb DKB44-51c	54.5**	51.8**	70.9*	48.4**	41.7	53.5**
MPride/MPV 457NRR	47.5	51.3	74.2*	42.4*	43.0	51.7*
Garst D484 RR/N	48.9*	45.0	70.8*	43.8*	44.1*	50.5*
Gateway 4R472	46.8	45.2	69.9*	45.3*	44.6*	50.4*
Delta King 4868 RR	46.3	49.5	71.3*	41.5	42.7	50.3*
Asgrow AG4902	46.2	45.6	70.8*	46.5*	40.6	49.9
Delta King 4965 RR	43.3	48.6	68.6	43.7*	45.4*	49.9
DeltaGrow 4850RR	45.9	43.6	69.6*	45.2*	43.6	49.6
Morsoy RT 4809	40.9	46.3	69.9*	41.3	49.3*	49.5
Croplan Gen. 480RR	47.2	47.2	69.3*	35.9	46.8*	49.3
Deltapine DP 4690 RR	38.9	46.9	68.4	43.6*	48.4*	49.2
Dyna-Gro 3482NRR	46.1	44.3	65.9	39.8	49.8**	49.2
Stine 4802-4	47.7	45.1	64.4	44.9*	43.6	49.1
Asgrow AG4403	46.7	46.1	67.7	41.2	43.5	49.0
Stine 4402-4	31.6	48.3	74.7**	45.2*	43.4	48.6
Morsoy RT 4499N	37.6	51.1	68.0	39.7	45.2*	48.3
UniSouth USG 7489RR	43.8	40.2	69.5*	43.0*	44.9*	48.3
Atlas Mycogen 5480NRR	47.7	42.1	66.5	45.5*	39.5	48.2
Deltapine DP 4344 RR	43.9	43.9	69.2*	40.8	43.4	48.2
Mersch. Richmond VIRR	44.8	49.2	67.7	41.0	38.5	48.2
Morsoy RT 4729Scn	41.4	46.3	67.9	42.3	43.1	48.2
Morsoy RT 4478Scn	40.9	49.2	71.0*	40.9	38.4	48.1
Hornbeck HBK R4920	41.8	41.7	67.7	47.5*	41.4	48.0
Atlas Mycogen 5441NRR	45.2	43.1	70.5*	39.0	41.7	47.9
UniSouth USG 7499nRR	31.5	49.9	69.5*	44.3*	43.5	47.7
Pioneer variety 9492	31.5	49.9	69.5*	44.3*	43.5	47.7
AgVenture AV6489NRR	39.3	41.7	67.7	45.0*	44.9*	47.7
Asgrow AG4702	43.2	47.9	64.3	37.7	44.7*	47.6
Morsoy RT 4889N	45.3	46.4	65.8	37.6	42.4	47.5
Hartz H4884RR	44.5	40.6	63.4	43.3*	45.1*	47.4
Dyna-Gro 3468NRR	40.0	46.1	70.1*	40.3	39.8	47.2
Mersch. Memphis IVRR	41.2	47.4	63.0	41.6	40.6	46.8
Hornbeck HBK R4855	39.1	39.0	68.6	43.5*	43.0	46.6
Willcross RR 2490N	35.2	41.6	68.3	41.8	43.4	46.1
MPride/MPV 437NRR	37.1	47.7	62.8	42.6*	39.7	46.0
Hornbeck HBK R4660	36.0	43.8	67.3	39.6	41.5	45.6
Mersch. Norfolk IVRR	41.0	46.1	64.0	39.7	37.2	45.6
Golden Harvest X04946RR#	39.1	41.0	66.5	38.5	42.2	45.4
FFR X-4900RR#	36.8	40.0	65.1	44.4*	40.6	45.4
Sure-Grow SG498RR	41.9	38.8	63.8	43.5*	38.4	45.3
FFR RT 517	34.3	36.4	59.7	42.8*	40.1	42.6
Golden Harvest X94728RR#	33.2	49.2	57.9	34.8	35.5	42.1
Delta King 4762 RR	19.0	38.4	60.0	36.4	43.6	39.5
Croplan Gen. 4979RR	28.8	33.2	57.4	38.1	36.6	38.8
GROUP 4 AVERAGE	41.0	44.9	67.2	42.0	42.6	47.5
L.S.D. AT .10	6.3	NS	5.9	6.1	5.9	3.3
C.V.%	11.2	15.6	6.6	10.7	10.2	10.4

TABLE 69. Continued.

Brand-Variety	Yield (Bu/Acre)					
	Oran	Wyatt	Morehouse	Port-Loam	Port-Clay	Mean
MATURITY GROUP 5						
Delta King 5465RR	46.6**	38.7*	65.6	55.0*	38.0*	48.8**
UniSouth USG Exp.510NRR#	39.6*	41.5*	70.0*	55.4**	34.1*	48.1*
Dyna-Gro 3562NRR	38.7	41.7*	70.0*	47.6*	39.6*	47.5*
Hartz H5231RR	42.1*	37.3*	70.2*	52.3*	35.2*	47.4*
UniSouth USG Exp.540NRR#	42.2*	36.9	65.3	51.0*	38.9*	46.9*
Asgrow AG5501	42.9*	40.3*	74.5**	52.9*	22.8	46.7*
Delta King 5668RR	40.3*	38.9*	68.5	50.8*	34.9*	46.7*
Dyna-Gro 3521NRR	46.2*	36.6	67.4	52.4*	30.2	46.6*
Delta King 5366RR	39.3*	38.6*	64.5	46.9	39.4*	45.7*
Delta King 5267RR	39.0	37.9*	65.7	49.0*	36.2*	45.6*
Willcross RR 2580N	46.1*	36.4	63.6	46.3	32.2	44.9
Pioneer variety 95B32	42.1*	38.9*	60.9	49.0*	29.0	44.0
Asgrow AG5701	36.5	42.1*	64.7	46.3	30.2	44.0
Morsoy RT 5220N	37.8	35.8	58.9	48.7*	38.5*	43.9
Delta King 5661 RR	38.6	37.5*	65.2	45.2	32.0	43.7
DeltaGrow 5630RR	30.7	35.8	64.6	48.6*	38.1*	43.6
Morsoy RT 5050	36.4	36.4	64.8	43.5	35.9*	43.4
Asgrow AG5802	41.9*	33.8	64.1	47.7*	29.3	43.4
Deltapine DP 5915 RR	42.3*	42.9**	55.9	44.5	30.9	43.3
Hornbeck HBK XR575-99#	40.6*	30.7	63.2	51.2*	30.4	43.2
Pioneer variety 95B53	35.4	33.2	57.7	54.4*	33.3*	42.8
Asgrow AG5001	36.4	33.1	64.3	46.0	33.8*	42.7
Deltapine DP 5644 RR	42.1*	35.0	56.4	42.0	37.9*	42.7
Willcross RR 2549N	40.2*	34.6	56.0	51.0*	30.3	42.4
Hornbeck HBK R5588	37.8	31.4	52.8	48.6*	39.7**	42.0
Delta King 5762 RR	34.4	34.2	59.9	45.3	36.4*	42.0
DeltaGrow 5310RR	37.5	35.9	54.4	46.9	31.9	41.3
FFR RT 557	39.0	30.6	53.9	50.7*	32.3	41.3
AgVenture AV6540NRR	35.4	33.5	57.2	50.3*	30.1	41.3
Willcross RR 2520N	38.3	36.7	57.6	47.3*	25.8	41.1
MPride/MPV 537NRR	38.9	32.4	53.0	48.4*	32.8	41.1
MPride/MPV 519NRR	39.5*	32.0	59.0	43.1	31.2	41.0
Excel 8510RR	34.5	37.8*	62.8	42.2	26.8	40.8
Gateway 5R515	41.2*	34.8	53.4	44.9	28.3	40.5
DeltaGrow 5950RR	29.9	31.8	60.0	45.8	34.0*	40.3
Hornbeck HBK R5920	33.9	33.8	55.9	43.4	32.4	39.9
Garst AP 529RR/N	29.8	30.4	64.4	38.4	33.0*	39.2
Mersch. Rushmore III RR	33.7	36.3	57.8	39.8	28.1	39.1
Asgrow AG5902	29.8	34.9	59.1	38.3	33.4*	39.1
Deltapine DP 5806 RR	29.8	33.9	48.7	48.0*	32.9*	38.7
Croplan Gen. 556RR	39.9*	30.7	49.2	46.6	25.8	38.4
Garst AP 569RR/N	32.6	34.0	51.5	45.5	27.2	38.2
FFR RT 5485	37.1	27.5	53.5	42.9	25.9	37.4
Pioneer variety 95B95	14.4	32.1	52.1	49.9*	35.4*	36.8
Croplan Gen. 5770RR	28.5	30.6	47.7	37.4	20.0	32.8
GROUP 5 AVERAGE	37.3	35.3	60.1	47.1	32.3	42.4
L.S.D. AT .10	7.3	5.9	5.5	8.4	6.8	3.3
C.V.%	14.0	12.1	6.6	13.0	15.5	10.3
TRIAL AVERAGE	39.1	40.1	63.7	44.6	37.4	45.0

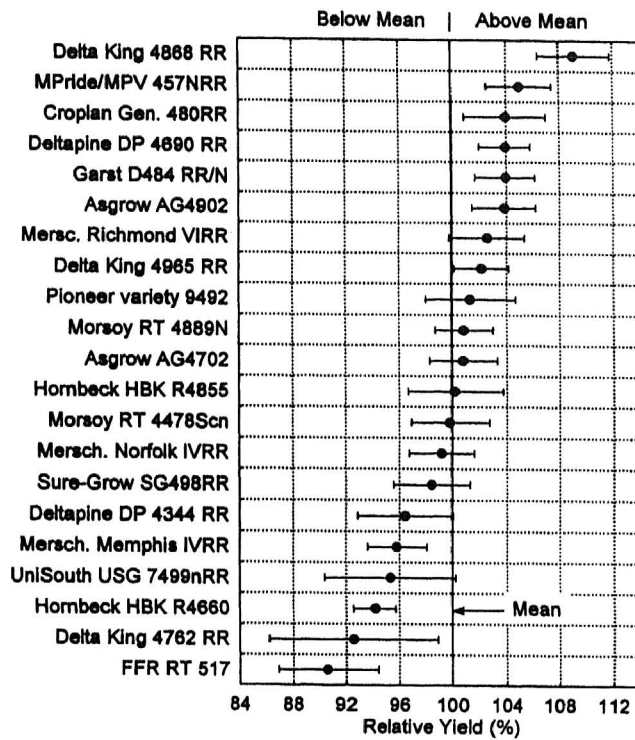
Experimental variety.

** Highest yielding variety in the maturity group.

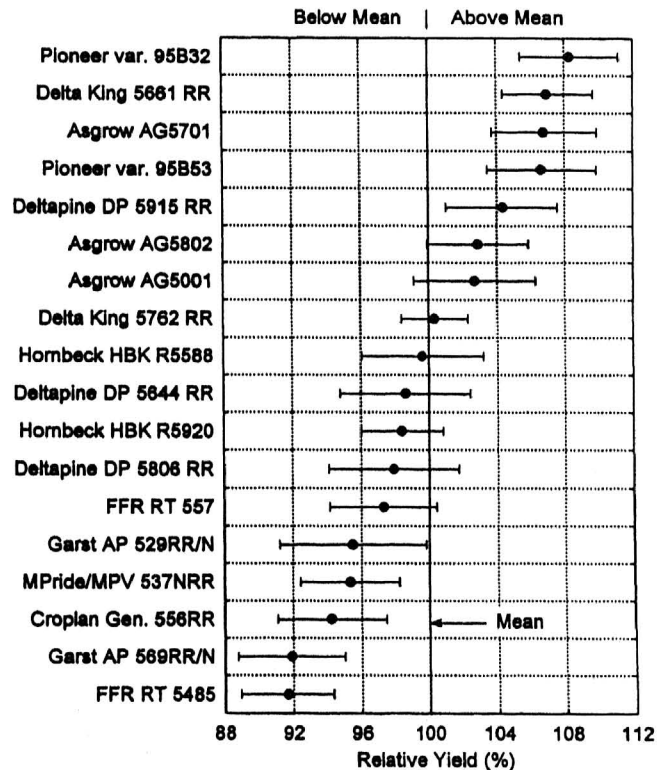
* Yield not significantly less than the highest yielding variety in the maturity group.

Figure 12. Graphic Summary of Two-year (99/2000) Results of Roundup Ready Soybean Varieties at Five Southeast Missouri Locations.

MG IV



MG V



The "dot" shows average relative yield percentage. The "bar" about each "dot" gives the range in which relative yield percentage will be expected 80% of the time.

TABLE 70. Continued.

Brand	Variety Brand Blend	Exp. Variety	Maturity Group	Color				Phytophthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	Screening Race3	Reaction Race4
Delta King XTJ145RR®	Br	Yes	5	W	Tn	Tw	Br	T	R	MR	MR	MS	
Delta King XTJ165RR®	Br	Yes	5	W	Tn	G	Bf	T	R	MR	MR	MS	
DeltaGrow 4740	Br	No	4	P/W	Tn	Tw	Bl	S	R	R	R	MR	
DeltaGrow 4850RR®	Br	No	4	W	Tn	Tw	Bl	-	R	R	R	MR	
DeltaGrow 5310RR®	Br	No	5	-	-	-	-	-	R	R	MR	MS	
DeltaGrow 5630RR®	Br	No	5	W	Tn	G	Bf	T	R	R	MR	MS	
DeltaGrow 5950RR®	Br	No	5	P	Tn	G	Ibl	R	R	MR	MR	MS	
Deltapine DP 3478	V	No	4	P	Tw	Tw	-	F	T	S	S	S	
Deltapine DP 4344 RR®	V	No	4	W	Tw	Tw	Bl	T	S	-	S	-	
Deltapine DP 4690 RR®	V	No	4	P	Tw	Tw	Bl	T	R	-	S	MS	
Deltapine DP 4748S	V	No	4	W	Tw	Tw	Bl	-	-	-	-	-	
Deltapine DP 4909	V	No	4	W	Tw	Tw	Bl	T	R	-	MR	MR	
Deltapine DP 5644 RR®	V	No	5	W	Tw	Tw	Bl	T	R	S	S	S	
Deltapine DP 5806 RR®	V	No	5	W	G	G	Bf	T	R	S	MR	S	
Deltapine DP 5915 RR®	V	No	5	W	Tw	Tw	Bl	T	R	S	MR	MS	
Dixie 478	Br	No	4	P	G	G	Ibl	S	S	-	MS	-	
Dixie 4803RR®	Br	No	4	-	-	-	-	-	-	-	MS	S	
Dyna-Gro 3369N	Br	No	3	P	Br	G	Ibl	R	R	MR	MR	MS	
Dyna-Gro 3370RR®	Br	No	3	P	Br	Tw	Bl	R	S	-	-	-	
Dyna-Gro 3388RR®	Br	No	3	P	Br	Tw	Bl	R	S	-	-	-	
Dyna-Gro 3394RR®	Br	No	3	W	Br	Tw	Br	R	S	S	-	-	
Dyna-Gro 3395	Br	No	3	P	Br	Tw	Bl	R	R	-	-	-	
Dyna-Gro 3399RR®	Br	No	4	P	Br	Tw	Br	R	S	-	-	-	
Dyna-Gro 3438N	Br	No	4	W	Tn	Tw	Bl	R	R	-	R	MR	
Dyna-Gro 3442NRR®	Br	No	4	P	Tn	Tw	Bl	T	R	MS	MS	MS	
Dyna-Gro 3468NRR®	Br	No	4	W	Tn	Tw	Bl	T	R	R	R	MR	
Dyna-Gro 3482NRR®	V	No	4	W	Tn	Tw	Bl	S	R	R	R	MR	
Dyna-Gro 3484NRR®	Br	No	4	W	Tn	Tw	Bl	T	R	R	R	MR	
Dyna-Gro 3513NRR®	Br	No	5	P	Br	Tw	Bl	T	R	MS	MS	S	
Dyna-Gro 3521NRR®	V	Yes	5	P	Br	G	Bf	T	R	R	MR	MR	
Dyna-Gro 3562NRR®	V	Yes	5	W	Tn	G	Bf	T	R	R	MR	MS	
Dyna-Gro DG 3386NSTS ⁺	Br	No	3	W	Tn	Tw	Bl	T	R	R	R	MR	
Dyna-Gro DG-3402 STS ⁺	Br	No	4	P	Tn	Tw	Bl	T	R	-	-	-	
Dyna-Gro UAPX 336	Br	No	4	W	Tn	Tw	Bl	T	S	-	MS	MS	
Dyna-Gro UAPX 337	Br	No	4	W	Br	G	Bf	T	S	-	-	-	
Excel 6431N	Br	No	4	W	Br	G	Bf	S	R	MR	MR	MR	
Excel 7311ST	Br	No	3	P	Tn	Tw	Bl	S	S	-	-	-	
Excel 8340RR®	Br	No	3	M	Tn	G	M	S	S	-	-	-	
Excel 8341NRR®	Br	No	3	P	Tn	Tw	Bl	S	R	R	R	MR	
Excel 8381NRR®	Br	No	3	W	Br	Tw	Bl	S	R	R	R	MR	
Excel 8382NRR®	Br	No	3	W	Br	Tw	Bl	S	R	R	R	MR	
Excel 8395RR®	Br	No	3	M	Tn	G	Ibl	S	S	-	-	-	
Excel 8410NRR®	Br	No	4	W	Br	Tw	Bl	S	R	-	MS	MS	
Excel 8510RR®	Br	No	5	P	Br	G	Ibl	S	S	-	-	-	
FFR 514	V	No	4	P	Tn	Br	Bl	T	R	R	R	MR	
FFR 597	V	No	5	W	Tn	G	Bf	T	R	S	S	S	
FFR HT 4985	V	No	4	P	Tn	Tw	Bl	T	R	R	R	MR	
FFR RT 517®	V	No	4	P	Tn	G	Bf	T	R	MR	MR	MS	
FFR RT 5485®	V	No	5	P	Tn	Tw	Br	T	R	S	MS	S	
FFR RT 557®	V	No	5	P	Tn	G	Ibl	T	R	MR	MR	MR	
FFR X-4900RR®	V	Yes	4	-	-	-	-	T	R	MR	R	MR	
Fontanelle 415RR®	V	No	4	W	Br	Tw	Bl	S	S	-	-	-	
Fontanelle 9885	V	No	3	W	Br	Tw	Bl	S	S	-	-	-	
Fontanelle 9891N/RR®	V	No	3	P	Br	Tw	Bl	S	R	S	MR	S	
Fontanelle 9973 RR®	V	No	3	P	Br	Tw	Bl	S	R	-	-	-	
Fontanelle X10425N	V	Yes	4	W	Tn	Tw	Bl	S	R	MS	MR	MS	
Garst AP 4501RR/N®	V	No	4	P	Tw	Tw	Bl	R	R	-	-	-	
Garst AP 529RR/N®	V	No	5	P	Tw	Tw	Bl	T	S	S	S	MS	
Garst AP 569RR/N®	V	No	5	P	Tw	Tw	Ibl	R	S	MR	MR	MS	
Garst D370RR®	V	No	3	P	Tw	Tw	M	R	S	-	-	-	
Garst D398	Br	No	3	W	Tn	Tw	Bl	T	S	-	-	-	
Garst D445N	Br	No	4	P	G	G	Ibl	T	R	MR	MR	S	
Garst D484 RR/N®	Br	No	4	W	Tw	Tw	Bl	T	R	R	R	R	
Gateway 427	Br	No	4	W	Br	Tn	Bl	R	R	R	R	MR	
Gateway 471	Br	No	4	M	Br	Tn	Bl	-	R	MR	MR	MS	
Gateway 4R453®	Br	No	4	W	Br	Tw	Bl	R	R	MS	S	-	
Gateway 4R472®	Br	No	4	W	Br	Tn	Bl	T	S	-	-	-	
Gateway 5R515®	Br	No	5	P	Tn	G	Bf	T	R	MR	MR	MS	
Golden Harvest 1383	Br	No	3	W	Br	Tw	Bl	R	S	-	-	-	
Golden Harvest 1500	Br	No	5	W	Tn	Tw	Bl	S	R	MR	MR	MS	
Golden Harvest 3848RR®	Br	No	3	P	Br	Tw	Bl	S	R	-	-	-	
Golden Harvest 4122RR®	Br	No	4	P	Br	Tw	Br	S	S	-	-	-	

TABLE 70. Continued.

Brand	Variety Brand Blend	Exp. Var- iety	Mat- urity Group	Color				Phyto- phthora		Cyst Company Rating	Nematode Reaction UMC Screening		
				Flower	Pod	Pubes.	Hilum	Root	Rot		Race1	Race3	Race4
Golden Harvest H-4249	Br	No	4	P	Br	G	Ibl	S	R	MR	MR	MS	
Golden Harvest X04755	Br	Yes	4	P	Br	Tw	Bl	S	S	-	-	-	
Golden Harvest X04946RR®	Br	Yes	4	P	Br	Tw	Bl	S	R	R	R	MR	
Golden Harvest X94728RR®	Br	Yes	4	W	Tn	Tw	Br	S	R	MR	MR	MS	
Hartz H4884RR®	V	No	4	W	-	Tn	Bl	S	R	MR	R	MR	
Hartz H5231RR®	V	No	5	W	-	G	Bf	S	R	MS	MR	MS	
Hornbeck HBK 4891	Br	No	4	P	Br	Tw	Bl	T	S	-	-	-	
Hornbeck HBK 5990	V	No	5	P	Tn	Tw	Bl	T	T	MR	MS	S	
Hornbeck HBK 5991	V	No	5	W	Tn	Tw	Bl	T	R	R	MR	MS	
Hornbeck HBK R4660®	Br	No	4	W	Tn	Tw	Bl	T	R	R	MR	MR	
Hornbeck HBK R4855®	Br	No	4	P	Br	Tw	Bl	T	S	-	-	-	
Hornbeck HBK R4920®	Br	No	4	P	Br	Tw	Bl	T	S	-	-	-	
Hornbeck HBK R5588®	V	No	5	P	Tn	G	Ibl	R	R	R	MR	MS	
Hornbeck HBK R5920®	Br	No	5	P	Tn	G	Ibl	T	R	R	MR	MR	
Hornbeck HBK XR575-99®	Br	Yes	5	P	Tn	G	Bf	T	-	-	-	-	
Kruger K-300RR/SCN®	V	No	3	-	-	-	-	-	R	MR	R	MS	
Kruger K-303+RR/SCN®	V	No	3	-	-	-	-	-	R	R	MR	MR	
Kruger K-303RR/SCN®	V	No	3	-	-	-	-	-	R	MR	MR	MS	
Kruger K-320 RR/SCN®	V	No	3	-	-	-	-	-	R	R	MR	MR	
Kruger K-323 RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-323+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-3231	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-3303	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-330RR/SCN®	V	No	3	-	-	-	-	-	R	R	MR	MS	
Kruger K-333+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-3333+	V	No	3	P	-	G	Ibl	R	-	-	-	-	
Kruger K-3333+SCN	V	No	3	-	-	-	-	-	R	MS	S	S	
Kruger K-3424+	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-344RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-349ARR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-349BRR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-349RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-351SSCN	V	No	3	-	-	-	-	-	R	R	MR	MR	
Kruger K-353+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-353ARR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-353RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-3555	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-355SSCN	V	No	3	-	-	-	-	-	R	MR	MR	MS	
Kruger K-355RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-359RR/SCN®	V	No	3	-	-	-	-	-	R	MR	MR	MS	
Kruger K-3636SCN	V	No	3	-	-	-	-	-	R	R	MR	MS	
Kruger K-3663SCN	V	No	3	-	-	-	-	-	R	R	MR	MS	
Kruger K-369 RR/SCN®	V	No	3	-	-	-	-	-	R	R	MR	MS	
Kruger K-369 RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-369+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-3717+	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-373+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-377+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-377SCN	V	No	3	-	-	-	-	-	R	R	MR	MR	
Kruger K-383+RR/SCN®	V	No	3	-	-	-	-	-	R	MS	S	S	
Kruger K-383+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-383ARR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-388+RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-3888 SCN/STS+	V	No	3	-	-	-	-	-	R	R	R	MR	
Kruger K-389RR/SCN®	V	No	3	-	-	-	-	-	R	R	MR	MS	
Kruger K-3913SCN	V	No	3	-	-	-	-	-	R	R	MR	MS	
Kruger K-3939+	V	No	3	W	-	Tn	Bl	R	-	-	-	-	
Kruger K-393RR®	V	No	3	-	-	-	-	-	-	-	-	-	
Kruger K-399 RR®	V	No	3	P	-	Tn	Bl	T	R	S	S	S	
Kruger K-399+RR®	V	No	4	-	-	-	-	R	-	R	MR	MR	
Kruger K-4214SCN	V	No	4	-	-	-	-	-	R	-	-	-	
KSC-55	V	No	4	W	-	-	Bf	-	S	-	-	-	
Lewis 3592 RR®	Br	No	3	W	Tn	G	Ibl	T	R	R	MS	MS	
Lewis 3717 RR®	Br	No	3	M	Tn	G	Ibl	T	S	-	-	-	
Lewis 372	Br	No	3	P	Br	G	Ibl	R	-	MR	MR	MS	
Lewis 375	Br	No	3	W	Tn	G	Ibl	T	-	-	-	-	
Lewis 3876 RR®	Br	No	3	P	Br	Gr	Ibl	R	R	MR	MR	MS	
Lewis 3999 RR®	Br	No	3	P	Br	Tw	Br	R	S	-	-	-	
Lewis 4029 RR®	Br	No	4	P	Tn	Tw	Bl	T	R	MR	R	MR	
Lewis 414	Br	No	4	W	Tn	Tw	Bl	T	R	MR	MS	MS	
Lewis 4228 RR®	Br	No	4	W	Br	M	-	T	R	S	MS	S	
Lewis 4392 RR®	Br	No	4	P	Tn	Tw	Bl	R	R	-	-	-	
LG Seeds LGC 3656NRR®	V	No	3	P	Tn	Tw	Bl	T	R	MR	MR	MR	
LG Seeds LGC 3663N	V	No	3	W	Tn	G	Bf	R	R	MR	R	S	
LG Seeds LGC 4344N	V	No	4	W	Br	Tw	Bl	R	R	R	R	MS	
LG Seeds LGC 4350NRR®	V	No	4	W	Br	Tw	Bl	T	R	S	MS	S	

TABLE 70. Continued.

Brand	Variety Brand Blend	Exp. Variety	Mat-urity Group	Color				Phyto-phthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	UMC Race3	Reaction Screening Race4
Mersch.Cleveland VIRR®	V	No	4	P	Tn	Tw	Bl	S	T	R	R	MR	MS
Mersch.Denver RRSTS®	V	No	4	P	Br	Tw	Bl	S	T	MR	MR		
Mersch.Eisenhower VIRR®	V	No	3	P	Br	Tw	Bl	S	T				
Mersch.Fillmore VRR®	V	No	3	W	Tn	Tw	Bl	S	T				
Mersch.Houston VRR®	V	No	4	W	Br	Tw	Bl	S	T	S	S	S	S
Mersch.McKinley VRR®	V	No	3	P	Tn	Tw	M	S	T	MR	MR	MS	MS
Mersch.Memphis IVRR®	V	No	4	W	Tn	Tw	Bl	S	T	R	R	MR	MR
Mersch.Monroe IIIRR®	V	No	3	P	Br	Tw	Br	S	R				
Mersch.Norfolk IVRR®	V	No	4	W	Tn	Tw	Bl	S	R	MR	MR	MS	MS
Mersch.Richmond VIRR®	V	No	4	W	Tn	Tw	Bl	S	R	R	R	MR	MR
Mersch.Rushmore IIIRR®	V	No	5	P	Br	G	Bf	S	T	MS	MS		S
Mersch.WashingtnVIIIRR®	V	No	3	P	Br	Tw	Br	S	T				
Midland 8394NRR®	Br	No	3	W	Br	Tw	Bl	T	R	R	R	R	MR
Midland 8421	Br	No	4	W	Tn	Tw	Bl	T	R	R	R	R	MR
Midland 8475	Br	No	4	W	Tn	Tw	Bl	T	R	R	R	R	MR
Midland 9A380RR®	Br	No	3	P	Tn	Tw	Bl	T	S				
Midland 9A420N	Br	No	4	P	Br	G	lbl	T	R	R	R	MR	MS
Midland 9A441NRR®	Br	No	4	P	Tn	Tw	Bl	T	R	MR	MR	MR	MS
Midland 9A480NRR®	Br	No	4	W	Tn	Tw	Bl	T	R	R	R	R	MR
Midland 9B370N	Br	No	3	P	Br	G	lbl	T	R	R	R	R	MS
Midland 9G380RR/STS+®	Br	No	3	P	Tn	G	Bl	T	R				
Midland XA351NRR®	Br	Yes	3	P	Tn	G	lbl	T	R	R	R	MR	MS
Midland XA371NRR®	Br	Yes	3	P	Br	G	lbl	T	R	MR	MR		MS
Midwest Seed G 3060R®	Br	No	3	M	Tn	Tw	Bl	R	S				
Midwest Seed G 3245R®	Br	No	3	W	Tn	Tw	Br	R	S				
Midwest Seed G 3625 RN®	Br	No	3	P	Br	G	lbl	T	R	MR	MS		
Midwest Seed G 3925RN®	Br	No	3	P	Br	Tw	Bl	T	R	R	R		MR
Morsoy 3386	Br	No	3	P	Br	G	Bf	S	S				
Morsoy 3570	Br	No	3	P	Br	Tw	Br	S	S				
Morsoy 3709N	Br	No	3	P	Br	G	lbl	S	R	R	R	R	MS
Morsoy 4067 SCN	Br	No	4	W	-	G	Bf	R	R	MR	MR	MR	MS
Morsoy 4426 SCN	Br	No	4	W	Tn	Br	Bl	S	R	MR	MR	MR	MS
Morsoy 4477 SCN	Br	No	4	W	Tn	Tw	Bl	S	R	MR	MR	MR	MS
Morsoy 4580	Br	No	4	W	Tn	Tw	Bl	S	R				
Morsoy 4719N	Br	No	4	M	Br	Tw	Bl	S	R	R	MR	MR	MS
Morsoy 4759N	Br	No	4	P	Tn	Tw	Bl	S	R	R	MR	MR	MS
Morsoy 5080	Br	No	5	W	-	Tw	Bl	S	R				
Morsoy 5108N	Br	No	5	P	-	G	lbl	S	R	R	MR	MR	MS
Morsoy 5389N	Br	No	5	M	Tn	Tw	Bl	S	R	R	R	R	S
Morsoy RT 3549®	Br	No	3	P	Br	G	lbl	S	R				
Morsoy RT 3739®	Br	No	3	P	Tn	Tw	Bl	R	R				
Morsoy RT 3859N®	Br	No	3	W	Br	Tw	Bl	R	R	R	R	R	MR
Morsoy RT 3967Scn®	Br	No	3	W	Br	Tw	Bl	R	R	R	R	MR	MR
Morsoy RT 4110N®	Br	No	4	P	Tn	Tw	Bl	R	R	S	S	S	S
Morsoy RT 4478Scn®	Br	No	4	W	-	Tw	Bl	S	R	MR	R	MR	MS
Morsoy RT 4499N®	Br	No	4	P	Tn	Tw	Bl	S	R	MR	MR	MR	S
Morsoy RT 4729Scn®	Br	No	4	W	Tn	Br	lbl	S	R	MS	MR	MR	MS
Morsoy RT 4809®	Br	No	4	W	Br	Tw	Bl	S	R				
Morsoy RT 4889N®	Br	No	4	W	Tn	Tw	Bl	S	R	R	R	MR	MR
Morsoy RT 5050®	Br	No	5	P	Br	Tw	Bl	S	R	R	R	MR	MR
Morsoy RT 5220N®	Br	No	5	P	Tn	G	Bf	R	R	R	MR	MR	MR
MPride/MPV 350NRR®	V	No	3	P	Tn	G	lbl	R	T	MR	MR	MR	MS
MPride/MPV 398NRR®	V	No	3	W	Tn	Tw	Bl	R	R	R	R	R	MR
MPride/MPV 430NSTS+	V	No	4	W	Tn	Tw	Bl	-	S	R	MR	MR	MR
MPride/MPV 437NRR®	V	No	4	W	Tn	Tw	Bl	S	R	MR	R	MR	MR
MPride/MPV 440STS+	V	No	4	W	Tn	Tw	Bl	-	S				
MPride/MPV 457NRR®	V	No	4	W	Br	Tw	Bl	R	T	MS	MS	MR	MR
MPride/MPV 519NRR®	V	No	5	P	Br	Tw	lbl	T	T	S	S	S	S
MPride/MPV 537NRR®	V	No	5	P	Tn	G	Bf	T	R	R	MR	MR	MS
Mycogen 5420N	V	No	4	P	Br	G	lbl	T	R	MR	MR		MS
NC + 3A77RR®	Br	No	3	P	Tn	Tw	Bl	R	S				
NC + 3A87	Br	No	3	P	Br	Tw	Bl	R	R				
NC + 3A99RR®	Br	No	3	W	Br	Tw	Br	R	R				
NC + 4A29RR®	Br	No	4	W	Tn	Tw	Bl	R	S				
NC + 4N26	Br	No	4	P	Br	G	lbl	T	S	MR	MS	MS	MS
NC + 5A45RR®	Br	No	5	P	Tw	G	lbl	S	R	MR	MR		MS
NK brand S30-P6®	V	No	3	-	-	-	-	-	-				
NK brand S32-Z3	V	No	3	-	-	-	-	-	-				
NK brand S34-B2®	V	No	3	-	-	-	-	-	-	MS	S	S	S
NK brand S38-T8	V	No	3	-	-	-	-	-	-	R	MR	MR	MS
NK brand S42-H1	V	No	4	-	-	-	-	-	-				
NK brand S42-M1®	V	No	4	W	Tn	Tw	Bl	S	R	MR	MR	MR	MS
NK brand S46-G2®	V	No	4	-	-	-	-	-	-	R	R	R	MR
NK brand S46-W8®	V	No	4	P	Br	Tw	Bl	R	R	R	R	R	MR
NK brand X 053R®	V	Yes	5	-	-	-	-	-	R	R	R	MR	MR

TABLE 70. Continued.

Brand	Variety Brand Blend	Exp. Var- iety	Mat- urity Group	Color				Phyto- phthora Root	Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum		Company Rating	UMC Race1	Screening Race3	Reaction Race4
NK brand X039®	V	Yes	3	-	-	-	-	-	R	R	MR	MR
Pioneer variety 93B53®	V	No	3	P	Br	Tw	Bl	T	S	-	MR	-
Pioneer variety 93B66	V	No	3	W	Br	-	Bl	T	R	-	MR	MS
Pioneer variety 93B82	V	No	3	P	Br	Tw	Bl	T	-	-	-	-
Pioneer variety 93B84	V	No	3	P	Tn	Tw	Bl	T	-	-	-	-
Pioneer variety 9482	V	No	4	W	Tn	Tw	Bl	-	-	-	-	-
Pioneer variety 9492®	V	No	4	W	Tn	Tw	Bl	T	R	MR	MR	MS
Pioneer variety 94B01®	V	No	4	W	Tn	Tw	Bl	-	R	R	R	MR
Pioneer variety 94B53	V	No	4	W	Tn	Tw	Bl	T	R	R	MR	S
Pioneer variety 9594	V	No	5	W	Tn	G	Bf	T	-	-	-	-
Pioneer variety 95B32®	V	No	5	W	Tn	G	Bf	T	R	MR	MR	MR
Pioneer variety 95B33	V	No	5	P	Tn	G	Bf	T	R	MR	MR	MR
Pioneer variety 95B53®	V	No	5	W	Tn	Tw	Bl	T	R	R	MR	MR
Pioneer variety 95B95®	V	No	5	P	Tn	G	Bl	T	-	-	-	-
Prairie Br. PB-3404RR®	Br	Yes	3	P	Tn	Tw	Br	R	S	-	-	-
Prairie Br. PB-3410RR®	Br	No	3	W	Tn	Tw	Bl	R	R	S	-	-
Prairie Br. PB-3505RR®	Br	No	3	W	Tn	Tw	Bl	R	R	S	-	-
Prairie Br. PB-3550RR®	Br	No	3	P	Tn	G	Br	R	R	S	-	-
Prairie Br. PB-3592RR®	Br	Yes	3	W	Tn	Tw	Bl	R	R	S	-	-
Prairie Br. PB-3712NRR®	Br	No	3	P	Br	G	Bl	T	R	R	MR	MR
Prairie Br. PB-3720N	Br	No	3	P	Br	G	Bl	R	R	R	R	MS
Prairie Br. PB-3770RR®	Br	No	3	P	Br	Tw	Bl	R	R	S	-	-
Prairie Br. PB-3927RR®	Br	Yes	3	M	Tn	G	Bl	T	S	S	-	-
Prairie Br. PB-4120NRR®	Br	No	4	P	Tn	Tw	Bl	S	R	R	MR	MR
Reeds Brand 330 STS ⁺	Br	No	3	P	Br	Br	Bl	T	S	-	-	-
Reeds Brand 355 SCN	Br	No	3	W	Br	G	Br	R	R	R	MR	MS
Reeds Brand 390	Br	No	3	P	Tn	Tw	Br	T	S	S	-	-
Reeds Brand 444	Br	No	4	P	Br	Tw	Br	S	S	-	-	-
Reeds Brand 445	Br	No	4	P	Br	Tw	Bl	T	S	-	-	-
Renze 3611R®	Br	No	3	P	Br	Tw	Br	R	S	-	-	-
Renze 3651cn	Br	No	3	P	Br	G	Bl	R	R	R	MR	MR
Renze Ex37-07Rcn®	Br	Yes	3	P	Br	G	Bl	R	R	S	MR	MR
Renze Ex41-03Rcn®	Br	Yes	4	W	Br	Tw	Bl	S	R	R	MS	S
Stine 3522	Br	No	3	-	-	-	-	-	R	R	MR	MR
Stine 3522-4®	Br	No	3	-	Tn	Tw	M	S	R	R	MR	MR
Stine 3763-4®	Br	No	3	P	Br	Tw	Br	R	R	S	-	-
Stine 3800-4®	Br	No	3	P	Br	Tw	Bl	R	R	S	-	-
Stine 3870-0	Br	No	3	W	Br	Tw	Bl	R	R	S	-	-
Stine 4212-4®	Br	No	4	-	Tn	Tw	Bl	S	R	R	MR	MR
Stine 4302-2	Br	No	4	M	M	Tw	Bl	S	R	R	MS	MS
Stine 4402-4®	Br	No	4	-	-	-	-	S	R	R	MR	MR
Stine 4702-2	Br	No	4	M	Br	Tw	Bl	S	R	R	MS	MS
Stine 4790	Br	No	4	P	Br	Tw	Br	S	R	R	MR	MR
Stine 4802-4®	Br	No	4	W	-	Tw	Bl	S	R	R	R	MR
Sure-Grow SG498RR®	V	No	4	W	Tw	Tw	Bl	T	S	-	-	-
Taylor 415RR®	Br	No	4	W	-	-	-	T	S	-	-	-
Taylor Exp.388R®	Br	Yes	3	P	-	-	-	R	S	-	-	-
Triumph-TR4810RR®	Br	No	4	W	Tn	Tw	Bl	T	R	R	MR	MR
U.S. Seeds US E3401RR®	Br	Yes	3	W	Tn	Tw	Bl	R	S	-	MR	-
U.S. Seeds US E3701RR®	Br	Yes	3	P	Br	G	Bl	R	R	R	MR	MR
U.S. Seeds US E371	Br	No	3	P	Br	G	Bl	R	R	R	R	MS
U.S. Seeds US E421	Br	Yes	4	W	Tn	Tw	Bl	T	R	R	MS	MR
U.S. Seeds US E471	Br	Yes	4	M	Br	Tw	Bl	T	R	R	R	MR
U.S. Seeds US S350	Br	No	3	W	Tn	Tw	Bl	R	S	-	-	-
U.S. Seeds US S4200RR®	Br	No	4	P	Br	Tw	Bl	T	R	R	MR	MR
U.S. Seeds US S4409RR®	Br	No	4	P	Tn	Tw	Bl	T	R	R	MS	MR
U.S. Seeds US S4809RR®	Br	No	4	W	Tn	Tw	Bl	T	R	R	R	MR
UniSouth USG 7489RR®	Br	No	4	-	-	-	-	-	R	R	R	R
UniSouth USG 7499nRR®	Br	No	4	-	-	-	-	-	R	R	R	R
UniSouth USG 510NRR®	Br	Yes	5	-	-	-	-	-	R	R	R	MR
UniSouth USG 540NRR®	Br	Yes	5	-	-	-	-	-	R	R	R	MR
Vigoro V362SCN	Br	No	3	W	Tn	Tw	Bl	R	R	R	MR	MR
Vigoro V391NRR®	Br	No	3	P	Br	Tw	Bl	S	R	R	MR	MR
Vigoro V410SCN	Br	No	4	P	Br	Tw	Bl	T	R	R	R	MR
Willcross RR 2338®	Br	No	3	-	-	-	-	-	-	-	-	-
Willcross RR 2351®	Br	No	3	P	Tn	G	Br	-	-	-	-	-
Willcross RR 2370®	Br	No	3	P	Br	Tw	Bl	-	S	S	-	-
Willcross RR 2390®	Br	No	3	P	Br	Tw	Bl	-	S	S	-	-
Willcross RR 2420N®	Br	No	4	W	Tn	Tw	Bl	-	R	R	R	MR
Willcross RR 2430N®	Br	No	4	W	Tn	Tw	Bl	-	R	R	R	MR

TABLE 70. 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
Willcross RR 2449N@	Br	No	4	P	Tn	Tw	Bl	-	R	MS	MR	MS
Willcross RR 2469N@	Br	No	4	W	Br	Tn	Bl	-	R	MS	S	MR
Willcross RR 2480N@	Br	No	4	W	Tn	Tw	Bl	-	R	R	R	MR
Willcross RR 2490N@	Br	No	4	P	Tn	Tw	Bl	-	R	R	MR	MR
Willcross RR 2520N@	Br	No	5	P	-	Tw	-	-	R	MS	S	S
Willcross RR 2549N@	Br	No	5	P	Tn	G	Bf	-	R	R	-	MS
Willcross RR 2580N@	Br	No	5	W	Br	G	Bf	-	R	MR	R	MS

PUBLIC VARIETIES

Anand	V	No	5	P	Tn	Tw	Bl	S	R	MR	MR	R
Caviness	V	No	5	W	Tw	G	Bf	S	R	MR	MS	MS
Delsoy 4710	V	No	4	P	Tn	Tw	Bl	S	R	R	R	MR
Delsoy 5500	V	No	5	W	Tn	Tw	Br	S	R	R	R	MS
Delsoy 5710	V	No	5	W	Tn	Tw	Bl	S	R	R	R	R
Hutcheson	V	No	5	W	Tn	G	Bf	T	S	MS	S	S
Manokin	V	No	4	W	Tn	Tw	Bl	S	R	R	R	S
Maverick	V	No	3	P	Br	G	Bf	R	R	MR	MR	MR
Mustang	V	No	4	W	Tn	G	Bf	S	R	R	R	MR
S94-1867	V	Yes	5	-	-	-	-	-	R	R	R	R
S94-4337	V	Yes	3	-	-	-	-	-	R	R	R	MR
S96-2641	V	Yes	5	-	-	-	-	-	R	R	R	R
S96-2692	V	Yes	5	-	-	-	-	-	R	-	MR	R
S96-3418	V	Yes	5	-	-	-	-	-	R	R	R	R
S97-1688	V	Yes	5	-	-	-	-	-	R	R	R	R
Saline	V	No	3	W	Tn	Gr	Bf	S	R	MR	R	MS
Soyola	V	No	5	W	Br	Gr	-	-	S	S	S	S
Williams 82	V	No	3	W	Tn	Tw	Bl	R	S	S	S	S

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

@ Roundup Ready based on information provided by companies and an independent field screening.
 + STS based on information provided by companies.

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 71. SOYBEAN SEED SOURCES FOR 2000.

BRAND	FIRM and ADDRESS	PHONE #
Advanced Gen.	Advanced Genetics, Box 414, Beloit, KS 67420	(785-738-5776)
AgriPro	Garst Seed Co., 2369 - 330th St., PO Box 500, Slater, IN 50244	(515-831-6630)
AgVenture	AgVenture Mid-South, Mayberry Seed Co., 6947 County Rd. 751 Essex, MO 63846	(573-283-5311)
Asgrow	Monsanto, 3100 Sycamore Dr., Dekalb, IL 60115	(815-758-9323)
Cargill	Cargill Hybrid Seeds, 15407 McGinty Road W., Wayzata, MN 55391	(612-742-6731)
Croplan Gen.	Wilfarm L.L.C., 6072 Primacy Parkway #126, Memphis, TN 38119	(901-685-7878)
Croplan Gen.	Land O'Lakes Seed/Cropland Gen., 6555 Quince Rd., Suite 202 Memphis, TN 38119	(901-758-3439)
Crow 's	Crow's Hybrid Corn Co., Box 306, 1193N 2300E, Milford, IL 60953	(800-331-7210)
Dekalb	Monsanto Seed Co., 3100 Sycamore Road, DeKalb, IL 60115	(815-758-3461)
Delta Grow	Delta Grow Seed Co., P.O. Box 219, 220 NW 2nd, England, AR 72046	(501-842-2572)
Delta King	Delta King Seed Co., 522 Poplar Ave., Box 970, McCrory, AR 72101	(870-731-5484)
Deltapine	Delta & Pine Land Co., 1301 E. 50th St., Lubbock, TX 79404	(806-740-1600)
Dixie	Cache River Valley Seed LLC., PO Box 10, Cash, AR 72421	(870-477-5427)
Dyna-Gro	UAP-MidSouth, 57 Germantown Crt., Suite 200, Cordova, TN 38018	(901-755-7566)
Dyna-Gro	UAP-Pueblo, Box 1279, 2502 John St., Garden City, KS 67846	(316-275-6127)
Excel Brand	Excel Brand, 110 E. State St., Camp Point, IL 62320	(800-593-7708)
FFR	FFR Seed, 969 Cloverleaf Dr., Southaven, MS 38671	(800-366-2667)
Fontanelle	Fontanelle Hybrids, 10981 8th St., Fontanelle, NE 68044	(402-721-1410)
Garst	Garst Seed Co., 2369 330th St., Box 500, Slater, IA 50244	(515-685-5000)
Gateway	Gateway Seed Co., 5517 Van Buren Rd., Nashville, IL 62263	(618-327-8000)
Golden Harvest	Golden Harvest Seeds Inc., 100 J.C. Robinson Blvd., PO Box A Waterloo, NE 68069	(800-228-9906)
Golden Harvest	Golden Harvest Seeds, Sommer Bros. Seed Co. PO Box 248, Pekin, IL 61555	(309-346-2127)
Hartz	Monsanto, 3100 Sycamore Dr., Dekalb, IL 60115	(815-758-9323)
Hornbeck	Hornbeck Seed Co. Inc., Box 472, 210 Drier Rd., DeWitt, AR 72042	(870-946-2087)
Kruger	Kruger Seed Co., Hwy 20 E, Box A, Dike, IA 50624	(800-772-2721)
Lewis	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376	(217-964-2131)
LG Seeds	LG Seeds, Mt. Pleasant Service Center, Box 28, Mt. Pleasant, IA 52641	(319-385-2259)
Merschman	Merschman Seed Inc., 103 Ave. D., West Point, IA 52656	(319-837-6111)
Midland	Midland Genetics Group L.L.C., 1906 Kingman Rd., Ottawa, KS 66067	(800-819-7333)
Midwest	Midwest Seed Genetics, Inc., Box 518, Carroll, IA 51401	(800-369-8218)
Morsoy	MFA Inc., 201 Ray Young Dr., Columbia, MO 65201	(573-876-5285)
MPV	Midwest Premium Genetics, 101 NE. Davis Rd., P.O. Box 685 Concordia, MO 64020	(800-622-1150)
Mycogen	Mycogen Seeds, 1340 Corporate Center Curve, Box 21428, St. Paul, MN 55121	(800-380-7282)
Mycogen Atlas	Mycogen Seed Co., 1340 Corporate Center Curve, Eagan, MN 55121-1233	(800-380-7282)
NC+	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504	(402-467-2517)
NK Brand	Novartis Seeds Inc., PO Box 729, Bay, AR 72411	(870-483-7691)
NK Brand	Novartis Seeds Inc., Saxony Dr., Macon, MO 63552	(660-385-5831)
Pioneer variety	Pioneer Hi-Bred Intl. Inc., 2306 Bluff Creek Dr., Suite 300 Columbia, MO 65201	(573-499-0618)
Pioneer variety	Pioneer Hi-Bred Intl. Inc., 6767 Old Madison Pike, #110 Huntsville, AL 35806	(205-971-0760)
Prairie Brand	Samsanguard Seed Farms Inc., Prairie Brand Seed Co., 15 X Ave. Story City, IA 50248	(515-733-2101)
Public Varieties	MSIA, 3211 LeMone Industrial Blvd., Columbia, MO 65201	(573-449-0586)
Public Varieties	AgGenetic of Arkansas, 2817 Rife Circle, Rogers, AR 72758	(501-631-9416)
Public Varieties	University of MO-Delta Research Center, PO Box 160, Portageville, MO 63873	(573-379-5431)
Reeds	Reeds Seeds, Inc., Box 230, Chillicothe, MO 64601	(660-646-4426)
Renze	Renze Hybrids Inc., 27410 Kittyhawk Ave., Carroll, IA 51401	(712-669-3301)
Scoular	The Scoular Co., 9401 Indian Cr. Pkwy, Bldg 40, Suite 850, Overland Park, KS 66210	(913-338-1474)
Stine	Stine Seed Co., 2225 Laredo Trail, Adel, IA 50003	(800-362-2510)
Taylor	Taylor Seed Farms Inc., 2467 Hwy 7, White Cloud, KS 66094	(785-595-3236)
Triumph	Triumph Seed Co. Inc., PO Box 1050, Hwy 62 Bypass, Ralls, TX 79357	(806-253-2584)
U.S. Seeds	United Suppliers Inc., 30473 260th St., P.O. Box 538, Eldora, IA 50627	(515-858-2341)
UniSouth	UniSouth Genetics Inc., 2640-C Nolensville Rd., Nashville, TN 37211	(615-242-3397)
Vigoro	Royster-Clark Inc. 70N. Market St., Mt. Sterling, OH 43143	(740-869-2181)
Willcross	Willcross Seed, P.O. Box 560, Garden City, MO 64747	(816-862-6002)



Missouri Agricultural Experiment Station

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 (573) 882-7216. Reasonable efforts will be made to accommodate your special needs.