

Soybean

2004 Missouri Crop Performance



Wiebold, Mason, Knerr, Hasty, Adams, Belt, Schwab, Smothers

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

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Missouri 2004 Soybean Performance Tests

This report is a contribution of the Department of Agronomy, University of Missouri Agricultural Experiment Station. The work was supported by fees from companies and organizations submitting varieties for evaluation. Soybeans were first included in the University of Missouri's variety testing program in 1973. The number of entries in the program has increased from 51 in 1973 to 376 in 2004. 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 tests 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 test, 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.

The Authors

William J. Wiebold is an Associate Professor of Agronomy and State Extension Specialist; Howard L. Mason is a Senior Research Specialist; Delbert Knerr, Richard W. Hasty, Eddie G. Adams, David M. Schwab, and Scotty L. Smothers are Research Specialists; Travis Belt is a Research Associate in Agronomy; and Bruce Burdick is the Superintendent of the Hundley-Whaley Research Center.

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Experimental Procedures for Soybean Tests

Test Descriptions:

Glyphosate Resistant Soybean Test: This test includes glyphosate resistant varieties and receives a post emergence application of glyphosate.

Non-Glyphosate / Special Traits Soybean Test: This test is a combination of the non-glyphosate soybean test and the special traits soybean test. Examples of soybean lines with special traits include: tofu, natto, food grade, isoflavone, high oil, fatty acid profile, and high protein. Three high yield check varieties were included in these tests for comparison.

Entries: All producers of soybean varieties were eligible to enter the 2004 soybean evaluation tests. Participation was voluntary and the test coordinators exercised no control over which, or how many varieties were entered. To help finance the evaluation program, the participants paid \$100 per location for each variety entered.

Plot Management: All tests were planted and harvested with commercial equipment modified for small plot work. Row spacing for soybean tests in the North, Central and Southwest Regions was 15 inches. Row spacing for soybean tests in the Southeast Region was 30 inches. Seeding rate for the 15 inch row spacing was 151,300 seeds and 174,200 seeds/Acre for the 30 inch row spacing. Fertilizer was applied at each location at the discretion of the farmer or the station manager. Weed control was achieved with Roundup herbicide for the Glyphosate Resistant tests and various other herbicides for the Non-Glyphosate/Special Traits tests and additional hand weeding was done as required. Management details varied from location to location and are specified in the regional crop management summaries.

Data Recorded: Maturity group classification is provided by the entry sponsor. Maturity data is recorded when approximately 75 percent of the pods have turned color. Lodging and height are determined immediately before harvest. A scale of 1 to 5 is used to score lodging. Interpretation of the scale is as follows: 1 = all plants erect, 3 = all plants leaning moderately or 20 to 50% down, 5 = all plants down.

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

All soybean locations were tested for the presence of SCN eggs in the soil prior to planting. Every effort was made to locate the test sites in fields of low to moderate levels of SCN. These numbers are given in the heading information of each table.

Accessibility of Data: The results of the 2004 Crop performance tests are also available online at <http://agebb.missouri.edu/cropperf/vartest> . If you need assistance in accessing the system; call 573-882-4827 for help.

Field Plot Design. Statistical designs used to analyze the field data included randomized lattice with 3 replications and randomized complete block with 4 replications, depending on the size of the test. Individual plots were four rows wide. When row spacing was 15 inch, row length was 25 feet. Row length was 20 feet when row spacing was 30 inches. All four rows of each plot were harvested for the 15 inch row spacing test and only the center two rows of each plot were harvested for the 30 inch row spacing to determine yield.

Locations: On the basis of geographical characteristics, the state was divided into regions. Glyphosate Resistant and Non-Glyphosate Resistant/Special Traits soybean varieties were evaluated at twenty locations in all regions of the state. Test locations are shown on the adjacent map.

North Missouri

1. Steve Cunningham farm, Craig (Holt Co.)
2. Hundley-Whaley Research Center, Albany (Gentry Co.)
3. Beetsma farm, Mooresville (Livingston Co.)
4. Bill Cason farm, Macon (Macon Co.)
5. Roger Tiemann farm, LaGrange (Lewis Co.)

Central Missouri

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

Southwest Missouri

11. Roth farm, Harrisonville (Cass Co.)
12. Darrel Tenholder farm, Adrian (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. John Pounder farm, East Prairie (Mississippi Co.)
18. Tom Jennings farm, Morehouse (Stoddard Co.)
19. Delta Research Center-Loam, Portageville (Pemiscot Co.)
20. Delta Research Center-Clay, Portageville (Pemiscot Co.)



North Region Crop Management Summary

There are five locations in the northern region of Missouri for glyphosate resistant and non-glyphosate resistant / special trait soybean tests. They are located in counties where a significant number of acres of soybean are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary from location to location, but tend to reflect those followed by farmers in the area.

Planting dates ranged from May 11 to June 28 with soil conditions being very good at all locations. Planting of the Macon site was delayed until June 28 by excessive rainfall. This, along with heavy rains after planting, resulted in very poor stands. The Macon location was discarded. The Albany non-glyphosate / special trait test sustained substantial damage from herbicide drift from an adjacent field. That test was discarded as well. Yields at the other north locations were normal or above normal although some disease pressure was present.

Climatological information for the growing season for North Missouri (May 1 – September 30) is summarized below.

Average temperature = 68.7 degrees, 1.9 degrees below normal

Average precipitation = 22.2", 1.6" above normal

Table 1. North Region Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide	
			N	P ₂ O ₅	K ₂ O		Pre	Post
<i>Glyphosate Resistant Soybean Tests</i>								
Craig	05-11	10-09	0	50	50	Min.	Frontier, FirstRate, Authority	Roundup WeatherMax
Albany	05-17	10-06,11	0	50	80	Min.	Frontier, FirstRate, Authority	Roundup WeatherMax
Mooreville	05-12	10-25	0	0	0	Conv.	Frontier, FirstRate, Authority	Roundup WeatherMax
LaGrange	05-17	10-05	0	0	0	Min.	Dual II Magnum, Authority, FirstRate,	
<i>Non-Glyphosate Resistant / Special Traits Soybean Tests</i>								
Craig	05-11	10-09	0	50	50	Min.	Frontier, FirstRate, Authority	None
Mooreville	05-12	10-25	0	0	0	Conv.	Frontier, FirstRate, Authority	None
LaGrange	05-17	10-05	0	0	0	Min.	Dual II Magnum, Authority, FirstRate	Roundup WeatherMax

TABLE 2. **Glyphosate Resistant Soybean Test**
North Region: Craig, MO (Holt County)

Soil Type: Haynie Silt Loam
Soil Test: pH=6.5, OM=2.7%, P=152, K=808

Cyst Nematode Population at Planting: 0 Eggs/250cc of soil
Rainfall: May=5.4, June=3.5, July=7.1, Aug.=3.7, Sept.=0.6 Total=20.3 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 3							
Golden Harvest H-3606RR	None	9-19	40	1	65.4**	--	--
Kruger 373 RR	None	9-24	38	1	65.2*	--	--
Renze R3814RR	None	9-28	37	1	64.8*	55.4*	60.1
LG Seeds C3999NRR	None	9-22	37	1	63.4*	--	--
Garst 3624RR/N	None	9-19	37	1	63.4*	--	--
Croplan Genetics RC3732	None	9-24	36	1	63.4*	--	--
DEKALB DKB34-51	None	9-20	40	1	63.0*	--	--
Willcross RR2362	5	9-27	36	1	62.9*	45.2	54.1
Willcross RR2354N	None	9-22	36	1	62.8*	48.0	55.4
Stine S3600-4	None	9-25	38	1	62.4*	--	--
Willcross RR2385N	None	9-20	39	1	62.4*	--	--
NuTech NT-3909 RR/SCN/STS	None	9-25	39	1	62.2*	--	--
NuTech NT-3777+ RR	None	9-22	38	1	62.2*	--	--
Prairie Brand PB-3732RR	None	9-23	37	1	62.2*	52.9*	57.6
Lewis 3875	1, 5	9-26	37	2	62.1*	50.6	56.4
NuTech NT-3909+ RR/SCN/ST	None	9-24	36	2	62.0*	--	--
NuTech NT-3999 RR/SCN	None	9-28	39	1	61.9*	54.9*	58.4
MFA Morsoy RT 3304N	2	9-21	40	2	61.9*	--	--
Kruger 355 RR/SCN	None	9-19	36	1	61.8*	47.4	54.6
Willcross RR2355N	None	9-26	41	1	61.5*	--	--
Dyna Gro DG33A37	2	9-21	38	1	61.3*	55.1*	58.2
Dyna Gro DG35D33	2	9-20	39	1	61.2*	--	--
MPride/MPV 3605nRR	3, 5	9-26	40	1	61.1*	--	--
MFA Morsoy RT 3883N	2	9-26	38	1	61.0*	54.3*	57.7
Kruger 379+ RR/SCN	7	9-23	38	1	61.0*	52.0	56.5
Kruger 379 RR/SCN	None	9-24	36	2	60.9*	55.2*	58.1
Taylor 374RR	None	9-25	36	1	60.8*	53.3*	57.1
DEKALB DKB37-51	None	9-24	37	1	60.8*	51.1	56.0
Dyna Gro DG3362NRR	2	9-25	36	2	60.7*	55.7*	58.2
Prairie Brand PB-3894NRR	None	9-26	38	2	60.7*	--	--
Midland 9A373NRR	None	9-23	39	1	60.7*	--	--
Kruger 375 RR	None	9-24	36	1	60.6*	--	--
Stine S3532-4	None	9-21	37	1	60.5*	--	--
NuTech NT-3737+RR/SCN	None	9-20	39	1	60.4*	--	--
ASGROW AG3305	None	9-19	36	1	60.3*	--	--
Vigoro V39N4RR	2	9-26	39	1	60.2*	53.6*	56.9
Mersch. Kennedy 538RR	1, 5	9-20	36	1	60.1*	--	--
Renze R3684Rcn	None	9-23	38	1	60.1*	54.4*	57.3
NuTech NT-3737sc RR/SCN	None	9-25	39	2	59.9*	58.1*	59.0
Mersch. Washington IXRR	1, 5	9-25	39	1	59.8	50.2	55.0
NuTech NT-3707 RR	None	9-23	37	1	59.8	--	--
Pioneer 93M50	None	9-19	40	1	59.8	--	--
Kruger 389+ RR/SCN	7	9-26	39	2	59.7	--	--
MPride/MPV 3903nRR	3, 5	9-24	38	1	59.6	50.1	54.9
Lewis 3715	1, 5	9-22	38	1	59.5	55.3*	57.4

TABLE 2. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
ASGROW AG3802	None	9-23	41	1	59.5	--	--
Kruger 393 RR/SCN	None	9-26	39	1	59.4	52.3	55.9
MFA Morsoy RT 3644N	2	9-21	40	1	59.4	--	--
Kruger 363 RR/SCN	None	9-22	40	1	59.3	--	--
NuTech NT-ex3820	None	9-28	37	1	59.1	--	--
Mersch, Cleveland VIIRR	1, 5	9-26	37	1	58.9	48.8	53.9
Dyna Gro DG3390NRR	2	9-23	41	1	58.8	--	--
Midland 9A385NRS	None	9-22	35	1	58.8	--	--
DEKALB DKB38-52	None	9-24	39	1	58.8	56.2*	57.5
Willcross RR2335N	None	9-19	41	1	58.7	--	--
Kruger 389 RR/SCN	None	9-24	36	1	58.7	--	--
DEKALB DKB36-52	None	9-24	44	1	58.6	--	--
ASGROW AG3602	None	9-23	38	1	58.6	--	--
Lewis 3566	1, 5	9-22	36	1	58.6	53.4*	56.0
MFA Morsoy RT 3804N	2	9-24	36	1	58.6	--	--
NuTech NT-3909sc RR/SCN/S	None	9-25	39	1	58.5	--	--
Kruger 328 RR	None	9-13	38	1	58.5	--	--
Taylor 398RRS	None	9-24	38	1	58.2	--	--
Excel Brand 8416RR	None	9-28	36	1	58.2	41.7*	50.0
NuTech NT-3737 RR/SCN	None	9-23	34	2	58.2	51.6	54.9
Garst 3824RR/N	None	9-22	36	1	58.0	46.9	52.5
ASGROW AG3101	None	9-17	37	1	57.8	--	--
Kruger 341 RR/SCN	None	9-18	39	1	57.7	--	--
Stine S3832-4	None	9-25	37	2	57.4	47.7	52.6
Vigoro V38N5RS	2	9-23	37	1	57.0	--	--
Renze R3595RCX	None	9-20	36	2	56.6	--	--
Ag Source 9375	None	9-20	39	1	56.5	--	--
NuTech NT-3999sc RR/SCN	None	9-23	39	1	56.5	53.2*	54.9
Croplan Genetics RC3939	None	9-24	36	1	56.4	--	--
MPride/MPV 3905nRR	3, 5	9-27	41	1	56.4	--	--
Kruger 380 RR/SCN	None	9-24	39	1	56.1	53.0*	54.6
Monsanto EXP338ARR	None	9-28	37	1	56.1	--	--
Kruger 380+ RR/SCN	None	9-26	39	1	56.1	50.8	53.5
Golden Harvest H-3945RR	None	9-23	37	1	56.1	51.3	53.7
MFA Morsoy RT 3991N	2	9-23	40	1	56.0	48.8	52.4
NuTech NT-3999+ RR/SCN	None	9-25	36	1	55.4	--	--
Prairie Brand PB-3921NRR	None	9-25	39	1	55.4	50.9	53.2
Kruger 349 RR	None	9-19	37	1	55.0	--	--
Kruger 343 RR/SCN	None	9-19	37	2	54.9	--	--
MFA Morsoy RT 3712N	2	9-25	37	3	54.9	53.9*	54.4
Kruger 381 RR/SCN	None	9-21	42	1	54.4	--	--
NuTech NT-3828 RR	None	9-25	36	1	54.2	--	--
Prairie Brand PB-3494NRR	None	9-17	38	1	53.8	--	--
Dyna Gro DG31T31	2	9-19	37	1	53.7	--	--
Midland 9A375XRR	None	9-24	38	1	53.6	--	--
Lewis 3944	1, 5	9-23	41	1	53.5	--	--
MFA Morsoy RT 3603N	2	9-24	37	1	53.2	--	--
NuTech NT-3787 RR/SCN	None	9-21	40	1	52.9	--	--
Dyna Gro SX04334	2	9-21	35	1	52.8	--	--
Excel Brand 8374RR CYSTX	None	9-23	36	1	52.6	--	--

TABLE 2. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Kruger 346 RR/SCN	None	9-19	38	1	52.6	--	--
NK Brand S37-N4	2	9-24	42	1	50.7	46.4	48.6
MPride/MPV 3805nRR	3, 5	9-21	37	1	48.2	--	--
GROUP 3 AVERAGE		9-23	38	1	58.7	50.9	54.8
L.S.D. AT .10				0	5.6	5.7	
C.V. %					6.8	7.8	
MATURITY GROUP 4							
Kruger 404 RR	None	9-24	37	2	64.3**	52.4	58.4
Kruger 393+ RR/SCN	None	9-23	40	1	63.2*	49.8	56.5
NuTech NT-ex3920RR/SCN	None	9-24	39	1	61.0*	--	--
NuTech NT-4122 RR/SCN	None	9-23	36	2	61.0*	45.7**	53.4
MFA Morsoy RT 4201N	2	9-27	37	2	60.2	41.9*	51.1
Stine S4102-4	None	9-24	35	1	60.2	39.6	49.9
Mersch. Phoenix IIIR	1, 5	9-25	39	1	59.8	39.0	49.4
NuTech NT-4414 RR/SCN/STS	None	9-30	39	1	59.6	--	--
Stine S3932-4	None	9-24	41	1	59.4	50.6	55.0
Mersch. Austin RR	1, 5	9-26	36	2	59.3	37.7	48.5
Renze R4095Rcn	None	9-23	36	1	59.1	--	--
Prairie Brand PB-4023NRR	None	9-23	37	1	58.9	--	--
Prairie Brand PB-4483NRR	None	9-27	36	2	58.9	40.3	49.6
NuTech NT-ex4120+ RR/SCN	None	9-23	36	1	58.5	--	--
Mersch. Rocky RR	1, 5	9-30	39	3	58.3	--	--
Kruger 424 RR	None	9-30	37	2	57.1	--	--
NK Brand S40-R9	2	9-25	40	1	56.6	--	--
MFA Morsoy RT 4124N	2	9-24	46	1	56.6	--	--
Mersch. Dallas RR	1, 5	10-02	40	3	56.1	38.6	47.4
Renze R4385Rcn	None	9-27	39	1	54.4	--	--
Prairie Brand PB-4394NRR	None	9-27	39	3	52.8	--	--
MFA Morsoy RT 4334N	2	9-29	42	3	52.7	--	--
Hoblit HB421NRR	None	9-26	41	1	52.6	--	--
Kruger 402 RR/SCN	None	9-27	40	1	52.5	--	--
Excel Brand 8390 NRR##	None	9-24	40	2	52.2	--	--
MPride/MPV 4305nRR	3, 5	10-01	40	2	51.8	--	--
Mersch. Denver RRSTS	1, 5	9-29	44	2	50.8	39.7	45.3
Kruger 434 RR/SCN	None	9-28	39	3	50.3	--	--
NK Brand S42-P7	2	9-27	38	1	50.2	--	--
NuTech NT-4040 RR/SCN	None	10-02	40	2	48.1	--	--
GROUP 4 AVERAGE		9-26	39	2	56.5	40.4	48.5
L.S.D. AT .10				0	3.8	4.4	
C.V. %					4.5	7.1	
TEST AVERAGE			38	1	58.2	49.1	53.6

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 3. **Glyphosate Resistant Soybean Test**
North Region: Albany, MO (Gentry County)

Soil Type: Grundy Silt Loam
Soil Test: pH=6.8, OM=3.2%, P=84, K=326

Cyst Nematode Population at Planting: 500 Eggs/250cc of soil
Rainfall: May=7.5, June=6.7, July=3.6, Aug.=4.8, Sept.=2.6 Total=25.2 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
MATURITY GROUP 3							
NuTech NT-3999sc RR/SCN	None	9-28	33	1	69.4**	15.7*	42.6
DEKALB DKB36-52	None	9-27	31	1	68.7*	--	--
ASGROW AG3602	None	9-26	33	1	68.7*	--	--
MPride/MPV 3605nRR	3, 5	9-24	30	1	68.1*	--	--
MFA Morsoy RT 3804N	2	10-02	36	2	68.0*	--	--
Renze R3814RR	None	9-25	34	1	67.9*	9.4	38.7
Kruger 379+ RR/SCN	7	9-25	35	1	67.9*	14.7*	41.3
NK Brand S37-N4	2	10-01	36	1	67.8*	12.0	39.9
MFA Morsoy RT 3644N	2	9-27	36	1	67.7*	--	--
MPride/MPV 3903nRR	3, 5	9-25	36	3	67.3*	17.8*	42.6
Kruger 381 RR/SCN	None	9-29	36	1	67.2*	--	--
Kruger 389 RR/SCN	None	9-30	31	2	66.9*	--	--
Willcross RR2355N	None	9-24	36	1	66.7*	--	--
Kruger 380+ RR/SCN	None	9-29	35	1	66.6*	15.5*	41.1
Taylor 374RR	None	9-27	38	1	66.4*	11.8	39.1
Dyna Gro DG31T31	2	9-20	33	1	66.4*	--	--
NuTech NT-3787 RR/SCN	None	9-30	35	1	66.3*	--	--
LG Seeds C3999NRR	None	9-26	33	1	66.2*	--	--
NuTech NT-3999+ RR/SCN	None	9-30	29	1	66.1*	--	--
Kruger 363 RR/SCN	None	9-27	34	1	65.9*	--	--
Kruger 373 RR	None	9-26	34	1	65.5*	--	--
MFA Morsoy RT 3991N	2	9-28	33	1	65.4*	14.0*	39.7
NuTech NT-3999 RR/SCN	None	9-29	32	1	65.4*	16.0*	40.7
Willcross RR2362	5	9-28	32	1	65.2*	6.9	36.1
DEKALB DKB38-52	None	9-25	40	1	65.2*	14.2*	39.7
Golden Harvest H-3945RR	None	9-30	30	1	65.1*	15.2*	40.2
Kruger 393 RR/SCN	None	9-26	26	1	65.0*	9.6	37.3
Lewis 3715	1, 5	9-27	34	1	64.8*	10.7	37.8
Golden Harvest H-3606RR	None	9-24	36	1	64.8*	--	--
Monsanto EXP338ARR	None	10-01	33	1	64.6*	--	--
Stine S3600-4	None	9-25	39	1	64.6*	--	--
Mersch. Cleveland VIIRR	1, 5	9-26	31	1	64.5*	10.1	37.3
NuTech NT-3737+RR/SCN	None	9-24	36	1	64.4*	--	--
DEKALB DKB34-51	None	9-25	33	1	64.2*	--	--
Vigoro V39N4RR	2	9-26	37	3	64.1*	10.9	37.5
Mersch. Washington IXRR	1, 5	9-28	34	1	64.0	10.1	37.1
Dyna Gro DG35D33	2	9-24	34	1	64.0	--	--
MFA Morsoy RT 3883N	2	9-29	33	2	63.9	11.3	37.6
ASGROW AG3802	None	9-28	32	1	63.9	--	--
Dyna Gro DG33A37	2	9-26	36	1	63.9	14.7*	39.3
NuTech NT-3737sc RR/SCN	None	9-24	32	1	63.7	10.3	37.0
Kruger 341 RR/SCN	None	9-22	34	2	63.7	--	--
DEKALB DKB37-51	None	9-25	30	1	63.7	11.5	37.6
Excel Brand 8416RR	None	9-28	33	1	63.6	14.2	38.9
Dyna Gro DG3362NRR	2	9-25	34	1	63.5	7.4	35.5

TABLE 3. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
Kruger 379 RR/SCN	None	10-02	30	1	63.5	13.9*	38.7
NuTech NT-3737 RR/SCN	None	9-27	32	1	63.5	11.6	37.6
NuTech NT-3707 RR	None	9-27	36	1	63.3	--	--
NuTech NT-3909 RR/SCN/STS	None	9-26	39	1	63.2	--	--
Willcross RR2335N	None	9-22	30	1	63.2	--	--
NuTech NT-3828 RR	None	9-28	34	1	62.9	--	--
NuTech NT-ex3820	None	9-26	34	1	62.9	--	--
MFA Morsoy RT 3304N	2	9-23	35	2	62.9	--	--
Kruger 375 RR	None	10-01	34	1	62.8	--	--
Midland 9A373NRR	None	9-26	34	1	62.7	--	--
Dyna Gro DG3390NRR	2	9-26	33	1	62.7	--	--
Kruger 349 RR	None	9-27	36	1	62.6	--	--
Kruger 380 RR/SCN	None	9-28	32	1	62.5	13.3	37.9
Lewis 3566	1, 5	9-25	36	1	62.5	11.8	37.2
Kruger 355 RR/SCN	None	9-24	30	1	62.3	12.8	37.6
MPride/MPV 3905nRR	3, 5	9-30	32	1	62.3	--	--
Prairie Brand PB-3921NRR	None	9-30	36	1	62.3	17.6*	40.0
Lewis 3944	1, 5	9-30	37	1	62.0	--	--
MPride/MPV 3805nRR	3, 5	10-01	36	1	61.9	--	--
Croplan Genetics RC3732	None	9-26	32	1	61.8	--	--
Mersch. Kennedy 538RR	1, 5	9-26	33	1	61.7	--	--
Midland 9A385NRS	None	9-29	30	1	61.6	--	--
MFA Morsoy RT 3712N	2	9-28	31	1	61.5	9.6	35.6
Croplan Genetics RC3939	None	9-27	32	1	61.5	--	--
NuTech NT-3777+ RR	None	9-30	30	1	61.3	--	--
Garst 3824RR/N	None	9-23	36	1	61.2	15.3*	38.3
Kruger 328 RR	None	9-18	31	1	61.2	--	--
Willcross RR2354N	None	9-22	32	1	60.7	13.1	36.9
Vigoro V38N5RS	2	9-29	36	1	60.7	--	--
Prairie Brand PB-3894NRR	None	9-29	35	1	60.7	--	--
Lewis 3875	1, 5	9-30	40	1	60.5	10.4	35.5
ASGROW AG3305	None	9-29	25	1	60.4	--	--
Renze R3684Rcn	None	9-25	35	1	60.3	8.9	34.6
Taylor 398RRS	None	9-29	27	1	60.3	--	--
ASGROW AG3101	None	9-17	35	1	60.3	--	--
Kruger 346 RR/SCN	None	9-26	36	1	59.8	--	--
NuTech NT-3909sc RR/SCN/S	None	9-30	37	1	59.7	--	--
Garst 3624RR/N	None	9-25	34	1	59.5	--	--
NuTech NT-3909+ RR/SCN/ST	None	9-30	31	1	59.1	--	--
Midland 9A375XRR	None	9-27	36	2	58.8	--	--
Kruger 343 RR/SCN	None	9-25	32	1	58.7	--	--
Stine S3532-4	None	9-25	34	1	58.1	--	--
Prairie Brand PB-3732RR	None	9-24	36	1	57.7	10.8	34.3
Stine S3832-4	None	9-28	34	3	57.6	10.7	34.2
Renze R3595RCX	None	9-29	27	1	57.5	--	--
Dyna Gro SX04334	2	10-01	36	1	57.5	--	--
Pioneer 93M50	None	9-23	37	1	57.3	--	--
Ag Source 9375	None	9-28	28	1	56.8	--	--
Willcross RR2385N	None	9-30	30	1	56.5	--	--
Excel Brand 8374RR CYSTX	None	9-28	37	1	56.5	--	--

TABLE 3. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Prairie Brand PB-3494NRR	None	9-25	36	1	56.0	--	--
MFA Morsoy RT 3603N	2	9-26	31	1	55.9	--	--
Kruger 389+ RR/SCN	7	9-29	30	1	53.0	--	--
GROUP 3 AVERAGE		9-27	34	1	62.9	11.2	37.1
L.S.D. AT .10				0	5.3	4.6	
C.V. %					6.1	28.5	
MATURITY GROUP 4							
Mersch. Rocky RR	1, 5	10-04	34	1	68.4**	--	--
Kruger 404 RR	None	9-30	28	1	68.2*	5.5	36.9
MFA Morsoy RT 4124N	2	9-28	40	1	67.4*	--	--
Kruger 393+ RR/SCN	None	9-27	36	1	67.2*	14.1*	40.7
NuTech NT-4122 RR/SCN	None	9-30	32	1	66.3*	15.7	41.0
Excel Brand 8390 NNRR##	None	10-02	36	1	65.6*	--	--
NuTech NT-ex3920RR/SCN	None	9-27	32	2	65.1*	--	--
Mersch. Dallas RR	1, 5	10-02	36	1	63.5*	9.9	36.7
Kruger 424 RR	None	10-01	32	1	63.5*	--	--
Mersch. Denver RRSTS	1, 5	9-30	30	1	62.6*	14.3	38.5
NK Brand S42-P7	2	10-01	36	1	62.3	--	--
Prairie Brand PB-4023NRR	None	9-29	30	1	61.9	--	--
NK Brand S40-R9	2	10-01	41	1	61.8	--	--
Hoblit HB421NRR	None	9-30	27	1	61.7	--	--
MFA Morsoy RT 4201N	2	10-01	34	1	60.4	13.2	36.8
Mersch. Phoenix IIIRR	1, 5	9-28	34	1	60.2	13.8	37.0
NuTech NT-4040 RR/SCN	None	10-02	36	2	59.1	--	--
Renze R4095Rcn	None	9-29	32	1	58.6	--	--
Stine S4102-4	None	9-27	30	1	58.3	16.1	37.2
NuTech NT-ex4120+ RR/SCN	None	9-28	36	1	57.9	--	--
NuTech NT-4414 RR/SCN/STS	None	9-29	31	1	57.5	--	--
Stine S3932-4	None	9-27	35	2	57.3	9.1	33.2
Kruger 402 RR/SCN	None	10-02	34	1	57.2	--	--
Mersch. Austin RR	1, 5	9-30	32	1	56.4	17.6**	37.0
MPride/MPV 4305nRR	3, 5	9-30	40	3	55.8	--	--
MFA Morsoy RT 4334N	2	10-01	36	1	55.5	--	--
Kruger 434 RR/SCN	None	9-30	39	1	55.4	--	--
Prairie Brand PB-4483NRR	None	10-01	33	1	54.7	15.9	35.3
Renze R4385Rcn	None	10-02	33	2	53.6	--	--
Prairie Brand PB-4394NRR	None	10-03	35	1	53.0	--	--
GROUP 4 AVERAGE		9-30	34	1	60.5	13.9	37.2
L.S.D. AT .10				0	5.9	NS	
C.V. %					7.1	25.1	
TEST AVERAGE			34	1	62.3	11.6	37.0

- ## Maturity group III soybean variety entered in the maturity group IV test.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 + Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)
 NS Not Significant.

TABLE 4. **Glyphosate Resistant Soybean Test**
North Region: Mooresville, MO (Livingston County)

Soil Type: Putnam Silt Loam
Soil Test: pH=6.1, OM=3.2%, P=63, K=310

Cyst Nematode Population at Planting: 1400 Eggs/250cc soil
Rainfall: May=6.0, June=4.5, July=4.8, Aug=7.4, Sept=2.8 Total=25.5 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 3							
DEKALB DKB36-52	None	9-21	47	2	69.3**	--	--
Renze R3814RR	None	9-23	39	2	67.6*	25.8	46.7
Mersch. Cleveland VIIRR	1, 5	9-23	37	3	65.6*	26.0	45.8
Stine S3600-4	None	9-23	40	1	65.4*	--	--
MFA Morsoy RT 3644N	2	9-21	44	2	65.3*	--	--
MPride/MPV 3605nRR	3, 5	9-18	44	2	65.1*	--	--
Monsanto EXP338ARR	None	9-23	40	1	64.5*	--	--
Midland 9A385NRS	None	9-23	41	2	64.3*	--	--
Dyna Gro DG3362NRR	2	9-20	40	2	64.3*	25.9	45.1
NuTech NT-3777+ RR	None	9-21	43	2	63.1*	--	--
Excel Brand 8416RR	None	9-23	39	1	62.7*	33.7**	48.2
Kruger 363 RR/SCN	None	9-21	42	2	62.3*	--	--
Kruger 389+ RR/SCN	7	9-22	40	1	62.2*	--	--
ASGROW AG3602	None	9-22	43	1	62.2*	--	--
Kruger 379 RR/SCN	None	9-21	40	3	61.8*	27.7	44.8
Willcross RR2362	5	9-21	41	3	61.3*	26.4	43.9
Golden Harvest H-3606RR	None	9-21	39	3	61.3*	--	--
Kruger 375 RR	None	9-24	42	3	61.3*	--	--
MPride/MPV 3903nRR	3, 5	9-18	39	3	61.2*	30.5*	45.9
Vigoro V39N4RR	2	9-22	39	1	60.8*	25.3	43.1
LG Seeds C3999NRR	None	9-23	40	2	60.7*	--	--
Kruger 355 RR/SCN	None	9-16	37	2	60.2	29.7	45.0
Willcross RR2355N	None	9-22	42	2	59.9	--	--
NuTech NT-ex3820	None	9-22	39	2	59.8	--	--
NuTech NT-3707 RR	None	9-22	38	1	59.6	--	--
Kruger 381 RR/SCN	None	9-24	41	1	59.5	--	--
Lewis 3715	1, 5	9-20	41	1	59.5	27.4	43.5
MFA Morsoy RT 3883N	2	9-24	39	1	59.5	28.0	43.8
MFA Morsoy RT 3603N	2	9-23	42	2	59.5	--	--
Kruger 373 RR	None	9-15	41	1	59.4	--	--
Kruger 393 RR/SCN	None	9-15	39	1	59.3	27.6	43.5
Mersch. Kennedy 538RR	1, 5	9-15	37	1	59.1	--	--
Lewis 3875	1, 5	9-21	41	3	58.7	25.2	42.0
NuTech NT-3909+ RR/SCN/ST	None	9-22	41	2	58.7	--	--
NuTech NT-3909sc RR/SCN/S	None	9-21	43	2	58.7	--	--
Vigoro V38N5RS	2	9-22	29	1	58.6	--	--
Stine S3532-4	None	9-22	39	2	58.5	--	--
Lewis 3566	1, 5	9-16	39	2	58.5	31.6*	45.1
MFA Morsoy RT 3712N	2	9-20	37	1	58.3	28.9	43.6
Renze R3595RCX	None	9-20	41	4	58.2	--	--
NuTech NT-3828 RR	None	9-23	43	1	58.2	--	--
MFA Morsoy RT 3304N	2	9-14	40	2	58.1	--	--
ASGROW AG3802	None	9-22	47	2	58.0	--	--
Pioneer 93M50	None	9-11	41	1	57.8	--	--
NuTech NT-3787 RR/SCN	None	9-19	43	1	57.6	--	--

TABLE 4. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Willcross RR2354N	None	9-21	36	1	57.6	28.5	43.1
Kruger 328 RR	None	9-14	43	1	57.4	--	--
MFA Morsoy RT 3804N	2	9-22	41	1	57.4	--	--
Prairie Brand PB-3894NRR	None	9-22	44	3	57.3	--	--
Mersch. Washington IXRR	1, 5	9-20	37	1	57.0	29.0	43.0
Golden Harvest H-3945RR	None	9-17	43	2	57.0	32.3*	44.7
DEKALB DKB37-51	None	9-21	40	1	56.8	27.7	42.3
NuTech NT-3737 RR/SCN	None	9-21	42	1	56.7	33.7*	45.2
Midland 9A373NRR	None	9-19	42	2	56.5	--	--
NuTech NT-3737+RR/SCN	None	9-13	41	2	56.5	--	--
MPride/MPV 3805nRR	3, 5	9-22	41	2	56.1	--	--
NuTech NT-3999+ RR/SCN	None	9-22	44	1	55.8	--	--
Taylor 398RRS	None	9-21	39	2	55.7	--	--
Kruger 341 RR/SCN	None	9-20	42	2	55.5	--	--
Garst 3624RR/N	None	9-20	42	2	55.0	--	--
Kruger 349 RR	None	9-19	42	2	54.9	--	--
Dyna Gro DG35D33	2	9-18	40	1	54.8	--	--
Kruger 380+ RR/SCN	None	9-22	41	1	54.6	30.6*	42.6
Willcross RR2335N	None	9-17	43	1	54.4	--	--
MPride/MPV 3905nRR	3, 5	9-20	51	3	54.4	--	--
Kruger 389 RR/SCN	None	9-13	42	2	54.3	--	--
DEKALB DKB38-52	None	9-21	43	1	54.3	30.3	42.3
NuTech NT-3909 RR/SCN/STS	None	9-21	38	1	54.1	--	--
Renze R3684Rcn	None	9-16	42	2	54.0	25.4	39.7
Dyna Gro DG3390NRR	2	9-22	44	1	54.0	--	--
NuTech NT-3737sc RR/SCN	None	9-21	39	1	53.5	27.3	40.4
NK Brand S37-N4	2	9-13	41	2	53.5	30.6*	42.1
MFA Morsoy RT 3991N	2	9-19	43	2	53.4	29.7	41.6
Excel Brand 8374RR CYSTX	None	9-22	41	3	52.9	--	--
Stine S3832-4	None	9-23	41	2	52.7	27.1	39.9
Garst 3824RR/N	None	9-20	42	2	52.5	34.6**	43.6
Dyna Gro DG33A37	2	9-15	40	1	52.4	28.3	40.4
Prairie Brand PB-3732RR	None	9-21	41	2	52.2	29.8	41.0
Croplan Genetics RC3939	None	9-21	44	2	52.1	--	--
Dyna Gro SX04334	2	9-19	40	2	51.7	--	--
Willcross RR2385N	None	9-20	41	2	51.2	--	--
Lewis 3944	1, 5	9-22	44	1	51.1	--	--
Croplan Genetics RC3732	None	9-21	41	1	50.8	--	--
Midland 9A375XRR	None	9-22	39	3	49.8	--	--
Prairie Brand PB-3494NRR	None	9-16	44	2	49.8	--	--
Kruger 346 RR/SCN	None	9-19	42	2	49.6	--	--
Prairie Brand PB-3921NRR	None	9-20	42	2	49.2	32.0*	40.6
DEKALB DKB34-51	None	9-13	44	2	49.0	--	--
ASGROW AG3101	None	9-18	42	1	48.2	--	--
Taylor 374RR	None	9-13	40	2	48.1	26.1	37.1
ASGROW AG3305	None	9-13	42	3	47.8	--	--
NuTech NT-3999 RR/SCN	None	9-14	40	2	47.2	29.3	38.3
Ag Source 9375	None	9-20	39	3	46.9	--	--
Kruger 380 RR/SCN	None	9-17	43	1	46.5	29.3	37.9
NuTech NT-3999sc RR/SCN	None	9-15	36	1	46.4	32.8*	39.6

TABLE 4. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Dyna Gro DG31T31	2	9-16	36	1	45.7	--	--
Kruger 379+ RR/SCN	7	9-11	39	2	44.4	29.3	36.9
Kruger 343 RR/SCN	None	9-20	40	2	43.8	--	--
GROUP 3 AVERAGE		9-20	41	2	56.4	27.5	42.0
L.S.D. AT .10				0	8.9	4.2	
C.V. %					11.2	10.7	
MATURITY GROUP 4							
Mersch. Rocky RR	1, 5	9-25	43	2	65.5**	--	--
Kruger 404 RR	None	9-24	44	3	64.5*	27.4	46.0
Mersch. Dallas RR	1, 5	9-30	42	2	62.9*	29.5	46.2
NuTech NT-ex3920RR/SCN	None	9-23	42	3	62.3*	--	--
Prairie Brand PB-4023NRR	None	9-23	36	1	61.7*	--	--
Excel Brand 8390 NNRR##	None	9-24	41	4	61.3*	--	--
NuTech NT-4122 RR/SCN	None	9-24	38	1	61.0*	28.4	44.7
Mersch. Phoenix IIRRR	1, 5	9-29	38	1	61.0*	29.6	45.3
Renze R4095Rcn	None	9-23	39	1	60.6*	--	--
NuTech NT-ex4120+ RR/SCN	None	9-23	40	1	60.5*	--	--
Prairie Brand PB-4483NRR	None	9-23	40	1	60.4*	29.4	44.9
MFA Morsoy RT 4201N	2	9-23	40	2	60.4*	32.8	46.6
Stine S4102-4	None	9-26	38	1	59.8*	30.9	45.4
NK Brand S40-R9	2	9-24	46	1	59.5*	--	--
Mersch. Denver RRSTS	1, 5	9-26	44	2	59.4*	28.1	43.8
Stine S3932-4	None	9-23	40	2	57.7*	27.7	42.7
Mersch. Austin RR	1, 5	9-23	40	1	56.8*	27.2	42.0
Kruger 424 RR	None	9-24	42	1	56.5*	--	--
Kruger 402 RR/SCN	None	9-25	44	1	56.0*	--	--
Hoblit HB421NRR	None	9-24	39	1	55.8	--	--
Kruger 434 RR/SCN	None	9-27	44	2	55.6	--	--
Kruger 393+ RR/SCN	None	9-25	40	2	55.5	29.9	42.7
MPride/MPV 4305nRR	3, 5	9-30	43	1	53.3	--	--
NK Brand S42-P7	2	9-26	40	1	53.2	--	--
MFA Morsoy RT 4124N	2	9-24	47	2	52.8	--	--
NuTech NT-4414 RR/SCN/STS	None	9-25	42	1	51.4	--	--
Prairie Brand PB-4394NRR	None	9-27	43	1	50.3	--	--
Renze R4385Rcn	None	9-23	43	1	49.8	--	--
MFA Morsoy RT 4334N	2	9-24	39	2	49.5	--	--
NuTech NT-4040 RR/SCN	None	10-01	40	2	46.1	--	--
GROUP 4 AVERAGE		9-25	41	2	57.4	29.2	43.3
L.S.D. AT .10				0	9.6	NS	
C.V. %					11.6	11.2	
TEST AVERAGE			41	2	56.6	27.8	42.2

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 5. **Glyphosate Resistant Soybean Test**
North Region: LaGrange, MO (Lewis County)

Soil Type: Chequest Silt Loam
Soil Test: pH=7.5, OM=2.5%, P=44, K=530

Cyst Nematode Population at Planting: 1322 Eggs/250cc of soil
Rainfall: May=5.0, June=4.7, July=2.8, Aug.=11.0, Sept.=2.7 Total=26.2 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
-----bu/acre-----							
MATURITY GROUP 3							
DEKALB DKB36-52	None	9-26	37	1	64.5**	--	--
Kruger 363 RR/SCN	None	9-27	42	2	63.2*	--	--
ASGROW AG3602	None	9-22	36	1	62.8*	--	--
Mersch. Kennedy 538RR	1, 5	9-25	30	1	61.8*	--	--
MFA Morsoy RT 3644N	2	9-26	39	1	60.8*	--	--
Willcross RR2355N	None	9-23	35	1	60.5*	--	--
Kruger 381 RR/SCN	None	9-26	40	1	60.2*	--	--
MFA Morsoy RT 3304N	2	9-21	37	1	59.9	--	--
Lewis 3875	1, 5	9-26	35	1	59.8	60.4	60.1
MPride/MPV 3605nRR	3, 5	9-24	39	1	59.5	--	--
Willcross RR2335N	None	9-21	40	1	59.1	--	--
MFA Morsoy RT 3804N	2	9-27	37	1	58.4	--	--
Pioneer 93M50	None	9-22	39	1	58.1	--	--
Renze R3814RR	None	9-26	32	1	58.0	61.2	59.6
LG Seeds C3999NRR	None	9-25	36	1	57.9	--	--
Stine S3600-4	None	9-25	33	1	57.6	--	--
Dyna Gro DG35D33	2	9-21	36	1	57.6	--	--
NuTech NT-3787 RR/SCN	None	9-27	41	1	57.5	--	--
Kruger 373 RR	None	9-23	35	1	57.4	--	--
Kruger 341 RR/SCN	None	9-20	30	1	57.4	--	--
Mersch. Washington IXRR	1, 5	9-25	37	1	57.3	64.4*	60.9
Vigoro V39N4RR	2	9-26	39	1	57.2	62.8	60.0
Willcross RR2362	5	9-25	30	1	57.2	66.0*	61.6
NuTech NT-3707 RR	None	9-26	37	1	57.2	--	--
MFA Morsoy RT 3883N	2	9-22	39	1	57.1	62.6	59.9
Garst 3624RR/N	None	9-23	39	1	57.1	--	--
NK Brand S37-N4	2	9-24	40	1	56.8	64.5*	60.7
Kruger 389 RR/SCN	None	9-23	36	1	56.7	--	--
NuTech NT-ex3820	None	9-27	35	1	56.6	--	--
Willcross RR2354N	None	9-21	32	1	56.5	59.0	57.8
Vigoro V38N5RS	2	9-24	33	1	56.4	--	--
Kruger 389+ RR/SCN	7	9-25	39	1	56.3	--	--
DEKALB DKB34-51	None	9-21	40	1	56.3	--	--
NuTech NT-3737 RR/SCN	None	9-23	39	1	56.0	65.0*	60.5
Kruger 393 RR/SCN	None	9-28	38	1	55.9	62.8	59.4
NuTech NT-3909 RR/SCN/STS	None	9-24	32	1	55.9	--	--
Taylor 398RRS	None	9-24	33	1	55.6	--	--
NuTech NT-3777+ RR	None	9-24	35	1	55.6	--	--
Kruger 355 RR/SCN	None	9-22	36	1	55.5	60.1	57.8
Monsanto EXP338ARR	None	9-23	32	1	54.9	--	--
Willcross RR2385N	None	9-26	35	1	54.9	--	--
Excel Brand 8416RR	None	9-29	33	1	54.7	67.7*	61.2
Prairie Brand PB-3894NRR	None	9-24	29	1	54.6	--	--
NuTech NT-3909sc RR/SCN/S	None	9-22	31	1	54.4	--	--
DEKALB DKB38-52	None	9-22	33	1	54.3	65.0*	59.7

TABLE 5. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
				-----bu/acre-----			
NuTech NT-3737+RR/SCN	None	9-23	38	1	54.2	--	--
NuTech NT-3909+ RR/SCN/ST	None	9-24	30	1	54.2	--	--
Stine S3532-4	None	9-22	38	1	54.1	--	--
Lewis 3566	1, 5	9-21	35	1	54.1	59.5	56.8
Kruger 380 RR/SCN	None	9-24	35	1	53.9	60.8	57.4
Kruger 328 RR	None	9-16	41	1	53.9	--	--
Mersch. Cleveland VIIRR	1, 5	9-25	31	1	53.8	58.9	56.4
Kruger 379 RR/SCN	None	9-21	32	1	53.8	63.9*	58.9
Kruger 375 RR	None	9-25	36	1	53.8	--	--
MPride/MPV 3903nRR	3, 5	9-23	37	1	53.8	59.8	56.8
Garst 3824RR/N	None	9-23	35	1	53.7	63.1	58.4
NuTech NT-3999+ RR/SCN	None	9-22	31	1	53.7	--	--
Midland 9A385NRS	None	9-24	32	1	53.6	--	--
NuTech NT-3737sc RR/SCN	None	9-21	36	1	53.2	64.1*	58.7
Kruger 380+ RR/SCN	None	9-22	32	1	53.1	60.7	56.9
MFA Morsoy RT 3603N	2	9-24	36	1	53.0	--	--
Dyna Gro DG3362NRR	2	9-22	35	1	52.8	59.3	56.1
MPride/MPV 3805nRR	3, 5	9-23	30	1	52.7	--	--
NuTech NT-3999sc RR/SCN	None	9-23	33	1	52.5	67.0*	59.8
Kruger 379+ RR/SCN	7	9-21	35	1	52.3	63.0	57.7
Dyna Gro DG3390NRR	2	9-23	39	1	52.3	--	--
Stine S3832-4	None	9-24	34	1	52.3	60.6	56.5
DEKALB DKB37-51	None	9-20	32	1	52.2	60.9	56.6
Renze R3595RCX	None	9-24	39	1	52.1	--	--
NuTech NT-3999 RR/SCN	None	9-22	35	1	52.0	70.3**	61.2
Kruger 343 RR/SCN	None	9-22	32	1	51.8	--	--
Lewis 3944	1, 5	9-25	38	1	51.6	--	--
MFA Morsoy RT 3991N	2	9-23	37	1	51.3	64.3*	57.8
Dyna Gro DG33A37	2	9-19	37	1	51.3	62.2	56.8
Lewis 3715	1, 5	9-20	38	1	51.1	65.5*	58.3
Golden Harvest H-3945RR	None	9-21	35	1	50.9	60.7	55.8
Prairie Brand PB-3732RR	None	9-22	34	1	50.8	64.6*	57.7
MFA Morsoy RT 3712N	2	9-23	37	1	50.8	65.1*	58.0
Ag Source 9375	None	9-24	37	1	50.5	--	--
Prairie Brand PB-3921NRR	None	9-23	38	1	50.4	64.1*	57.3
Midland 9A375XRR	None	9-25	38	1	50.4	--	--
Renze R3684Rcn	None	9-19	32	1	50.2	64.0*	57.1
Croplan Genetics RC3939	None	9-23	36	1	49.9	--	--
Midland 9A373NRR	None	9-20	31	1	49.9	--	--
Croplan Genetics RC3732	None	9-21	36	1	49.9	--	--
ASGROW AG3305	None	9-22	37	1	49.7	--	--
Dyna Gro SX04334	2	9-22	38	1	49.6	--	--
NuTech NT-3828 RR	None	9-23	36	1	49.6	--	--
ASGROW AG3101	None	9-16	35	1	49.3	--	--
Golden Harvest H-3606RR	None	9-20	33	1	49.1	--	--
Dyna Gro DG31T31	2	9-18	34	1	48.9	--	--
Kruger 346 RR/SCN	None	9-21	32	1	48.6	--	--
Prairie Brand PB-3494NRR	None	9-20	32	1	48.4	--	--
MPride/MPV 3905nRR	3, 5	9-26	44	2	48.4	--	--
Taylor 374RR	None	9-18	33	1	47.3	62.5	54.9

TABLE 5. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
Excel Brand 8374RR CYSTX	None	9-25	38	1	46.4	--	--
ASGROW AG3802	None	9-22	39	2	46.2	--	--
Kruger 349 RR	None	9-17	33	1	44.5	--	--
GROUP 3 AVERAGE		9-23	35	1	54.2	61.1	57.7
L.S.D. AT .10					4.4	6.7	
C.V. %					5.7	7.7	
MATURITY GROUP 4							
Stine S4102-4	None	10-01	39	1	61.7**	67.5*	64.6
Mersch. Austin RR	1, 5	10-02	34	1	59.0*	63.5	61.3
MFA Morsoy RT 4201N	2	10-01	36	1	57.8*	72.2**	65.0
Kruger 434 RR/SCN	None	10-02	38	2	56.7*	--	--
Mersch. Rocky RR	1, 5	10-03	44	3	56.1	--	--
NuTech NT-ex3920RR/SCN	None	9-30	39	3	55.9	--	--
Kruger 404 RR	None	9-24	36	2	55.4	62.4	58.9
Kruger 393+ RR/SCN	None	9-30	39	3	55.3	61.9	58.6
NuTech NT-ex4120+ RR/SCN	None	9-30	33	1	55.2	--	--
Kruger 424 RR	None	10-02	40	2	54.9	--	--
Hoblit HB421NRR	None	10-01	40	1	54.9	--	--
Kruger 402 RR/SCN	None	10-03	39	1	54.7	--	--
Mersch. Phoenix IIIRR	1, 5	10-01	36	1	54.7	64.8	59.8
MFA Morsoy RT 4124N	2	9-29	42	2	54.1	--	--
Prairie Brand PB-4023NRR	None	9-29	35	1	54.1	--	--
Prairie Brand PB-4394NRR	None	10-04	42	2	53.5	--	--
NK Brand S42-P7	2	9-30	38	1	53.2	--	--
NuTech NT-4122 RR/SCN	None	9-30	34	1	52.9	71.4*	62.2
Excel Brand 8390 NNRR##	None	9-26	37	1	52.9	--	--
NuTech NT-4414 RR/SCN/STS	None	10-02	36	1	52.8	--	--
Renze R4385Rcn	None	10-02	40	2	52.7	--	--
MPride/MPV 4305nRR	3, 5	10-02	40	2	52.7	--	--
Mersch. Denver RRSTS	1, 5	10-03	44	4	52.1	66.2	59.2
Prairie Brand PB-4483NRR	None	10-02	32	1	52.0	63.2	57.6
Mersch. Dallas RR	1, 5	10-04	42	2	51.8	62.2	57.0
Stine S3932-4	None	9-29	38	2	51.8	61.7	56.8
Renze R4095Rcn	None	9-30	36	1	51.5	--	--
MFA Morsoy RT 4334N	2	10-01	44	1	51.0	--	--
NK Brand S40-R9	2	9-28	39	1	49.3	--	--
NuTech NT-4040 RR/SCN	None	10-03	40	2	44.7	--	--
GROUP 4 AVERAGE		10-01	38	2	53.8	63.8	58.8
L.S.D. AT .10					5.0	4.9	
C.V. %					6.5	5.1	
TEST AVERAGE			36	1	54.1	61.6	57.8

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 6. Performance Summary for Glyphosate Resistant Varieties evaluated at Four North Missouri locations (Craig, Albany, Mooresville, LaGrange) during 2004.

Craig
Planted: 05-11
Harvested: 10-09
Growing Season Rainfall: 20.3 in.

Albany
Planted: 05-17
Harvested: 10-06,11
Growing Season Rainfall: 25.2 in.

Mooresville
Planted: 05-12
Harvested: 10-25
Growing Season Rainfall: 25.5 in.

LaGrange
Planted: 05-17
Harvested: 10-05
Growing Season Rainfall: 26.2 in.

Brand-Variety	Yield (Bu/Acre)				Mean
	Craig	Albany	Mooresville	LaGrange	
MATURITY GROUP 3					
DEKALB DKB36-52	58.6	68.7*	69.3**	64.5**	65.3**
Renze R3814RR	64.8*	67.9*	67.6*	58.0	64.6*
MPride/MPV 3605nRR	61.1*	68.1*	65.1*	59.5	63.4*
MFA Morsoy RT 3644N	59.4	67.7*	65.3*	60.8*	63.3*
ASGROW AG3602	58.6	68.7*	62.2*	62.8*	63.1*
Kruger 363 RR/SCN	59.3	65.9*	62.3*	63.2*	62.7*
Stine S3600-4	62.4*	64.6*	65.4*	57.6	62.5*
Willcross RR2355N	61.5*	66.7*	59.9	60.5*	62.1
LG Seeds C3999NRR	63.4*	66.2*	60.7*	57.9	62.0
Kruger 373 RR	65.2*	65.5*	59.4	57.4	61.9
Willcross RR2362	62.9*	65.2*	61.3*	57.2	61.6
MFA Morsoy RT 3304N	61.9*	62.9	58.1	59.9	60.7
Mersch. Cleveland VIIR	58.9	64.5*	65.6*	53.8	60.7
Mersch. Kennedy 538RR	60.1*	61.7	59.1	61.8*	60.7
MFA Morsoy RT 3804N	58.6	68.0*	57.4	58.4	60.6
Vigoro V39N4RR	60.2*	64.1*	60.8*	57.2	60.6
NuTech NT-3777+ RR	62.2*	61.3	63.1*	55.6	60.5
MPride/MPV 3903nRR	59.6	67.3*	61.2*	53.8	60.5
MFA Morsoy RT 3883N	61.0*	63.9	59.5	57.1	60.4
Dyna Gro DG3362NRR	60.7*	63.5	64.3*	52.8	60.3
Kruger 381 RR/SCN	54.4	67.2*	59.5	60.2*	60.3
Lewis 3875	62.1*	60.5	58.7	59.8	60.3
Golden Harvest H-3606RR	65.4**	64.8*	61.3*	49.1	60.2
Monsanto EXP338ARR	56.1	64.6*	64.5*	54.9	60.0
Kruger 379 RR/SCN	60.9*	63.5	61.8*	53.8	60.0
NuTech NT-3707 RR	59.8	63.3	59.6	57.2	60.0
Kruger 355 RR/SCN	61.8*	62.3	60.2	55.5	59.9
Kruger 393 RR/SCN	59.4	65.0*	59.3	55.9	59.9
Excel Brand 8416RR	58.2	63.6	62.7*	54.7	59.8
Kruger 375 RR	60.6*	62.8	61.3*	53.8	59.6
NuTech NT-ex3820	59.1	62.9	59.8	56.6	59.6
Midland 9A385NRS	58.8	61.6	64.3*	53.6	59.6
Mersch. Washington IXRR	59.8	64.0	57.0	57.3	59.5
Dyna Gro DG35D33	61.2*	64.0	54.8	57.6	59.4
Willcross RR2354N	62.8*	60.7	57.6	56.5	59.4
Kruger 389 RR/SCN	58.7	66.9*	54.3	56.7	59.2
NuTech NT-3737+RR/SCN	60.4*	64.4*	56.5	54.2	58.9
NuTech NT-3909 RR/SCN/STS	62.2*	63.2	54.1	55.9	58.8
Willcross RR2335N	58.7	63.2	54.4	59.1	58.8
Garst 3624RR/N	63.4*	59.5	55.0	57.1	58.8

Table 6. Continued.

Brand-Variety	Yield (Bu/Acre)				
	Craig	Albany	Mooreville	LaGrange	Mean
Lewis 3715	59.5	64.8*	59.5	51.1	58.7
NuTech NT-3737 RR/SCN	58.2	63.5	56.7	56.0	58.6
NuTech NT-3787 RR/SCN	52.9	66.3*	57.6	57.5	58.6
Kruger 341 RR/SCN	57.7	63.7	55.5	57.4	58.6
NuTech NT-3909+ RR/SCN/ST	62.0*	59.1	58.7	54.2	58.5
Lewis 3566	58.6	62.5	58.5	54.1	58.4
DEKALB DKB37-51	60.8*	63.7	56.8	52.2	58.4
Prairie Brand PB-3894NRR	60.7*	60.7	57.3	54.6	58.3
Pioneer 93M50	59.8	57.3	57.8	58.1	58.2
Vigoro V38N5RS	57.0	60.7	58.6	56.4	58.2
DEKALB DKB38-52	58.8	65.2*	54.3	54.3	58.1
DEKALB DKB34-51	63.0*	64.2*	49.0	56.3	58.1
NuTech NT-3909sc RR/SCN/S	58.5	59.7	58.7	54.4	57.8
Kruger 389+ RR/SCN	59.7	53.0	62.2*	56.3	57.8
Stine S3532-4	60.5*	58.1	58.5	54.1	57.8
Kruger 328 RR	58.5	61.2	57.4	53.9	57.8
NuTech NT-3999+ RR/SCN	55.4	66.1*	55.8	53.7	57.8
Kruger 380+ RR/SCN	56.1	66.6*	54.6	53.1	57.6
NuTech NT-3737sc RR/SCN	59.9*	63.7	53.5	53.2	57.6
Midland 9A373NRR	60.7*	62.7	56.5	49.9	57.4
Taylor 398RRS	58.2	60.3	55.7	55.6	57.4
Golden Harvest H-3945RR	56.1	65.1*	57.0	50.9	57.3
Dyna Gro DG33A37	61.3*	63.9	52.4	51.3	57.2
NK Brand S37-N4	50.7	67.8*	53.5	56.8	57.2
Dyna Gro DG3390NRR	58.8	62.7	54.0	52.3	56.9
ASGROW AG3802	59.5	63.9	58.0	46.2	56.9
NuTech NT-3999 RR/SCN	61.9*	65.4*	47.2	52.0	56.6
MFA Morsoy RT 3991N	56.0	65.4*	53.4	51.3	56.5
Croplan Genetics RC3732	63.4*	61.8	50.8	49.9	56.5
Kruger 379+ RR/SCN	61.0*	67.9*	44.4	52.3	56.4
MFA Morsoy RT 3712N	54.9	61.5	58.3	50.8	56.4
Garst 3824RR/N	58.0	61.2	52.5	53.7	56.4
Willcross RR2385N	62.4*	56.5	51.2	54.9	56.2
NuTech NT-3828 RR	54.2	62.9	58.2	49.6	56.2
NuTech NT-3999sc RR/SCN	56.5	69.4**	46.4	52.5	56.2
Renze R3684Rcn	60.1*	60.3	54.0	50.2	56.1
Renze R3595RCX	56.6	57.5	58.2	52.1	56.1
Prairie Brand PB-3732RR	62.2*	57.7	52.2	50.8	55.7
Taylor 374RR	60.8*	66.4*	48.1	47.3	55.6
MFA Morsoy RT 3603N	53.2	55.9	59.5	53.0	55.4
MPride/MPV 3905nRR	56.4	62.3	54.4	48.4	55.4
Stine S3832-4	57.4	57.6	52.7	52.3	55.0
Croplan Genetics RC3939	56.4	61.5	52.1	49.9	55.0
Kruger 380 RR/SCN	56.1	62.5	46.5	53.9	54.8
MPride/MPV 3805nRR	48.2	61.9	56.1	52.7	54.7
ASGROW AG3305	60.3*	60.4	47.8	49.7	54.6
Lewis 3944	53.5	62.0	51.1	51.6	54.5
Prairie Brand PB-3921NRR	55.4	62.3	49.2	50.4	54.3
Kruger 349 RR	55.0	62.6	54.9	44.5	54.2
ASGROW AG3101	57.8	60.3	48.2	49.3	53.9
Dyna Gro DG31T31	53.7	66.4*	45.7	48.9	53.7
Midland 9A375XRR	53.6	58.8	49.8	50.4	53.1
Dyna Gro SX04334	52.8	57.5	51.7	49.6	52.9
Ag Source 9375	56.5	56.8	46.9	50.5	52.7
Kruger 346 RR/SCN	52.6	59.8	49.6	48.6	52.6

Table 6. Continued.

Brand-Variety	Yield (Bu/Acre)				
	Craig	Albany	Mooreville	LaGrange	Mean
Kruger 343 RR/SCN	54.9	58.7	43.8	51.8	52.3
Excel Brand 8374RR CYSTX	52.6	56.5	52.9	46.4	52.1
Prairie Brand PB-3494NRR	53.8	56.0	49.8	48.4	52.0
GROUP 3 AVERAGE	58.7	62.9	56.4	54.2	58.1
L.S.D. AT .10	5.6	5.3	8.9	4.4	3.1
C.V. %	6.8	6.1	11.2	5.7	7.5
MATURITY GROUP 4					
Kruger 404 RR	64.3**	68.2*	64.5*	55.4	63.1**
Mersch. Rocky RR	58.3	68.4**	65.5**	56.1	62.1*
NuTech NT-ex3920RR/SCN	61.0*	65.1*	62.3*	55.9	61.1*
NuTech NT-4122 RR/SCN	61.0*	66.3*	61.0*	52.9	60.3*
Kruger 393+ RR/SCN	63.2*	67.2*	55.5	55.3	60.3*
Stine S4102-4	60.2	58.3	59.8*	61.7**	60.0*
MFA Morsoy RT 4201N	60.2	60.4	60.4*	57.8*	59.7
Prairie Brand PB-4023NRR	58.9	61.9	61.7*	54.1	59.2
Mersch. Phoenix IIIRR	59.8	60.2	61.0*	54.7	58.9
Mersch. Dallas RR	56.1	63.5*	62.9*	51.8	58.6
NuTech NT-ex4120+ RR/SCN	58.5	57.9	60.5*	55.2	58.0
Excel Brand 8390 NRRR##	52.2	65.6*	61.3*	52.9	58.0
Kruger 424 RR	57.1	63.5*	56.5*	54.9	58.0
Mersch. Austin RR	59.3	56.4	56.8*	59.0*	57.9
MFA Morsoy RT 4124N	56.6	67.4*	52.8	54.1	57.7
Renze R4095Ren	59.1	58.6	60.6*	51.5	57.4
NK Brand S40-R9	56.6	61.8	59.5*	49.3	56.8
Stine S3932-4	59.4	57.3	57.7*	51.8	56.6
Prairie Brand PB-4483NRR	58.9	54.7	60.4*	52.0	56.5
Hoblit HB421NRR	52.6	61.7	55.8	54.9	56.2
Mersch. Denver RRSTS	50.8	62.6*	59.4*	52.1	56.2
NuTech NT-4414 RR/SCN/STS	59.6	57.5	51.4	52.8	55.3
Kruger 402 RR/SCN	52.5	57.2	56.0*	54.7	55.1
NK Brand S42-P7	50.2	62.3	53.2	53.2	54.7
Kruger 434 RR/SCN	50.3	55.4	55.6	56.7*	54.5
MPride/MPV 4305nRR	51.8	55.8	53.3	52.7	53.4
Renze R4385Ren	54.4	53.6	49.8	52.7	52.6
Prairie Brand PB-4394NRR	52.8	53.0	50.3	53.5	52.4
MFA Morsoy RT 4334N	52.7	55.5	49.5	51.0	52.2
NuTech NT-4040 RR/SCN	48.1	59.1	46.1	44.7	49.5
GROUP 4 AVERAGE	56.5	60.5	57.4	53.8	57.1
L.S.D. AT .10	3.8	5.9	9.6	5.0	3.2
C.V. %	4.5	7.1	11.6	6.5	7.4
TEST AVERAGE	58.2	62.3	56.6	54.1	57.8

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

** Highest yielding variety in the maturity group.

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

Note: To view seed treatments for these varieties refer to the location table or the characteristics chart.

TABLE 7. **Non-Glyphosate Resistant / Special Traits Soybean Test**
North Region: Craig, MO (Holt County)

Soil Type: Haynie Silt Loam
Soil Test: pH=6.5; OM=2.7%; P=152; K=808

Cyst Nematode Population at Planting: 0 Eggs/250cc of Soil
Rainfall: May=5.4, June=3.5, July=7.1, Aug.=3.7, Sept.=0.6 Total=20.3 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2 Yr. Mean	
MATURITY GROUP 4							
High Yield Check 3	--	9-28	37	1	61.6**	--	--
High Yield Check 1	--	9-23	36	1	60.8	--	--
Mersch. Atlanta 543	None	9-29	44	1	59.8	--	--
High Yield Check 2	--	9-24	36	1	58.6	--	--
TEST AVERAGE			38	1	60.3		
L.S.D. AT .10				0	NS		
C.V. %					5.2		

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 8. **Non-Glyphosate Resistant / Special Traits Soybean Test**
North Region: Mooresville, MO (Livingston County)

Soil Type: Putnam Silt Loam
Soil Test: pH=6.1, OM=3.2%, P=63, K=310

Cyst Nematode Population at Planting: 1400 Eggs/250cc soil
Rainfall: May=6.0, June=4.5, July=4.8, Aug=7.4, Sept=2.8 Total=25.5 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2 Yr. Mean	
MATURITY GROUP 4							
High Yield Check 3	--	9-27	36	1	68.0**	--	--
Mersch. Atlanta 543	None	9-26	43	1	68.0**	--	--
High Yield Check 1	--	9-22	37	1	58.6	--	--
High Yield Check 2	--	9-23	37	1	58.2	--	--
TEST AVERAGE			38	1	63.3		
L.S.D. AT .10				0	5.4		
C.V. %					6.7		

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 9. **Non-Glyphosate Resistant / Special Traits Soybean Test**
North Region: LaGrange, MO (Lewis County)

Soil Type: Chequest Silt Loam
Soil Test: pH=7.5; OM=2.5%; P=44; K=530

Cyst Nematode Population at Planting: 1322 Eggs/250cc Soil
Rainfall: May=5.0, June=4.7, July=2.8, Aug.=11.0, Sept.=2.7 Total=26.2
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield	
		Maturity Date	Plant Height (in)	Lodging Score	2004	2 Yr. Mean
MATURITY GROUP 4						
High Yield Check 3	--	9-27	36	1	53.0**	--
Mersch. Atlanta 543	None	9-30	42	2	51.0*	--
High Yield Check 1	--	9-21	36	1	44.0	--
High Yield Check 2	--	9-18	32	1	41.7	--
TEST AVERAGE			37	1	47.5	
L.S.D. AT .10					3.6	
C.V. %					5.9	

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 10. Performance Summary for Non-Glyphosate Resistant / Special Traits Varieties evaluated at Three North Missouri locations (Craig, Mooresville, LaGrange) during 2004.

<u>Craig</u> Planted: 05-11 Harvested: 10-09 Growing Season Rainfall: 20.3 in.	<u>Mooresville</u> Planted: 05-12 Harvested: 10-25 Growing Season Rainfall: 25.5 in.	<u>LaGrange</u> Planted: 05-17 Harvested: 10-05 Growing Season Rainfall: 26.2
---	---	--

Brand-Variety	Yield (Bu/Acre)				
	Craig	Mooresville	LaGrange	Mean	
MATURITY GROUP 4					
High Yield Check 3	61.6**	68.0**	53.0**	60.9**	
Mersch. Atlanta 543	59.8	68.0**	51.0*	59.6*	
High Yield Check 1	60.8	58.6	44.0	54.5	
High Yield Check 2	58.6	58.2	41.7	52.8	
TEST AVERAGE		60.3	63.3	47.5	57.0
L.S.D. AT .10		NS	5.4	3.6	2.4
C.V. %		5.2	6.7	5.9	5.9

** Highest yielding variety in the maturity group.

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

NS Not Significant.

Note: To view seed treatments for these varieties refer to the location table or the characteristics chart.

Central Region Crop Management Summary

There are five locations in the central region of Missouri for glyphosate resistant and non-glyphosate resistant / special trait soybean tests. They are located in counties where a significant number of acres of soybean are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary from location to location, but tend to reflect those followed by farmers in the area.

Planting dates ranged from April 28 to June 3 with soil conditions being very good at all locations. Yields at all five of the central locations were normal or above normal although there was some disease pressure present.

Climatological information for the growing season for Central Missouri (May 1 – September 30) is summarized below.

Average temperature = 70.1 degrees, 1.6 degrees below normal

Average precipitation = 23.4", 3.6" above normal

Table 11. Central Region Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide	
			N	P ₂ O ₅	K ₂ O		Pre	Post
<i>Glyphosate Resistant Soybean Tests</i>								
Henrietta	05-06	10-04	0	0	0	Min.	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Roundup WeatherMax
Grand Pass	06-03	11-08	0	0	0	No-till	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Roundup WeatherMax, Select
Columbia	04-28	09-27, 10-06	0	46	62	Min.	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Roundup WeatherMax
Truxton	05-13	10-31, 11-07	0	0	30	No-till	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Roundup WeatherMax, Fusion
Annada	05-18	10-06	0	0	72	Min.	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Roundup WeatherMax

TABLE 12. **Glyphosate Resistant Soybean Test**
Central Region: Henrietta, MO (Ray County)

Soil Type: Haynie Silt Loam
Soil Test: pH=5.8, OM=2.4%, P=87, K=758

Cyst Nematode Population at Planting: 2200 Eggs/250cc of soil
Rainfall: May=6.3, June=5.2, July=4.9, Aug.=6.3, Sept.=2.0 Total=24.7 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 3							
NuTech NT-3777+ RR	None	9-21	40	2	66.2**	--	--
Kruger 381 RR/SCN	None	9-22	46	3	66.0*	--	--
Willcross RR2383N	5	9-20	38	3	65.9*	50.3*	58.1
ASGROW AG3906	None	9-19	36	3	62.9*	--	--
Vigoro V39N4RR	2	9-20	42	3	61.4*	--	--
Kruger 373 RR	None	9-19	44	2	60.9*	--	--
NuTech NT-3909 RR/SCN/STS	None	9-16	42	3	60.8*	--	--
Mersch. Cleveland VIIRR	1, 5	9-15	35	4	60.7*	50.1*	55.4
ASGROW AG3802	None	9-18	43	2	59.8*	--	--
NuTech NT-3922 RR/SCN	None	9-20	41	3	59.6*	55.1*	57.4
DEKALB DKB36-52	None	9-18	43	3	59.0*	--	--
Kruger 380+ RR/SCN	None	9-18	47	3	58.7*	54.3*	56.5
Dyna Gro DG32C38	2	9-20	40	2	58.4*	--	--
Kruger 375 RR	None	9-17	42	4	58.3*	--	--
Monsanto EXP338ARR	None	9-20	37	4	58.1*	--	--
Kruger 328 RR	None	9-11	42	4	57.9*	--	--
Lewis 3875	1, 5	9-17	38	3	57.6*	49.0*	53.3
Willcross RR2362	5	9-20	39	4	57.2*	50.2*	53.7
Kruger 393 RR/SCN	None	9-19	45	3	57.0*	56.1*	56.6
Mersch. Washington IXRR	1, 5	9-21	41	3	56.7	50.0*	53.4
MPride/MPV 3805nRR	3, 5	9-19	38	2	56.2	--	--
Stine S3942-4	None	9-20	44	4	55.5	--	--
Kruger 389 RR/SCN	None	9-20	39	3	55.3	--	--
Willcross RR2393N	5	9-21	41	3	55.1	48.0	51.6
DEKALB DKB34-51	None	9-15	48	4	55.1	--	--
NuTech NT-3999 RR/SCN	None	9-19	45	3	55.0	--	--
Midland 9A385NRS	None	9-17	39	3	54.9	--	--
MFA Morsoy RT 3883N	2	9-16	36	4	54.2	47.3	50.8
LG Seeds C3999NRR	None	9-20	39	3	53.9	48.7*	51.3
NuTech NT-3909sc RR/SCN/S	None	9-14	36	3	53.9	--	--
DEKALB DKB38-52	None	9-19	42	3	53.3	51.3*	52.3
MFA Morsoy RT 3991N	2	9-15	45	2	53.3	54.2*	53.8
NK Brand S37-N4	2	9-18	46	2	52.8	42.7	47.8
Dyna Gro DG3362NRR	2	9-16	40	4	52.6	--	--
Willcross RR2392N	5	9-17	43	3	52.3	52.4*	52.4
Garst 3824RR/N	None	9-16	47	3	51.8	55.5*	53.7
Pioneer 93M50	None	9-16	45	4	51.5	--	--
Willcross RR2392NA	5	9-19	44	3	51.3	46.0	48.7
Dyna Gro DG33A37	2	9-17	42	4	50.9	--	--
Golden Harvest H-3945RR	None	9-20	44	2	50.8	53.4*	52.1
Dyna Gro DG3390NRR	2	9-16	44	3	50.7	51.4*	51.1
MFA Morsoy RT 3804N	2	9-20	41	4	50.7	--	--
NuTech NT-3839 RR	None	9-20	39	3	50.7	--	--
ASGROW AG3602	None	9-17	45	4	50.6	--	--
Croplan Genetics RC3939	None	9-19	48	2	50.1	--	--

TABLE 12. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
MFA Morsoy RT 3644N	2	9-20	43	4	50.0	--	--
MPride/MPV 3903nRR	3, 5	9-20	47	3	49.7	51.4*	50.6
Prairie Brand PB-3732RR	None	9-15	40	4	48.9	45.9	47.4
Kruger 389+ RR/SCN	7	9-20	45	4	48.9	--	--
Lewis 3944	1, 5	9-17	47	2	48.5	52.0*	50.3
Midland 9A375XRR	None	9-19	44	4	47.9	--	--
Kruger 380 RR/SCN	None	9-16	42	3	46.2	48.8*	47.5
NuTech NT-3737 RR/SCN	None	9-17	43	4	46.0	--	--
Producers Hybrid EX 3138N	None	9-17	40	4	46.0	--	--
MFA Morsoy RT 3712N	2	9-15	40	4	45.8	49.4*	47.6
Garst 3624RR/N	None	9-19	42	4	45.3	--	--
NuTech NT-3737sc RR/SCN	None	9-14	38	3	44.1	51.5*	47.8
Prairie Brand PB-3921NRR	None	9-13	38	3	43.7	--	--
Kruger 379 RR/SCN	None	9-17	42	4	43.3	--	--
Croplan Genetics RC3732	None	9-19	39	4	43.0	--	--
Bio Gene BG3703NRR	None	9-19	40	4	42.9	--	--
Midland 9A373NRR	None	9-15	41	4	42.7	51.0*	46.9
DEKALB DKB37-51	None	9-19	40	4	41.8	53.3*	47.6
NK Brand S39-K6	2	9-20	44	4	41.2	42.2	41.7
Kruger 379+ RR/SCN	7	9-18	40	4	40.6	--	--
Golden Harvest H-3606RR	None	9-18	42	4	40.2	--	--
MPride/MPV 3905nRR	3, 5	9-18	48	4	35.2	--	--
GROUP 3 AVERAGE		9-18	42	3	52.4	49.5	51.0
L.S.D. AT .10				0	9.3	7.8	
C.V. %					12.3	11.0	
MATURITY GROUP 4							
Garst 4212RR/N	None	9-26	40	2	65.2**	--	--
Kruger 404 RR	None	9-20	36	2	64.7*	54.8*	59.8
Golden Harvest H-4368RR	None	9-23	42	2	64.4*	51.3	57.9
Vigoro V42N3RR	2	9-26	37	2	63.7*	--	--
Willcross RR2474N	5	9-21	42	3	62.9*	55.9*	59.4
MPride/MPV 4404nRR	3, 5	9-29	48	3	62.6*	--	--
Mersch. Austin RR	1, 5	9-24	39	2	62.2*	50.6	56.4
MFA Morsoy RT 4480N	2	9-22	45	3	62.1*	48.4	55.3
Bio Gene BG4200NRRST	None	9-25	36	2	61.1*	--	--
Mersch. Phoenix IIIR	1, 5	9-25	37	3	60.3*	49.6	55.0
MFA Morsoy RT 4402N	2	9-23	39	3	58.7*	56.4*	57.6
Prairie Brand PB-4023NRR	None	9-22	37	2	58.3*	--	--
MFA Morsoy RT 4683N	2	9-24	39	4	58.0*	--	--
Prairie Brand PB-4483NRR	None	9-21	42	2	58.0*	61.5**	59.8
NuTech NT-4414 RR/SCN/STS	None	9-21	40	2	57.1*	--	--
MFA Morsoy RT 4044N	2	9-25	47	3	57.0*	--	--
Mersch. Denver RRSTS	1, 5	9-26	49	4	57.0*	46.7	51.9
Willcross RR2432N	5	9-26	43	2	56.9*	53.7	55.3
Kruger 442 RR/SCN	None	9-24	41	3	56.7*	--	--
MFA Morsoy RT 4124N	2	9-23	50	3	56.7*	--	--
NuTech NT-4040 RR/SCN	None	9-23	39	2	56.5*	--	--
NK Brand S43-B1	2	9-24	45	4	56.0*	45.6	50.8
MFA Morsoy RT4731N	2	9-25	43	4	55.7*	50.5	53.1
Midland 9A402NRR	None	9-22	44	3	55.6*	--	--
Prairie Brand PB-5083NRR	None	9-28	43	4	55.2*	--	--

TABLE 12. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MFA Morsoy RT 4201N	2	9-23	42	2	55.1	54.4	54.8
NuTech NT-4646 RR/SCN	None	9-29	48	4	55.0	56.2*	55.6
MFA Morsoy RT 4114N	2	9-22	45	2	54.9	--	--
Willcross RR2484N	5	9-24	44	4	54.1	--	--
NuTech NT-4747 RR/SCN	None	9-26	42	4	54.0	--	--
NuTech NT-ex3920RR/SCN	None	9-22	43	3	53.6	--	--
Mersch. Dallas RR	1, 5	9-29	43	2	53.0	55.8*	54.4
Lewis 4106	1, 5	9-22	40	2	52.2	54.7*	53.5
Stine S3932-4	None	9-22	42	3	51.7	52.2*	52.0
NuTech NT-ex4120+ RR/SCN	None	9-23	42	3	51.6	--	--
Dyna Gro DG35B40	2	9-22	43	3	51.3	--	--
Mersch. Rocky RR	1, 5	9-26	46	4	50.8	--	--
Renze R4695Rcn	None	9-28	40	2	50.8	--	--
Prairie Brand PB-4394NRR	None	9-24	47	3	49.5	--	--
Kruger 402 RR/SCN	None	9-19	42	3	48.7	--	--
ASGROW AG4102	None	9-22	48	4	48.2	--	--
Garst 4612RR/N	None	10-01	45	4	48.1	--	--
Dyna Gro DG37N43	2	9-26	39	3	47.5	--	--
MFA Morsoy RT 4503N	2	9-23	42	4	47.2	--	--
Stine S4842-4	None	9-29	40	4	47.1	--	--
MPride/MPV 4305nRR	3, 5	9-17	39	3	46.2	--	--
Lewis 3715##	1, 5	9-19	42	4	43.5	--	--
MPride/MPV 4705nRR	3, 5	9-27	42	3	41.6	--	--
Stine S4542-4	None	9-27	45	4	41.4	--	--
Kruger 434 RR/SCN	None	9-24	44	4	39.9	--	--
MFA Morsoy RT 4334N	2	9-28	46	3	39.4	--	--
GROUP 4 AVERAGE		9-24	42	3	54.1	50.9	52.5
L.S.D. AT .10				0	10.0	6.9	
C.V. %					12.7	9.2	
TEST AVERAGE			42	3	53.1	50.1	51.6

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 13. **Glyphosate Resistant Soybean Test**
Central Region: Grand Pass, MO (Saline County)

Soil Type: Haynie Silt Loam
Soil Test: pH=5.6, OM=2.4%, P=21, K=457

Cyst Nematode Population at Planting: 200 Eggs/250cc of soil
Rainfall: May=3.7, June=4.2, July=8.1, Aug.=10.0, Sept.=1.2 Total=27.2 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
MATURITY GROUP 3							
DEKALB DKB34-51	None	10-01	36	1	62.4**	--	--
Mersch. Cleveland VIIR	1, 5	10-07	30	1	61.6*	66.7*	64.1
NuTech NT-3839 RR	None	10-05	32	1	61.2*	--	--
Kruger 375 RR	None	10-04	34	1	60.5*	--	--
Kruger 373 RR	None	10-05	33	1	60.1*	--	--
ASGROW AG3602	None	10-01	33	1	59.7*	--	--
NuTech NT-3777+ RR	None	10-05	30	1	59.6*	--	--
ASGROW AG3906	None	10-06	35	1	59.5*	--	--
Willcross RR2362	5	10-06	32	1	59.5*	65.4*	62.5
Midland 9A373NRR	None	10-03	34	1	59.0*	67.3**	63.2
Willcross RR2383N	5	10-07	30	1	58.8*	53.4	56.1
Pioneer 93M50	None	9-30	35	1	58.4*	--	--
Dyna Gro DG3362NRR	2	10-04	30	1	57.5	--	--
Kruger 328 RR	None	9-27	35	1	57.2	--	--
DEKALB DKB36-52	None	10-03	36	1	56.5	--	--
Kruger 379+ RR/SCN	7	10-04	32	1	55.4	--	--
NuTech NT-3737 RR/SCN	None	10-04	35	1	55.4	--	--
NuTech NT-3922 RR/SCN	None	10-08	35	1	54.8	66.6*	60.7
Dyna Gro DG33A37	2	10-03	34	1	54.8	--	--
Golden Harvest H-3606RR	None	10-02	31	1	54.4	--	--
Garst 3624RR/N	None	10-03	33	1	54.4	--	--
Stine S3942-4	None	10-03	33	1	54.2	--	--
Lewis 3875	1, 5	10-06	34	1	53.9	59.1	56.5
DEKALB DKB38-52	None	10-04	36	1	53.7	60.5*	57.1
Producers Hybrid EX 3138N	None	10-03	35	1	53.6	--	--
Midland 9A375XRR	None	10-06	33	1	53.6	--	--
Kruger 380+ RR/SCN	None	10-04	33	1	53.5	60.4*	57.0
Kruger 381 RR/SCN	None	10-05	36	1	53.5	--	--
MFA Morsoy RT 3883N	2	10-07	33	1	53.4	54.1	53.8
LG Seeds C3999NRR	None	10-07	33	1	53.0	61.1*	57.1
Mersch. Washington IXRR	1, 5	10-06	33	1	52.8	56.2	54.5
Croplan Genetics RC3732	None	10-01	32	1	52.7	--	--
NK Brand S39-K6	2	10-05	36	1	52.7	57.3	55.0
MFA Morsoy RT 3644N	2	10-02	36	1	52.7	--	--
Willcross RR2393N	5	10-07	36	1	52.6	61.6*	57.1
Bio Gene BG3703NRR	None	10-02	35	1	52.6	--	--
Vigoro V39N4RR	2	10-07	34	1	52.5	--	--
DEKALB DKB37-51	None	10-02	36	1	52.5	59.1	55.8
MFA Morsoy RT 3712N	2	10-03	38	1	52.4	59.2	55.8
Kruger 393 RR/SCN	None	10-07	36	1	52.2	60.5*	56.4
NuTech NT-3737sc RR/SCN	None	10-04	36	1	52.2	61.8*	57.0
Kruger 379 RR/SCN	None	10-03	36	1	52.2	--	--
ASGROW AG3802	None	10-03	39	1	51.2	--	--
Golden Harvest H-3945RR	None	10-05	35	1	51.0	65.7*	58.4
Willcross RR2392NA	5	10-06	30	1	50.8	64.5*	57.7

TABLE 13. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
				-----bu/acre-----			
Dyna Gro DG3390NRR	2	10-04	31	1	50.0	50.4	50.2
NuTech NT-3999 RR/SCN	None	10-05	36	1	49.9	--	--
Prairie Brand PB-3921NRR	None	10-05	33	1	49.8	--	--
MPride/MPV 3903nRR	3, 5	10-06	34	1	49.6	59.2	54.4
MFA Morsoy RT 3804N	2	10-04	32	1	49.6	--	--
Dyna Gro DG32C38	2	10-04	38	1	49.3	--	--
Prairie Brand PB-3732RR	None	10-03	27	1	49.3	57.5	53.4
Monsanto EXP338ARR	None	10-01	36	1	49.0	--	--
Kruger 380 RR/SCN	None	10-05	30	1	49.0	58.3	53.7
Garst 3824RR/N	None	10-03	35	1	48.9	58.5	53.7
MPride/MPV 3805nRR	3, 5	10-03	34	1	48.9	--	--
Lewis 3944	1, 5	10-06	32	1	48.8	57.8	53.3
NuTech NT-3909 RR/SCN/STS	None	10-03	36	1	47.9	--	--
Kruger 389+ RR/SCN	7	10-05	34	1	47.8	--	--
Kruger 389 RR/SCN	None	10-04	34	1	47.6	--	--
MFA Morsoy RT 3991N	2	10-04	35	1	47.3	61.1*	54.2
NuTech NT-3909sc RR/SCN/S	None	10-04	33	1	47.1	--	--
MPride/MPV 3905nRR	3, 5	10-05	40	1	46.8	--	--
Willcross RR2392N	5	10-04	31	1	46.4	62.3*	54.4
Croplan Genetics RC3939	None	10-06	36	1	46.3	--	--
NK Brand S37-N4	2	10-02	33	1	45.1	55.2	50.2
Midland 9A385NRS	None	10-03	30	1	45.0	--	--
GROUP 3 AVERAGE		10-04	34	1	52.9	58.9	55.9
L.S.D. AT .10				0	4.8	7.4	
C.V. %					6.3	8.7	
MATURITY GROUP 4							
Mersch. Rocky RR	1, 5	10-12	40	1	63.8**	--	--
Kruger 404 RR	None	10-08	32	1	62.1*	62.3*	62.2
MFA Morsoy RT 4683N	2	10-08	36	1	61.7*	--	--
Garst 4212RR/N	None	10-08	33	1	60.9*	--	--
MFA Morsoy RT 4480N	2	10-11	42	1	59.4*	51.5	55.5
NuTech NT-4747 RR/SCN	None	10-12	38	1	59.3*	--	--
NuTech NT-4646 RR/SCN	None	10-14	43	2	59.2*	62.8*	61.0
Lewis 4106	1, 5	10-07	31	1	59.0*	59.1*	59.1
Bio Gene BG4200NRRST	None	10-07	34	1	58.8*	--	--
Vigoro V42N3RR	2	10-06	31	1	58.7*	--	--
Golden Harvest H-4368RR	None	10-08	34	1	58.2*	50.6	54.4
Willcross RR2432N	5	10-13	46	1	58.1*	49.2	53.7
NK Brand S43-B1	2	10-08	39	1	58.0*	50.3	54.2
Prairie Brand PB-4483NRR	None	10-08	35	1	57.6*	51.6	54.6
NuTech NT-4414 RR/SCN/STS	None	10-08	36	1	57.6*	--	--
MFA Morsoy RT 4402N	2	10-09	33	1	57.5*	58.8*	58.2
Willcross RR2474N	5	10-07	32	1	57.4	50.8	54.1
NuTech NT-ex4120+ RR/SCN	None	10-07	31	1	57.4	--	--
Midland 9A402NRR	None	10-11	36	1	57.4	--	--
MFA Morsoy RT4731N	2	10-13	42	2	56.8	55.1	56.0
Prairie Brand PB-4394NRR	None	10-11	39	1	56.7	--	--
NuTech NT-ex3920RR/SCN	None	10-12	36	1	56.5	--	--
MFA Morsoy RT 4201N	2	10-08	33	1	56.0	56.7*	56.4
MFA Morsoy RT 4114N	2	10-06	36	1	55.8	--	--
MPride/MPV 4404nRR	3, 5	10-11	38	1	55.7	--	--

TABLE 13. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean	
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003		
NuTech NT-4040 RR/SCN	None	10-11	35	1	55.5	--	--	
Stine S3932-4	None	10-08	36	1	55.2	62.4*	58.8	
Kruger 442 RR/SCN	None	10-11	32	1	54.5	--	--	
Mersch. Austin RR	1, 5	10-08	34	1	54.4	60.8*	57.6	
Renze R4695Rcn	None	10-08	35	1	53.9	--	--	
Prairie Brand PB-5083NRR	None	10-11	42	1	53.9	--	--	
Stine S4842-4	None	10-12	37	1	53.4	--	--	
Prairie Brand PB-4023NRR	None	10-07	33	1	53.4	--	--	
ASGROW AG4102	None	10-08	39	2	53.3	--	--	
Willcross RR2484N	5	10-13	39	1	53.3	--	--	
MPride/MPV 4705nRR	3, 5	10-13	37	1	53.2	--	--	
Mersch. Phoenix III RR	1, 5	10-08	34	1	53.1	58.6*	55.9	
MFA Morsoy RT 4124N	2	10-07	37	1	52.6	--	--	
Kruger 434 RR/SCN	None	10-08	39	1	52.5	--	--	
MFA Morsoy RT 4044N	2	10-12	37	1	52.5	--	--	
MPride/MPV 4305nRR	3, 5	10-07	37	1	51.7	--	--	
Dyna Gro DG35B40	2	10-12	36	1	51.6	--	--	
Garst 4612RR/N	None	10-15	44	3	51.5	--	--	
Lewis 3715##	1, 5	10-03	39	1	51.4	--	--	
Mersch. Dallas RR	1, 5	10-14	38	1	51.1	54.5	52.8	
Stine S4542-4	None	10-11	42	1	50.7	--	--	
Mersch. Denver RRSTS	1, 5	10-13	38	1	50.7	52.3	51.5	
Dyna Gro DG37N43	2	10-09	36	1	50.6	--	--	
MFA Morsoy RT 4334N	2	10-09	38	1	49.6	--	--	
Kruger 402 RR/SCN	None	10-08	34	1	47.7	--	--	
MFA Morsoy RT 4503N	2	10-10	40	1	45.1	--	--	
GROUP 4 AVERAGE		10-10	37	1	55.2	54.7	55.0	
L.S.D. AT .10				0	6.3	8.3		
C.V. %					8.1	10.6		
TEST AVERAGE				35	1	53.9	56.9	55.4

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 14. **Glyphosate Resistant Soybean Test**
Central Region: Columbia, MO (Boone County)

Soil Type: Mexico Silt Loam
Soil Test: pH=6.6, OM=1.8%, P=40, K=318

Cyst Nematode Population at Planting: 498 Eggs/250cc of soil
Rainfall: May=4.7, June=1.6, July=4.4, Aug.=5.1, Sept.=1.0 Total=16.8 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
MATURITY GROUP 3							
DEKALB DKB36-52	None	9-20	39	1	59.7**	--	--
NuTech NT-3777+ RR	None	9-19	40	1	58.8*	--	--
Kruger 373 RR	None	9-21	38	1	58.5*	--	--
Willcross RR2362	5	9-20	43	1	57.5*	47.3*	52.4
MFA Morsoy RT 3644N	2	9-19	38	1	57.4*	--	--
NuTech NT-3839 RR	None	9-21	33	1	57.1*	--	--
Mersch. Cleveland VIIRR	1, 5	9-21	30	1	56.8*	33.3	45.1
Kruger 379 RR/SCN	None	9-20	36	1	56.4*	--	--
ASGROW AG3602	None	9-13	38	1	56.3*	--	--
Dyna Gro DG32C38	2	9-20	36	1	56.0*	--	--
MFA Morsoy RT 3804N	2	9-22	36	1	55.9*	--	--
Kruger 375 RR	None	9-21	38	1	55.5	--	--
Willcross RR2383N	5	9-20	35	1	55.4	43.1*	49.3
NuTech NT-3737sc RR/SCN	None	9-18	35	1	55.3	42.4*	48.9
NuTech NT-3999 RR/SCN	None	9-23	40	1	55.3	--	--
Willcross RR2393N	5	9-21	36	2	55.2	35.0	45.1
Kruger 380 RR/SCN	None	9-22	37	1	55.1	39.7	47.4
MFA Morsoy RT 3883N	2	9-19	38	2	55.1	36.0	45.6
Kruger 381 RR/SCN	None	9-21	40	1	54.7	--	--
Dyna Gro DG33A37	2	9-17	35	1	54.6	--	--
ASGROW AG3802	None	9-21	40	1	54.4	--	--
LG Seeds C3999NRR	None	9-20	39	1	54.2	34.5	44.4
NK Brand S39-K6	2	9-22	42	1	54.2	36.5	45.4
MPride/MPV 3903nRR	3, 5	9-21	37	1	54.0	38.3	46.2
Lewis 3944	1, 5	9-23	35	1	53.8	40.9	47.4
Bio Gene BG3703NRR	None	9-16	35	1	53.8	--	--
MFA Morsoy RT 3991N	2	9-23	40	1	53.8	39.5	46.7
DEKALB DKB34-51	None	9-12	37	1	53.8	--	--
Garst 3624RR/N	None	9-20	38	1	53.7	--	--
Dyna Gro DG3390NRR	2	9-22	38	1	53.7	34.6	44.2
Kruger 393 RR/SCN	None	9-20	36	1	53.5	38.1	45.8
Kruger 379+ RR/SCN	7	9-19	39	1	53.4	--	--
Producers Hybrid EX 3138N	None	9-18	35	1	53.4	--	--
Croplan Genetics RC3732	None	9-21	33	1	53.3	--	--
Vigoro V39N4RR	2	9-20	36	1	53.3	--	--
Golden Harvest H-3945RR	None	9-23	42	1	53.2	37.9	45.6
Willcross RR2392NA	5	9-21	36	1	53.2	39.3	46.3
Croplan Genetics RC3939	None	9-22	39	1	53.0	--	--
DEKALB DKB37-51	None	9-19	37	1	53.0	44.5*	48.8
Dyna Gro DG3362NRR	2	9-19	34	1	52.9	--	--
Prairie Brand PB-3921NRR	None	9-22	40	1	52.9	--	--
Pioneer 93M50	None	9-12	41	1	52.8	--	--
Midland 9A373NRR	None	9-17	37	1	52.7	38.6	45.7
Monsanto EXP338ARR	None	9-20	34	1	52.5	--	--
NuTech NT-3737 RR/SCN	None	9-19	39	1	52.5	--	--

TABLE 14. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
				-----bu/acre-----			
NuTech NT-3909sc RR/SCN/S	None	9-21	36	1	52.5	--	--
Stine S3942-4	None	9-20	38	1	52.4	--	--
MPride/MPV 3805nRR	3, 5	9-22	36	1	52.2	--	--
NK Brand S37-N4	2	9-23	40	1	52.1	36.8	44.5
MPride/MPV 3905nRR	3, 5	9-20	43	2	52.0	--	--
Kruger 380+ RR/SCN	None	9-22	36	1	52.0	41.9*	47.0
Kruger 389 RR/SCN	None	9-22	39	1	51.9	--	--
ASGROW AG3906	None	9-21	36	1	51.8	--	--
Willcross RR2392N	5	9-21	39	1	51.8	37.5	44.7
Golden Harvest H-3606RR	None	9-21	37	1	51.7	--	--
Kruger 389+ RR/SCN	7	9-22	39	1	51.7	--	--
MFA Morsoy RT 3712N	2	9-20	37	1	51.6	43.4*	47.5
Lewis 3875	1, 5	9-19	36	1	51.0	39.3	45.2
Prairie Brand PB-3732RR	None	9-18	34	1	50.9	36.4	43.7
Garst 3824RR/N	None	9-21	33	1	50.8	36.8	43.8
Midland 9A375XRR	None	9-21	36	2	50.3	--	--
Midland 9A385NRS	None	9-22	36	1	50.2	--	--
NuTech NT-3909 RR/SCN/STS	None	9-23	36	1	50.2	--	--
DEKALB DKB38-52	None	9-20	35	1	49.9	43.4*	46.7
Mersch. Washington IXRR	1, 5	9-20	36	1	49.8	39.1	44.5
NuTech NT-3922 RR/SCN	None	9-20	37	2	49.5	36.5	43.0
Kruger 328 RR	None	9-10	36	1	47.4	--	--
GROUP 3 AVERAGE		9-20	37	1	53.5	38.9	46.2
L.S.D. AT .10				0	3.8	6.9	
C.V. %					5.0	12.1	
MATURITY GROUP 4							
NuTech NT-4646 RR/SCN	None	10-01	37	2	71.5**	50.6*	61.1
Willcross RR2432N	5	10-02	48	3	69.0*	43.3	56.2
MPride/MPV 4705nRR	3, 5	10-01	44	2	68.3*	--	--
MFA Morsoy RT4731N	2	10-01	42	3	67.9*	51.8*	59.9
Garst 4212RR/N	None	9-24	39	1	67.7*	--	--
Mersch. Rocky RR	1, 5	9-25	40	3	67.5*	--	--
Kruger 404 RR	None	9-20	33	1	66.9*	43.1*	55.0
Prairie Brand PB-5083NRR	None	9-23	39	2	66.5*	--	--
Golden Harvest H-4368RR	None	9-24	31	1	66.4*	43.8	55.1
Prairie Brand PB-4483NRR	None	9-24	36	1	66.0	38.6	52.3
Mersch. Dallas RR	1, 5	10-01	43	3	65.0	50.2*	57.6
Lewis 4106	1, 5	9-24	37	1	64.6	46.3	55.5
MFA Morsoy RT 4114N	2	9-23	42	1	64.6	--	--
MPride/MPV 4404nRR	3, 5	9-29	43	2	64.4	--	--
Willcross RR2484N	5	9-28	38	2	64.4	--	--
Mersch. Austin RR	1, 5	9-23	35	1	64.4	46.3	55.4
MFA Morsoy RT 4480N	2	10-01	50	2	64.3	45.1	54.7
NuTech NT-4414 RR/SCN/STS	None	9-24	33	1	64.3	--	--
MFA Morsoy RT 4124N	2	9-24	44	2	63.9	--	--
Lewis 3715##	1, 5	9-22	38	2	63.9	--	--
Garst 4612RR/N	None	10-02	40	2	63.8	--	--
NK Brand S43-B1	2	9-26	40	2	63.3	44.4	53.9
MFA Morsoy RT 4201N	2	9-26	38	1	63.0	45.4	54.2
Midland 9A402NRR	None	9-28	38	2	62.7	--	--
NuTech NT-ex4120+ RR/SCN	None	9-23	32	1	62.7	--	--

TABLE 14. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Vigoro V42N3RR	2	9-22	30	1	62.7	--	--
Mersch. Denver RRSTS	1, 5	9-30	45	2	62.6	47.1	54.9
Mersch. Phoenix IIIRR	1, 5	9-22	31	1	62.5	47.8	55.2
MFA Morsoy RT 4683N	2	9-26	40	2	61.9	--	--
Willcross RR2474N	5	9-21	36	1	61.3	55.1**	58.2
Stine S4842-4	None	9-24	40	2	61.2	--	--
MFA Morsoy RT 4402N	2	9-24	32	1	61.2	40.3	50.8
Prairie Brand PB-4023NRR	None	9-22	34	1	61.2	--	--
Bio Gene BG4200NRRST	None	9-22	33	1	61.0	--	--
Renze R4695Rcn	None	9-26	39	1	60.9	--	--
NuTech NT-4747 RR/SCN	None	9-26	40	3	60.6	--	--
Kruger 442 RR/SCN	None	9-26	33	1	60.4	--	--
Kruger 402 RR/SCN	None	9-29	42	2	59.9	--	--
MFA Morsoy RT 4334N	2	9-26	42	2	58.5	--	--
NuTech NT-ex3920RR/SCN	None	9-22	38	2	57.7	--	--
Kruger 434 RR/SCN	None	9-29	44	2	57.6	--	--
MFA Morsoy RT 4044N	2	9-28	39	2	57.2	--	--
Dyna Gro DG37N43	2	9-26	39	2	57.2	--	--
ASGROW AG4102	None	9-21	36	1	57.1	--	--
MPride/MPV 4305nRR	3, 5	9-26	39	2	57.0	--	--
Dyna Gro DG35B40	2	9-25	39	1	57.0	--	--
NuTech NT-4040 RR/SCN	None	9-28	37	1	56.3	--	--
Stine S3932-4	None	9-22	39	2	55.6	46.0*	50.8
Prairie Brand PB-4394NRR	None	9-26	41	1	54.4	--	--
MFA Morsoy RT 4503N	2	9-23	48	2	53.5	--	--
Stine S4542-4	None	9-28	45	3	50.8	--	--
GROUP 4 AVERAGE		9-26	39	2	62.0	44.5	53.3
L.S.D. AT .10				0	5.3	5.5	
C.V. %					5.9	8.4	
TEST AVERAGE			38	1	57.2	41.5	49.3

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 15. **Glyphosate Resistant Soybean Test**
Central Region: Truxton, MO (Montgomery County)

Soil Type: Mexico Silt Loam
Soil Test: pH=5.7, OM=2.0%, P=80, K=255

Cyst Nematode Population at Planting: 0 Eggs/250cc of soil
Rainfall: May=5.8, June=1.9, July=5.5, Aug.=8.3, Sept.=2.0 Total=23.5 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
MATURITY GROUP 3							
MFA Morsoy RT 3804N	2	9-23	36	1	64.8**	--	--
NuTech NT-3777+ RR	None	9-23	34	1	64.7*	--	--
NK Brand S39-K6	2	9-23	36	1	62.5*	41.9	52.2
Dyna Gro DG32C38	2	9-23	33	1	62.0*	--	--
Kruger 389+ RR/SCN	7	9-24	32	1	61.9*	--	--
Pioneer 93M50	None	9-20	37	1	61.1*	--	--
DEKALB DKB37-51	None	9-21	30	1	60.7*	41.5	51.1
NuTech NT-3909sc RR/SCN/S	None	9-24	32	1	60.5*	--	--
Golden Harvest H-3606RR	None	9-22	33	1	60.3*	--	--
Mersch. Cleveland VIIRR	1, 5	9-25	30	1	60.2*	48.3	54.3
Kruger 373 RR	None	9-25	33	1	60.0*	--	--
Monsanto EXP338ARR	None	9-24	30	1	59.9*	--	--
NuTech NT-3909 RR/SCN/STS	None	9-23	26	1	59.7*	--	--
Willcross RR2393N	5	9-28	36	1	59.6*	46.5	53.1
Willcross RR2383N	5	9-24	30	1	59.2*	42.9	51.1
Garst 3824RR/N	None	9-22	34	1	58.9*	40.5	49.7
Kruger 389 RR/SCN	None	9-23	29	1	58.8*	--	--
Dyna Gro DG33A37	2	9-23	32	1	58.8*	--	--
Bio Gene BG3703NRR	None	9-22	37	2	58.7*	--	--
DEKALB DKB36-52	None	9-22	32	1	57.9*	--	--
MFA Morsoy RT 3991N	2	9-22	31	1	57.8	46.4	52.1
MPride/MPV 3805nRR	3, 5	9-24	35	1	57.7	--	--
DEKALB DKB34-51	None	9-21	36	1	57.7	--	--
NK Brand S37-N4	2	9-26	40	1	57.6	45.1	51.4
Willcross RR2362	5	9-27	33	1	57.6	45.2	51.4
Midland 9A373NRR	None	9-24	32	1	57.5	43.1	50.3
Vigoro V39N4RR	2	9-26	35	1	57.0	--	--
MPride/MPV 3903nRR	3, 5	9-24	33	1	57.0	50.4*	53.7
Kruger 379+ RR/SCN	7	9-23	36	1	57.0	--	--
Lewis 3875	1, 5	9-23	35	1	56.8	47.4	52.1
NuTech NT-3737 RR/SCN	None	9-22	36	2	56.5	--	--
Kruger 379 RR/SCN	None	9-23	34	2	56.4	--	--
Garst 3624RR/N	None	9-22	35	1	56.3	--	--
Dyna Gro DG3390NRR	2	9-24	30	1	56.2	44.4	50.3
DEKALB DKB38-52	None	9-23	33	1	56.2	40.9	48.6
ASGROW AG3602	None	9-20	34	1	55.9	--	--
Kruger 380 RR/SCN	None	9-22	36	1	55.4	45.8	50.6
Kruger 375 RR	None	9-25	27	1	55.2	--	--
NuTech NT-3737sc RR/SCN	None	9-22	29	1	55.2	39.6	47.4
LG Seeds C3999NRR	None	9-23	36	1	54.9	51.1*	53.0
Midland 9A385NRS	None	9-25	27	1	54.5	--	--
MFA Morsoy RT 3883N	2	9-27	34	1	54.5	54.3**	54.4
Dyna Gro DG3362NRR	2	9-24	30	1	54.4	--	--
ASGROW AG3906	None	9-25	30	1	54.3	--	--
NuTech NT-3839 RR	None	9-25	30	1	54.2	--	--

TABLE 15. Continued.

Brand-Variety	Seed Treatment †	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
				-----bu/acre-----			
Willcross RR2392N	5	9-24	33	1	54.1	34.9	44.5
Golden Harvest H-3945RR	None	9-24	31	1	54.1	46.6	50.4
MFA Morsoy RT 3712N	2	9-22	31	1	54.1	47.7	50.9
Kruger 380+ RR/SCN	None	9-22	31	1	54.0	47.6	50.8
NuTech NT-3999 RR/SCN	None	9-23	36	1	54.0	--	--
Croplan Genetics RC3939	None	9-23	30	1	53.9	--	--
Kruger 393 RR/SCN	None	9-24	36	1	53.5	49.8*	51.7
Prairie Brand PB-3732RR	None	9-21	33	1	52.8	38.5	45.7
Mersch. Washington IXRR	1, 5	9-25	33	1	52.1	48.9*	50.5
MPride/MPV 3905nRR	3, 5	9-25	42	2	51.8	--	--
Prairie Brand PB-3921NRR	None	9-22	33	1	51.3	--	--
ASGROW AG3802	None	9-26	39	1	51.0	--	--
Producers Hybrid EX 3138N	None	9-23	29	1	50.9	--	--
MFA Morsoy RT 3644N	2	9-23	37	2	50.5	--	--
Willcross RR2392NA	5	9-29	35	1	50.3	44.6	47.5
Lewis 3944	1, 5	9-26	30	1	50.2	42.8	46.5
Kruger 328 RR	None	9-17	32	1	48.0	--	--
NuTech NT-3922 RR/SCN	None	9-27	36	1	48.0	45.0	46.5
Stine S3942-4	None	9-25	31	1	47.2	--	--
Kruger 381 RR/SCN	None	9-24	36	1	45.7	--	--
Croplan Genetics RC3732	None	9-25	33	1	45.2	--	--
Midland 9A375XRR	None	9-25	31	1	37.9	--	--
GROUP 3 AVERAGE		9-24	33	1	55.6	43.6	49.6
L.S.D. AT .10					6.9	5.6	
C.V. %					9.1	9.1	
MATURITY GROUP 4							
MFA Morsoy RT4731N	2	9-30	41	2	61.4**	51.5**	56.5
MFA Morsoy RT 4683N	2	9-28	34	1	60.4*	--	--
Mersch. Dallas RR	1, 5	10-01	36	1	60.0*	42.8	51.4
Kruger 404 RR	None	9-27	30	1	60.0*	47.5	53.8
Renze R4695Rcn	None	9-28	30	1	60.0*	--	--
Prairie Brand PB-5083NRR	None	10-01	36	2	59.9*	--	--
Lewis 3715##	1, 5	9-20	36	1	58.5*	--	--
Garst 4612RR/N	None	10-01	39	2	58.1*	--	--
ASGROW AG4102	None	9-28	35	1	57.0*	--	--
Vigoro V42N3RR	2	9-27	31	1	56.9*	--	--
MFA Morsoy RT 4114N	2	9-24	36	1	56.9*	--	--
MPride/MPV 4404nRR	3, 5	9-30	39	1	56.8*	--	--
MFA Morsoy RT 4334N	2	9-30	36	1	56.5*	--	--
MPride/MPV 4705nRR	3, 5	9-30	38	2	56.4*	--	--
Prairie Brand PB-4394NRR	None	9-30	37	1	56.3*	--	--
NuTech NT-4747 RR/SCN	None	9-30	39	3	56.2*	--	--
NuTech NT-ex4120+ RR/SCN	None	9-27	32	1	56.1*	--	--
Willcross RR2484N	5	9-30	36	1	56.1*	--	--
NK Brand S43-B1	2	9-23	34	1	55.5	46.1*	50.8
Mersch. Rocky RR	1, 5	9-29	36	2	55.5	--	--
Mersch. Austin RR	1, 5	9-30	31	1	55.4	42.9	49.2
MFA Morsoy RT 4124N	2	9-22	40	1	54.4	--	--
NuTech NT-ex3920RR/SCN	None	9-23	36	1	54.2	--	--
MFA Morsoy RT 4402N	2	9-28	33	1	54.2	47.4*	50.8
Willcross RR2474N	5	9-28	28	1	53.7	46.2*	50.0

TABLE 15. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
					-----bu/acre-----		
Mersch. Phoenix IIRR	1, 5	9-29	32	1	52.9	47.0*	50.0
Bio Gene BG4200NRRST	None	9-30	30	1	52.8	--	--
Kruger 442 RR/SCN	None	10-02	30	1	52.8	--	--
MFA Morsoy RT 4480N	2	9-29	37	1	52.7	43.9	48.3
Midland 9A402NRR	None	9-29	33	1	52.7	--	--
NuTech NT-4040 RR/SCN	None	9-30	35	1	52.1	--	--
NuTech NT-4414 RR/SCN/STS	None	10-01	33	1	51.8	--	--
Stine S4842-4	None	9-30	33	2	51.8	--	--
NuTech NT-4646 RR/SCN	None	10-02	35	1	51.6	46.4*	49.0
Stine S4542-4	None	9-28	36	1	51.5	--	--
Kruger 402 RR/SCN	None	10-01	36	1	49.8	--	--
Garst 4212RR/N	None	10-02	30	1	49.7	--	--
MPride/MPV 4305nRR	3, 5	9-30	38	1	49.5	--	--
MFA Morsoy RT 4044N	2	10-01	35	1	49.5	--	--
Kruger 434 RR/SCN	None	9-29	36	1	48.7	--	--
Dyna Gro DG37N43	2	9-30	34	1	48.4	--	--
Mersch. Denver RRSTS	1, 5	9-30	40	2	47.9	46.8*	47.4
Dyna Gro DG35B40	2	9-30	36	1	47.9	--	--
Stine S3932-4	None	9-24	36	1	47.7	41.6	44.7
MFA Morsoy RT 4503N	2	9-28	36	1	47.5	--	--
Willcross RR2432N	5	10-01	35	1	46.6	38.3	42.5
Lewis 4106	1, 5	9-29	30	1	45.6	40.8	43.2
MFA Morsoy RT 4201N	2	9-30	28	1	44.1	46.5*	45.3
Golden Harvest H-4368RR	None	9-29	32	1	42.8	43.6	43.2
Prairie Brand PB-4023NRR	None	10-01	32	1	36.6	--	--
Prairie Brand PB-4483NRR	None	9-30	28	1	35.6	36.6	36.1
GROUP 4 AVERAGE		9-29	34	1	52.7	43.2	48.0
L.S.D. AT .10					5.7	5.4	
C.V. %					7.7	8.7	
TEST AVERAGE			34	1	54.3	43.4	48.9

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 16. **Glyphosate Resistant Soybean Test**
Central Region: Annada, MO (Pike County)

Soil Type: Tice Silt Loam
Soil Test: pH=6.2, OM=1.9%, P=87, K=225

Cyst Nematode Population at Planting: 250 Eggs/250cc of soil
Rainfall: May=8.3, June=1.0, July=4.2, Aug.=5.9, Sept.=1.8 Total=21.2 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
							-----bu/acre-----
MATURITY GROUP 3							
Kruger 373 RR	None	9-24	45	3	60.2**	--	--
ASGROW AG3602	None	9-23	46	2	56.7*	--	--
NuTech NT-3777+ RR	None	9-25	44	3	56.7*	--	--
Willcross RR2393N	5	9-26	42	3	55.1*	57.4*	56.3
ASGROW AG3906	None	9-28	39	2	55.0*	--	--
Kruger 381 RR/SCN	None	9-24	48	2	54.7*	--	--
Willcross RR2383N	5	9-30	43	4	54.1	50.3	52.2
Kruger 328 RR	None	9-17	44	3	54.0	--	--
NK Brand S37-N4	2	9-28	48	2	53.8	55.6	54.7
ASGROW AG3802	None	9-23	44	2	53.7	--	--
Mersch. Washington IXRR	1, 5	9-29	45	3	52.7	56.3	54.5
MFA Morsoy RT 3804N	2	9-28	45	3	52.6	--	--
Pioneer 93M50	None	9-21	51	3	52.2	--	--
NuTech NT-3839 RR	None	9-25	40	4	51.8	--	--
MFA Morsoy RT 3883N	2	9-25	44	3	51.7	54.4	53.1
Stine S3942-4	None	9-28	43	2	51.7	--	--
NuTech NT-3922 RR/SCN	None	9-28	41	4	51.6	56.7	54.2
NuTech NT-3737 RR/SCN	None	9-23	44	2	51.4	--	--
MPride/MPV 3903nRR	3, 5	9-26	43	2	51.4	56.0	53.7
Kruger 380+ RR/SCN	None	9-27	44	2	51.3	52.0	51.7
Kruger 393 RR/SCN	None	9-27	39	2	51.1	51.9	51.5
Kruger 380 RR/SCN	None	9-28	43	3	51.0	57.4*	54.2
MFA Morsoy RT 3644N	2	9-23	48	3	51.0	--	--
NuTech NT-3909 RR/SCN/STS	None	9-28	44	3	50.9	--	--
Dyna Gro DG32C38	2	9-24	42	2	50.7	--	--
NuTech NT-3909sc RR/SCN/S	None	9-28	43	2	50.7	--	--
LG Seeds C3999NRR	None	9-22	40	3	50.2	56.1	53.2
Dyna Gro DG3362NRR	2	9-25	41	4	50.2	--	--
Mersch. Cleveland VIIRR	1, 5	9-25	42	4	50.0	47.4	48.7
DEKALB DKB36-52	None	9-23	45	2	49.9	--	--
Monsanto EXP338ARR	None	9-28	43	2	49.8	--	--
Vigoro V39N4RR	2	9-27	43	3	49.1	--	--
DEKALB DKB34-51	None	9-19	43	4	49.1	--	--
MPride/MPV 3805nRR	3, 5	9-25	43	2	49.1	--	--
Willcross RR2362	5	9-28	42	4	49.1	50.4	49.8
Kruger 379+ RR/SCN	7	9-23	40	3	49.0	--	--
Croplan Genetics RC3939	None	9-29	47	2	48.4	--	--
DEKALB DKB38-52	None	9-24	44	2	48.1	52.5	50.3
Producers Hybrid EX 3138N	None	9-23	40	3	48.1	--	--
Golden Harvest H-3606RR	None	9-23	44	3	48.1	--	--
Golden Harvest H-3945RR	None	9-24	42	2	48.0	53.1	50.6
Lewis 3875	1, 5	9-26	41	3	47.8	57.9*	52.9
Midland 9A385NRS	None	9-28	47	3	47.7	--	--
Prairie Brand PB-3732RR	None	9-23	45	4	47.7	58.4*	53.1
Garst 3624RR/N	None	9-22	45	3	47.4	--	--

TABLE 16. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MFA Morsoy RT 3991N	2	9-23	44	2	47.1	55.5	51.3
Dyna Gro DG3390NRR	2	9-24	43	3	46.9	49.4	48.2
Garst 3824RR/N	None	9-23	45	3	46.6	50.2	48.4
NuTech NT-3999 RR/SCN	None	9-26	45	3	46.6	--	--
MFA Morsoy RT 3712N	2	9-22	43	3	46.6	54.2	50.4
Willcross RR2392NA	5	9-28	46	3	46.4	54.3	50.4
Kruger 389 RR/SCN	None	9-22	41	3	46.3	--	--
Lewis 3944	1, 5	9-23	45	2	45.5	53.6	49.6
Kruger 375 RR	None	9-24	44	4	45.5	--	--
DEKALB DKB37-51	None	9-23	44	3	45.2	59.0*	52.1
MPride/MPV 3905nRR	3, 5	9-27	45	3	45.2	--	--
Willcross RR2392N	5	9-26	44	3	44.4	49.0	46.7
NuTech NT-3737sc RR/SCN	None	9-23	42	2	44.2	53.0	48.6
Kruger 389+ RR/SCN	7	9-29	46	3	44.0	--	--
Croplan Genetics RC3732	None	9-23	44	3	44.0	--	--
Bio Gene BG3703NRR	None	9-20	40	2	43.0	--	--
Prairie Brand PB-3921NRR	None	9-22	42	3	42.4	--	--
Dyna Gro DG33A37	2	9-21	41	3	42.2	--	--
Midland 9A373NRR	None	9-22	44	3	41.9	61.9**	51.9
Midland 9A375XRR	None	9-27	45	4	41.7	--	--
Kruger 379 RR/SCN	None	9-24	44	3	40.9	--	--
NK Brand S39-K6	2	9-24	46	3	40.0	46.4	43.2
GROUP 3 AVERAGE		9-25	44	3	49.0	53.2	51.1
L.S.D. AT .10					6.1	4.7	
C.V. %					8.7	6.2	
MATURITY GROUP 4							
NuTech NT-4414 RR/SCN/STS	None	9-29	42	2	59.1**	--	--
MFA Morsoy RT 4114N	2	9-27	48	1	58.6*	--	--
Garst 4212RR/N	None	9-28	45	2	56.2*	--	--
Mersch. Phoenix IIIRR	1, 5	9-27	40	3	56.0*	58.5*	57.3
Bio Gene BG4200NRRST	None	9-24	40	1	55.3*	--	--
MFA Morsoy RT 4683N	2	9-30	39	3	55.3*	--	--
Prairie Brand PB-4023NRR	None	9-27	39	1	55.2*	--	--
Vigoro V42N3RR	2	9-27	44	2	54.7*	--	--
Mersch. Rocky RR	1, 5	10-01	45	4	54.2*	--	--
NuTech NT-ex4120+ RR/SCN	None	9-24	43	2	53.8*	--	--
Willcross RR2432N	5	10-01	48	3	53.8*	49.2	51.5
Dyna Gro DG35B40	2	9-30	42	4	53.4*	--	--
Kruger 442 RR/SCN	None	9-29	43	2	52.9*	--	--
NK Brand S43-B1	2	9-27	44	2	52.5*	46.4	49.5
MFA Morsoy RT 4201N	2	9-30	47	2	52.1*	62.6*	57.4
Golden Harvest H-4368RR	None	9-28	43	2	51.9*	59.5*	55.7
MFA Morsoy RT 4402N	2	9-27	40	2	51.6*	57.0	54.3
Prairie Brand PB-4483NRR	None	9-25	39	3	51.4*	55.6	53.5
Garst 4612RR/N	None	10-04	47	4	51.1*	--	--
NuTech NT-4747 RR/SCN	None	10-02	47	4	51.0*	--	--
MPride/MPV 4404nRR	3, 5	9-30	49	3	51.0*	--	--
Stine S3932-4	None	9-24	37	4	50.9*	52.7	51.8
Kruger 404 RR	None	9-23	43	4	50.7*	48.4	49.6
Mersch. Austin RR	1, 5	9-27	40	3	49.8	57.1	53.5
Stine S4842-4	None	10-01	43	4	49.1	--	--

TABLE 16. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Lewis 4106	1, 5	9-24	43	2	49.1	63.7**	56.4
NuTech NT-4040 RR/SCN	None	9-30	42	3	49.1	--	--
Willcross RR2474N	5	9-27	39	4	49.0	58.5*	53.8
MFA Morsoy RT 4480N	2	10-01	48	4	48.8	46.4	47.6
MFA Morsoy RT 4044N	2	10-02	53	3	48.8	--	--
MFA Morsoy RT 4334N	2	9-28	45	2	48.5	--	--
Mersch. Dallas RR	1, 5	10-03	45	4	48.4	47.8	48.1
Renze R4695Rcn	None	9-28	42	2	48.1	--	--
NuTech NT-ex3920RR/SCN	None	9-21	40	3	47.9	--	--
MFA Morsoy RT 4124N	2	9-25	49	2	47.5	--	--
Dyna Gro DG37N43	2	10-01	44	4	47.2	--	--
Mersch. Denver RRSTS	1, 5	10-04	48	4	46.7	48.8	47.8
Prairie Brand PB-5083NRR	None	9-29	45	4	46.5	--	--
MFA Morsoy RT4731N	2	10-01	45	3	46.5	55.1	50.8
MPride/MPV 4305nRR	3, 5	10-02	45	3	45.9	--	--
Midland 9A402NRR	None	9-27	39	4	45.4	--	--
Kruger 434 RR/SCN	None	9-30	47	3	45.0	--	--
NuTech NT-4646 RR/SCN	None	9-24	44	4	44.7	55.3	50.0
MFA Morsoy RT 4503N	2	9-28	48	3	44.2	--	--
Prairie Brand PB-4394NRR	None	9-25	45	3	44.1	--	--
Willcross RR2484N	5	9-29	44	4	43.4	--	--
Stine S4542-4	None	10-01	45	4	42.8	--	--
Lewis 3715##	1, 5	9-22	45	4	40.9	--	--
Kruger 402 RR/SCN	None	9-28	45	4	39.8	--	--
MPride/MPV 4705nRR	3, 5	9-23	46	4	39.2	--	--
ASGROW AG4102	None	9-27	45	2	39.0	--	--
GROUP 4 AVERAGE		9-28	44	3	49.4	54.4	51.9
L.S.D. AT .10					8.7	5.2	
C.V. %					12.4	6.6	
TEST AVERAGE			44	3	49.1	53.8	51.5

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 17. Performance Summary for Glyphosate Resistant Varieties evaluated at Five Central Missouri locations (Henrietta, Grand Pass, Columbia, Truxton, Annada) during 2004.

<u>Henrietta</u> Planted: 05-06 Harvested: 10-04 Growing Season Rainfall: 24.7 in.	<u>Grand Pass</u> Planted: 06-03 Harvested: 11-08 Growing Season Rainfall: 27.2 in.	<u>Columbia</u> Planted: 04-28 Harvested: 09-27, 10-06 Growing Season Rainfall: 16.8 in.
<u>Truxton</u> Planted: 05-13 Harvested: 10-31, 11-07 Growing Season Rainfall: 23.5 in.	<u>Annada</u> Planted: 05-18 Harvested: 10-06 Growing Season Rainfall: 21.2 in.	

Brand-Variety	Yield (Bu/Acre)					Mean
	Henrietta	Grand Pass	Columbia	Truxton	Annada	
MATURITY GROUP 3						
NuTech NT-3777+ RR	66.2**	59.6*	58.8*	64.7*	56.7*	61.2**
Kruger 373 RR	60.9*	60.1*	58.5*	60.0*	60.2**	59.9*
Willcross RR2383N	65.9*	58.8*	55.4	59.2*	54.1	58.7*
Mersch. Cleveland VIIRR	60.7*	61.6*	56.8*	60.2*	50.0	57.8
ASGROW AG3906	62.9*	59.5*	51.8	54.3	55.0*	56.7
DEKALB DKB36-52	59.0*	56.5	59.7**	57.9*	49.9	56.6
Willcross RR2362	57.2*	59.5*	57.5*	57.6	49.1	56.2
ASGROW AG3602	50.6	59.7*	56.3*	55.9	56.7*	55.8
DEKALB DKB34-51	55.1	62.4**	53.8	57.7	49.1	55.6
Willcross RR2393N	55.1	52.6	55.2	59.6*	55.1*	55.5
Dyna Gro DG32C38	58.4*	49.3	56.0*	62.0*	50.7	55.3
Pioneer 93M50	51.5	58.4*	52.8	61.1*	52.2	55.2
Kruger 375 RR	58.3*	60.5*	55.5	55.2	45.5	55.0
NuTech NT-3839 RR	50.7	61.2*	57.1*	54.2	51.8	55.0
Kruger 381 RR/SCN	66.0*	53.5	54.7	45.7	54.7*	54.9
MFA Morsoy RT 3804N	50.7	49.6	55.9*	64.8**	52.6	54.7
Vigoro V39N4RR	61.4*	52.5	53.3	57.0	49.1	54.6
ASGROW AG3802	59.8*	51.2	54.4	51.0	53.7	54.0
NuTech NT-3909 RR/SCN/STS	60.8*	47.9	50.2	59.7*	50.9	53.9
Kruger 380+ RR/SCN	58.7*	53.5	52.0	54.0	51.3	53.9
Monsanto EXP338ARR	58.1*	49.0	52.5	59.9*	49.8	53.8
MFA Morsoy RT 3883N	54.2	53.4	55.1	54.5	51.7	53.8
Dyna Gro DG3362NRR	52.6	57.5	52.9	54.4	50.2	53.5
Kruger 393 RR/SCN	57.0*	52.2	53.5	53.5	51.1	53.4
Lewis 3875	57.6*	53.9	51.0	56.8	47.8	53.4
LG Seeds C3999NRR	53.9	53.0	54.2	54.9	50.2	53.2
NuTech NT-3909sc RR/SCN/S	53.9	47.1	52.5	60.5*	50.7	52.9
Kruger 328 RR	57.9*	57.2	47.4	48.0	54.0	52.9
MPride/MPV 3805nRR	56.2	48.9	52.2	57.7	49.1	52.8
Mersch. Washington IXRR	56.7	52.8	49.8	52.1	52.7	52.8
NuTech NT-3922 RR/SCN	59.6*	54.8	49.5	48.0	51.6	52.7
NuTech NT-3737 RR/SCN	46.0	55.4	52.5	56.5	51.4	52.4
MPride/MPV 3903nRR	49.7	49.6	54.0	57.0	51.4	52.3
MFA Morsoy RT 3644N	50.0	52.7	57.4*	50.5	51.0	52.3
NK Brand S37-N4	52.8	45.1	52.1	57.6	53.8	52.3
Dyna Gro DG33A37	50.9	54.8	54.6	58.8*	42.2	52.2
DEKALB DKB38-52	53.3	53.7	49.9	56.2	48.1	52.2
Stine S3942-4	55.5	54.2	52.4	47.2	51.7	52.2
NuTech NT-3999 RR/SCN	55.0	49.9	55.3	54.0	46.6	52.2
Kruger 389 RR/SCN	55.3	47.6	51.9	58.8*	46.3	52.0

Table 17. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Henrietta	Grand Pass	Columbia	Truxton	Annada	
MFA Morsoy RT 3991N	53.3	47.3	53.8	57.8	47.1	51.8
Dyna Gro DG3390NRR	50.7	50.0	53.7	56.2	46.9	51.5
Garst 3624RR/N	45.3	54.4	53.7	56.3	47.4	51.4
Golden Harvest H-3945RR	50.8	51.0	53.2	54.1	48.0	51.4
Garst 3824RR/N	51.8	48.9	50.8	58.9*	46.6	51.4
Kruger 380 RR/SCN	46.2	49.0	55.1	55.4	51.0	51.3
Kruger 379+ RR/SCN	40.6	55.4	53.4	57.0	49.0	51.1
Golden Harvest H-3606RR	40.2	54.4	51.7	60.3*	48.1	50.9
Kruger 389+ RR/SCN	48.9	47.8	51.7	61.9*	44.0	50.9
Midland 9A373NRR	42.7	59.0*	52.7	57.5	41.9	50.8
DEKALB DKB37-51	41.8	52.5	53.0	60.7*	45.2	50.6
Midland 9A385NRS	54.9	45.0	50.2	54.5	47.7	50.5
Producers Hybrid EX 3138N	46.0	53.6	53.4	50.9	48.1	50.4
Willcross RR2392NA	51.3	50.8	53.2	50.3	46.4	50.4
Croplan Genetics RC3939	50.1	46.3	53.0	53.9	48.4	50.3
NuTech NT-3737sc RR/SCN	44.1	52.2	55.3	55.2	44.2	50.2
Bio Gene BG3703NRR	42.9	52.6	53.8	58.7*	43.0	50.2
NK Brand S39-K6	41.2	52.7	54.2	62.5*	40.0	50.1
MFA Morsoy RT 3712N	45.8	52.4	51.6	54.1	46.6	50.1
Prairie Brand PB-3732RR	48.9	49.3	50.9	52.8	47.7	49.9
Kruger 379 RR/SCN	43.3	52.2	56.4*	56.4	40.9	49.8
Willcross RR2392N	52.3	46.4	51.8	54.1	44.4	49.8
Lewis 3944	48.5	48.8	53.8	50.2	45.5	49.4
Prairie Brand PB-3921NRR	43.7	49.8	52.9	51.3	42.4	48.0
Croplan Genetics RC3732	43.0	52.7	53.3	45.2	44.0	47.6
Midland 9A375XRR	47.9	53.6	50.3	37.9	41.7	46.3
MPride/MPV 3905nRR	35.2	46.8	52.0	51.8	45.2	46.2
GROUP 3 AVERAGE	52.4	52.9	53.5	55.6	49.0	52.7
L.S.D. AT .10	9.3	4.8	3.8	6.9	6.1	2.9
C.V. %	12.3	6.3	5.0	9.1	8.7	8.3
MATURITY GROUP 4						
Kruger 404 RR	64.7*	62.1*	66.9*	60.0*	50.7*	60.9**
Garst 4212RR/N	65.2**	60.9*	67.7*	49.7	56.2*	59.9*
MFA Morsoy RT 4683N	58.0*	61.7*	61.9	60.4*	55.3*	59.5*
Vigoro V42N3RR	63.7*	58.7*	62.7	56.9*	54.7*	59.3*
Mersch. Rocky RR	50.8	63.8**	67.5*	55.5	54.2*	58.4*
MFA Morsoy RT 4114N	54.9	55.8	64.6	56.9*	58.6*	58.2*
MPride/MPV 4404nRR	62.6*	55.7	64.4	56.8*	51.0*	58.1*
NuTech NT-4414 RR/SCN/STS	57.1*	57.6*	64.3	51.8	59.1**	58.0*
Bio Gene BG4200NRRST	61.1*	58.8*	61.0	52.8	55.3*	57.8*
MFA Morsoy RT4731N	55.7*	56.8	67.9*	61.4**	46.5	57.7*
MFA Morsoy RT 4480N	62.1*	59.4*	64.3	52.7	48.8	57.5*
Mersch. Austin RR	62.2*	54.4	64.4	55.4	49.8	57.2
NK Brand S43-B1	56.0*	58.0*	63.3	55.5	52.5*	57.0
Mersch. Phoenix IIIR	60.3*	53.1	62.5	52.9	56.0*	57.0
Willcross RR2432N	56.9*	58.1*	69.0*	46.6	53.8*	56.9
Willcross RR2474N	62.9*	57.4	61.3	53.7	49.0	56.9
Golden Harvest H-4368RR	64.4*	58.2*	66.4*	42.8	51.9*	56.7
MFA Morsoy RT 4402N	58.7*	57.5*	61.2	54.2	51.6*	56.6

Table 17. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Henrietta	Grand Pass	Columbia	Truxton	Annada	
Prairie Brand PB-5083NRR	55.2*	53.9	66.5*	59.9*	46.5	56.4
NuTech NT-4646 RR/SCN	55.0	59.2*	71.5**	51.6	44.7	56.4
NuTech NT-ex4120+ RR/SCN	51.6	57.4	62.7	56.1*	53.8*	56.3
NuTech NT-4747 RR/SCN	54.0	59.3*	60.6	56.2*	51.0*	56.2
Mersch. Dallas RR	53.0	51.1	65.0	60.0*	48.4	55.5
Kruger 442 RR/SCN	56.7*	54.5	60.4	52.8	52.9*	55.5
MFA Morsoy RT 4124N	56.7*	52.6	63.9	54.4	47.5	55.0
Midland 9A402NRR	55.6*	57.4	62.7	52.7	45.4	54.8
Renze R4695Rcn	50.8	53.9	60.9	60.0*	48.1	54.7
Garst 4612RR/N	48.1	51.5	63.8	58.1*	51.1*	54.5
Willcross RR2484N	54.1	53.3	64.4	56.1*	43.4	54.2
Lewis 4106	52.2	59.0*	64.6	45.6	49.1	54.1
MFA Morsoy RT 4201N	55.1	56.0	63.0	44.1	52.1*	54.0
NuTech NT-ex3920RR/SCN	53.6	56.5	57.7	54.2	47.9	54.0
NuTech NT-4040 RR/SCN	56.5*	55.5	56.3	52.1	49.1	53.9
Prairie Brand PB-4483NRR	58.0*	57.6*	66.0	35.6	51.4*	53.7
MFA Morsoy RT 4044N	57.0*	52.5	57.2	49.5	48.8	53.0
Mersch. Denver RRSTS	57.0*	50.7	62.6	47.9	46.7	53.0
Prairie Brand PB-4023NRR	58.3*	53.4	61.2	36.6	55.2*	52.9
Stine S4842-4	47.1	53.4	61.2	51.8	49.1	52.5
Dyna Gro DG35B40	51.3	51.6	57.0	47.9	53.4*	52.2
Stine S3932-4	51.7	55.2	55.6	47.7	50.9*	52.2
Prairie Brand PB-4394NRR	49.5	56.7	54.4	56.3*	44.1	52.2
MPride/MPV 4705nRR	41.6	53.2	68.3*	56.4*	39.2	51.7
Lewis 3715##	43.5	51.4	63.9	58.5*	40.9	51.6
ASGROW AG4102	48.2	53.3	57.1	57.0*	39.0	50.9
MFA Morsoy RT 4334N	39.4	49.6	58.5	56.5*	48.5	50.5
Dyna Gro DG37N43	47.5	50.6	57.2	48.4	47.2	50.2
MPride/MPV 4305nRR	46.2	51.7	57.0	49.5	45.9	50.1
Kruger 402 RR/SCN	48.7	47.7	59.9	49.8	39.8	49.2
Kruger 434 RR/SCN	39.9	52.5	57.6	48.7	45.0	48.7
MFA Morsoy RT 4503N	47.2	45.1	53.5	47.5	44.2	47.5
Stine S4542-4	41.4	50.7	50.8	51.5	42.8	47.4
GROUP 4 AVERAGE	54.1	55.2	62.0	52.7	49.4	54.7
L.S.D. AT .10	10.0	6.3	5.3	5.7	8.7	3.3
C.V. %	12.7	8.1	5.9	7.7	12.4	9.4
TEST AVERAGE	53.1	53.9	57.2	54.3	49.1	53.5

** Highest yielding variety in the maturity group.

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

Note: To view seed treatments for these varieties refer to the location table or the characteristics chart.

Southwest Region Crop Management Summary

There are five locations in the southwestern region of Missouri for glyphosate resistant and non-glyphosate resistant / special trait soybean tests. They are located in counties where a significant number of acres of soybean are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary from location to location, but tend to reflect those followed by farmers in the area.

Planting dates were May 7 to June 3 with soil conditions being very good at all locations. Growing season rainfall and temperatures were near normal for the season. The tests at Harrisonville and Urich have not been harvested yet due to excessively wet field conditions. If weather permits, these two locations will be harvested later this fall and results from the tests will be available online at our website. Yields at the other three southwest locations were normal or above normal although some disease and insect pressure was present.

Climatological information for the growing season for Southwest Missouri (May 1 – September 30) is summarized below.

Average temperature = 71.0 degrees, 1.5 degrees below normal

Average precipitation = 22.5", 0.5" above normal

Table 18. Southwest Region Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide	
			N	P ₂ O ₅	K ₂ O		Pre	Post
<i>Glyphosate Resistant Soybean Tests</i>								
Adrian	05-07	10-25	0	0	0	Conv.	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Roundup WeatherMax
Nevada	06-03	10-25, 11-09	0	70	90	Conv.	Dual II Magnum, Authority, FirstRate	Roundup WeatherMax
Lamar	05-10	10-21, 10-25	0	0	0	Conv.	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Roundup WeatherMax
<i>Non-Glyphosate Resistant / Special Traits Soybean Tests</i>								
Adrian	05-07	10-25	0	0	0	Conv.	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Ultra Blazer, Poast Plus
Nevada	06-03	10-25, 11-09	0	70	90	Conv.	Dual II Magnum, Authority, FirstRate	None
Lamar	05-10	10-21, 10-25	0	0	0	Conv.	Dual II Magnum, Authority, FirstRate, Roundup WeatherMax	Ultra Blazer, Select

TABLE 19. **Glyphosate Resistant Soybean Test**
Southwest Region: Adrian, MO (Bates County)

Soil Type: Kenoma Silt Loam
Soil Test: pH= 7.2, OM= 2.1%, P= 74, K= 428

Cyst Nematode Population at Planting: 165 Eggs/250cc of soil
Rainfall: May= 4.1, June= 6.5, July= 4.2, Aug.= 3.4, Sept.= 1.6 Total=19.8 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
MATURITY GROUP 4							
MFA Morsoy RTS 4824N	2	9-21	48	2	77.1**	--	--
Dyna Gro DG3443NRR	2	9-22	43	2	74.3*	45.1*	59.7
Delta King DK4461RR	2, 4, 8	9-16	47	2	71.4*	46.8*	59.1
MPride/MPV 4404nRR	3, 5	9-19	44	1	71.3*	--	--
ASGROW AG4903	None	9-23	36	1	71.3*	--	--
MPride/MPV 4705nRR	3, 5	9-18	43	2	70.1	--	--
Willcross RR2432NA	5	9-21	44	1	69.6	--	--
Delta King DK4763RR	2, 4, 8	9-15	41	1	69.5	42.1	55.8
Dyna Gro DG38T47	2	9-18	39	2	67.6	--	--
ASGROW AG4403	None	9-18	41	2	67.5	46.5*	57.0
DEKALB DKB46-51	None	9-14	39	2	66.5	42.7	54.6
Midland 9A455NRR	None	9-20	47	3	64.8	--	--
Croplan Genetics RC4444	None	9-19	43	2	64.7	--	--
Stine S4842-4	None	9-19	39	2	64.6	47.7*	56.2
Dyna Gro DG3481NRR	2	9-23	40	3	64.2	48.1*	56.2
ASGROW AG3906##	None	9-12	39	1	64.2	--	--
Mersch. Denver RRSTS	1, 5	9-19	38	2	64.0	45.6*	54.8
ASGROW AG4801	None	9-18	39	1	63.8	--	--
Delta King DK4967RR	2, 4, 8	9-21	39	1	63.7	44.6*	54.2
Mersch. Austin RR	1, 5	9-13	34	1	63.6	38.8	51.2
Midland 9A485XRR	None	9-20	43	2	63.5	--	--
Willcross RR2484N	5	9-21	37	2	63.4	--	--
MFA Morsoy RT4731N	2	9-18	37	2	63.2	49.1**	56.2
ASGROW AG3802##	None	9-11	37	1	63.1	--	--
MPride/MPV 4905nRR	3, 5	9-14	42	2	63.0	--	--
ASGROW AG3905##	None	9-13	42	1	62.7	39.5	51.1
Mersch. Dallas RR	1, 5	9-23	35	1	62.1	42.3	52.2
Pioneer 94M90	None	9-21	40	1	61.7	--	--
Midland 9B445NRS	None	9-14	37	1	61.5	--	--
MFA Morsoy RT 4993N	2	9-18	38	2	61.3	48.4*	54.9
Croplan Genetics RC4842	None	9-24	41	3	61.3	--	--
MPride/MPV 4805nRR	3, 5	9-16	42	3	61.3	--	--
Mersch. Rocky RR	1, 5	9-16	37	2	61.1	--	--
MPride/MPV 4904nRR	3, 5	9-26	44	2	61.1	45.0*	53.1
NK Brand S49-Q9	2	9-20	42	2	61.0	48.9*	55.0
Garst 4612RR/N	None	9-22	36	2	59.6	--	--
ASGROW AG4102	None	9-11	44	1	59.5	--	--
NK Brand S43-B1	2	9-13	40	2	59.2	35.9	47.6
Stine S4542-4	None	9-21	38	2	58.8	41.3	50.1
DEKALB DKB38-52##	None	9-11	37	1	58.5	43.0	50.8

TABLE 19. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Delta King DKXTJ446	2, 4, 8	9-19	41	3	57.4	--	--
Producers Hybrid EX 3149N	None	9-20	41	3	56.3	--	--
Delta King DKXTJ448	2, 4, 8	9-22	46	3	56.2	--	--
Croplan Genetics RC3732##	None	9-10	37	2	53.3	--	--
Willcross RR2495N	5	9-24	43	2	52.3	--	--
GROUP 4 AVERAGE		9-18	40	2	63.5	42.1	52.8
L.S.D. AT .10				0	6.9	5.3	
C.V. %					7.7	8.6	
MATURITY GROUP 5							
Willcross 2525NA	5	9-19	40	2	62.7**	--	--
Willcross RR2525N	5	9-19	40	2	61.9*	--	--
MFA Morsoy RT 5043N	2	9-21	36	2	61.6*	--	--
MPride/MPV 5505nRR	3, 5	10-03	41	2	55.4*	--	--
Garst 5012RR/N	None	10-01	39	2	51.2	--	--
Dyna Gro SX04453	2	9-28	39	1	50.8	--	--
MPride/MPV 5504nRR	3, 5	10-04	39	3	50.2	50.4	50.3
Delta King DK5161RR	2, 4, 8	10-01	35	3	47.2	--	--
NK Brand S52-U3	2	10-10	36	3	41.2	--	--
GROUP 5 AVERAGE		9-28	38	2	53.6	51.6	52.6
L.S.D. AT .10				0	7.3	NS	
C.V. %					11.5	5.3	
TEST AVERAGE			40	2	61.8	43.3	52.6

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 20. **Glyphosate Resistant Soybean Test**
Southwest Region: Nevada, MO (Vernon County)

Soil Type: Parsons Silt Loam
Soil Test: pH=6.7, OM=2.3%, P=32, K=216

Cyst Nematode Population at Planting: 498 Eggs/250cc of soil
Rainfall: May=5.6, June=8.6, July=7.4, Aug.=1.6, Sept.=1.2 Total=24.4 in.
Irrigation: 4 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
MATURITY GROUP 4							
Croplan Genetics RC4444	None	9-30	45	1	66.9**	--	--
Delta King DK4967RR	2, 4, 8	10-04	40	2	66.1*	47.3*	56.7
NK Brand S49-Q9	2	10-06	46	1	64.6*	49.4**	57.0
Producers Hybrid EX 3149N	None	10-02	37	1	64.6*	--	--
NK Brand S43-B1	2	10-01	39	1	64.5*	41.4	53.0
MPride/MPV 4905nRR	3, 5	10-01	38	2	64.3*	--	--
ASGROW AG4801	None	10-06	40	1	64.2*	--	--
Mersch. Rocky RR	1, 5	10-02	36	1	64.0*	--	--
ASGROW AG3905##	None	9-28	40	1	62.6*	36.8	49.7
ASGROW AG3802##	None	9-27	46	1	62.5*	--	--
Garst 4612RR/N	None	10-04	38	1	62.3*	--	--
Midland 9A45NRR	None	10-02	46	2	61.2*	--	--
Willcross RR2432NA	5	10-03	38	1	60.8*	--	--
DEKALB DKB46-51	None	10-02	37	1	60.3	44.7	52.5
MFA Morsoy RT4731N	2	10-01	40	1	60.3	44.4	52.4
Pioneer 94M90	None	10-06	36	1	60.2	--	--
Dyna Gro DG3481NRR	2	10-02	36	1	59.9	48.5*	54.2
ASGROW AG3906##	None	9-30	29	1	59.9	--	--
Dyna Gro DG38T47	2	10-03	37	1	59.8	--	--
Dyna Gro DG3443NRR	2	10-01	39	1	59.7	41.6	50.7
MFA Morsoy RT 4993N	2	10-01	36	1	59.5	42.8	51.2
MPride/MPV 4705nRR	3, 5	10-02	39	1	59.4	--	--
MPride/MPV 4805nRR	3, 5	10-02	33	1	59.4	--	--
Croplan Genetics RC4842	None	10-03	37	1	59.4	--	--
MPride/MPV 4404nRR	3, 5	10-04	37	1	59.2	--	--
Delta King DK4461RR	2, 4, 8	9-28	42	1	59.2	42.2	50.7
MFA Morsoy RTS 4824N	2	10-04	38	1	58.8	--	--
Willcross RR2484N	5	10-03	36	1	58.7	--	--
Mersch. Denver RRSTS	1, 5	10-04	44	2	58.4	42.0	50.2
ASGROW AG4903	None	10-06	43	1	58.1	--	--
Delta King DKXTJ446	2, 4, 8	10-06	47	1	56.5	--	--
Stine S4842-4	None	10-01	39	2	56.1	45.2	50.7
Mersch. Austin RR	1, 5	9-27	36	1	55.2	42.7	49.0
ASGROW AG4403	None	9-30	40	1	54.9	44.0	49.5
Delta King DK4763RR	2, 4, 8	9-27	38	1	54.6	49.0*	51.8
ASGROW AG4102	None	10-01	40	1	54.4	--	--
Stine S4542-4	None	10-04	37	1	54.3	46.7*	50.5
Croplan Genetics RC3732##	None	9-27	40	1	54.0	--	--
Willcross RR2495N	5	10-08	40	2	53.9	--	--
DEKALB DKB38-52##	None	9-28	40	1	53.6	38.8	46.2

TABLE 20. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Mersch, Dallas RR	1, 5	10-08	41	2	53.2	46.3*	49.8
MPride/MPV 4904nRR	3, 5	10-08	42	1	51.7	44.5	48.1
Midland 9A485XRR	None	10-02	43	1	50.8	--	--
Delta King DKXTJ448	2, 4, 8	10-02	38	2	49.0	--	--
Midland 9B445NRS	None	9-29	35	1	46.5	--	--
GROUP 4 AVERAGE		10-02	39	1	58.6	42.7	50.7
L.S.D. AT .10					6.4	3.6	
C.V. %					7.7	5.7	
MATURITY GROUP 5							
MFA Morsoy RT 5043N	2	10-01	36	2	58.4**	--	--
Dyna Gro SX04453	2	10-18	36	1	57.6*	--	--
Willcross RR2525N	5	9-29	37	2	56.9*	--	--
MPride/MPV 5505nRR	3, 5	10-19	40	2	56.8*	--	--
Willcross 2525NA	5	10-03	37	1	54.1*	--	--
Delta King DK5161RR	2, 4, 8	10-18	38	3	53.5*	--	--
Garst 5012RR/N	None	10-19	40	2	52.9	--	--
MPride/MPV 5504nRR	3, 5	10-21	43	3	44.4	54.3	49.4
NK Brand S52-U3	2	10-19	37	3	41.6	--	--
GROUP 5 AVERAGE		10-13	38	2	52.9	53.4	53.2
L.S.D. AT .10					5.3	NS	
C.V. %					8.4	10.6	
TEST AVERAGE			39	1	57.7	44.0	50.8

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 21. **Glyphosate Resistant Soybean Test**
Southwest Region: Lamar, MO (Barton County)

Soil Type: Parsons Silt Loam
Soil Test: pH= 6.8, OM= 2.0%, P= 40, K= 196

Cyst Nematode Population at Planting: 498 Eggs/250cc of soil
Rainfall: May=5.0 , June=6.0 , July=3.8 , Aug.=2.9 , Sept.=1.2 Total=18.9 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
MATURITY GROUP 4							
Stine S4842-4	None	9-18	37	2	56.8**	23.6	40.2
Dyna Gro DG3481NRR	2	9-22	39	2	55.7*	19.8	37.8
Croplan Genetics RC4842	None	9-21	39	2	55.5*	--	--
MFA Morsoy RTS 4824N	2	9-22	35	1	55.5*	--	--
ASGROW AG4903	None	9-22	45	1	55.4*	--	--
Willcross RR2432NA	5	9-19	40	1	55.1*	--	--
MFA Morsoy RT 4993N	2	9-13	37	2	54.6*	17.6	36.1
Mersch. Rocky RR	1, 5	9-23	35	1	54.3*	--	--
ASGROW AG4403	None	9-13	38	1	53.3*	20.8	37.1
Croplan Genetics RC4444	None	9-13	39	1	53.2*	--	--
Delta King DK4461RR	2, 4, 8	9-23	45	1	53.1*	23.7	38.4
Garst 4612RR/N	None	9-22	38	2	53.0*	--	--
ASGROW AG3802##	None	9-09	39	1	52.8*	--	--
Dyna Gro DG3443NRR	2	9-21	35	1	52.4*	26.5	39.5
MPride/MPV 4905nRR	3, 5	9-16	31	1	52.1*	--	--
Stine S4542-4	None	9-18	40	1	51.6*	23.0	37.3
MPride/MPV 4805nRR	3, 5	9-16	38	1	51.5*	--	--
ASGROW AG3905##	None	9-08	35	1	51.4*	25.3	38.4
Mersch. Dallas RR	1, 5	9-19	38	2	51.4*	20.9	36.2
MPride/MPV 4705nRR	3, 5	9-21	34	1	51.2*	--	--
ASGROW AG3906##	None	9-11	32	1	50.8	--	--
MPride/MPV 4404nRR	3, 5	9-19	36	1	50.6	--	--
Delta King DK4763RR	2, 4, 8	9-21	34	1	50.5	28.8	39.7
Dyna Gro DG38T47	2	9-16	35	1	50.4	--	--
Mersch. Denver RRSTS	1, 5	9-16	40	1	50.4	22.9	36.7
NK Brand S43-B1	2	9-09	37	1	50.2	14.9	32.6
MFA Morsoy RT4731N	2	9-13	30	1	49.9	25.5	37.7
NK Brand S49-Q9	2	9-21	43	1	48.9	38.2**	43.6
ASGROW AG4102	None	9-11	38	1	48.7	--	--
Midland 9A455NRR	None	9-22	34	1	48.4	--	--
ASGROW AG4801	None	9-13	30	1	48.3	--	--
DEKALB DKB46-51	None	9-16	31	1	47.7	27.9	37.8
Producers Hybrid EX 3149N	None	9-21	33	1	47.2	--	--
Pioneer 94M90	None	9-21	34	1	46.5	--	--
Midland 9B445NRS	None	9-13	27	1	46.3	--	--
Willcross RR2484N	5	9-14	33	1	46.2	--	--
Midland 9A485XRR	None	9-14	44	1	46.2	--	--
Delta King DK4967RR	2, 4, 8	9-18	30	1	46.0	19.6	32.8
Mersch. Austin RR	1, 5	9-08	30	1	45.5	15.6	30.6
Croplan Genetics RC3732##	None	9-08	29	1	44.8	--	--

TABLE 21. Continued.

Brand-Variety	Seed Treatment ⁺	Maturity Date	2004		Yield		
			Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
Delta King DKXTJ448	2, 4, 8	9-24	40	1	43.5	--	--
Delta King DKXTJ446	2, 4, 8	9-21	42	1	41.7	--	--
Willcross RR2495N	5	9-26	37	2	41.4	--	--
MPride/MPV 4904nRR	3, 5	9-24	36	1	41.0	34.0*	37.5
DEKALB DKB38-52##	None	9-06	36	1	40.6	22.3	31.5
GROUP 4 AVERAGE		9-17	36	1	49.8	21.4	35.6
L.S.D. AT .10					5.6	4.7	
C.V. %					8.1	15.1	
MATURITY GROUP 5							
MFA Morsoy RT 5043N	2	9-21	38	2	55.9**	--	--
Willcross 2525NA	5	9-21	37	2	48.5	--	--
Willcross RR2525N	5	9-21	36	2	48.0	--	--
Garst 5012RR/N	None	9-27	42	2	45.9	--	--
Dyna Gro SX04453	2	9-29	36	1	45.8	--	--
NK Brand S52-U3	2	10-02	37	3	45.4	--	--
Delta King DK5161RR	2, 4, 8	9-30	44	3	44.8	--	--
MPride/MPV 5505nRR	3, 5	10-01	40	1	43.5	--	--
MPride/MPV 5504nRR	3, 5	9-30	36	2	37.3	31.5	34.4
GROUP 5 AVERAGE		9-27	38	2	46.1	30.2	38.2
L.S.D. AT .10					3.1	NS	
C.V. %					5.7	16.7	
TEST AVERAGE			37	1	49.2	22.5	35.8

- ## Maturity group III soybean variety entered in the maturity group IV test.
 -- Data not available.
 ** Highest yielding variety in the maturity group.
 * Yield not significantly less than the highest yielding variety in the maturity group.
 + Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)
 NS Not Significant.

TABLE 22. Performance Summary for Glyphosate Resistant Varieties evaluated at Three Southwest Missouri locations (Adrian, Nevada, Lamar) during 2004.

<u>Adrian</u> Planted: 05-07 Harvested: 10-25 Growing Season Rainfall: 19.8 in.	<u>Nevada</u> Planted: 06-03 Harvested: 10-25, 11-09 Growing Season Rainfall: 24.4 in. Irrigation: 4 in.	<u>Lamar</u> Planted: 05-10 Harvested: 10-21, 10-25 Growing Season Rainfall: 18.9 in.
--	--	--

Brand-Variety	Yield (Bu/Acre)			
	Adrian	Nevada	Lamar	Mean
MATURITY GROUP 4				
MFA Morsoy RTS 4824N	77.1**	58.8	55.5*	63.8**
Dyna Gro DG3443NRR	74.3*	59.7	52.4*	62.1*
Willcross RR2432NA	69.6	60.8*	55.1*	61.8*
ASGROW AG4903	71.3*	58.1	55.4*	61.6*
Croplan Genetics RC4444	64.7	66.9**	53.2*	61.6*
Delta King DK4461RR	71.4*	59.2	53.1*	61.2*
MPride/MPV 4404nRR	71.3*	59.2	50.6	60.4
MPride/MPV 4705nRR	70.1	59.4	51.2*	60.2
Dyna Gro DG3481NRR	64.2	59.9	55.7*	59.9
MPride/MPV 4905nRR	63.0	64.3*	52.1*	59.8
Mersch. Rocky RR	61.1	64.0*	54.3*	59.8
ASGROW AG3802##	63.1	62.5*	52.8*	59.5
Dyna Gro DG38T47	67.6	59.8	50.4	59.3
Stine S4842-4	64.6	56.1	56.8**	59.2
ASGROW AG3905##	62.7	62.6*	51.4*	58.9
ASGROW AG4801	63.8	64.2*	48.3	58.8
Croplan Genetics RC4842	61.3	59.4	55.5*	58.7
Delta King DK4967RR	63.7	66.1*	46.0	58.6
ASGROW AG4403	67.5	54.9	53.3*	58.6
MFA Morsoy RT 4993N	61.3	59.5	54.6*	58.5
ASGROW AG3906##	64.2	59.9	50.8	58.3
Garst 4612RR/N	59.6	62.3*	53.0*	58.3
Delta King DK4763RR	69.5	54.6	50.5	58.2
NK Brand S49-Q9	61.0	64.6**	48.9	58.2
DEKALB DKB46-51	66.5	60.3	47.7	58.2
Midland 9A455NRR	64.8	61.2*	48.4	58.1
NK Brand S43-B1	59.2	64.5*	50.2	58.0
MFA Morsoy RT4731N	63.2	60.3	49.9	57.8
Mersch. Denver RRSTS	64.0	58.4	50.4	57.6
MPride/MPV 4805nRR	61.3	59.4	51.5*	57.4
Pioneer 94M90	61.7	60.2	46.5	56.1
Willcross RR2484N	63.4	58.7	46.2	56.1
Producers Hybrid EX 3149N	56.3	64.6**	47.2	56.0
Mersch. Dallas RR	62.1	53.2	51.4*	55.6
Stine S4542-4	58.8	54.3	51.6*	54.9
Mersch. Austin RR	63.6	55.2	45.5	54.8
ASGROW AG4102	59.5	54.4	48.7	54.2
Midland 9A485XRR	63.5	50.8	46.2	53.5
Delta King DKXTJ446	57.4	56.5	41.7	51.9
Midland 9B445NRS	61.5	46.5	46.3	51.4

Table 22. Continued.

Brand-Variety	Yield (Bu/Acre)			Mean
	Adrian	Nevada	Lamar	
MPride/MPV 4904nRR	61.1	51.7	41.0	51.3
DEKALB DKB38-52##	58.5	53.6	40.6	50.9
Croplan Genetics RC3732##	53.3	54.0	44.8	50.7
Delta King DKXTJ448	56.2	49.0	43.5	49.6
Willcross RR2495N	52.3	53.9	41.4	49.2
GROUP 4 AVERAGE	63.5	58.6	49.8	57.3
L.S.D. AT .10	6.9	6.4	5.6	3.1
C.V. %	7.7	7.7	8.1	7.8
MATURITY GROUP 5				
MFA Morsoy RT 5043N	61.6*	58.4**	55.9**	58.6**
Willcross RR2525N	61.9*	56.9*	48.0	55.6*
Willcross 2525NA	62.7**	54.1*	48.5	55.1*
MPride/MPV 5505nRR	55.4*	56.8*	43.5	51.9
Dyna Gro SX04453	50.8	57.6*	45.8	51.4
Garst 5012RR/N	51.2	52.9	45.9	50.0
Delta King DK5161RR	47.2	53.5*	44.8	48.5
MPride/MPV 5504nRR	50.2	44.4	37.3	44.0
NK Brand S52-U3	41.2	41.6	45.4	42.7
GROUP 5 AVERAGE	53.6	52.9	46.1	50.9
L.S.D. AT .10	7.3	5.3	3.1	3.6
C.V. %	11.5	8.4	5.7	8.5
TEST AVERAGE	61.8	57.7	49.2	56.2

** Highest yielding variety in the maturity group.

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

Note: To view seed treatments for these varieties refer to the location table or the characteristics chart.

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

TABLE 23. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southwest Region: Adrian, MO (Bates County)

Soil Type: Kenoma Silt Loam
Soil Test: pH= 7.2, OM= 2.1%, P= 74, K= 428

Cyst Nematode Population at Planting: 165 Eggs/250cc of soil
Rainfall: May= 4.1, June= 6.5, July= 4.2, Aug.= 3.4, Sept.= 1.69 Total=19.8 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 5							
High Yield Check 8	--	9-21	46	2	69.0**	47.8	58.4
High Yield Check 9	--	9-19	45	2	67.3	--	--
High Yield Check 10	--	10-03	35	2	57.4	--	--
Anand	3, 5	9-27	36	2	50.5	54.3**	52.4
TEST AVERAGE			41	2	61.0	48.0	54.5
L.S.D. AT .10				0	NS	NS	
C.V. %					4.9	6.1	

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 24. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southwest Region: Nevada, MO (Vernon County)

Soil Type: Parsons Silt Loam
Soil Test: pH=6.7 , OM=2.3%, P=32 , K=216

Cyst Nematode Population at Planting: 498 Eggs/250cc of soil
Rainfall: May=5.6 , June=8.6 , July=7.4 , Aug.=1.6 , Sept.=1.2 Total=24.4 in.
Irrigation: 4 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 5							
High Yield Check 8	--	10-02	36	1	65.2**	51.7	58.5
High Yield Check 9	--	10-04	31	1	60.0	--	--
High Yield Check 10	--	10-21	34	1	53.5	--	--
Anand	3, 5	10-16	32	1	51.3	57.4**	54.4
TEST AVERAGE			33	1	57.5	49.0	53.3
L.S.D. AT .10					NS	NS	
C.V. %					15.1	6.3	

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 25. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southwest Region: Lamar, MO (Barton County)

Soil Type: Parsons Silt Loam
Soil Test: pH= 6.8, OM= 2.0%, P= 40, K= 196

Cyst Nematode Population at Planting: 498 Eggs/250cc of soil
Rainfall: May=5.0 , June=6.0 , July=3.8 , Aug.=2.9 , Sept.=1.2 Total=18.9 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 5							
High Yield Check 8	--	9-21	40	1	53.6**	30.2**	41.9
High Yield Check 9	--	9-19	39	1	51.0*	--	--
High Yield Check 10	--	10-01	37	1	47.6	--	--
Anand	3, 5	9-26	32	1	47.4	30.2**	38.8
TEST AVERAGE			37	1	50.0	26.5	38.3
L.S.D. AT .10					3.2	NS	
C.V. %					4.9	11.9	

-- Data not available.
** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)
NS Not Significant.

TABLE 26. Performance Summary for Non-Glyphosate Resistant / Special Traits Varieties evaluated at Three Southwest Missouri locations (Adrian, Nevada, Lamar) during 2004.

<u>Adrian</u>	<u>Nevada</u>	<u>Lamar</u>
Planted: 05-07	Planted: 06-03	Planted: 05-10
Harvested: 10-25	Harvested: 10-25, 11-09	Harvested: 10-21, 10-25
Growing Season Rainfall: 19.8 in.	Growing Season Rainfall: 24.4 in.	Growing Season Rainfall: 18.9 in.
	Irrigation: 4 in.	

Brand-Variety	Yield (Bu/Acre)			Mean
	Adrian	Nevada	Lamar	
MATURITY GROUP 5				
High Yield Check 8	69.0**	65.2**	53.6**	62.6**
High Yield Check 9	67.3	60.0	51.0*	59.4*
High Yield Check 10	57.4	53.5	47.6	52.8
Anand	50.5	51.3	47.4	49.7
TEST AVERAGE	61.0	57.5	50.0	56.2
L.S.D. AT .10	NS	NS	3.2	3.8
C.V. %	4.9	15.1	4.9	8.3

** Highest yielding variety in the maturity group.
* Yield not significantly less than the highest yielding variety in the maturity group.
NS Not Significant.
Note: To view seed treatments for these varieties refer to the location table or the characteristics chart.

Southeast Region Crop Management Summary

There are five locations in the southeastern region of Missouri for glyphosate resistant and non-glyphosate resistant / special trait soybean tests. They are located in counties where a significant number of acres of soybean are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary from location to location, but tend to reflect those followed by farmers in the area.

Planting dates were from April 29 to May 29 at the five locations with soil conditions being very good at all locations. Rainfall was somewhat below normal for southeastern Missouri and temperatures were about normal providing adequate growing conditions for the soybean crop. Yields at the East Prairie location were below normal due to dry conditions but yields at the other locations were normal or above normal for the region.

Climatological information for the growing season for Southeast Missouri (May 1 – September 30) is summarized below.

Average temperature = 74.2 degrees, 0.3 degrees below normal
 Average precipitation = 17.4", 1.7" below normal

Table 27. Southeast Region Glyphosate Resistant Corn Location Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide	
			N	P ₂ O ₅	K ₂ O		Pre	Post
<i>Glyphosate Resistant Soybean Tests</i>								
Oran	05-28, 29	10-04, 11-08	0	0	0	Conv.	Dual II Magnum, Scepter	Roundup WeatherMax
East Prairie	05-24	10-06, 11-06	0	0	0	Conv.	Dual II Magnum, Scepter	Roundup WeatherMax
Morehouse	05-24	10-05, 11-10	0	0	0	Conv.	Dual II Magnum, Scepter	Roundup WeatherMax
Portageville (Loam)	04-29, 05-06	09-28, 11-04	0	0	0	Conv.	Dual II Magnum, Scepter	Roundup WeatherMax
Portageville (Clay)	05-07	09-27, 10-07	0	0	0	Conv.	Dual II Magnum, Scepter	Roundup WeatherMax
<i>Non-Glyphosate Resistant / Special Traits Soybean Tests</i>								
Oran	05-28, 29	10-04, 11-08	0	0	0	Conv.	Dual II Magnum, Scepter	Reflex, Poast Plus
East Prairie	05-24	10-06, 11-06	0	0	0	Conv.	Dual II Magnum, Scepter	Ultra Blazer
Morehouse	05-24	10-05, 11-10	0	0	0	Conv.	Dual II Magnum, Scepter	Reflex, Select
Portageville (Loam)	04-29, 05-06	09-28, 11-04	0	0	0	Conv.	Dual II Magnum, Scepter	Reflex, Select
Portageville (Clay)	05-07	09-27, 10-07	0	0	0	Conv.	Dual II Magnum, Scepter	Reflex, Select

TABLE 28. **Glyphosate Resistant Soybean Test**
Southeast Region: Oran, MO (Scott County)

Soil Type: Commerce Silt Loam
Soil Test: pH=5.5, OM= 1.9%, P=55, K=257

Cyst Nematode Population at Planting: 1492 Eggs/250cc of soil
Rainfall: May= 4.7, June= 1.7, July= 4.9, Aug.= 2.1, Sept.= 0.4 Total=13.8 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
				-----bu/acre-----			
MATURITY GROUP 4							
Delta King DK4967RR	2, 4, 8	9-30	37	4	59.6**	68.8	64.2
Hornbeck HBK R4820	None	9-24	33	2	59.1*	73.6	66.4
UniSouth USG 7443nRR	2	9-24	33	3	58.9*	64.1	61.5
UniSouth USG 7482nRR	2	9-25	33	5	58.9*	65.5	62.2
Delta King DK4461RR	2, 4, 8	9-26	39	3	58.8*	66.5	62.7
Southern Cross Michael	None	9-21	31	1	57.8*	73.7	65.8
Delta Pine DP 4724 RR	None	9-26	39	4	57.8*	68.9	63.4
Delta King DKXTJ543	2, 4, 8	9-22	43	2	57.6*	--	--
Delta Pine DP 4331 RR	None	9-25	38	3	57.5*	71.1	64.3
Mersch. Austin RR	1, 5	9-21	29	1	57.3*	71.1	64.2
ASGROW AG4903	None	9-30	37	3	56.6*	--	--
Delta King DK4763RR	2, 4, 8	9-26	32	3	56.6*	71.0	63.8
Dyna Gro DG3443NRR	2	9-24	37	1	56.3*	68.5	62.4
UniSouth USG 7484nRR	2	9-25	41	5	56.2*	--	--
Gateway 4RS421	None	9-16	31	1	55.6*	--	--
Gateway 4R485	None	9-25	37	3	55.5*	66.2	60.9
Pioneer 94B74	None	9-21	37	5	55.3*	67.9	61.6
Mersch. Rocky RR	1, 5	9-26	37	5	55.0*	67.3*	61.2
MPride/MPV 4805nRR	3, 5	9-24	33	3	55.0*	--	--
Garst 4612RR/N	None	9-29	37	3	54.9*	--	--
Delta King DKXTJ548	2, 4, 8	9-28	38	2	54.9*	--	--
Progeny 4401RR	None	9-27	35	2	54.9*	71.6	63.3
Golden Harvest H-4368RR	None	9-17	30	1	54.6*	--	--
UniSouth USG 7499nRR	2	9-25	41	4	54.5*	66.9	60.7
Delta King DK4868RR	2, 4, 8	9-26	38	4	54.4*	69.7	62.1
Pioneer 94B73	None	9-19	41	2	54.1*	69.2	61.7
ASGROW AG4902	None	9-24	33	3	54.0*	--	--
Armor 44-R5	None	9-16	29	1	53.8*	68.7	61.3
Hornbeck HBK R4724	None	9-29	39	2	53.6	--	--
Delta Grow 4860RR	None	9-28	39	1	53.4	68.2	60.8
NK Brand S49-Q9	2	9-29	39	3	53.4	72.9	63.2
Delta Grow 4840RR	None	9-30	37	5	53.3	--	--
Armor GP474	None	9-29	37	5	53.2	70.0	61.6
Hornbeck HBK R4924	None	10-01	45	5	53.2	--	--
Delta Pine DPX 3950RR##	None	9-22	31	1	53.1	--	--
Dyna Gro DG3481NRR	2	9-25	40	2	53.0	69.8	61.4
Mersch. Dallas RR	1, 5	10-01	34	4	53.0	64.9	59.0
Vigoro V48N5RR	2	9-27	37	5	53.0	--	--
ASGROW AG4801	None	9-25	33	3	53.0	--	--
Progeny PGY 4304RR	None	9-21	31	2	52.9	--	--
Mersch. Phoenix IIIR	1, 5	9-22	31	1	52.8	72.1	62.5
UniSouth USG 7473nRR	2	9-22	43	5	52.7	--	--
MFA Morsoy RT 4993N	2	9-29	37	5	52.7	75.3	64.0
MPride/MPV 4404nRR	3, 5	9-25	31	1	52.5	--	--
UniSouth USG 7440nRR	2	9-25	35	2	52.3	73.8	63.1

TABLE 28. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield			
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean	
							-----bu/acre-----	
DEKALB DKB46-51	None	9-23	39	3	52.1	71.8	62.0	
Gateway 4R495	None	9-24	38	4	52.1	--	--	
Southern Cross Titus	None	9-25	35	5	52.0	68.1	60.1	
Terral TVX48RL27	2, 4	9-25	35	1	51.7	--	--	
ASGROW AG4403	None	9-23	35	3	51.7	70.1	60.9	
Armor 47-G7	None	9-20	37	2	51.6	70.8	61.2	
Progeny PGY 4804RR	None	9-24	36	5	51.6	--	--	
Delta King DKXTJ549	2, 4, 8	9-29	41	5	51.5	--	--	
Golden Harvest H-4749RR	None	9-28	33	1	51.3	--	--	
Delta King DKXTJ542	2, 4, 8	10-01	40	5	51.2	--	--	
Dyna Gro DG3484NRR	None	9-26	41	3	51.1	--	--	
Stine S4542-4	None	9-25	39	3	50.6	69.2	59.9	
MPride/MPV 4905nRR	3, 5	9-26	39	5	50.5	--	--	
Delta King DKXTJ546	2, 4, 8	10-01	39	5	50.5	--	--	
Delta Pine DPX 4891RR	None	9-26	39	4	50.5	--	--	
Progeny PGY 4604RR	None	9-24	35	2	50.5	--	--	
Delta King DKXTJ446	2, 4, 8	9-27	41	4	50.4	55.2	52.8	
Southern Cross Silas	None	9-21	40	3	50.3	69.4	59.9	
Delta King DK3964RR##	2, 4, 8	9-14	45	5	50.3	--	--	
Delta King DKXTJ54J9	2, 4, 8	9-28	41	3	50.1	--	--	
Terral TVX45RN21	2, 4	9-21	39	1	50.1	--	--	
Delta Grow 4630RR	None	9-26	39	3	50.0	--	--	
ASGROW AG4603	None	9-22	37	3	49.9	71.7	60.8	
Delta King DKXTJ541	2, 4, 8	9-19	31	1	49.8	--	--	
Armor GP499	None	9-28	36	3	49.7	--	--	
Hornbeck HBK R4623	None	9-26	37	1	49.7	60.6	55.2	
Pioneer 94M41	None	9-18	41	4	49.6	--	--	
Progeny 4860RR	None	10-03	33	4	49.6	72.8	61.2	
Armor 49-T3	None	9-28	43	3	49.6	--	--	
Delta Pine DP 3861RR##	None	9-17	24	3	49.4	--	--	
Pioneer 94M90	None	9-30	37	5	48.9	--	--	
ASGROW AG4502	None	9-24	31	2	48.6	69.9	59.3	
Progeny 3900RR##	None	9-15	31	1	48.5	74.3	61.4	
Delta Grow 4340RR	None	9-18	31	1	48.4	--	--	
Delta Grow 4960RR	None	10-02	39	5	48.3	86.5**	67.4	
Delta Grow 4970RR	None	9-26	39	4	48.1	--	--	
Dyna Gro DG3463NRR	None	9-22	43	2	47.8	--	--	
ASGROW AG4201	None	9-18	37	1	47.8	--	--	
Stine S4842-4	None	9-24	33	2	47.6	71.0	59.3	
Armor 44-R4	None	9-22	36	3	47.6	67.7	57.7	
Delta King DKXTJ54X9	2, 4, 8	9-22	39	4	47.5	--	--	
MPride/MPV 4904nRR	3, 5	9-29	38	4	46.7	58.5	52.6	
Excel Brand 8499NRR	None	9-26	39	4	46.7	70.7	58.7	
Delta Pine DP 4546RR	None	9-25	43	5	46.7	--	--	
Gateway 4R451	None	9-22	33	2	46.6	--	--	
Progeny 4949RR	None	9-27	39	5	46.2	64.8	55.5	
Hornbeck HBK R4945CX	None	9-22	41	4	46.1	--	--	
FFR 4922RR	2	9-29	39	2	45.6	63.3	54.5	
Delta Pine DP 4933 RR	None	9-29	41	4	45.5	64.2	54.9	
Pioneer 94M70	None	9-22	41	5	45.5	68.4	57.0	
Delta King DKXTJ448	2, 4, 8	9-29	47	5	45.2	60.3	52.8	
Mersch. Denver RRSTS	1, 5	9-21	41	5	44.7	65.5	55.1	
Dyna Gro DG36M49	None	9-26	37	5	44.6	--	--	
Delta King DK3968RR##	2, 4, 8	9-15	31	1	44.5	70.2	57.4	

TABLE 28. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
				-----bu/acre-----			
Hornbeck HBK R4023	None	9-18	33	4	43.9	--	--
ASGROW AG4102	None	9-16	35	1	43.2	--	--
Mersch. Washington IXRR##	1, 5	9-19	23	1	42.4	75.7	59.1
Armor 39-E9##	None	9-16	27	1	42.3	70.2	56.3
Progeny 4703RR	None	10-01	44	5	41.7	--	--
Excel Brand 8492NRR	None	9-23	30	2	40.5	--	--
GROUP 4 AVERAGE		9-24	37	3	51.2	68.2	59.7
L.S.D. AT .10				0	5.8	5.6	
C.V. %					8.1	5.7	
MATURITY GROUP 5							
Armor 58-V8	None	10-14	37	4	51.5**	66.3*	58.9
Progeny 5822RR	None	10-14	44	5	50.6*	63.9	57.3
Delta King DK5767RR	2, 4, 8	10-13	38	5	50.5*	60.4	55.5
Golden Harvest H-5053RR	None	9-23	28	5	50.5*	--	--
FFR 5033RR	2	10-04	39	5	49.9*	--	--
Delta King DK5366RR	2, 4, 8	10-06	34	4	49.6*	62.4	56.0
FFR 5663RR	2	10-13	34	5	49.5*	--	--
ASGROW AG5903	None	10-15	42	5	49.4*	--	--
Delta King DK5967RR	2, 4, 8	10-14	39	4	49.1*	68.5*	58.8
Progeny PGY 5622RR	None	10-10	38	5	49.1*	--	--
UniSouth USG 7563nRR	2	10-11	30	4	48.9*	64.2	56.6
Delta King DK55T6	2, 4, 8	10-11	39	4	48.5*	--	--
Mersch. Rushmore 553RR	1, 5	9-26	31	5	48.4*	--	--
Delta King DK5161RR	2, 4, 8	10-12	36	5	48.4*	65.7*	57.1
UniSouth USG 510nRR	2	10-09	38	4	48.0*	62.2	55.1
Dyna Gro DG3583NRR	None	10-13	36	4	48.0*	55.5	51.8
Terral TV57R14	2, 4	10-13	40	5	47.7*	--	--
Delta Gro 5650RR	None	10-11	42	4	47.4*	67.1*	57.3
MFA Morsoy RT 5553N	None	10-12	44	4	47.4*	64.1	55.8
UniSouth USG 7504nRR	2	9-24	40	5	47.1*	--	--
UniSouth USG 7553nRS	2	10-11	28	4	46.7*	69.4**	58.1
UniSouth USG 7514nRR	2	10-09	36	5	46.4*	--	--
Delta King DKXTJ554	2, 4, 8	10-11	44	5	46.0*	--	--
ASGROW AG5605	None	10-11	35	5	46.0*	66.5*	56.3
Delta King DKXTJ5K57	2, 4, 8	10-11	36	5	46.0*	--	--
Progeny 5404RR	None	10-08	28	1	46.0*	--	--
MPride/MPV 5505nRR	3, 5	10-11	30	3	45.7	--	--
MFA Morsoy RT 5773	None	10-13	42	5	45.6	--	--
Delta King DKXTJ55J5	2, 4, 8	10-11	32	4	45.5	--	--
FFR 5225RR	2	10-04	35	4	45.4	59.9	52.7
MPride/MPV 5504nRR	3, 5	10-12	30	5	45.3	62.0	53.7
ASGROW AG5905	None	10-15	40	3	45.2	--	--
Delta King DKXTJ555	2, 4, 8	10-10	27	5	45.2	--	--
Hornbeck HBK 5324	None	10-06	32	5	44.9	--	--
Progeny 5250RR	None	10-03	34	3	44.8	65.5*	55.2
Delta King DK5668RR	2, 4, 8	10-11	33	5	44.6	64.8*	54.7
Dyna Gro DG3562NRR	None	10-11	32	5	44.5	60.3	52.4
Progeny 5503RR	None	10-10	30	3	44.3	66.1*	55.2
Delta Pine DP 5915 RR	None	10-14	39	4	44.2	62.1	53.2
Pioneer 95B43	None	10-07	36	4	44.1	54.1	49.1
Armor 53-K3	None	10-08	40	5	44.0	67.8*	55.9

TABLE 28. Continued.

Brand-Variety	Seed Treatment +	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Progeny PGY 5714RR	None	10-14	44	5	43.8	--	--
Gateway 5R531	None	10-11	32	5	43.6	62.8	53.2
Delta Pine DP 5414RR	None	10-09	42	5	43.5	58.8	51.2
DEKALB DKB54-52	None	10-10	35	1	43.4	--	--
Hornbeck HBK R5624	None	10-11	35	1	43.3	--	--
Dyna Gro DG3535NRR	None	10-08	34	5	43.0	60.6	51.8
Pioneer 95B32	None	10-04	28	5	42.7	65.4*	54.1
NK Brand S50-N3	None	9-27	38	4	42.6	--	--
Dyna Gro DG38K57	None	10-12	32	4	42.5	64.2	53.4
Delta Pine DP 5634 RR	None	10-11	39	4	42.5	62.7	52.6
Delta King DK5465RR	2, 4, 8	10-10	--	4	42.5	64.8*	53.7
ASGROW AG5501	None	10-12	34	4	42.5	66.6*	54.6
Armor 54-03	None	10-11	36	4	42.2	--	--
Vigoro V562NRR	None	10-12	40	4	42.1	67.6*	54.9
MFA Morsoy RT 5204	None	10-02	30	5	42.1	--	--
Delta Pine DPX 5808RR	None	10-14	38	5	41.7	--	--
ASGROW AG5301	None	10-09	32	4	41.6	66.2*	53.9
Armor GP530	None	10-09	35	2	41.3	--	--
Pioneer 95B42	None	10-04	38	4	41.1	58.8	50.0
Dyna Gro DG33B52	None	10-08	39	5	40.9	66.0*	53.5
NK Brand S56-D7	None	10-11	38	5	40.8	--	--
Progeny 5660RR	None	10-10	34	5	40.8	62.3	51.6
Delta Grow 5460RR	None	10-11	32	4	40.7	66.8*	53.8
Hornbeck HBK R5620	None	10-11	42	5	40.4	56.8	48.6
Progeny 5703RR	None	10-13	36	4	40.3	61.4	50.9
Mersch. Olympus RR	1, 5	9-25	34	5	40.2	62.1	51.2
Garst 5212RR/N	None	10-09	--	1	40.2	59.9	50.1
Armor 56-J6	None	10-11	34	4	40.0	59.0	49.5
Delta Grow 5630RR	None	10-09	39	5	39.9	59.1	49.5
Delta Grow 5555RR	None	10-10	30	5	39.5	--	--
Armor GP513	None	10-07	30	5	39.4	65.0*	52.2
Terral TVX55RL23	2, 4	10-11	34	5	39.3	--	--
Delta Grow 5260RR	None	10-04	40	5	39.0	62.8	50.9
UniSouth USG 7523nRR	2	10-06	36	4	39.0	--	--
NK Brand S52-U3	2	10-01	32	2	38.7	64.5*	51.6
Mersch. Everest RR	1, 5	10-09	32	2	38.6	61.7	50.2
Garst 5412RR/STS/N	None	10-11	30	5	37.4	--	--
Golden Harvest H-5492RR	None	10-11	31	5	37.3	66.9*	52.1
Hornbeck HBK 5524	None	10-11	42	4	36.4	--	--
GROUP 5 AVERAGE		10-09	36	4	44.1	62.8	53.5
L.S.D. AT .10				0	5.6	5.1	
C.V. %					9.2	5.8	
TEST AVERAGE			36	4	48.1	65.6	56.8

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 29. **Glyphosate Resistant Soybean Test**
Southeast Region: East Prairie, MO (Mississippi County)

Soil Type: Canalou Loamy Sand
Soil Test: pH=6.3; OM=1.1%; P=90; K=176

Cyst Nematode Population at Planting: 2655 Eggs/250cc Soil
Rainfall: May = 7.9, June = 1.4, July = 4.5, Aug = 2.8, Sept = 0.3 Total=16.9 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
							bu/acre
MATURITY GROUP 4							
Delta Pine DPX 4891RR	None	10-03	29	1	56.4**	--	--
Mersch. Rocky RR	1, 5	10-04	26	1	55.1*	44.8*	50.0
Golden Harvest H-4368RR	None	9-26	31	1	53.9*	--	--
UniSouth USG 7484nRR	2	10-01	29	1	52.2*	--	--
Delta King DKXTJ546	2, 4, 8	9-30	40	1	52.0*	--	--
ASGROW AG4801	None	10-04	30	1	50.0*	--	--
Golden Harvest H-4749RR	None	9-24	26	1	49.4*	--	--
ASGROW AG4603	None	9-28	34	1	49.2*	53.0**	51.1
Progeny PGY 4604RR	None	9-25	21	1	48.3*	--	--
Dyna Gro DG36M49	None	10-01	28	1	48.3*	--	--
Gateway 4R495	None	9-26	24	1	47.7*	--	--
MPride/MPV 4905nRR	3, 5	10-01	31	1	47.7*	--	--
Delta Grow 4840RR	None	9-30	31	1	47.2*	--	--
Delta King DKXTJ549	2, 4, 8	10-03	24	1	46.7*	--	--
MFA Morsoy RT 4993N	2	10-01	30	1	46.7*	49.5*	48.1
Armor GP474	None	10-04	41	2	46.7*	46.6*	46.7
Excel Brand 8499NRR	None	9-28	34	1	46.6*	30.0	38.3
NK Brand S49-Q9	2	10-02	30	1	46.3*	44.4	45.4
Delta Grow 4860RR	None	9-24	29	1	46.3*	36.0	41.2
Armor GP499	None	10-02	33	1	45.9*	--	--
Hornbeck HBK R4945CX	None	9-25	34	1	44.1	--	--
Progeny 4401RR	None	9-25	32	1	43.9	51.0*	47.5
Garst 4612RR/N	None	9-28	29	1	43.8	--	--
DEKALB DKB46-51	None	9-24	28	1	43.6	42.1	42.9
Hornbeck HBK R4023	None	9-24	20	1	43.2	--	--
Progeny PGY 4804RR	None	10-03	29	1	43.0	--	--
MPride/MPV 4904nRR	3, 5	10-04	28	1	42.8	32.7	37.8
Delta Grow 4630RR	None	10-03	31	1	42.7	--	--
MPride/MPV 4805nRR	3, 5	10-04	35	1	42.6	--	--
ASGROW AG4403	None	9-20	30	1	42.2	39.9	41.1
UniSouth USG 7473nRR	2	9-29	34	1	42.2	--	--
Mersch. Austin RR	1, 5	9-22	26	1	42.1	34.2	38.2
Mersch. Phoenix IIIRR	1, 5	9-25	22	1	42.0	37.6	39.8
UniSouth USG 7499nRR	2	9-26	34	1	41.8	45.5*	43.7
Delta Grow 4970RR	None	10-02	31	1	41.6	--	--
Dyna Gro DG3484NRR	None	9-29	32	1	41.2	--	--
UniSouth USG 7482nRR	2	9-28	30	1	41.0	38.6	39.8
Delta King DK4763RR	2, 4, 8	9-22	28	1	40.5	49.9*	45.2
Delta King DKXTJ54J9	2, 4, 8	10-03	40	1	40.4	--	--
Delta Pine DP 4331 RR	None	9-21	31	1	40.3	32.7	36.5
Dyna Gro DG3463NRR	None	9-16	33	1	39.9	--	--
Progeny 4949RR	None	10-01	32	1	39.8	23.4	31.6
Mersch. Dallas RR	1, 5	9-26	29	1	39.7	32.4	36.1
Hornbeck HBK R4724	None	10-02	32	1	39.6	--	--
ASGROW AG4201	None	9-22	27	1	39.5	--	--

TABLE 29. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Delta King DKXTJ541	2, 4, 8	9-16	21	1	39.2	--	--
Delta Grow 4960RR	None	10-04	31	1	39.2	35.4	37.3
Southern Cross Titus	None	9-28	35	1	39.2	37.5	38.4
UniSouth USG 7440nRR	2	9-26	28	1	39.0	32.8	35.9
Pioneer 94M41	None	9-20	35	1	38.9	--	--
Stine S4842-4	None	9-27	33	1	38.5	50.7*	44.6
Gateway 4R485	None	9-24	28	1	37.9	35.2	36.6
Armor 44-R4	None	9-24	28	1	37.9	39.5	38.7
Mersch. Denver RRSTS	1, 5	9-29	36	1	37.7	32.3	35.0
Hornbeck HBK R4924	None	10-02	34	1	37.5	--	--
Delta King DK4868RR	2, 4, 8	9-29	32	1	37.3	27.4	32.4
Delta King DKXTJ542	2, 4, 8	10-03	31	1	37.2	--	--
Pioneer 94M90	None	9-24	28	1	36.8	--	--
Southern Cross Michael	None	9-24	28	1	36.4	39.4	37.9
Delta King DKXTJ54X9	2, 4, 8	9-22	28	1	36.4	--	--
Hornbeck HBK R4623	None	9-25	34	1	36.2	29.1	32.7
Excel Brand 8492NRR	None	9-28	34	1	36.2	--	--
Mersch. Washington IXRR##	1, 5	9-18	26	1	35.9	34.2	35.1
Delta Pine DP 4724 RR	None	9-29	27	1	35.7	29.9	32.8
Delta King DK3968RR##	2, 4, 8	9-16	25	1	35.7	37.2	36.5
Terral TVX48RL27	2, 4	10-01	40	1	35.7	--	--
Vigoro V48N5RR	2	9-20	32	1	35.6	--	--
Gateway 4R451	None	9-22	34	1	35.3	--	--
Delta Pine DP 4546RR	None	9-28	33	1	35.1	--	--
MPride/MPV 4404nRR	3, 5	9-29	26	1	35.0	--	--
Armor 44-R5	None	9-29	25	1	34.9	41.8	38.4
Armor 47-G7	None	9-22	29	1	34.8	45.8*	40.3
Delta King DK4967RR	2, 4, 8	9-26	30	1	34.5	33.5	34.0
Southern Cross Silas	None	9-28	31	1	34.2	39.9	37.1
Delta King DKXTJ548	2, 4, 8	10-03	28	1	34.0	--	--
Armor 49-T3	None	10-01	41	1	33.4	--	--
Delta King DKXTJ448	2, 4, 8	9-24	33	1	33.1	24.4	28.8
Progeny PGY 4304RR	None	9-25	25	1	33.1	--	--
Dyna Gro DG3481NRR	2	9-25	23	1	32.6	33.3	33.0
Dyna Gro DG3443NRR	2	9-24	26	1	32.4	34.0	33.2
Delta King DK4461RR	2, 4, 8	9-20	30	1	32.3	34.6	33.5
Delta King DK3964RR##	2, 4, 8	9-16	33	1	32.3	--	--
Delta Grow 4340RR	None	9-20	28	1	31.9	--	--
Hornbeck HBK R4820	None	9-22	31	1	31.5	32.6	32.1
Progeny 3900RR##	None	9-22	28	1	31.4	30.6	31.0
Progeny 4860RR	None	9-25	31	1	30.5	40.2	35.4
Delta Pine DP 4933 RR	None	10-01	36	1	30.3	34.9	32.6
Pioneer 94M70	None	9-18	33	1	30.2	37.3	33.8
Delta King DKXTJ446	2, 4, 8	9-23	33	1	29.9	25.9	27.9
Stine S4542-4	None	9-24	34	1	29.3	35.8	32.6
Gateway 4RS421	None	9-21	27	1	28.9	--	--
Armor 39-E9##	None	9-18	23	1	28.8	38.8	33.8
Pioneer 94B73	None	9-18	29	1	28.1	26.6	27.4
Delta King DKXTJ543	2, 4, 8	9-27	30	1	28.1	--	--
Pioneer 94B74	None	9-18	29	1	27.7	37.7	32.7
FFR 4922RR	2	9-25	29	1	27.3	32.9	30.1
Delta Pine DP 3861RR##	None	9-18	27	1	27.3	--	--
Delta Pine DPX 3950RR##	None	9-17	18	1	27.0	--	--
UniSouth USG 7443nRR	2	9-19	24	1	26.0	41.7	33.9

TABLE 29. Continued.

Brand-Variety	Seed Treatment [†]	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
ASGROW AG4902	None	9-23	26	1	25.9	--	--
Terral TVX45RN21	2, 4	9-16	34	1	25.4	--	--
ASGROW AG4102	None	9-17	31	1	24.9	--	--
ASGROW AG4903	None	10-02	18	1	22.6	--	--
Progeny 4703RR	None	10-01	33	1	16.9	--	--
ASGROW AG4502	None	9-16	26	1	12.2	25.6	18.9
GROUP 4 AVERAGE		9-26	30	1	37.9	36.2	37.1
L.S.D. AT .10				0	12.0	8.4	
C.V. %					22.8	16.4	
MATURITY GROUP 5							
ASGROW AG5301	None	10-08	32	1	52.9**	44.8*	48.9
Delta King DK55T6	2, 4, 8	10-08	29	1	50.8*	--	--
UniSouth USG 510nRR	2	10-08	39	2	50.1*	41.1	45.6
Delta Grow 5460RR	None	10-11	31	1	49.5*	45.3*	47.4
Armor 58-V8	None	10-12	32	1	49.2*	40.0	44.6
Golden Harvest H-5492RR	None	10-12	33	2	48.6*	44.8*	46.7
Gateway 5R531	None	10-09	32	2	48.6*	41.8	45.2
Mersch. Everest RR	1, 5	10-04	33	1	48.5*	38.3	43.4
Delta Pine DP 5634 RR	None	10-09	31	1	47.2*	37.3	42.3
Delta King DK5668RR	2, 4, 8	10-12	29	4	46.8*	43.4	45.1
MPride/MPV 5504nRR	3, 5	10-11	27	1	46.7*	36.4	41.6
UniSouth USG 7504nRR	2	9-27	30	4	46.7*	--	--
ASGROW AG5501	None	10-10	34	1	46.5*	46.0*	46.3
Golden Harvest H-5053RR	None	9-27	24	1	46.5*	--	--
Delta Grow 5650RR	None	10-12	33	3	46.0*	46.9*	46.5
Dyna Gro DG3583NRR	None	10-12	32	1	45.7*	44.2*	45.0
Armor 53-K3	None	10-08	28	1	45.6*	40.6	43.1
Delta Grow 5260RR	None	10-09	34	3	45.5*	43.3	44.4
Progeny 5703RR	None	10-11	32	2	45.4*	50.4**	47.9
UniSouth USG 7514nRR	2	10-05	24	1	44.9*	--	--
Delta King DK5465RR	2, 4, 8	10-08	31	1	44.6*	39.4	42.0
Delta King DKXTJ554	2, 4, 8	10-11	24	1	44.4*	--	--
Delta King DK5366RR	2, 4, 8	10-08	28	2	43.3	39.4	41.4
DEKALB DKB54-52	None	10-02	37	3	43.2	--	--
Vigoro V562NRR	None	10-10	33	1	43.1	37.8	40.5
Progeny 5250RR	None	9-30	23	1	43.0	40.6	41.8
Delta Grow 5630RR	None	10-10	28	1	42.9	34.3	38.6
Mersch. Olympus RR	1, 5	9-27	37	3	42.9	34.0	38.5
Progeny PGY 5622RR	None	10-09	27	1	42.9	--	--
Dyna Gro DG38K57	None	10-11	27	1	42.7	48.1*	45.4
UniSouth USG 7563nRR	2	10-06	34	1	42.7	49.1*	45.9
Delta King DK5767RR	2, 4, 8	10-14	29	3	42.6	46.1*	44.4
Armor 56-J6	None	10-13	44	2	42.5	38.7	40.6
MFA Morsoy RT 5773	None	10-05	35	3	42.2	--	--
Delta King DKXTJ5K57	2, 4, 8	10-11	33	3	42.1	--	--
Hornbeck HBK R5620	None	10-12	33	1	41.8	44.1	43.0
Delta King DK5161RR	2, 4, 8	10-05	30	3	41.7	29.1	35.4
Progeny 5660RR	None	10-12	32	1	41.4	38.4	39.9
FFR 5033RR	2	9-28	33	3	41.0	--	--
Dyna Gro DG3535NRR	None	10-09	29	1	40.9	37.3	39.1
NK Brand S56-D7	None	10-13	30	1	40.8	--	--

TABLE 29. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
Hornbeck HBK R5624	None	10-12	33	1	40.7	--	--
Dyna Gro DG33B52	None	10-06	29	1	40.1	28.5	34.3
Terral TV57R14	2, 4	10-06	28	3	39.7	--	--
Pioneer 95B42	None	10-11	30	1	39.6	34.1	36.9
MPride/MPV 5505nRR	3, 5	10-05	28	2	39.5	--	--
NK Brand S52-U3	2	10-01	35	3	39.4	42.8	41.1
Progeny 5822RR	None	10-12	34	4	39.4	46.1*	42.8
Pioneer 95B43	None	10-09	33	1	39.2	29.5	34.4
Progeny 5503RR	None	10-06	33	2	39.1	42.7	40.9
Delta King DK5967RR	2, 4, 8	10-14	30	1	38.9	46.0*	42.5
MFA Morsoy RT 5204	None	10-09	30	1	38.7	--	--
FFR 5225RR	2	9-30	36	1	38.7	36.2	37.5
ASGROW AG5605	None	9-30	28	3	38.4	41.4	39.9
FFR 5663RR	2	10-12	31	1	38.3	--	--
Pioneer 95B32	None	9-28	26	1	38.0	35.9	37.0
Delta King DKXTJ555	2, 4, 8	10-08	28	1	37.7	--	--
Progeny PGY 5714RR	None	10-12	43	4	37.3	--	--
MFA Morsoy RT 5553N	None	10-11	26	1	37.3	34.9	36.1
Delta Pine DP 5915 RR	None	10-14	29	1	37.0	36.7	36.9
Garst 5412RR/STS/N	None	10-05	33	2	36.9	--	--
Armor 54-03	None	10-03	26	1	36.8	--	--
UniSouth USG 7553nRS	2	10-02	40	3	36.5	43.4	40.0
Dyna Gro DG3562NRR	None	10-11	30	1	36.2	41.3	38.8
ASGROW AG5905	None	10-12	30	2	36.0	--	--
Delta Grow 5555RR	None	9-29	25	1	35.9	--	--
Hornbeck HBK 5324	None	10-02	30	1	35.6	--	--
Armor GP513	None	9-30	24	1	35.4	29.1	32.3
Garst 5212RR/N	None	9-30	32	1	35.2	30.7	33.0
Delta Pine DP 5414RR	None	10-10	33	1	35.1	29.4	32.3
Delta Pine DPX 5808RR	None	10-13	36	1	34.1	--	--
Armor GP530	None	10-02	33	1	33.7	--	--
ASGROW AG5903	None	10-13	33	2	33.4	--	--
Delta King DKXTJ55J5	2, 4, 8	10-05	35	2	32.6	--	--
Progeny 5404RR	None	9-29	28	2	32.4	--	--
Mersch. Rushmore 553RR	1, 5	9-26	27	1	32.3	--	--
NK Brand S50-N3	None	9-28	31	1	31.8	--	--
Hornbeck HBK 5524	None	10-02	32	1	31.6	--	--
UniSouth USG 7523nRR	2	9-30	27	1	30.4	--	--
Terral TVX55RL23	2, 4	10-01	40	1	25.7	--	--
GROUP 5 AVERAGE		10-07	31	2	40.7	39.2	40.0
L.S.D. AT .10				0	9.3	6.2	
C.V. %					16.2	11.2	
TEST AVERAGE			30	1	39.1	37.7	38.4

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 30. **Glyphosate Resistant Soybean Test**
Southeast Region: Morehouse, MO (Stoddard County)

Soil Type: Sharkey Clay
Soil Test: pH=5.9, OM=4.0%, P=45, K=564

Cyst Nematode Population at Planting: 332 Eggs/250cc of soil
Rainfall: May= 5.0, June= 2.1, July= 8.9, Aug.= 3.4, Sept.= 0.0 Total=19.4 in.
Irrigation: 1.5 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2002	2 Yr. Mean
-----bu/acre-----							
MATURITY GROUP 4							
Delta Grow 4970RR	None	9-29	30	1	57.0**	--	--
MFA Morsoy RT 4993N	2	9-29	26	1	56.1*	--	--
Dyna Gro DG3481NRR	2	9-27	32	1	55.1*	--	--
Gateway 4RS421	None	10-01	25	1	54.9*	--	--
Mersch. Rocky RR	1, 5	9-26	30	1	54.8*	--	--
ASGROW AG4201	None	9-27	28	1	53.9*	50.0	52.0
Garst 4612RR/N	None	9-26	36	1	53.7*	--	--
Mersch. Austin RR	1, 5	10-01	27	1	53.5*	49.3	51.4
Gateway 4R485	None	9-27	32	1	53.5*	--	--
UniSouth USG 7482nRR	2	10-02	28	1	53.4*	--	--
MPride/MPV 4905nRR	3, 5	10-01	29	1	53.3*	--	--
Delta Pine DPX 4891RR	None	9-29	29	1	53.2*	--	--
Hornbeck HBK R4724	None	9-29	29	1	53.1*	--	--
Delta King DKXTJ542	2, 4, 8	9-27	33	1	52.8*	--	--
Delta King DK4967RR	2, 4, 8	9-27	28	1	52.8*	--	--
Armor GP474	None	9-28	31	1	52.8*	--	--
Stine S4542-4	None	9-29	31	1	52.6*	--	--
Armor 44-R5	None	9-26	24	1	52.4*	--	--
Mersch. Washington IXRR##	1, 5	9-17	29	1	52.4*	--	--
UniSouth USG 7484nRR	2	9-26	27	1	52.2*	--	--
Delta King DK4763RR	2, 4, 8	9-21	23	1	52.2*	56.8*	54.5
Delta Grow 4840RR	None	9-30	28	1	52.0*	--	--
UniSouth USG 7443nRR	2	9-27	28	1	52.0*	--	--
Progeny 4949RR	None	10-01	32	1	52.0*	--	--
Golden Harvest H-4749RR	None	9-30	30	1	51.9*	--	--
Delta King DKXTJ446	2, 4, 8	10-01	31	1	51.4*	--	--
Stine S4842-4	None	9-26	25	1	51.3*	--	--
Mersch. Phoenix IIIR	1, 5	9-26	26	1	51.3*	--	--
ASGROW AG4403	None	9-25	27	1	51.2*	48.0	49.6
ASGROW AG4903	None	9-28	30	1	51.1*	--	--
MPride/MPV 4805nRR	3, 5	9-26	28	1	51.0*	--	--
DEKALB DKB46-51	None	9-26	27	1	51.0*	--	--
Pioneer 94M70	None	9-22	31	2	51.0*	--	--
Mersch. Dallas RR	1, 5	9-29	34	1	50.9	52.3	51.6
Pioneer 94M41	None	9-20	27	1	50.9	--	--
Delta Grow 4630RR	None	9-29	32	1	50.7	--	--
Armor 47-G7	None	9-27	29	1	50.6	53.7*	52.2
Pioneer 94M90	None	10-01	31	1	50.5	--	--
Excel Brand 8499NRR	None	9-29	28	1	50.1	52.3	51.2
UniSouth USG 7440nRR	2	9-27	31	1	50.0	54.2*	52.1
Hornbeck HBK R4820	None	9-27	29	1	50.0	51.9	51.0
Delta King DKXTJ448	2, 4, 8	9-29	35	1	49.9	--	--
Gateway 4R495	None	9-26	27	1	49.8	--	--
Delta King DK4868RR	2, 4, 8	9-23	26	1	49.3	54.9*	52.1
Delta Pine DP 4724 RR	None	9-29	31	1	49.3	--	--

TABLE 30. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2002	2 Yr. Mean
					-----bu/acre-----		
Delta Pine DPX 3950RR##	None	9-11	31	1	49.2	--	--
Vigoro V48N5RR	2	9-26	33	1	49.1	--	--
ASGROW AG4801	None	9-30	26	1	49.1	--	--
Delta King DKXTJ543	2, 4, 8	9-26	24	1	49.1	--	--
Terral TVX45RN21	2, 4	9-22	32	1	48.9	--	--
Southern Cross Michael	None	9-23	26	1	48.9	--	--
Delta King DKXTJ549	2, 4, 8	9-29	36	2	48.8	--	--
Delta Grow 4340RR	None	9-26	24	1	48.8	--	--
Progeny 3900RR##	None	9-11	29	1	48.7	--	--
Armor 44-R4	None	9-25	30	1	48.4	41.4	44.9
Dyna Gro DG3443NRR	2	9-27	27	2	48.3	48.1	48.2
Progeny PGY 4804RR	None	9-27	28	1	48.1	--	--
Progeny PGY 4304RR	None	9-25	23	1	48.1	--	--
Pioneer 94B73	None	10-01	26	1	48.1	49.8	49.0
Progeny 4860RR	None	9-29	27	2	47.7	--	--
Hornbeck HBK R4924	None	9-29	35	1	47.7	--	--
Progeny 4401RR	None	9-27	30	1	47.5	49.3	48.4
ASGROW AG4902	None	9-26	23	1	47.5	48.0	47.8
Delta King DKXTJ54J9	2, 4, 8	9-26	36	1	47.4	--	--
Terral TVX48RL27	2, 4	9-30	31	1	47.3	--	--
Dyna Gro DG36M49	None	9-27	31	2	47.3	--	--
Armor GP499	None	9-29	25	1	47.3	--	--
Delta King DK4461RR	2, 4, 8	9-26	34	1	47.2	52.6	49.9
ASGROW AG4603	None	9-26	29	1	47.0	53.2*	50.1
Delta Grow 4860RR	None	9-27	30	1	47.0	51.5	49.3
NK Brand S49-Q9	2	9-27	30	1	46.7	58.2*	52.5
Hornbeck HBK R4023	None	9-26	29	1	46.6	--	--
Delta King DKXTJ548	2, 4, 8	9-26	24	1	46.5	--	--
Pioneer 94B74	None	9-26	31	1	46.3	51.1	48.7
MPride/MPV 4404nRR	3, 5	9-26	27	1	46.0	--	--
UniSouth USG 7499nRR	2	10-01	37	2	45.8	48.5	47.2
Excel Brand 8492NRR	None	10-01	28	1	45.2	--	--
Delta Pine DP 4331 RR	None	9-26	30	1	45.0	--	--
Gateway 4R451	None	9-25	26	1	44.9	--	--
ASGROW AG4502	None	9-26	27	1	44.9	--	--
Delta King DK3964RR##	2, 4, 8	9-14	36	2	44.8	43.9	44.4
FFR 4922RR	2	9-30	36	1	44.4	47.9	46.2
Golden Harvest H-4368RR	None	9-22	23	1	44.4	--	--
Southern Cross Silas	None	9-22	29	1	44.3	49.1	46.7
Mersch. Denver RRSTS	1, 5	9-25	30	1	44.2	55.2*	49.7
Delta Pine DP 4933 RR	None	9-30	32	1	44.2	51.9	48.1
Delta King DKXTJ546	2, 4, 8	9-27	29	1	44.0	--	--
Southern Cross Titus	None	9-29	28	1	43.8	53.4*	48.6
Armor 49-T3	None	9-27	32	1	43.5	--	--
Dyna Gro DG3463NRR	None	9-19	28	1	43.3	--	--
Delta Grow 4960RR	None	9-26	29	1	43.1	--	--
Hornbeck HBK R4623	None	9-25	31	1	42.7	--	--
Delta Pine DP 4546RR	None	9-25	30	1	42.5	--	--
Delta Pine DP 3861RR##	None	9-15	26	1	42.1	--	--
Progeny PGY 4604RR	None	9-26	31	1	42.0	--	--
ASGROW AG4102	None	9-20	27	1	42.0	--	--
Hornbeck HBK R4945CX	None	9-26	29	1	41.7	--	--
Dyna Gro DG3484NRR	None	9-28	28	1	41.6	48.1	44.9
Delta King DKXTJ54X9	2, 4, 8	9-23	30	1	41.4	--	--

TABLE 30. Continued.

Brand-Variety	Seed Treatment †	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2002	2 Yr. Mean
				-----bu/acre-----			
Delta King DKXTJ541	2, 4, 8	9-15	27	1	41.3	--	--
Armor 39-E9##	None	9-11	18	1	40.9	43.7	42.3
Delta King DK3968RR##	2, 4, 8	9-09	20	1	40.5	51.1	45.8
UniSouth USG 7473nRR	2	9-24	30	2	38.4	--	--
Progeny 4703RR	None	9-30	38	1	36.7	--	--
MPride/MPV 4904nRR	3, 5	10-01	29	1	32.0	--	--
GROUP 4 AVERAGE		9-26	29	1	48.1	51.2	49.7
L.S.D. AT .10				0	6.0	6.3	
C.V. %					8.7	9.1	
MATURITY GROUP 5							
UniSouth USG 7504nRR	2	9-27	31	2	59.6**	--	--
Dyna Gro DG33B52	None	10-08	32	3	59.1*	--	--
Delta King DKXTJ555	2, 4, 8	10-08	28	3	58.9*	--	--
Delta King DKXTJ5K57	2, 4, 8	10-11	32	3	58.5*	--	--
Progeny 5822RR	None	10-12	30	2	58.1*	--	--
Armor 58-V8	None	10-08	35	4	57.8*	--	--
Golden Harvest H-5053RR	None	9-27	30	4	57.6*	--	--
Delta King DK5161RR	2, 4, 8	10-07	36	5	56.7*	--	--
Armor GP513	None	10-08	28	1	56.4*	--	--
Hornbeck HBK R5624	None	10-11	28	1	55.2*	--	--
Progeny PGY 5622RR	None	10-06	30	1	54.1*	--	--
Armor 54-03	None	10-09	34	1	54.1*	--	--
MFA Morsoy RT 5773	None	10-11	32	4	53.2*	--	--
FFR 5663RR	2	10-06	31	4	52.9*	--	--
Delta Grow 5460RR	None	10-07	32	1	52.3*	--	--
UniSouth USG 7563nRR	2	10-09	36	5	52.3*	--	--
Armor 56-J6	None	10-11	37	4	52.1*	58.2*	55.2
Dyna Gro DG3535NRR	None	10-09	34	5	52.1*	58.3*	55.2
MPride/MPV 5505nRR	3, 5	10-08	38	2	51.8*	--	--
ASGROW AG5605	None	10-08	30	2	51.7*	--	--
UniSouth USG 7553nRS	2	10-11	36	3	51.2*	--	--
Delta King DK5668RR	2, 4, 8	10-06	36	5	50.7*	57.9*	54.3
ASGROW AG5501	None	10-08	32	1	50.3*	60.1*	55.2
Hornbeck HBK 5324	None	9-29	32	5	50.2	--	--
Delta Pine DP 5634 RR	None	10-11	30	2	50.2	--	--
Delta King DKXTJ554	2, 4, 8	10-06	32	1	50.1	--	--
Mersch. Everest RR	1, 5	10-04	33	1	50.0	56.2	53.1
FFR 5033RR	2	9-30	30	1	49.9	--	--
Armor 53-K3	None	10-08	28	1	49.7	58.0*	53.9
Pioneer 95B32	None	10-03	28	1	49.7	57.3*	53.5
Terral TV57R14	2, 4	10-09	32	4	49.7	--	--
Mersch. Olympus RR	1, 5	10-01	36	3	49.0	51.9	50.5
Golden Harvest H-5492RR	None	10-07	28	1	48.8	55.2	52.0
Delta Grow 5260RR	None	10-05	26	4	48.8	--	--
ASGROW AG5903	None	10-11	32	4	48.8	--	--
Delta King DK55T6	2, 4, 8	10-11	31	2	48.6	--	--
Dyna Gro DG38K57	None	10-07	36	4	48.5	--	--
Vigoro V562NRR	None	10-10	33	2	48.4	59.9*	54.2
Mersch. Rushmore 553RR	1, 5	9-29	31	3	48.2	--	--
MFA Morsoy RT 5204	None	10-04	34	4	48.1	--	--
Delta King DK5767RR	2, 4, 8	10-07	32	4	48.1	--	--

TABLE 30. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2002	
Progeny 5503RR	None	10-09	34	3	48.1	--	--
Hornbeck HBK R5620	None	10-11	36	3	48.1	58.9*	53.5
Pioneer 95B43	None	10-07	32	1	47.9	60.6**	54.3
Dyna Gro DG3583NRR	None	10-06	32	2	47.7	--	--
Progeny 5703RR	None	10-08	30	3	47.6	--	--
DEKALB DKB54-52	None	10-07	33	2	47.5	--	--
Delta Grow 5650RR	None	10-10	36	4	47.5	--	--
Progeny PGY 5714RR	None	10-10	33	3	47.3	--	--
Pioneer 95B42	None	9-28	36	4	47.3	57.3*	52.3
Progeny 5250RR	None	10-04	32	1	47.1	56.5	51.8
Delta King DK5967RR	2, 4, 8	10-08	34	1	46.9	--	--
Delta Pine DP 5915 RR	None	10-09	29	3	46.8	--	--
NK Brand S56-D7	None	10-08	30	4	46.5	--	--
Delta King DK5366RR	2, 4, 8	10-05	30	3	46.3	59.0*	52.7
UniSouth USG 7514nRR	2	10-03	34	5	46.0	--	--
Armor GP530	None	10-06	32	1	45.7	--	--
MPride/MPV 5504nRR	3, 5	10-05	24	1	45.6	--	--
Garst 5212RR/N	None	10-08	35	2	45.3	--	--
Garst 5412RR/STS/N	None	10-01	28	5	45.0	--	--
Delta Pine DP 5414RR	None	10-06	39	5	45.0	52.6	48.8
Hornbeck HBK 5524	None	10-10	32	3	44.9	--	--
Gateway 5R531	None	10-04	28	1	44.5	--	--
NK Brand S50-N3	None	9-27	35	1	44.2	--	--
Terral TVX55RL23	2, 4	10-07	37	4	44.0	--	--
Delta Grow 5630RR	None	10-11	34	2	43.5	56.2	49.9
NK Brand S52-U3	2	10-06	25	1	43.1	56.6	49.9
Delta King DKXTJ55J5	2, 4, 8	10-07	37	4	43.0	--	--
MFA Morsoy RT 5553N	None	10-08	31	2	42.8	--	--
Progeny 5660RR	None	10-11	37	3	42.7	55.5	49.1
FFR 5225RR	2	10-04	27	1	42.6	50.9	46.8
UniSouth USG 510nRR	2	10-06	30	1	42.0	57.1*	49.6
Progeny 5404RR	None	10-06	34	3	41.7	--	--
Dyna Gro DG3562NRR	None	10-09	30	4	41.0	57.3*	49.2
Delta Grow 5555RR	None	10-06	36	4	40.7	--	--
UniSouth USG 7523nRR	2	10-03	31	1	40.6	--	--
Delta King DK5465RR	2, 4, 8	10-06	30	1	40.3	52.4	46.4
Delta Pine DPX 5808RR	None	10-09	36	3	38.5	--	--
ASGROW AG5905	None	10-11	37	1	37.1	--	--
ASGROW AG5301	None	10-06	30	1	36.3	57.1*	46.7
GROUP 5 AVERAGE		10-07	32	3	48.4	56.4	52.4
L.S.D. AT .10				0	9.3	3.8	
C.V. %					13.7	4.9	
TEST AVERAGE			30	2	48.2	53.4	50.8

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 31. **Glyphosate Resistant Soybean Test**
Southeast Region: Portageville (Loam), MO (Pemiscot County)

Soil Type: Dundee Silt Loam
Soil Test: pH=6.2, OM=2.1%, P=122, K=443

Cyst Nematode Population at Planting: 1980 Eggs/250cc of soil
Rainfall: May= 6.8, June= 3.5, July= 6.0, Aug.= 3.2, Sept.= 0.0 Total=19.5 in.
Irrigation: 8 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
MATURITY GROUP 4							
UniSouth USG 7440nRR	2	9-09	38	1	82.3**	72.9	77.6
Delta Pine DP 4331 RR	None	9-07	35	2	80.8*	73.4	77.1
Delta King DK4461RR	2, 4, 8	9-09	39	2	79.1*	73.9	76.5
Delta King DKXTJ542	2, 4, 8	9-19	37	3	78.9*	--	--
Delta King DKXTJ548	2, 4, 8	9-10	39	1	78.9*	--	--
Armor 44-R4	None	9-09	33	1	78.7*	75.3	77.0
Delta Grow 4840RR	None	9-07	36	2	78.4*	--	--
Delta Pine DPX 4891RR	None	9-08	39	2	78.0*	--	--
UniSouth USG 7484nRR	2	9-07	36	2	77.7*	--	--
Stine S4842-4	None	9-10	37	2	77.4*	79.6*	78.5
Dyna Gro DG36M49	None	9-19	36	3	77.2*	--	--
Mersch. Rocky RR	1, 5	9-06	38	1	77.1*	74.5*	75.8
MPride/MPV 4404nRR	3, 5	9-09	32	1	76.7	--	--
Delta Grow 4970RR	None	9-10	40	2	76.7	--	--
Armor GP474	None	9-14	32	2	76.4	74.4	75.4
MFA Morsoy RT 4993N	2	9-09	36	2	76.3	85.8**	81.1
Southern Cross Michael	None	9-01	25	1	76.2	80.7*	78.5
Gateway 4R495	None	8-29	38	2	76.1	--	--
Southern Cross Silas	None	9-08	37	2	75.5	69.5	72.5
Delta King DK4967RR	2, 4, 8	9-06	33	3	75.4	53.9	64.7
MPride/MPV 4805nRR	3, 5	9-10	37	1	75.3	--	--
Pioneer 94B73	None	9-09	34	1	75.3	74.5	74.9
Progeny PGY 4804RR	None	9-09	34	2	75.2	--	--
MPride/MPV 4905nRR	3, 5	9-19	36	3	75.2	--	--
Hornbeck HBK R4820	None	9-09	42	1	74.9	72.6	73.8
ASGROW AG4403	None	9-18	40	2	74.8	73.1	74.0
Delta King DK4868RR	2, 4, 8	9-10	38	2	74.5	74.9	74.7
Armor 49-T3	None	9-10	45	4	74.5	--	--
Golden Harvest H-4749RR	None	9-08	30	3	74.2	--	--
ASGROW AG4902	None	9-08	38	2	74.2	--	--
Delta King DK4763RR	2, 4, 8	9-02	30	1	74.1	75.7	74.9
ASGROW AG4903	None	9-05	37	2	73.7	--	--
UniSouth USG 7499nRR	2	9-10	35	2	73.6	74.6	74.1
UniSouth USG 7482nRR	2	9-09	35	3	73.6	69.7	71.6
Armor 47-G7	None	9-10	33	2	73.5	75.5	74.5
Dyna Gro DG3481NRR	2	9-08	31	4	73.4	70.1	71.8
Progeny 4949RR	None	9-05	39	2	73.4	71.5	72.5
Delta Grow 4860RR	None	9-07	30	3	73.3	73.0	73.2
Dyna Gro DG3443NRR	2	9-10	46	2	73.3	70.5	71.9
Dyna Gro DG3484NRR	None	9-09	34	4	73.0	--	--
Golden Harvest H-4368RR	None	8-28	28	1	72.9	--	--
Hornbeck HBK R4924	None	9-19	47	2	72.7	--	--
Garst 4612RR/N	None	9-06	32	3	72.6	--	--
Progeny 4401RR	None	9-07	39	2	72.4	67.9	70.2
Gateway 4R485	None	9-06	32	4	72.4	66.5	69.5

TABLE 31. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
Mersch. Dallas RR	1, 5	9-07	32	4	72.1	72.7	72.4
DEKALB DKB46-51	None	9-06	31	1	71.8	74.1	73.0
ASGROW AG4801	None	9-08	30	1	71.7	--	--
Mersch. Phoenix IIRR	1, 5	8-30	25	1	71.3	73.2	72.3
Mersch. Austin RR	1, 5	9-04	24	1	71.3	78.0	74.7
Progeny PGY 4304RR	None	8-31	30	1	70.8	--	--
Southern Cross Titus	None	9-15	39	2	70.8	66.8	68.8
NK Brand S49-Q9	2	9-17	45	4	70.7	70.9	70.8
Armor 44-R5	None	8-29	47	3	70.3	78.5*	74.4
Delta Pine DP 4724 RR	None	9-04	28	2	70.3	68.2	69.3
Vigoro V48N5RR	2	9-09	30	1	70.0	--	--
Hornbeck HBK R4724	None	9-07	32	1	69.8	--	--
ASGROW AG4201	None	9-01	31	1	69.8	--	--
UniSouth USG 7473nRR	2	9-15	40	3	69.7	--	--
Gateway 4RS421	None	9-01	24	1	69.6	--	--
Pioneer 94M90	None	9-08	40	3	69.5	--	--
Pioneer 94B74	None	9-04	36	4	69.4	73.3	71.4
Armor GP499	None	9-12	36	4	69.3	--	--
Pioneer 94M70	None	9-04	37	3	69.3	72.5	70.9
Delta King DKXTJ546	2, 4, 8	9-05	32	3	69.0	--	--
Delta King DKXTJ54J9	2, 4, 8	9-18	39	3	68.9	--	--
Excel Brand 8499NRR	None	9-06	30	1	68.4	73.9	71.2
ASGROW AG4502	None	9-02	33	2	67.9	71.3	69.6
Terral TVX48RL27	2, 4	9-09	40	3	67.9	--	--
Mersch. Denver RRSTS	1, 5	9-05	36	2	67.9	69.2	68.6
Delta Grow 4340RR	None	9-01	31	1	67.7	--	--
Stine S4542-4	None	9-05	35	2	67.5	75.5	71.5
Terral TVX45RN21	2, 4	9-02	25	1	67.5	--	--
Gateway 4R451	None	9-05	32	3	67.3	--	--
ASGROW AG4603	None	8-29	29	1	67.3	70.8	69.1
Progeny PGY 4604RR	None	9-06	33	1	67.2	--	--
Delta Grow 4630RR	None	9-06	36	2	67.2	--	--
Delta King DK3968RR##	2, 4, 8	8-26	28	2	67.2	72.7	70.0
MPride/MPV 4904nRR	3, 5	9-18	45	2	66.5	64.7	65.6
Progeny 4860RR	None	9-19	30	1	66.4	71.6	69.0
Delta King DKXTJ549	2, 4, 8	8-27	44	4	66.4	--	--
Delta King DKXTJ448	2, 4, 8	9-14	47	2	66.2	63.5	64.9
UniSouth USG 7443nRR	2	9-18	28	2	66.1	64.7	65.4
Delta King DKXTJ543	2, 4, 8	8-30	29	1	66.0	--	--
FFR 4922RR	2	9-18	48	3	65.7	61.5	63.6
Delta King DKXTJ541	2, 4, 8	8-30	30	1	65.6	--	--
Delta Pine DP 3861RR##	None	8-21	29	1	65.4	--	--
Delta King DKXTJ54X9	2, 4, 8	9-04	40	2	65.1	--	--
Pioneer 94M41	None	9-04	29	1	65.0	--	--
Delta Pine DP 4546RR	None	9-09	44	3	64.9	--	--
Progeny 3900RR##	None	8-27	32	1	64.5	70.7	67.6
Hornbeck HBK R4023	None	9-04	32	4	64.3	--	--
Progeny 4703RR	None	9-01	45	4	63.5	--	--
Mersch. Washington IXRR##	1, 5	9-15	35	1	63.4	79.4*	71.4
Delta Pine DPX 3950RR##	None	8-27	29	2	63.4	--	--
Delta Grow 4960RR	None	8-24	28	1	63.4	76.9	70.2
Delta King DK3964RR##	2, 4, 8	9-05	34	3	63.3	--	--
Excel Brand 8492NRR	None	9-06	33	1	63.3	--	--
Delta King DKXTJ446	2, 4, 8	9-06	41	1	63.2	65.1	64.2

TABLE 31. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
Dyna Gro DG3463NRR	None	9-09	48	3	63.1	--	--
Hornbeck HBK R4623	None	9-07	37	4	63.1	60.8	62.0
Hornbeck HBK R4945CX	None	9-11	39	2	62.9	--	--
Armor 39-E9##	None	8-27	26	1	62.7	67.6	65.2
Delta Pine DP 4933 RR	None	9-15	45	3	61.9	61.1	61.5
ASGROW AG4102	None	9-15	37	1	61.1	--	--
GROUP 4 AVERAGE		9-07	35	2	70.7	70.5	70.6
L.S.D. AT .10					5.4	7.7	
C.V. %					5.4	7.7	
MATURITY GROUP 5							
Progeny 5822RR	None	9-29	28	2	86.7**	71.4*	79.1
MFA Morsoy RT 5773	None	9-26	31	1	83.3*	--	--
Golden Harvest H-5053RR	None	9-11	38	4	82.9*	--	--
Delta King DK5767RR	2, 4, 8	9-27	33	1	82.9*	74.6**	78.8
Dyna Gro DG38K57	None	9-28	25	1	81.4*	70.5*	76.0
FFR 5033RR	2	9-22	31	3	81.1*	--	--
UniSouth USG 7563nRR	2	9-21	32	2	80.9*	69.4*	75.2
DEKALB DKB54-52	None	9-28	35	1	80.8*	--	--
Terral TV57R14	2, 4	9-25	32	1	80.5*	--	--
ASGROW AG5905	None	9-30	25	2	80.2*	--	--
Dyna Gro DG3562NRR	None	9-25	31	3	78.8	68.1	73.5
MFA Morsoy RT 5553N	None	9-21	36	1	78.4	68.0	73.2
Progeny 5703RR	None	9-25	32	1	78.0	71.2*	74.6
NK Brand S56-D7	None	9-20	32	1	78.0	--	--
Dyna Gro DG33B52	None	9-24	27	2	77.8	68.4*	73.1
FFR 5663RR	2	9-21	27	1	77.8	--	--
UniSouth USG 7523nRR	2	9-29	29	1	77.3	--	--
UniSouth USG 7514nRR	2	9-23	30	2	77.3	--	--
Delta King DK5366RR	2, 4, 8	9-28	25	3	77.0	73.0*	75.0
Delta Grow 5650RR	None	9-29	30	1	76.9	66.9	71.9
ASGROW AG5903	None	10-02	31	1	76.4	--	--
Delta King DK5668RR	2, 4, 8	9-30	28	1	76.2	67.5	71.9
Delta King DK5161RR	2, 4, 8	9-26	31	3	76.0	67.4	71.7
Armor GP530	None	9-28	35	1	75.9	--	--
NK Brand S50-N3	None	9-30	45	5	75.8	--	--
Hornbeck HBK 5324	None	9-21	26	1	75.6	--	--
Delta Grow 5630RR	None	10-01	26	2	75.5	70.3*	72.9
NK Brand S52-U3	2	9-21	28	1	75.4	63.1	69.3
Pioneer 95B32	None	9-25	33	1	75.3	58.7	67.0
Delta Grow 5260RR	None	9-26	30	2	75.3	59.5	67.4
Armor GP513	None	9-25	24	5	74.9	67.1	71.0
UniSouth USG 510nRR	2	9-21	33	1	74.8	63.0	68.9
Armor 56-J6	None	9-27	33	4	74.8	68.4*	71.6
Vigoro V562NRR	None	9-29	23	4	74.5	71.8*	73.2
MPride/MPV 5505nRR	3, 5	9-28	34	1	73.7	--	--
Dyna Gro DG3583NRR	None	9-30	31	1	73.5	67.9	70.7
FFR 5225RR	2	9-25	30	1	73.5	63.8	68.7
Delta King DKXTJ555	2, 4, 8	9-28	30	1	73.4	--	--
ASGROW AG5501	None	10-01	25	1	73.3	71.8*	72.6
Delta Grow 5460RR	None	9-26	25	1	73.3	67.5	70.4
Delta Pine DP 5634 RR	None	9-29	28	4	73.3	69.4*	71.4

TABLE 31. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
Progeny 5503RR	None	9-19	29	1	73.1	72.9*	73.0
Progeny 5250RR	None	10-01	33	1	73.1	66.5	69.8
Delta Pine DP 5414RR	None	9-18	33	1	72.9	62.7	67.8
UniSouth USG 7504nRR	2	9-16	26	4	72.9	--	--
Progeny PGY 5622RR	None	10-01	27	1	72.6	--	--
MFA Morsoy RT 5204	None	9-19	29	1	72.5	--	--
Delta King DK55T6	2, 4, 8	9-29	27	1	71.9	--	--
Delta King DKXTJ5K57	2, 4, 8	9-24	29	1	71.9	--	--
Progeny 5404RR	None	9-24	26	1	71.5	--	--
ASGROW AG5605	None	9-28	28	1	71.4	72.6*	72.0
Armor 58-V8	None	9-26	27	1	71.4	67.9	69.7
Hornbeck HBK 5524	None	9-19	31	3	71.2	--	--
Delta Pine DP 5915 RR	None	9-30	33	1	71.2	69.1*	70.1
Garst 5212RR/N	None	9-27	32	1	71.1	62.3	66.7
ASGROW AG5301	None	9-29	32	1	71.0	66.6	68.8
Hornbeck HBK R5624	None	9-25	27	1	70.9	--	--
Pioneer 95B42	None	9-21	30	1	70.7	57.3	64.0
Golden Harvest H-5492RR	None	9-24	29	1	70.4	55.9	63.2
Delta King DKXTJ55J5	2, 4, 8	9-26	33	4	70.3	--	--
Mersch. Everest RR	1, 5	9-25	30	3	70.3	63.0	66.7
Hornbeck HBK R5620	None	9-26	30	2	70.0	69.3*	69.7
Mersch. Rushmore 553RR	1, 5	9-26	32	2	70.0	--	--
Progeny 5660RR	None	9-29	31	2	69.4	69.8*	69.6
Delta King DKXTJ554	2, 4, 8	9-27	24	1	69.3	--	--
Garst 5412RR/STS/N	None	9-30	27	1	69.2	--	--
Dyna Gro DG3535NRR	None	10-01	31	1	68.4	68.6*	68.5
Armor 53-K3	None	10-01	27	1	68.4	55.1	61.8
Pioneer 95B43	None	9-20	27	1	68.0	61.9	65.0
Delta Grow 5555RR	None	9-25	32	1	66.9	--	--
Delta Pine DPX 5808RR	None	9-30	32	4	66.8	--	--
UniSouth USG 7553nRS	2	9-25	28	1	66.6	68.3*	67.5
Gateway 5R531	None	9-24	36	1	66.6	62.7	64.7
Terral TVX55RL23	2, 4	9-21	35	3	66.0	--	--
Mersch. Olympus RR	1, 5	9-11	35	5	65.3	60.9	63.1
Armor 54-03	None	9-25	24	1	65.2	--	--
Progeny PGY 5714RR	None	10-03	37	3	64.9	--	--
Delta King DK5465RR	2, 4, 8	9-29	29	1	64.0	61.0	62.5
Delta King DK5967RR	2, 4, 8	10-04	30	1	63.4	70.2*	66.8
MPride/MPV 5504nRR	3, 5	9-27	28	4	60.0	66.5	63.3
GROUP 5 AVERAGE		9-26	30	2	73.4	65.5	69.5
L.S.D. AT .10					7.5	6.4	
C.V. %					7.2	6.9	
TEST AVERAGE			33	2	71.8	68.1	70.0

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 32. **Glyphosate Resistant Soybean Test**
Southeast Region: Portageville (Clay), MO (Pemiscot County)

Soil Type: Sharkey Clay
Soil Test: pH=6.9, OM=2.7%, P=108, K=577

Cyst Nematode Population at Planting: 495 Eggs/250cc of soil
Rainfall: May= 6.8, June= 3.5, July= 6.0, Aug.= 3.2, Sept.= 0.0 Total=19.5 in.
Irrigation: 8 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
MATURITY GROUP 4							
Gateway 4R495	None	9-19	34	2	77.2**	--	--
UniSouth USG 7440nRR	2	9-16	34	2	76.2*	40.0	58.1
Mersch. Rocky RR	1, 5	9-18	36	3	76.2*	48.2	62.2
Mersch. Austin RR	1, 5	9-12	29	1	75.8*	39.0	57.4
Delta King DK4461RR	2, 4, 8	9-17	36	2	75.2*	46.2	60.7
MPride/MPV 4905nRR	3, 5	9-16	35	2	75.2*	--	--
Progeny 4949RR	None	9-21	40	3	74.7*	53.2*	64.0
Progeny PGY 4804RR	None	9-20	28	1	74.5*	--	--
MPride/MPV 4805nRR	3, 5	9-18	34	3	74.5*	--	--
Progeny 4401RR	None	9-17	39	2	74.4*	42.3	58.4
Pioneer 94B73	None	9-14	34	2	74.0*	42.9	58.5
Dyna Gro DG3481NRR	2	9-14	36	3	73.9*	39.0	56.5
Gateway 4R485	None	9-17	34	2	73.9*	46.3	60.1
Southern Cross Michael	None	9-11	36	1	73.8*	38.7	56.3
Stine S4842-4	None	9-16	35	2	73.6*	51.8*	62.7
Dyna Gro DG36M49	None	9-18	31	3	73.6*	--	--
Delta Grow 4970RR	None	9-18	40	2	73.4*	--	--
Armor GP499	None	9-17	36	1	73.2*	--	--
Delta King DKXTJ542	2, 4, 8	9-19	39	2	72.7*	--	--
UniSouth USG 7482nRR	2	9-15	36	3	72.7*	39.6	56.2
ASGROW AG4801	None	9-14	32	2	72.5*	--	--
Gateway 4RS421	None	9-15	27	1	72.5*	--	--
Delta Grow 4840RR	None	9-16	35	2	72.5*	--	--
MPride/MPV 4404nRR	3, 5	9-15	38	1	72.5*	--	--
ASGROW AG4903	None	9-19	33	3	72.4*	--	--
Mersch. Phoenix IIIR	1, 5	9-09	31	1	72.4*	46.0	59.2
Armor GP474	None	9-15	32	2	72.4*	49.6	61.0
Hornbeck HBK R4820	None	9-16	36	2	72.3*	42.8	57.6
Delta Pine DPX 4891RR	None	9-15	34	2	72.0*	--	--
Delta King DK4763RR	2, 4, 8	9-11	30	1	72.0*	39.0	55.5
Delta Pine DP 4724 RR	None	9-14	39	2	71.9*	40.7	56.3
Delta Pine DP 4331 RR	None	9-13	32	1	71.9*	44.7	58.3
Hornbeck HBK R4724	None	9-01	36	2	71.7*	--	--
MFA Morsoy RT 4993N	2	9-14	34	2	71.6*	51.9*	61.8
Delta King DK4967RR	2, 4, 8	9-17	34	2	71.3*	47.9	59.6
DEKALB DKB46-51	None	9-16	30	2	71.3*	44.6	58.0
Dyna Gro DG3443NRR	2	9-15	41	1	71.1*	46.1	58.6
Delta King DK4868RR	2, 4, 8	9-20	33	1	70.7*	54.6*	62.7
Pioneer 94B74	None	9-09	34	2	70.5*	58.5**	64.5
Armor 44-R5	None	9-06	24	1	70.4	46.7	58.6
Delta Grow 4860RR	None	9-14	34	3	70.0	46.1	58.1
Armor 47-G7	None	9-14	36	1	69.9	37.0	53.5
Armor 44-R4	None	9-15	35	2	69.6	40.4	55.0
Hornbeck HBK R4924	None	9-25	42	3	69.5	--	--
UniSouth USG 7484nRR	2	9-14	32	1	69.5	--	--

TABLE 32. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
NK Brand S49-Q9	2	9-21	36	1	69.5	48.4	59.0
ASGROW AG4403	None	9-09	35	1	69.3	46.2	57.8
Mersch. Dallas RR	1, 5	9-14	36	4	69.1	40.7	54.9
Progeny 3900RR##	None	9-02	32	1	69.0	37.3	53.2
UniSouth USG 7499nRR	2	9-23	37	2	68.8	38.5	53.7
ASGROW AG4902	None	9-14	37	1	68.5	--	--
Southern Cross Silas	None	9-14	40	1	68.5	48.5	58.5
Delta Pine DPX 3950RR##	None	9-01	30	1	68.2	--	--
Mersch. Washington IXRR##	1, 5	9-03	31	1	68.1	39.5	53.8
Dyna Gro DG3484NRR	None	9-15	40	2	68.1	--	--
Golden Harvest H-4749RR	None	9-14	37	2	68.0	--	--
ASGROW AG4603	None	9-14	34	1	67.9	42.2	55.1
Delta Pine DP 4546RR	None	9-15	37	2	67.8	--	--
Excel Brand 8499NRR	None	9-15	35	2	67.5	50.4	59.0
Garst 4612RR/N	None	9-16	34	2	67.5	--	--
Terral TVX48RL27	2, 4	9-22	36	2	67.0	--	--
ASGROW AG4502	None	9-09	32	1	67.0	42.4	54.7
Excel Brand 8492NRR	None	9-15	35	3	66.8	--	--
Pioneer 94M90	None	9-18	37	3	66.8	--	--
Mersch. Denver RRSTS	1, 5	9-10	35	2	66.8	40.1	53.5
Golden Harvest H-4368RR	None	9-13	28	1	66.8	--	--
Pioneer 94M70	None	9-08	35	3	66.7	45.3	56.0
UniSouth USG 7443nRR	2	9-07	32	1	66.5	36.7	51.6
Southern Cross Titus	None	9-18	38	2	66.5	35.7	51.1
Vigoro V48N5RR	2	9-15	35	3	66.4	--	--
Terral TVX45RN21	2, 4	9-14	36	2	65.9	--	--
Stine S4542-4	None	9-16	36	3	65.8	43.1	54.5
Delta Grow 4340RR	None	9-03	27	1	65.8	--	--
Progeny 4703RR	None	9-20	38	4	65.7	--	--
Delta King DK3968RR##	2, 4, 8	9-01	29	1	65.6	36.5	51.1
Armor 49-T3	None	9-19	38	4	65.4	--	--
Delta Grow 4960RR	None	9-22	29	2	65.4	49.1	57.3
Delta King DKXTJ548	2, 4, 8	9-14	36	1	65.2	--	--
Progeny 4860RR	None	9-24	32	1	65.0	51.8*	58.4
Pioneer 94M41	None	9-03	30	1	64.1	--	--
ASGROW AG4201	None	9-09	30	1	64.1	--	--
Progeny PGY 4604RR	None	9-14	38	2	63.8	--	--
UniSouth USG 7473nRR	2	9-11	35	3	63.8	--	--
Progeny PGY 4304RR	None	9-04	28	1	63.6	--	--
Delta King DKXTJ541	2, 4, 8	9-03	32	1	63.4	--	--
Delta King DKXTJ543	2, 4, 8	9-06	26	1	62.9	--	--
Delta King DKXTJ546	2, 4, 8	9-15	35	1	62.8	--	--
Delta King DKXTJ549	2, 4, 8	9-18	39	4	62.4	--	--
Delta Grow 4630RR	None	9-15	34	1	62.4	--	--
Hornbeck HBK R4023	None	9-08	36	4	62.2	--	--
Delta King DKXTJ54J9	2, 4, 8	9-20	42	4	61.9	--	--
Armor 39-E9##	None	9-01	28	1	61.4	33.9	47.7
Delta King DKXTJ448	2, 4, 8	9-18	42	4	60.9	54.2*	57.6
Delta Pine DP 4933 RR	None	9-20	46	4	60.8	40.8	50.8
Dyna Gro DG3463NRR	None	9-10	37	1	60.6	--	--
FFR 4922RR	2	9-18	44	3	59.1	36.6	47.9
MPride/MPV 4904nRR	3, 5	9-18	36	4	58.7	46.9	52.8
ASGROW AG4102	None	9-01	32	1	58.5	--	--
Delta King DKXTJ54X9	2, 4, 8	9-14	36	2	57.8	--	--

TABLE 32. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
Delta King DKXTJ446	2, 4, 8	9-14	36	2	57.1	40.9	49.0
Delta Pine DP 3861RR##	None	9-01	30	1	57.0	--	--
Gateway 4R451	None	9-14	38	2	53.8	--	--
Hornbeck HBK R4945CX	None	9-15	35	1	53.8	--	--
Hornbeck HBK R4623	None	9-15	38	3	51.9	43.1	47.5
Delta King DK3964RR##	2, 4, 8	9-01	34	2	50.1	--	--
GROUP 4 AVERAGE		9-14	35	2	67.8	43.7	55.8
L.S.D. AT .10					6.7	7.4	
C.V. %					7.0	12.2	
MATURITY GROUP 5							
Golden Harvest H-5053RR	None	9-25	37	3	68.0**	--	--
Armor GP513	None	9-22	30	1	67.9*	49.9	58.9
Mersch. Rushmore 553RR	1, 5	9-24	36	3	67.2*	--	--
Delta King DK5161RR	2, 4, 8	9-23	31	1	66.6*	46.5	56.6
FFR 5033RR	2	9-22	29	1	66.1*	--	--
UniSouth USG 7563nRR	2	9-28	35	2	64.8*	51.2*	58.0
Delta Grow 5460RR	None	9-27	29	1	64.8*	50.3	57.6
Mersch. Olympus RR	1, 5	9-21	37	1	64.8*	36.3	50.6
Progeny 5660RR	None	10-03	35	1	64.4*	54.2*	59.3
Dyna Gro DG33B52	None	9-24	30	3	64.3*	50.0	57.2
ASGROW AG5605	None	9-26	21	1	64.1*	54.8*	59.5
Progeny 5250RR	None	9-25	21	1	64.0*	42.3	53.2
Delta King DK5767RR	2, 4, 8	9-30	35	1	63.4*	49.0	56.2
NK Brand S50-N3	None	9-24	41	2	63.2*	--	--
Delta King DKXTJ5K57	2, 4, 8	9-25	31	1	63.0*	--	--
MFA Morsoy RT 5773	None	9-30	33	2	63.0*	--	--
Hornbeck HBK 5324	None	9-22	25	1	62.9*	--	--
UniSouth USG 7504nRR	2	9-25	36	2	62.6*	--	--
UniSouth USG 7523nRR	2	9-26	30	1	62.5*	--	--
Delta King DK5668RR	2, 4, 8	9-26	33	2	62.3*	49.6	56.0
Delta King DKXTJ554	2, 4, 8	9-22	29	1	62.3*	--	--
Delta King DKXTJ555	2, 4, 8	9-27	20	1	62.2*	--	--
Pioneer 95B32	None	9-22	33	1	61.7	46.2	54.0
FFR 5663RR	2	9-26	29	2	61.7	--	--
Progeny 5703RR	None	9-29	30	3	61.5	46.5	54.0
Progeny 5404RR	None	9-29	26	2	61.3	--	--
Delta Grow 5630RR	None	10-01	33	1	61.3	53.3*	57.3
Delta Pine DPX 5808RR	None	9-29	37	3	61.1	--	--
ASGROW AG5301	None	9-24	29	1	61.1	48.2	54.7
Delta Grow 5650RR	None	10-01	35	4	61.0	49.3	55.2
Garst 5212RR/N	None	9-24	35	1	60.9	42.8	51.9
Pioneer 95B42	None	9-26	35	2	60.9	40.0	50.5
UniSouth USG 7553nRS	2	9-28	29	1	60.9	48.5	54.7
DEKALB DKB54-52	None	9-26	37	1	60.9	--	--
Terral TV57R14	2, 4	9-30	35	2	60.6	--	--
NK Brand S56-D7	None	9-24	34	4	60.6	--	--
Vigoro V562NRR	None	9-29	30	1	60.4	54.5*	57.5
Progeny 5503RR	None	9-27	33	1	60.2	47.1	53.7
Pioneer 95B43	None	9-23	29	1	60.2	44.7	52.5
Dyna Gro DG3583NRR	None	9-24	30	2	59.8	56.4**	58.1
MPride/MPV 5505nRR	3, 5	9-29	33	1	59.6	--	--

TABLE 32. Continued.

Brand-Variety	Seed Treatment ⁺	2004			Yield		
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	2 Yr. Mean
					-----bu/acre-----		
Armor 54-03	None	9-25	31	1	59.6	--	--
UniSouth USG 7514nRR	2	9-24	33	1	59.5	--	--
Armor 58-V8	None	10-01	33	2	59.5	55.6*	57.6
ASGROW AG5501	None	9-24	35	1	59.5	49.2	54.4
FFR 5225RR	2	9-25	37	1	59.2	40.7	50.0
Armor 56-J6	None	10-02	39	3	58.8	54.9*	56.9
Hornbeck HBK R5620	None	9-25	34	1	58.7	52.3*	55.5
Dyna Gro DG38K57	None	9-29	34	2	58.7	48.7	53.7
Delta King DK5366RR	2, 4, 8	9-27	29	3	58.5	51.9*	55.2
ASGROW AG5903	None	9-29	30	1	58.5	--	--
Delta King DK55T6	2, 4, 8	10-02	31	1	58.4	--	--
Progeny 5822RR	None	10-01	35	2	58.4	56.2*	57.3
MFA Morsoy RT 5204	None	9-22	29	1	58.4	--	--
UniSouth USG 510nRR	2	9-23	33	1	58.4	37.7	48.1
Delta Grow 5555RR	None	9-25	34	3	58.0	--	--
NK Brand S52-U3	2	9-22	30	1	58.0	37.7	47.9
Dyna Gro DG3562NRR	None	9-28	30	1	57.7	52.3*	55.0
MFA Morsoy RT 5553N	None	9-28	40	1	57.7	48.7	53.2
Delta Pine DP 5414RR	None	9-29	37	2	57.6	45.8	51.7
Mersch. Everest RR	1, 5	9-26	29	1	57.6	37.8	47.7
Garst 5412RR/STS/N	None	9-24	33	2	57.4	--	--
Delta Pine DP 5915 RR	None	10-03	31	2	57.4	47.2	52.3
Delta King DK5967RR	2, 4, 8	10-03	33	1	57.1	54.4*	55.8
Delta Grow 5260RR	None	9-24	33	1	56.9	41.0	49.0
Gateway 5R531	None	9-24	31	1	56.8	46.6	51.7
Golden Harvest H-5492RR	None	10-01	29	1	56.7	43.9	50.3
Delta Pine DP 5634 RR	None	9-27	30	1	56.4	54.7*	55.6
Delta King DK5465RR	2, 4, 8	9-23	29	1	56.2	42.7	49.5
MPride/MPV 5504nRR	3, 5	9-30	33	4	55.9	47.4	51.7
Armor 53-K3	None	9-24	27	1	55.5	38.8	47.2
Progeny PGY 5622RR	None	10-04	35	1	55.2	--	--
Armor GP530	None	9-28	37	4	54.6	--	--
Hornbeck HBK 5524	None	9-28	35	2	54.3	--	--
Terral TVX55RL23	2, 4	9-25	31	3	54.0	--	--
ASGROW AG5905	None	9-28	40	1	53.9	--	--
Delta King DKXTJ55J5	2, 4, 8	9-30	36	3	53.4	--	--
Hornbeck HBK R5624	None	9-25	30	1	52.9	--	--
Progeny PGY 5714RR	None	10-03	31	4	51.7	--	--
Dyna Gro DG3535NRR	None	9-29	27	3	50.6	48.1	49.4
GROUP 5 AVERAGE		9-27	32	2	59.8	46.7	53.3
L.S.D. AT .10					6.2	5.6	
C.V. %					7.3	8.5	
TEST AVERAGE			34	2	64.3	45.2	54.8

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

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 33. Performance Summary for Glyphosate Resistant Varieties evaluated at Five Southeast Missouri locations (Oran, East Prairie, Morehouse, Portageville (Loam), Portageville (Clay)) during 2004.

<u>Oran</u> Planted: 05-28,29 Harvested: 10-04, 11-08 Growing Season Rainfall: 13.8 in.	<u>East Prairie</u> Planted: 05-24 Harvested: 10-06, 11-06 Growing Season Rainfall: 16.9 in.	<u>Morehouse</u> Planted: 05-24 Harvested: 10-05, 11-10 Growing Season Rainfall: 19.4 in. Irrigation: 1.5 in.
<u>Portageville (Loam)</u> Planted: 04-29, 05-06 Harvested: 09-28, 11-04 Growing Season Rainfall: 19.5 in. Irrigation: 8 in.	<u>Portageville (Clay)</u> Planted: 05-07 Harvested: 09-27, 10-07 Growing Season Rainfall: 19.5 in. Irrigation: 8 in.	

Brand-Variety	Yield (Bu/Acre)					Mean
	Oran	East Prairie	Morehouse	Portageville (Loam)	Portageville (Clay)	
MATURITY GROUP 4						
Mersch. Rocky RR	55.0*	55.1*	54.8*	77.1*	76.2*	63.6**
Delta Pine DPX 4891RR	50.5	56.4**	53.2*	78.0*	72.0*	62.0*
UniSouth USG 7484nRR	56.2*	52.2*	52.2*	77.7*	69.5	61.6*
MFA Morsoy RT 4993N	52.7	46.7*	56.1*	76.3	71.6*	60.7*
Delta Grow 4840RR	53.3	47.2*	52.0*	78.4*	72.5*	60.7*
Gateway 4R495	52.1	47.7*	49.8	76.1	77.2**	60.6*
MPride/MPV 4905nRR	50.5	47.7*	53.3*	75.2	75.2*	60.4*
Armor GP474	53.2	46.7*	52.8*	76.4	72.4*	60.3*
Mersch. Austin RR	57.3*	42.1	53.5*	71.3	75.8*	60.0
UniSouth USG 7440nRR	52.3	39.0	50.0	82.3**	76.2*	60.0
UniSouth USG 7482nRR	58.9*	41.0	53.4*	73.6	72.7*	59.9
MPride/MPV 4805nRR	55.0*	42.6	51.0*	75.3	74.5*	59.7
Delta Grow 4970RR	48.1	41.6	57.0**	76.7	73.4*	59.4
ASGROW AG4801	53.0	50.0*	49.1	71.7	72.5*	59.2
Delta Pine DP 4331 RR	57.5*	40.3	45.0	80.8*	71.9*	59.1
Delta King DK4763RR	56.6*	40.5	52.2*	74.1	72.0*	59.1
Golden Harvest H-4749RR	51.3	49.4*	51.9*	74.2	68.0	59.0
Delta King DK4967RR	59.6**	34.5	52.8*	75.4	71.3*	58.7
Gateway 4R485	55.5*	37.9	53.5*	72.4	73.9*	58.6
Progeny 4401RR	54.9*	43.9	47.5	72.4	74.4*	58.6
Southern Cross Michael	57.8*	36.4	48.9	76.2	73.8*	58.6
Delta King DKXTJ542	51.2	37.2	52.8*	78.9*	72.7*	58.6
Golden Harvest H-4368RR	54.6*	53.9*	44.4	72.9	66.8	58.5
Delta King DK4461RR	58.8*	32.3	47.2	79.1*	75.2*	58.5
Garst 4612RR/N	54.9*	43.8	53.7*	72.6	67.5	58.5
Progeny PGY 4804RR	51.6	43.0	48.1	75.2	74.5*	58.5
Dyna Gro DG36M49	44.6	48.3*	47.3	77.2*	73.6*	58.2
Delta Grow 4860RR	53.4	46.3*	47.0	73.3	70.0	58.0
DEKALB DKB46-51	52.1	43.6	51.0*	71.8	71.3*	58.0
Mersch. Phoenix IIRR	52.8	42.0	51.3*	71.3	72.4*	58.0
ASGROW AG4403	51.7	42.2	51.2*	74.8	69.3	57.8
Stine S4842-4	47.6	38.5	51.3*	77.4*	73.6*	57.7
Dyna Gro DG3481NRR	53.0	32.6	55.1*	73.4	73.9*	57.6
Hornbeck HBK R4820	59.1*	31.5	50.0	74.9	72.3*	57.6
Hornbeck HBK R4724	53.6	39.6	53.1*	69.8	71.7*	57.6
NK Brand S49-Q9	53.4	46.3*	46.7	70.7	69.5	57.3
Delta King DK4868RR	54.4*	37.3	49.3	74.5	70.7*	57.2
Progeny 4949RR	46.2	39.8	52.0*	73.4	74.7*	57.2
Armor GP499	49.7	45.9*	47.3	69.3	73.2*	57.1
Delta Pine DP 4724 RR	57.8*	35.7	49.3	70.3	71.9*	57.0

Table 33. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Oran	East Prairie	Morehouse	Portageville (Loam)	Portageville (Clay)	
Mersch. Dallas RR	53.0	39.7	50.9	72.1	69.1	57.0
UniSouth USG 7499nRR	54.5*	41.8	45.8	73.6	68.8	56.9
MPride/MPV 4404nRR	52.5	35.0	46.0	76.7	72.5*	56.5
Armor 44-R4	47.6	37.9	48.4	78.7*	69.6	56.4
Armor 44-R5	53.8*	34.9	52.4*	70.3	70.4	56.4
Gateway 4RS421	55.6*	28.9	54.9*	69.6	72.5*	56.3
Dyna Gro DG3443NRR	56.3*	32.4	48.3	73.3	71.1*	56.3
ASGROW AG4603	49.9	49.2*	47.0	67.3	67.9	56.3
Hornbeck HBK R4924	53.2	37.5	47.7	72.7	69.5	56.1
Armor 47-G7	51.6	34.8	50.6	73.5	69.9	56.1
Pioneer 94B73	54.1*	28.1	48.1	75.3	74.0*	55.9
Delta King DKXTJ548	54.9*	34.0	46.5	78.9*	65.2	55.9
Excel Brand 8499NRR	46.7	46.6*	50.1	68.4	67.5	55.8
Delta King DKXTJ546	50.5	52.0*	44.0	69.0	62.8	55.6
ASGROW AG4903	56.6*	22.6	51.1*	73.7	72.4*	55.3
Delta King DKXTJ549	51.5	46.7*	48.8	66.4	62.4	55.2
ASGROW AG4201	47.8	39.5	53.9*	69.8	64.1	55.0
Dyna Gro DG3484NRR	51.1	41.2	41.6	73.0	68.1	55.0
Vigoro V48N5RR	53.0	35.6	49.1	70.0	66.4	54.8
Delta Grow 4630RR	50.0	42.7	50.7	67.2	62.4	54.6
Southern Cross Silas	50.3	34.2	44.3	75.5	68.5	54.6
Pioneer 94M90	48.9	36.8	50.5	69.5	66.8	54.5
Southern Cross Titus	52.0	39.2	43.8	70.8	66.5	54.5
Progeny PGY 4604RR	50.5	48.3*	42.0	67.2	63.8	54.4
ASGROW AG4902	54.0*	25.9	47.5	74.2	68.5	54.0
Terral TVX48RL27	51.7	35.7	47.3	67.9	67.0	53.9
UniSouth USG 7443nRR	58.9*	26.0	52.0*	66.1	66.5	53.9
Pioneer 94B74	55.3*	27.7	46.3	69.4	70.5*	53.8
Delta King DKXTJ54J9	50.1	40.4	47.4	68.9	61.9	53.7
Progeny PGY 4304RR	52.9	33.1	48.1	70.8	63.6	53.7
Pioneer 94M41	49.6	38.9	50.9	65.0	64.1	53.7
UniSouth USG 7473nRR	52.7	42.2	38.4	69.7	63.8	53.4
Armor 49-T3	49.6	33.4	43.5	74.5	65.4	53.3
Stine S4542-4	50.6	29.3	52.6*	67.5	65.8	53.2
Delta King DKXTJ543	57.6*	28.1	49.1	66.0	62.9	52.7
Pioneer 94M70	45.5	30.2	51.0*	69.3	66.7	52.5
Delta Grow 4340RR	48.4	31.9	48.8	67.7	65.8	52.5
Mersch. Washington IXRR##	42.4	35.9	52.4*	63.4	68.1	52.4
Progeny 3900RR##	48.5	31.4	48.7	64.5	69.0	52.4
Mersch. Denver RRSTS	44.7	37.7	44.2	67.9	66.8	52.3
Delta Pine DPX 3950RR##	53.1	27.0	49.2	63.4	68.2	52.2
Hornbeck HBK R4023	43.9	43.2	46.6	64.3	62.2	52.0
Delta Grow 4960RR	48.3	39.2	43.1	63.4	65.4	51.9
Delta King DKXTJ541	49.8	39.2	41.3	65.6	63.4	51.8
Progeny 4860RR	49.6	30.5	47.7	66.4	65.0	51.8
Terral TVX45RN21	50.1	25.4	48.9	67.5	65.9	51.6
Delta Pine DP 4546RR	46.7	35.1	42.5	64.9	67.8	51.4
Delta King DKXTJ448	45.2	33.1	49.9	66.2	60.9	51.0
Dyna Gro DG3463NRR	47.8	39.9	43.3	63.1	60.6	50.9
Delta King DK3968RR##	44.5	35.7	40.5	67.2	65.6	50.7
Excel Brand 8492NRR	40.5	36.2	45.2	63.3	66.8	50.4
Delta King DKXTJ446	50.4	29.9	51.4*	63.2	57.1	50.4
Hornbeck HBK R4945CX	46.1	44.1	41.7	62.9	53.8	49.7
Delta King DKXTJ54X9	47.5	36.4	41.4	65.1	57.8	49.6
Gateway 4R451	46.6	35.3	44.9	67.3	53.8	49.6

Table 33. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Oran	East Prairie	Morehouse	Portageville (Loam)	Portageville (Clay)	
MPride/MPV 4904nRR	46.7	42.8	32.0	66.5	58.7	49.3
Hornbeck HBK R4623	49.7	36.2	42.7	63.1	51.9	48.7
Delta Pine DP 4933 RR	45.5	30.3	44.2	61.9	60.8	48.5
FFR 4922RR	45.6	27.3	44.4	65.7	59.1	48.4
Delta Pine DP 3861RR##	49.4	27.3	42.1	65.4	57.0	48.2
Delta King DK3964RR##	50.3	32.3	44.8	63.3	50.1	48.2
ASGROW AG4502	48.6	12.2	44.9	67.9	67.0	48.1
Armor 39-E9##	42.3	28.8	40.9	62.7	61.4	47.2
ASGROW AG4102	43.2	24.9	42.0	61.1	58.5	45.9
Progeny 4703RR	41.7	16.9	36.7	63.5	65.7	44.9
GROUP 4 AVERAGE	51.2	37.9	48.1	70.7	67.8	55.1
L.S.D. AT .10	5.8	12.0	6.0	5.4	6.7	3.4
C.V. %	8.1	22.8	8.7	5.4	7.0	10.4
MATURITY GROUP 5						
Golden Harvest H-5053RR	50.5*	46.5*	57.6*	82.9*	68.0**	61.1**
Progeny 5822RR	50.6*	39.4	58.1*	86.7**	58.4	58.6*
UniSouth USG 7563nRR	48.9*	42.7	52.3*	80.9*	64.8*	57.9*
Armor 58-V8	51.5**	49.2*	57.8*	71.4	59.5	57.9*
Delta King DK5161RR	48.4*	41.7	56.7*	76.0	66.6*	57.9*
UniSouth USG 7504nRR	47.1*	46.7*	59.6**	72.9	62.6*	57.8*
FFR 5033RR	49.9*	41.0	49.9	81.1*	66.1*	57.6*
Delta King DK5767RR	50.5*	42.6	48.1	82.9*	63.4*	57.5
MFA Morsoy RT 5773	45.6	42.2	53.2*	83.3*	63.0*	57.5
Dyna Gro DG33B52	40.9	40.1	59.1*	77.8	64.3*	56.4
Delta King DKXTJ5K57	46.0*	42.1	58.5*	71.9	63.0*	56.3
Delta Grow 5460RR	40.7	49.5*	52.3*	73.3	64.8*	56.1
Delta King DK5668RR	44.6	46.8*	50.7*	76.2	62.3*	56.1
FFR 5663RR	49.5*	38.3	52.9*	77.8	61.7	56.0
Delta Grow 5650RR	47.4*	46.0*	47.5	76.9	61.0	55.8
Delta King DK55T6	48.5*	50.8*	48.6	71.9	58.4	55.6
Terral TV57R14	47.7*	39.7	49.7	80.5*	60.6	55.6
Delta King DKXTJ555	45.2	37.7	58.9*	73.4	62.2*	55.5
DEKALB DKB54-52	43.4	43.2	47.5	80.8*	60.9	55.2
Dyna Gro DG3583NRR	48.0*	45.7*	47.7	73.5	59.8	54.9
Delta King DK5366RR	49.6*	43.3	46.3	77.0	58.5	54.9
UniSouth USG 7514nRR	46.4*	44.9*	46.0	77.3	59.5	54.8
Armor GP513	39.4	35.4	56.4*	74.9	67.9*	54.8
Progeny PGY 5622RR	49.1*	42.9	54.1*	72.6	55.2	54.8
Dyna Gro DG38K57	42.5	42.7	48.5	81.4*	58.7	54.8
UniSouth USG 510nRR	48.0*	50.1*	42.0	74.8	58.4	54.7
Progeny 5703RR	40.3	45.4*	47.6	78.0	61.5	54.6
ASGROW AG5501	42.5	46.5*	50.3*	73.3	59.5	54.4
Delta King DKXTJ554	46.0*	44.4*	50.1	69.3	62.3*	54.4
Progeny 5250RR	44.8	43.0	47.1	73.1	64.0*	54.4
ASGROW AG5605	46.0*	38.4	51.7*	71.4	64.1*	54.3
MPride/MPV 5505nRR	45.7	39.5	51.8*	73.7	59.6	54.0
Delta Pine DP 5634 RR	42.5	47.2*	50.2	73.3	56.4	53.9
Hornbeck HBK 5324	44.9	35.6	50.2	75.6	62.9*	53.8
Vigoro V562NRR	42.1	43.1	48.4	74.5	60.4	53.7

Table 33. Continued.

Brand-Variety	Yield (Bu/Acre)					Mean
	Oran	East Prairie	Morehouse	Portageville (Loam)	Portageville (Clay)	
Armor 56-J6	40.0	42.5	52.1*	74.8	58.8	53.6
Pioneer 95B32	42.7	38.0	49.7	75.3	61.7	53.5
NK Brand S56-D7	40.8	40.8	46.5	78.0	60.6	53.3
ASGROW AG5903	49.4*	33.4	48.8	76.4	58.5	53.3
Mersch. Rushmore 553RR	48.4*	32.3	48.2	70.0	67.2*	53.2
Delta Grow 5260RR	39.0	45.5*	48.8	75.3	56.9	53.1
Mersch. Everest RR	38.6	48.5*	50.0	70.3	57.6	53.0
Progeny 5503RR	44.3	39.1	48.1	73.1	60.2	53.0
MFA Morsoy RT 5553N	47.4*	37.3	42.8	78.4	57.7	52.7
Armor 53-K3	44.0	45.6*	49.7	68.4	55.5	52.6
Delta Grow 5630RR	39.9	42.9	43.5	75.5	61.3	52.6
Hornbeck HBK R5624	43.3	40.7	55.2*	70.9	52.9	52.6
ASGROW AG5301	41.6	52.9**	36.3	71.0	61.1	52.6
Mersch. Olympus RR	40.2	42.9	49.0	65.3	64.8*	52.4
UniSouth USG 7553nRS	46.7*	36.5	51.2*	66.6	60.9	52.4
Golden Harvest H-5492RR	37.3	48.6*	48.8	70.4	56.7	52.4
Gateway 5R531	43.6	48.6*	44.5	66.6	56.8	52.0
MFA Morsoy RT 5204	42.1	38.7	48.1	72.5	58.4	52.0
Pioneer 95B42	41.1	39.6	47.3	70.7	60.9	51.9
FFR 5225RR	45.4	38.7	42.6	73.5	59.2	51.9
Pioneer 95B43	44.1	39.2	47.9	68.0	60.2	51.9
Hornbeck HBK R5620	40.4	41.8	48.1	70.0	58.7	51.8
Progeny 5660RR	40.8	41.4	42.7	69.4	64.4*	51.7
Dyna Gro DG3562NRR	44.5	36.2	41.0	78.8	57.7	51.6
Armor 54-03	42.2	36.8	54.1*	65.2	59.6	51.6
NK Brand S50-N3	42.6	31.8	44.2	75.8	63.2*	51.5
Delta Pine DP 5915 RR	44.2	37.0	46.8	71.2	57.4	51.3
Delta King DK5967RR	49.1*	38.9	46.9	63.4	57.1	51.1
Dyna Gro DG3535NRR	43.0	40.9	52.1*	68.4	50.6	51.0
NK Brand S52-U3	38.7	39.4	43.1	75.4	58.0	50.9
Delta Pine DP 5414RR	43.5	35.1	45.0	72.9	57.6	50.8
MPride/MPV 5504nRR	45.3	46.7*	45.6	60.0	55.9	50.7
Progeny 5404RR	46.0*	32.4	41.7	71.5	61.3	50.6
Garst 5212RR/N	40.2	35.2	45.3	71.1	60.9	50.5
ASGROW AG5905	45.2	36.0	37.1	80.2*	53.9	50.5
Armor GP530	41.3	33.7	45.7	75.9	54.6	50.2
UniSouth USG 7523nRR	39.0	30.4	40.6	77.3	62.5*	50.0
Delta King DK5465RR	42.5	44.6*	40.3	64.0	56.2	49.5
Garst 5412RR/STS/N	37.4	36.9	45.0	69.2	57.4	49.2
Progeny PGY 5714RR	43.8	37.3	47.3	64.9	51.7	49.0
Delta King DKXTJ55J5	45.5	32.6	43.0	70.3	53.4	49.0
Delta Pine DPX 5808RR	41.7	34.1	38.5	66.8	61.1	48.4
Delta Grow 5555RR	39.5	35.9	40.7	66.9	58.0	48.2
Hornbeck HBK 5524	36.4	31.6	44.9	71.2	54.3	47.7
Terral TVX55RL23	39.3	25.7	44.0	66.0	54.0	45.8
GROUP 5 AVERAGE	44.1	40.7	48.4	73.4	59.8	53.3
L.S.D. AT .10	5.6	9.3	9.3	7.5	6.2	3.4
C.V. %	9.2	16.2	13.7	7.2	7.3	10.7
TEST AVERAGE	48.1	39.1	48.2	71.8	64.3	54.3

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

** Highest yielding variety in the maturity group.

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

Note: To view seed treatments for these varieties refer to the location table or the characteristics chart.

TABLE 34. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southeast Region: Oran, MO (Scott County)

Soil Type: Commerce Silt Loam
Soil Test: pH=5.5, OM=1.9%, P=55, K=257

Cyst Nematode Population at Planting: 1492 Eggs/250cc of soil
Rainfall: May= 4.7, June= 1.7, July= 4.9, Aug.= 2.1, Sept.= 0.4 Total=13.8 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 4							
Gateway 471	None	9-21	38	2	46.2**	70.2**	58.2
High Yield Check 11	--	9-17	36	4	45.0	--	--
High Yield Check 12	--	9-19	30	5	44.4	--	--
Progeny 4910	None	9-25	36	5	40.5	64.4	52.5
High Yield Check 13	--	9-18	40	4	39.7	--	--
Southern Cross Aaron	None	9-16	33	5	37.0	63.0	50.0
GROUP 4 AVERAGE		9-19	36	4	42.1	64.6	53.4
L.S.D. AT .10				0	NS	NS	
C.V. %					13.4	8.2	
MATURITY GROUP 5							
UniSouth USG 5002T	2	10-01	31	5	47.4**	64.9	56.2
UniSouth USG 5601T	2	NA	--	0	45.5	67.0	56.3
Anand	3, 5	10-06	38	4	44.7	65.0	54.9
High Yield Check 15	--	10-01	33	5	44.1	--	--
Progeny 5770	None	10-06	30	5	43.9	--	--
High Yield Check 16	--	10-01	36	5	42.3	--	--
High Yield Check 14	--	10-06	32	5	40.1	--	--
GROUP 5 AVERAGE		10-15	33	4	44.0	67.4	55.7
L.S.D. AT .10				0	NS	NS	
C.V. %					15.5	8.8	
TEST AVERAGE			34	4	43.2	66.4	54.8

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 35. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southeast Region: East Prairie, MO (Mississippi County)

Soil Type: Canalou Loamy Sand
Soil Test: pH=6.3; OM=1.1%; P=90; K=176

Cyst Nematode Population at Planting: 2655 Eggs/250cc Soil
Rainfall: May = 7.9, June = 1.4, July = 4.5, Aug = 2.8, Sept = 0.3 Total=16.9 in.
Irrigation: None

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 4							
Progeny 4910	None	10-04	23	1	42.8**	28.5	35.7
High Yield Check 12	--	9-28	21	1	34.4	--	--
High Yield Check 13	--	10-06	26	1	33.4	--	--
High Yield Check 11	--	9-16	29	1	31.3	--	--
Southern Cross Aaron	None	9-30	30	1	24.4	18.7	21.6
Gateway 471	None	9-30	32	1	23.9	29.4*	26.7
GROUP 4 AVERAGE		9-29	27	1	31.7	27.1	29.4
L.S.D. AT .10				0	NS	5.2	
C.V. %					38.9	16.1	
MATURITY GROUP 5							
Progeny 5770	None	9-25	27	1	43.2**	--	--
UniSouth USG 5601T	2	9-16	23	1	35.3	24.8	30.1
Anand	3, 5	10-08	33	1	34.7	41.4**	38.1
UniSouth USG 5002T	2	10-03	29	2	30.3	15.4	22.9
High Yield Check 16	--	9-26	30	1	28.9	--	--
High Yield Check 15	--	10-06	18	1	22.6	--	--
High Yield Check 14	--	9-16	20	1	22.0	--	--
GROUP 5 AVERAGE		9-27	26	1	31.0	27.0	29.0
L.S.D. AT .10				0	NS	4.8	
C.V. %					36.8	14.6	
TEST AVERAGE			26	1	31.3	27.0	29.2

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 36. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southeast Region: Morehouse, MO (Stoddard County)

Soil Type: Sharkey Clay
Soil Test: pH=5.9, OM=4.0%, P=45, K=564

Cyst Nematode Population at Planting: 332 Eggs/250cc of soil
Rainfall: May= 5.0, June= 2.1, July= 8.9, Aug.= 3.4, Sept.= 0.0 Total=19.4 in.
Irrigation: 1.5 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2002	
MATURITY GROUP 4							
Gateway 471	None	NA	33	1	48.6**	--	--
High Yield Check 12	--	NA	30	1	48.0*	--	--
High Yield Check 13	--	NA	30	1	47.6*	--	--
Progeny 4910	None	NA	32	2	46.4*	58.6	52.5
High Yield Check 11	--	NA	30	2	43.7	--	--
Southern Cross Aaron	None	NA	30	3	40.9	56.8	48.9
GROUP 4 AVERAGE		NA	31	2	45.9	55.6	50.8
L.S.D. AT .10				0	4.7	5.3	
C.V. %					8.2	6.7	
MATURITY GROUP 5							
UniSouth USG 5601T	2	NA	32	2	58.6**	--	--
Progeny 5770	None	NA	34	2	58.0	--	--
UniSouth USG 5002T	2	NA	29	2	57.9	--	--
Anand	3, 5	NA	27	1	57.2	63.2*	60.2
High Yield Check 14	--	NA	32	2	52.8	--	--
High Yield Check 15	--	NA	32	1	52.5	--	--
High Yield Check 16	--	NA	32	1	50.2	--	--
GROUP 5 AVERAGE		NA	31	2	55.3	60.1	57.7
L.S.D. AT .10				0	NS	2.8	
C.V. %					9.7	3.3	
TEST AVERAGE			31	2	50.9	57.7	54.3

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole)); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 37. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southeast Region: Portageville (Loam), MO (Pemiscot County)

Soil Type: Dundee Silt Loam
Soil Test: pH=6.2, OM=2.1%, P=122, K=443

Cyst Nematode Population at Planting: 1980 Eggs/250cc of soil
Rainfall: May= 6.8, June= 3.5, July= 6.0, Aug.= 3.2, Sept.= 0.0 Total=19.5 in.
Irrigation: 8 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 4							
High Yield Check 13	--	9-04	30	2	72.4**	--	--
Gateway 471	None	9-15	38	4	66.0	63.5*	64.8
Progeny 4910	None	9-24	33	4	64.8	61.3	63.1
Southern Cross Aaron	None	9-06	31	2	63.9	63.9*	63.9
High Yield Check 11	--	9-03	28	3	63.6	--	--
High Yield Check 12	--	9-28	25	2	56.9	--	--
GROUP 4 AVERAGE		9-13	31	3	64.6	62.0	63.3
L.S.D. AT .10					3.6	5.8	
C.V. %					4.5	7.8	
MATURITY GROUP 5							
UniSouth USG 5002T	2	9-15	26	2	62.5**	72.0*	67.3
Anand	3, 5	9-27	22	2	62.3*	70.9*	66.6
High Yield Check 15	--	9-24	31	2	58.4*	--	--
High Yield Check 14	--	9-10	34	2	57.4	--	--
UniSouth USG 5601T	2	9-28	24	2	57.1	73.3**	65.2
Progeny 5770	None	10-01	28	2	55.1	--	--
High Yield Check 16	--	9-26	26	2	49.4	--	--
GROUP 5 AVERAGE		9-23	27	2	57.5	68.0	62.8
L.S.D. AT .10					4.3	3.7	
C.V. %					6.1	4.6	
TEST AVERAGE			29	2	60.8	65.7	63.2

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole)); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

TABLE 38. **Non-Glyphosate Resistant / Special Traits Soybean Test**
Southeast Region: Portageville (Clay), MO (Pemiscot County)

Soil Type: Sharkey Clay
Soil Test: pH=6.9, O.M.=2.7%, P=108, K=577

Cyst Nematode Population at Planting: 495 Eggs/250cc of soil
Rainfall: May= 6.8, June= 3.5, July= 6.0, Aug.= 3.2, Sept.= 0.0 Total=19.5 in.
Irrigation: 8 in.

Brand-Variety	Seed Treatment ⁺	2004			Yield		2 Yr. Mean
		Maturity Date	Plant Height (in)	Lodging Score	2004	2003	
MATURITY GROUP 4							
Gateway 471	None	9-27	38	5	68.4**	70.2*	69.3
High Yield Check 11	--	9-23	32	2	66.6*	--	--
Southern Cross Aaron	None	9-22	30	2	66.2*	65.8	66.0
Progeny 4910	None	9-25	32	5	65.7*	67.8	66.8
High Yield Check 13	--	9-23	33	3	58.2	--	--
High Yield Check 12	--	9-25	30	2	56.6	--	--
GROUP 4 AVERAGE		9-24	32	3	63.6	66.6	65.1
L.S.D. AT .10					4.1	4.0	
C.V. %					5.2	5.0	
MATURITY GROUP 5							
Anand	3, 5	10-01	27	3	64.4**	71.4*	67.9
UniSouth USG 5002T	2	10-01	29	3	63.6	73.4**	68.5
UniSouth USG 5601T	2	9-23	36	4	62.9	71.4*	67.2
High Yield Check 14	--	9-21	35	2	61.6	--	--
High Yield Check 15	--	10-05	32	3	61.3	--	--
High Yield Check 16	--	9-29	32	2	60.6	--	--
Progeny 5770	None	10-04	33	5	58.8	--	--
GROUP 5 AVERAGE		9-29	32	3	61.9	68.0	65.0
L.S.D. AT .10					NS	4.1	
C.V. %					6.1	5.2	
TEST AVERAGE			32	3	62.7	67.5	65.1

-- Data not available.

** Highest yielding variety in the maturity group.

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

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

NS Not Significant.

TABLE 39. Performance Summary for Non-Glyphosate Resistant / Special Traits Varieties evaluated at Five Southeast Missouri locations (Oran, East Prairie, Morehouse, Portageville (Loam), Portageville (Clay)) during 2004.

<u>Oran</u> Planted: 05-28,29 Harvested: 10-04, 11-08 Growing Season Rainfall: 13.8 in.	<u>East Prairie</u> Planted: 05-24 Harvested: 10-06, 11-06 Growing Season Rainfall: 16.9 in.	<u>Morehouse</u> Planted: 05-24 Harvested: 10-05, 11-10 Growing Season Rainfall: 19.4 in. Irrigation: 1.5 in.
<u>Portageville (Loam)</u> Planted: 04-29, 05-06 Harvested: 09-28, 11-04 Growing Season Rainfall: 19.5 in. Irrigation: 8 in.	<u>Portageville (Clay)</u> Planted: 05-07 Harvested: 09-27, 10-07 Growing Season Rainfall: 19.5 in. Irrigation: 8 in.	

Brand-Variety	Yield (Bu/Acre)					Mean
	Oran	East Prairie	Morehouse	Portageville (Loam)	Portageville (Clay)	
MATURITY GROUP 4						
Progeny 4910	40.5	42.8**	46.4*	64.8	65.7*	52.0**
Gateway 471	46.2**	23.9	48.6**	66.0	68.4**	50.6*
High Yield Check 13	39.7	33.4	47.6*	72.4**	58.2	50.3*
High Yield Check 11	45.0	31.3	43.7	63.6	66.6*	50.0*
High Yield Check 12	44.4	34.4	48.0*	56.9	56.6	48.1
Southern Cross Aaron	37.0	24.4	40.9	63.9	66.2*	46.5
GROUP 4 AVERAGE	42.1	31.7	45.9	64.6	63.6	49.6
L.S.D. AT .10	NS	NS	4.7	3.6	4.1	3.5
C.V. %	13.4	38.9	8.2	4.5	5.2	14.0
MATURITY GROUP 5						
Anand	44.7	34.7	57.2	62.3*	64.4**	52.7**
UniSouth USG 5002T	47.4**	30.3	57.9	62.5**	63.6	52.3*
UniSouth USG 5601T	45.5	35.3	58.6**	57.1	62.9	51.9*
Progeny 5770	43.9	43.2**	58.0	55.1	58.8	51.8*
High Yield Check 15	44.1	22.6	52.5	58.4*	61.3	47.8
High Yield Check 14	40.1	22.0	52.8	57.4	61.6	46.8
High Yield Check 16	42.3	28.9	50.2	49.4	60.6	46.3
GROUP 5 AVERAGE	44.0	31.0	55.3	57.5	61.9	49.9
L.S.D. AT .10	NS	NS	NS	4.3	NS	3.6
C.V. %	15.5	36.8	9.7	6.1	6.1	14.8
TEST AVERAGE	43.2	31.3	50.9	60.8	62.7	49.8

** Highest yielding variety in the maturity group.

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

NS Not Significant.

Note: To view seed treatments for these varieties refer to the location table or the characteristics chart.

Soybean Characteristics Information

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Field Tolerance	Phyto. Gene	SCN Source	Herb. Res.	Special Trait
Ag Source 9375	None	BR	3.9	N	2.5	Rps 1a	PI88788	GR	None
Anand	3, 5	V	5	N	NA	NA	Hartwig	None	None
Armor 39-E9	None	BR	3.9	N	NA	Rps 1c	PI88788	GR	None
Armor 44-R4	None	BR	4.4	N	NA	Rps 1a	PI88788	GR	None
Armor 44-R5	None	BR	4.4	N	NA	NA	PI88788	GR/STS	None
Armor 47-G7	None	BR	4.7	N	NA	NA	PI88788	GR	None
Armor 49-T3	None	BR	4.8	Y	NA	NA	NA	GR	None
Armor 53-K3	None	BR	5.3	N	NA	NA	PI88788	GR	None
Armor 54-03	None	BR	5.5	Y	NA	NA	NA	GR	None
Armor 56-J6	None	BR	5.6	N	NA	NA	PI88788	GR	None
Armor 58-V8	None	BR	5.8	N	NA	NA	PI88788	GR	None
Armor GP474	None	BR	4.9	N	NA	NA	PI88788	GR	None
Armor GP499	None	BR	4.8	Y	NA	NA	NA	GR	None
Armor GP513	None	BR	5.2	N	NA	NA	PI88788	GR	None
Armor GP530	None	BR	5.3	N	NA	NA	S	GR	None
ASGROW AG3101	None	BR	3.1	N	NA	Rps 1c	PI88788	GR	None
ASGROW AG3305	None	BR	3.3	N	NA	Rps 1c	PI88788	GR	None
ASGROW AG3602	None	BR	3.6	N	NA	Rps 1c	PI88788	GR	None
ASGROW AG3802	None	BR	3.8	N	NA	Rps 1c	PI88788	GR	None
ASGROW AG3905	None	BR	3.9	N	NA	Rps 1c	PI88788	GR	None
ASGROW AG3906	None	BR	3.9	N	NA	S	PI88788	GR	None
ASGROW AG4102	None	BR	4.1	N	NA	Rps 1c	PI88788	GR	None
ASGROW AG4201	None	BR	4.2	N	NA	S	PI88788	GR	None
ASGROW AG4403	None	BR	4.4	N	NA	Rps 1c	PI88788	GR	None
ASGROW AG4502	None	BR	4.5	N	NA	Rps 7	PI88788	GR	None
ASGROW AG4603	None	BR	4.6	N	NA	S	PI88788	GR	None
ASGROW AG4801	None	BR	4.8	N	NA	S	PI88788	GR	None
ASGROW AG4902	None	BR	4.9	N	NA	Rps 1k	PI88788	GR	None
ASGROW AG4903	None	BR	4.9	N	NA	S	PI88788	GR	None
ASGROW AG5301	None	BR	5.3	N	NA	Rps 3a	PI88788	GR	None
ASGROW AG5501	None	BR	5.5	N	NA	S	PI88788	GR	None
ASGROW AG5605	None	BR	5.6	N	NA	S	PI88788	GR	None
ASGROW AG5903	None	BR	5.9	N	NA	Rps 1a	PI88788	GR	None
ASGROW AG5905	None	BR	5.9	N	NA	S	PI88788	GR	None
Bio Gene BG3703NRR	None	BR	3.7	N	2.2	Rps 1c	PI88788	GR	None
Bio Gene BG4200NRRST	None	BR	4.2	N	5	S	PI88788	GR	None
Croplan Genetics RC3732	None	V	3.7	N	3	Rps 1c	PI88788	GR	None
Croplan Genetics RC3939	None	V	3.9	N	3	Rps 1c	PI88788	GR	High Oil
Croplan Genetics RC4444	None	BR	4.4	N	3	NA	PI88788	GR	None
Croplan Genetics RC4842	None	V	4.8	N	3	NA	PI88788	GR	None
DEKALB DKB34-51	None	BR	3.4	N	NA	Rps 1k	PI88788	GR	None
DEKALB DKB36-52	None	BR	3.6	N	NA	Rps 1c	PI88788	GR	None
DEKALB DKB37-51	None	BR	3.7	N	NA	Rps 1c	PI88788	GR	None
DEKALB DKB38-52	None	BR	3.8	N	NA	Rps 1c	PI88788	GR	NA
DEKALB DKB46-51	None	BR	4.6	N	NA	S	PI88788	GR	None
DEKALB DKB54-52	None	BR	5.4	N	NA	S	PI88788	GR	None
Delta Grow 4340RR	None	BR	4.3	N	1	Rps 1a	PI88788	GR	None
Delta Grow 4630RR	None	BR	4.6	N	4	NA	PI88788	GR	None
Delta Grow 4840RR	None	BR	4.8	N	3	S	Peking	GR	None
Delta Grow 4860RR	None	Br	4.8	N	3	S	PI88788	GR	None
Delta Grow 4960RR	None	BR	4.9	N	3	S	PI88788	GR	None

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Field Tolerance	Phyto. Gene	SCN Source	Herb. Res.	Special Trait
Delta Grow 4970RR	None	BR	4.9	N	3	S	PI88788	GR	None
Delta Grow 5260RR	None	BR	5.2	N	3	Rps 1c	PI88788	GR	None
Delta Grow 5460RR	None	BR	5.4	N	3	S	PI88788	GR,STS	None
Delta Grow 5555RR	None	BR	5.5	N	3	S	PI88788	GR	None
Delta Grow 5630RR	None	BR	5.6	N	3	S	PI88788	GR	None
Delta Grow 5650RR	None	BR	5.6	N	3	S	PI88788	GR	None
Delta King DK3964RR	2, 4, 8	V	3.9	N	6	NA	PI88788	GR	None
Delta King DK3968RR	2, 4, 8	V	3.9	N	NA	Rps 1c	PI88788	GR	None
Delta King DK4461RR	2, 4, 8	V	4.6	N	NA	Rps 1a	PI88788	GR	None
Delta King DK4763RR	2, 4, 8	V	4.7	N	4	NA	PI88788	GR	None
Delta King DK4868RR	2, 4, 8	V	4.8	N	NA	NA	PI88788	GR	None
Delta King DK4967RR	2, 4, 8	V	4.9	N	4	NA	PI88788	GR	None
Delta King DK5161RR	2, 4, 8	V	5.1	N	4	NA	PI88788	GR	None
Delta King DK5366RR	2, 4, 8	V	5.3	N	NA	Rps 1c	PI88788	GR	None
Delta King DK5465RR	2, 4, 8	V	5.4	N	NA	Rps 1k	PI88788	GR	None
Delta King DK55T6	2, 4, 8	V	5.5	N	NA	NA	PI88788	GR	None
Delta King DK5668RR	2, 4, 8	V	5.6	N	NA	Rps 1k	PI88788	GR	None
Delta King DK5767RR	2, 4, 8	V	5.7	N	4	NA	PI88788	GR	None
Delta King DK5967RR	2, 4, 8	V	5.9	N	4	NA	PI88788	GR	None
Delta King DKXTJ446	2, 4, 8	V	4.6	Y	NA	NA	PI88788	GR	None
Delta King DKXTJ448	2, 4, 8	V	4.8	Y	NA	NA	PI88788	GR	None
Delta King DKXTJ541	2, 4, 8	V	4.1	Y	4	NA	NA	GR	None
Delta King DKXTJ542	2, 4, 8	V	4.2	N	4	NA	PI88788	GR	None
Delta King DKXTJ543	2, 4, 8	V	4.3	Y	NA	Rps 1a	NA	GR	None
Delta King DKXTJ546	2, 4, 8	V	4.6	Y	NA	NA	PI88788	GR	None
Delta King DKXTJ548	2, 4, 8	V	4.8	Y	NA	Rps 1a	PI88788	GR	None
Delta King DKXTJ549	2, 4, 8	V	4.9	Y	4	NA	PI88788	GR	None
Delta King DKXTJ54J9	2, 4, 8	V	4.9	Y	NA	NA	PI88788	GR	None
Delta King DKXTJ54X9	2, 4, 8	V	4.9	Y	NA	NA	PI88788	GR	None
Delta King DKXTJ554	2, 4, 8	V	5.4	Y	NA	Rps 1c	NA	GR/STS	None
Delta King DKXTJ555	2, 4, 8	V	5.5	Y	4	NA	NA	GR	None
Delta King DKXTJ55J5	2, 4, 8	V	5.5	Y	NA	NA	NA	GR	None
Delta King DKXTJ5K57	2, 4, 8	V	5.7	Y	NA	Rps 1a	NA	GR	None
Delta Pine DP 3861RR	None	BR	3.8	N	4	Rps 1c	PI88788	GR	None
Delta Pine DP 4331 RR	None	BR	4.3	N	1	Rps 1a	PI88788	GR	None
Delta Pine DP 4546RR	None	BR	4.5	N	3	S	PI88788	GR	None
Delta Pine DP 4724 RR	None	BR	4.7	N	4	Rps 1k	PI88788	GR	None
Delta Pine DP 4933 RR	None	BR	4.9	N	2	S	PI88788	GR	None
Delta Pine DP 5414RR	None	BR	5.4	N	3	S	PI88788	GR	None
Delta Pine DP 5634 RR	None	BR	5.6	N	4	Rps 1a	Peking	GR	None
Delta Pine DP 5915 RR	None	BR	5.9	N	2	S	PI88788	GR	None
Delta Pine DPX 3950RR	None	BR	3.9	Y	NA	Rps 1k	Peking	GR	None
Delta Pine DPX 4891RR	None	BR	4.8	Y	4	S	Peking	GR	None
Delta Pine DPX 5808RR	None	BR	5.8	Y	3	NA	PI88788	GR	None
Dyna Gro DG31T31	2	V	3.1	N	1	Rps 1c	PI88788	GR	None
Dyna Gro DG32C38	2	V	3.8	N	2	Rps 1c	PI88788	GR	None
Dyna Gro DG3362NRR	2	V	3.6	N	1	Rps 1k	NA	GR	None
Dyna Gro DG3390NRR	2	V	3.9	N	1	Rps 1c	NA	GR	None
Dyna Gro DG33A37	2	V	3.7	N	1	Rps 1c	PI88788	GR	None
Dyna Gro DG33B52	None	V	5.2	N	3	S	NA	GR	None
Dyna Gro DG3443NRR	2	V	4.4	N	3	Rps 1a	PI88788	GR	None
Dyna Gro DG3463NRR	None	V	4.6	N	3	S	NA	GR	None
Dyna Gro DG3481NRR	2	V	4.8	N	1	S	PI88788	GR	None
Dyna Gro DG3484NRR	None	V	4.8	N	3	S	NA	GR	None
Dyna Gro DG3535NRR	None	V	5.3	N	1	Rps 1c	NA	GR	None
Dyna Gro DG3562NRR	None	V	5.6	N	2	S	NA	GR	None

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Field Tolerance	Phyto. Gene	SCN Source	Herb. Res.	Special Trait
Dyna Gro DG3583NRR	None	V	5.8	N	3	S	NA	GR	None
Dyna Gro DG35B40	2	V	4	N	1	Rps 1a	NA	GR	None
Dyna Gro DG35D33	2	V	3.3	N	1	Rps 1k	PI88788	GR	None
Dyna Gro DG36M49	None	V	4.9	N	1	S	NA	GR	None
Dyna Gro DG37N43	2	V	4.3	N	1	Rps 1k	NA	GR	None
Dyna Gro DG38K57	None	V	5.7	N	3	S	NA	GR	None
Dyna Gro DG38T47	2	V	4.7	N	1	S	NA	GR	None
Dyna Gro SX04334	2	V	3.4	Y	1	Rps 1c	PI88788	GR	None
Dyna Gro SX04453	2	V	5.3	Y	3	S	NA	GR	None
Excel Brand 8374RR CYSTX	None	BR	3.7	N	NA	S	CystX	GR	None
Excel Brand 8390 NNRR	None	BR	3.9	N	1.3	S	PI88788	GR	None
Excel Brand 8416RR	None	BR	3.9	N	1.3	S	S	GR	None
Excel Brand 8492NRR	None	BR	4.9	N	1.3	S	PI88788	GR	None
Excel Brand 8499NRR	None	BR	4.6	N	1.7	S	PI88788	GR	None
FFR 4922RR	2	BR	4.9	N	2.3	S	PI88788	GR	None
FFR 5033RR	2	BR	5	N	2.7	Rps 1c	PI88788	GR	None
FFR 5225RR	2	BR	5.2	N	2	Rps 1c	PI88788	GR	None
FFR 5663RR	2	BR	5.6	N	2	S	PI88788	GR	None
Garst 3624RR/N	None	BR	3.6	N	2	Rps 1c	PI88788	GR	None
Garst 3824RR/N	None	BR	3.8	N	4	Rps 1c	PI88788	GR	None
Garst 4212RR/N	None	BR	4.2	N	3	NA	PI88788	GR	None
Garst 4612RR/N	None	BR	4.5	N	3	Rps 1a	PI88788	GR	None
Garst 5012RR/N	None	BR	5	N	3	NA	PI88788	GR	None
Garst 5212RR/N	None	BR	5.2	N	2	NA	PI88788	GR	None
Garst 5412RR/STS/N	None	BR	5.4	N	4	NA	PI88788	GR	None
Gateway 471	None	BR	4.7	N	NA	NA	NA	None	None
Gateway 4R451	None	BR	4.5	N	NA	NA	NA	GR	None
Gateway 4R485	None	BR	4.8	N	2.1	NA	NA	GR	None
Gateway 4R495	None	BR	4.9	N	NA	NA	NA	GR	None
Gateway 4RS421	None	BR	4.2	N	NA	NA	NA	GR/STS	None
Gateway 5R531	None	BR	5.3	N	2	NA	NA	GR	None
Golden Harvest H-3606RR	None	BR	3.6	N	3	Rps 1c	PI88788	GR	None
Golden Harvest H-3945RR	None	BR	3.9	N	2.5	Rps 1a	PI88788	Gr	None
Golden Harvest H-4368RR	None	BR	4.3	N	2.5	S	PI88788	GR	None
Golden Harvest H-4749RR	None	BR	4.7	N	2	S	PI88788	GR	None
Golden Harvest H-5053RR	None	BR	5	N	3	S	PI88788	GR	None
Golden Harvest H-5492RR	None	BR	5.4	N	3.5	S	PI88788	GR	None
Hoblit HB421NRR	None	BR	4.2	N	1.9	Rps 1a	PI88788	GR	None
Hornbeck HBK 5324	None	BR	5.2	N	NA	NA	PI88788	GR	None
Hornbeck HBK 5524	None	BR	5.5	N	1.5	NA	Peking	GR	None
Hornbeck HBK R4023	None	BR	4.1	N	5	NA	PI88788	GR	None
Hornbeck HBK R4623	None	BR	4.5	N	1	NA	PI88788	GR	None
Hornbeck HBK R4724	None	BR	4.8	N	NA	NA	NA	GR	None
Hornbeck HBK R4820	None	BR	4.8	N	2	NA	S	GR	None
Hornbeck HBK R4924	None	BR	4.9	N	3	NA	PI88788	GR	None
Hornbeck HBK R4945CX	None	BR	4.9	N	3	NA	Hartwig	GR	None
Hornbeck HBK R5620	None	BR	5.6	N	2	NA	PI88788	GR	None
Hornbeck HBK R5624	None	BR	5.6	N	NA	NA	NA	GR	None
Kruger 328 RR	None	BR	3.2	Y	2	Rps 1c	S	GR	None
Kruger 341 RR/SCN	None	BR	3.4	Y	2.5	Rps 1k	PI88788	GR	None
Kruger 343 RR/SCN	None	BR	3.4	Y	1.9	Rps 1c	PI88788	GR	None

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Field Tolerance	Phyto. Gene	SCN Source	Herb. Res.	Special Trait
Kruger 346 RR/SCN	None	BR	3.4	Y	2	Rps 1c	PI88788	GR	None
Kruger 349 RR	None	BR	3.4	N	2.5	Rps 1c	S	GR	None
Kruger 355 RR/SCN	None	BR	3.5	N	2.6	Rps 1k	PI88788	GR	None
Kruger 363 RR/SCN	None	BR	3.6	Y	NA	Rps 1c	PI88788	GR	None
Kruger 373 RR	None	BR	3.7	Y	NA	NA	S	GR	None
Kruger 375 RR	None	BR	3.7	Y	NA	NA	S	GR	None
Kruger 379 RR/SCN	None	BR	3.7	N	2.2	Rps 1c	PI88788	GR	None
Kruger 379+ RR/SCN	7	BR	3.7	N	2.2	Rps 1c	PI88788	GR	None
Kruger 380 RR/SCN	None	BR	3.8	N	2.7	Rps 1k	PI88788	GR	None
Kruger 380+ RR/SCN	None	BR	3.8	N	2.7	Rps 1k	PI88788	GR	None
Kruger 381 RR/SCN	None	BR	3.8	N	2	S	PI88788	GR	None
Kruger 389 RR/SCN	None	BR	3.8	N	1.7	Rps 1c	PI88788	GR	None
Kruger 389+ RR/SCN	7	BR	3.8	N	1.7	Rps 1c	PI88788	GR	None
Kruger 393 RR/SCN	None	BR	3.9	N	2.4	Rps 1k	PI88788	GR	None
Kruger 393+ RR/SCN	None	BR	4	N	2	Rps 1a	PI88788	GR	None
Kruger 402 RR/SCN	None	BR	4	Y	2.5	Rps 1k	PI88788	GR	None
Kruger 404 RR	None	BR	4	N	2.5	Rps 1k	S	GR	None
Kruger 424 RR	None	BR	4.2	Y	NA	Rps 1k	S	GR	None
Kruger 434 RR/SCN	None	BR	4.3	N	2.5	Rps 1k	PI88788	GR	None
Kruger 442 RR/SCN	None	BR	4.4	Y	NA	NA	PI88788	GR	None
Lewis 3566	1, 5	BR	3.5	N	S	Rps 1k	PI88788	GR	None
Lewis 3715	1, 5	BR	3.7	N	3	Rps 1c	PI88788	GR	None
Lewis 3875	1, 5	BR	3.8	N	2	Rps 1k	PI88788	GR	None
Lewis 3944	1, 5	BR	3.9	N	2	Rps 1c	PI88788	GR	None
Lewis 4106	1, 5	BR	4.1	N	3	S	PI88788	GR	None
LG Seeds C3999NRR	None	BR	3.9	N	2	Rps 1k	PI88788	GR	None
Mersch. Atlanta 543	None	V	4.3	N	4	S	PI88788	None	None
Mersch. Austin RR	1, 5	V	4.4	N	4	S	PI88788	GR/STS	None
Mersch. Cleveland VIIRR	1, 5	V	3.9	N	2	NA	NA	NA	NA
Mersch. Dallas RR	1, 5	V	4.8	N	4	S	PI88788	GR	None
Mersch. Denver RRSTS	1, 5	V	4.5	N	4	S	PI88788	GR/STS	None
Mersch. Everest RR	1, 5	V	5.3	N	4	S	PI88788	GR	None
Mersch. Kennedy 538RR	1, 5	V	3.8	N	4	S	PI88788	GR	None
Mersch. Olympus RR	1, 5	V	5	N	4.5	S	PI88788	GR	None
Mersch. Phoenix IIIRR	1, 5	V	4.1	N	4	S	PI88788	GR/STS	None
Mersch. Rocky RR	1, 5	V	4.9	N	4.5	S	PI88788	GR	None
Mersch. Rushmore 553RR	1, 5	V	5.3	N	4	S	PI88788	GR	None
Mersch. Washington IXRR	1, 5	V	3.9	N	4	Rps 1k	PI88788	GR	None
MFA Morsoy RT 3304N	2	BR	3.3	N	2	Rps 1k	PI88788	GR	None
MFA Morsoy RT 3603N	2	BR	3.6	N	2	S	PI88788	GR	None
MFA Morsoy RT 3644N	2	BR	3.6	N	2	Rps 1c	PI88788	GR	None
MFA Morsoy RT 3712N	2	BR	3.7	N	2	Rps 1c	PI88788	GR	None
MFA Morsoy RT 3804N	2	BR	3.8	N	1.9	Rps 1c	PI88788	GR	None
MFA Morsoy RT 3883N	2	BR	3.8	N	2.2	Rps 1k	PI88788	GR	None
MFA Morsoy RT 3991N	2	BR	3.9	N	2	Rps 1c	PI88788	GR	None
MFA Morsoy RT 4044N	2	BR	4	N	3	S	PI88788	GR	None
MFA Morsoy RT 4114N	2	BR	4.1	N	2	Rps 1c	PI88788	GR	None
MFA Morsoy RT 4124N	2	BR	4.1	N	1.7	S	PI88788	GR	None
MFA Morsoy RT 4201N	2	BR	4.2	N	2	S	PI88788	GR	None
MFA Morsoy RT 4334N	2	BR	4.3	N	2.5	S	PI88788	GR	None
MFA Morsoy RT 4402N	2	BR	4.4	N	2	S	PI88788	GR	None
MFA Morsoy RT 4480N	2	BR	4.4	N	2.5	Rps 1a	PI88788	GR	None
MFA Morsoy RT 4503N	2	BR	4.5	N	2	S	PI88788	GR	None
MFA Morsoy RT 4683N	2	BR	4.6	N	2	S	PI88788	GR	None

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Field Tolerance	Phyto. Gene	SCN Source	Herb. Res.	Special Trait
MFA Morsoy RT 4993N	2	BR	4.9	N	4	S	PI88788	GR	None
MFA Morsoy RT 5043N	2	BR	5	N	2	S	PI88788	GR	None
MFA Morsoy RT 5204	None	BR	5.2	N	1	Rps 1c	PI88788	GR	None
MFA Morsoy RT 5553N	None	BR	5.5	N	3	S	PI88788	GR	None
MFA Morsoy RT 5773	None	BR	5.7	N	4	S	PI88788	GR	None
MFA Morsoy RT4731N	2	BR	4.7	N	2	S	PI88788	GR	None
MFA Morsoy RTS 4824N	2	BR	4.8	N	2	Rps 1a	PI88788	GR	None
Midland 9A373NRR	None	BR	3.7	N	4.4	Rps 1c	PI88788	GR	None
Midland 9A375XRR	None	BR	3.7	N	NA	S	CystX	GR	None
Midland 9A385NRS	None	BR	3.8	N	3.4	Rps 1c	PI88788	GR	None
Midland 9A402NRR	None	BR	4	N	3.8	S	PI88788	GR	None
Midland 9A455NRR	None	BR	4.5	N	3.8	S	CystX	GR	None
Midland 9A485XRR	None	BR	4.8	N	NA	S	CystX	GR	None
Midland 9B445NRS	None	BR	4.4	N	3.6	S	CystX	GR	None
Monsanto EXP338ARR	None	BR	3.8	Y	NA	NA	NA	GR	None
MPride/MPV 3605nRR	3, 5	BR	3.6	N	2.2	Rps 1c	NA	GR	None
MPride/MPV 3805nRR	3, 5	BR	3.8	N	1.7	Rps 2c	PI88788	GR	None
MPride/MPV 3903nRR	3, 5	BR	3.9	N	2	Rps 1c	NA	GR	None
MPride/MPV 3905nRR	3, 5	BR	3.9	N	NA	Rps 1k	PI88788	GR	None
MPride/MPV 4305nRR	3, 5	BR	4.3	N	NA	Rps 1k	NA	GR	None
MPride/MPV 4404nRR	3, 5	BR	4.4	N	2.6	Rps 1a	NA	GR	None
MPride/MPV 4705nRR	3, 5	BR	4.7	N	1.9	S	NA	GR	None
MPride/MPV 4805nRR	3, 5	BR	4.8	N	2	S	NA	GR	None
MPride/MPV 4904nRR	3, 5	BR	4.9	N	2	S	NA	GR	None
MPride/MPV 4905nRR	3, 5	BR	4.9	N	1.9	S	PI88788	GR	None
MPride/MPV 5504nRR	3, 5	BR	5.5	N	2	S	PI88788	GR	None
MPride/MPV 5505nRR	3, 5	BR	5.5	N	2.5	S	NA	GR/STS	None
NK Brand S37-N4	2	V	3.7	N	3	Rps 1c	Peking, PI88788	GR	None
NK Brand S39-K6	2	V	3.9	N	3	S	Peking, PI88788	GR	None
NK Brand S40-R9	2	V	4	N	2	S	Peking, PI88788	GR	None
NK Brand S42-P7	2	V	4.2	N	4	S	Peking, PI88788	GR	None
NK Brand S43-B1	2	V	4.3	N	3	Rps 1c	Peking, PI88788	GR	None
NK Brand S49-Q9	2	V	4.9	N	3	Rps 1c	Peking, PI88788	GR	None
NK Brand S50-N3	None	V	5	N	3	Rps 1c	Peking, PI88788	GR	None
NK Brand S52-U3	2	V	5.2	N	3	S	Peking, PI88788	GR	None
NK Brand S56-D7	None	V	5.6	N	5	S	Peking, PI88788	GR	None
NuTech NT-3707 RR	None	BR	3	N	NA	NA	NA	GR	None
NuTech NT-3737 RR/SCN	None	BR	3	N	2.2	Rps 1c	PI88788	GR	None
NuTech NT-3737+RR/SCN	None	BR	3	N	2.2	Rps 1c	PI88788	GR	None
NuTech NT-3737sc RR/SCN	None	BR	3	N	2.2	Rps 1c	PI88788	GR	None
NuTech NT-3777+ RR	None	BR	3	N	NA	NA	NA	GR	None
NuTech NT-3787 RR/SCN	None	BR	3	N	2	NA	PI88788	GR	None
NuTech NT-3828 RR	None	BR	3	N	2	NA	PI88788	GR	None
NuTech NT-3839 RR	None	BR	3	N	NA	Rps 1k	PI88788	GR	None
NuTech NT-3909 RR/SCN/STS	None	BR	3	N	1.7	Rps 1c	PI88788	GR/STS	None
NuTech NT-3909+ RR/SCN/STS	None	BR	3	N	1.7	Rps 1c	PI88788	GR/STS	None
NuTech NT-3909sc RR/SCN/STS	None	BR	3	N	1.7	Rps 1c	PI88788	GR/STS	None

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Field Tolerance	Phyto. Gene	SCN Source	Herb. Res.	Special Trait
NuTech NT-3922 RR/SCN	None	BR	3	N	NA	Rps 1k	PI88788	GR	None
NuTech NT-3999 RR/SCN	None	BR	3	N	2	Rps 1c	PI88788	GR	None
NuTech NT-3999+ RR/SCN	None	BR	3	N	2	Rps 1c	PI88788	GR	None
NuTech NT-3999sc RR/SCN	None	BR	3	N	2	Rps 1c	PI88788	GR	None
NuTech NT-4040 RR/SCN	None	BR	4	N	NA	S	PI88788	GR	None
NuTech NT-4122 RR/SCN	None	BR	4	N	NA	NA	NA	GR	None
NuTech NT-4414 RR/SCN/STS	None	BR	4	N	1.8	S	PI88788	GR/STS	None
NuTech NT-4646 RR/SCN	None	BR	4	N	1.9	S	PI88788	GR	None
NuTech NT-4747 RR/SCN	None	BR	4	N	NA	NA	PI88788	GR	None
NuTech NT-ex3820	None	BR	3	Y	NA	NA	NA	GR	None
NuTech NT-ex3920RR/SCN	None	BR	4	Y	NA	NA	NA	GR	None
NuTech NT-ex4120+ RR/SCN	None	BR	4	N	NA	S	PI88788	GR	None
Pioneer 93M50	None	V	3.5	N	4	Rps 1k	PI88788	GR	None
Pioneer 94B73	None	V	4.7	N	6	Rps 1k	S	GR	None
Pioneer 94B74	None	V	4.7	N	5	Rps 1k	PI88788	GR	None
Pioneer 94M41	None	V	4.4	N	4	Rps 1k	PI88788	GR	None
Pioneer 94M70	None	V	4.7	N	5	Rps 1k	PI88788	GR	None
Pioneer 94M90	None	V	4.9	N	3	S	PI88788	GR	None
Pioneer 95B32	None	V	5.3	N	4	S	PI88788	GR	None
Pioneer 95B42	None	V	5.4	N	4	S	PI88788	GR	None
Pioneer 95B43	None	V	5.4	N	4	S	S	GR	None
Prairie Brand PB-3494NRR	None	BR	3.4	N	4	Rps 1c	PI88788	GR	None
Prairie Brand PB-3732RR	None	BR	3.7	N	5	Rps 1c	PI88788	GR	None
Prairie Brand PB-3894NRR	None	BR	3.8	N	4	Rps 1c	PI88788	GR	None
Prairie Brand PB-3921NRR	None	BR	3.9	N	5	Rps 1c	PI88788	GR	None
Prairie Brand PB-4023NRR	None	BR	4	N	5	S	PI88788	GR	None
Prairie Brand PB-4394NRR	None	BR	4.3	N	5	S	PI88788	GR	None
Prairie Brand PB-4483NRR	None	BR	4.4	N	5	S	PI88788	GR	None
Prairie Brand PB-5083NRR	None	BR	4.9	N	5	S	PI88788	GR	None
Producers Hybrid EX 3138NRR	None	NA	3.8	NA	NA	NA	NA	NA	NA
Producers Hybrid EX 3149NRR	None	NA	4.9	NA	NA	NA	NA	NA	NA
Progeny 3900RR	None	NA	3.9	N	3.5	Rps 1k	NA	GR	None
Progeny 4401RR	None	NA	4.4	N	4.5	NA	NA	GR	None
Progeny 4703RR	None	NA	4.7	N	4.5	NA	S	GR	None
Progeny 4860RR	None	NA	4.8	N	4.5	NA	NA	GR	None
Progeny 4910	None	NA	4.9	N	7	NA	NA	None	None
Progeny 4949RR	None	NA	4.9	N	4.5	NA	NA	GR	None
Progeny 5250RR	None	NA	5.2	N	2	NA	NA	GR	None
Progeny 5404RR	None	NA	5.4	N	4.5	NA	NA	GR	None
Progeny 5503RR	None	NA	5.5	N	3.5	NA	NA	GR/STS	None
Progeny 5660RR	None	NA	5.6	N	2	NA	NA	GR	None
Progeny 5703RR	None	NA	5.7	N	4.5	NA	NA	GR	None
Progeny 5770	None	NA	5.7	N	NA	NA	NA	None	None
Progeny 5822RR	None	NA	5.8	N	2	NA	NA	GR	None
Progeny PGY 4304RR	None	NA	4.3	Y	3.5	Rps 1a	NA	GR	None
Progeny PGY 4604RR	None	NA	4.6	Y	4.5	NA	PI88788	GR	None
Progeny PGY 4804RR	None	NA	4.8	Y	4.5	NA	NA	GR	None
Progeny PGY 5622RR	None	NA	5.6	Y	2	NA	NA	GR	None
Progeny PGY 5714RR	None	NA	5.7	Y	NA	NA	NA	GR	None
Renze R3595RCX	None	BR	3.5	N	NA	S	CystX	GR	None
Renze R3684Rcn	None	BR	3.6	N	3	Rps 1c	PI88788	GR	None
Renze R3814RR	None	BR	3.8	N	3	Rps 1k	S	GR	None
Renze R4095Rcn	None	BR	4	N	3	S	PI88788	GR	None
Renze R4385Rcn	None	BR	4.3	N	3	Rps 1k	PI88788	GR	None

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Tolerance	Field Phyto. Gene	SCN Source	Herb. Res.	Special Trait
Renze R4695Rcn	None	BR	4.6	N	3	S	PI88788	GR	None
Southern Cross Aaron	None	V	4.5	N	3	S	PI88788	STS	None
Southern Cross Michael	None	V	4.2	N	3	S	PI88788	GR/STS	None
Southern Cross Silas	None	V	4.4	N	2	Rps 1a	PI88788	GR	None
Southern Cross Titus	None	V	4.8	N	3	S	PI88788	GR	None
Stine S3532-4	None	BR	3.5	N	2	Rps 1k	PI88788	GR	None
Stine S3600-4	None	BR	3.6	N	2	S	S	GR	None
Stine S3832-4	None	BR	3.8	N	2	Rps 1k	PI88788	GR	None
Stine S3932-4	None	BR	4	N	2	Rps 1k	PI88788	GR	None
Stine S3942-4	None	BR	3.9	N	2	S	PI88788	GR	None
Stine S4102-4	None	BR	4.1	N	2	S	PI88788	GR/STS	None
Stine S4542-4	None	BR	4.5	N	2	S	PI88788	GR	None
Stine S4842-4	None	BR	4.8	N	2	S	PI88788	GR	None
Taylor 374RR	None	BR	3.7	N	2	Rps 1c	PI88788	GR	None
Taylor 398RRS	None	BR	3.9	N	2	Rps 1c	PI88788	GR/STS	None
Terral TV57R14	2, 4	V	5.7	N	2	S	PI88788	GR	None
Terral TVX45RN21	2, 4	V	4.5	Y	1	Rps 1a	PI88788	GR	None
Terral TVX48RL27	2, 4	V	4.8	Y	4	S	Peking	GR	None
Terral TVX55RL23	2, 4	V	5.5	Y	2	S	PI88788	GR	None
UniSouth USG 5002T	2	V	5	N	NA	S	NA	None	None
UniSouth USG 510nRR	2	BR	5.1	N	NA	S	NA	GR	None
UniSouth USG 5601T	2	V	5.6	N	NA	S	NA	None	None
UniSouth USG 7440nRR	2	BR	4.4	N	NA	Rps 1a	NA	GR	None
UniSouth USG 7443nRR	2	BR	4.4	N	NA	Rps 1a	NA	GR	None
UniSouth USG 7473nRR	2	BR	4.7	N	NA	Rps 3	NA	GR	None
UniSouth USG 7482nRR	2	BR	4.8	N	NA	S	NA	GR	None
UniSouth USG 7484nRR	2	BR	4.8	N	NA	S	NA	GR	None
UniSouth USG 7499nRR	2	BR	4.9	N	NA	S	NA	GR	None
UniSouth USG 7504nRR	2	BR	5	N	NA	S	NA	GR	None
UniSouth USG 7514nRR	2	BR	5.1	N	NA	Rps 1c	NA	GR	None
UniSouth USG 7523nRR	2	BR	5.2	N	NA	Rps 1c	NA	GR	None
UniSouth USG 7553nRS	2	BR	5.5	N	NA	S	NA	GR/STS	None
UniSouth USG 7563nRR	2	BR	5.6	N	NA	S	NA	GR	None
Vigoro V38N5RS	2	BR	3.8	N	3	Rps 1c	PI88788	GR/STS	None
Vigoro V39N4RR	2	BR	3.9	N	3	Rps 1k	PI88788	GR	None
Vigoro V42N3RR	2	BR	4.2	N	4	S	PI88788	GR	None
Vigoro V48N5RR	2	BR	4.8	N	3	S	PI88788	GR	High Oil
Vigoro V562NRR	None	BR	5.6	N	3	S	PI88788	GR	None
Willcross RR2383N	5	BR	3	N	1	Rps 1k	PI88788	GR	None
Willcross 2525NA	5	BR	5	N	1	S	S	GR	None
Willcross RR2335N	None	V	3.3	N	1.8	Rps 1k	PI88788	GR	None
Willcross RR2354N	None	V	3.5	N	2	Rps 1k	PI88788	GR	None
Willcross RR2355N	None	V	3.5	N	NA	Rps 1c	PI88788	GR	None
Willcross RR2362	5	BR	3	N	2	Rps 1k	S	GR	None
Willcross RR2385N	None	V	3.8	N	1.7	Rps 1c	PI88788	GR/STS	None
Willcross RR2392N	5	Br	3	N	2	Rps 1c	PI88788	GR	None
Willcross RR2392NA	5	BR	3	N	2	Rps 1c	PI88788	GR	None
Willcross RR2393N	5	BR	3	N	2	Rps 1k	PI88788	GR	None
Willcross RR2432N	5	BR	4	N	2	Rps 1a	PI88788	GR	None
Willcross RR2432NA	5	BR	4	N	2	Rps 1a	PI88788	GR	None
Willcross RR2474N	5	BR	4	N	2	S	PI88788	GR	None

Variety	Seed Treat.	Variety / Brand	Mat. Group	Exp. Variety	Phyto. Field Tolerance	Phyto. Gene	SCN Source	Herb. Res.	Special Trait
Willcross RR2484N	5	BR	4	N	2	S	PI88788	GR	None
Willcross RR2495N	5	BR	4	N	2	S	S	GR	None
Willcross RR2525N	5	BR	5	N	1	S	S	GR	None

* Descriptions were provided by the companies submitting them for evaluation

NA – Information Not Available

Seed Treatment: 1= Allegiance (Metalaxyl); 2=Apron Maxx (Mefenoxam, Fludioxonil); 3= Apron XL (Mefenoxam); 4= Molybdenum; 5= Protégé (Azoxystrobin); 6= Rival (Captan, Pentachloronitrobenzene, Thiabendazole); 7= Soygard (Metalaxyl, Azoxystrobin); 8= Vitavax (Carboxin)

Variety/ Brand: V for variety, BR for brand

Maturity Group: Relative Maturity Group

Experimental Variety: Y or N

Phytophthora Field Tolerance: Scale 1-9 (1 = excel, 9 = poor)

Phytophthora Gene: (Rps 1a, Rps 1c, Rps 1k, S = None)

Cyst Nematode Source: Peking, PI88788, Hartwig, or S=Susceptible

Herbicide Resistance: GR (glyphosate), STS, or None

Special Traits: High Oil, Food grade, Protein, Tofu, etc.

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Armor 44-R5	28, 29, 30, 31, 32, 33
Armor 47-G7	28, 29, 30, 31, 32, 33
Armor 49-T3	28, 29, 30, 31, 32, 33
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ASGROW AG3602	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
ASGROW AG3802	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22
ASGROW AG3905	19, 20, 21, 22
ASGROW AG3906	12, 13, 14, 15, 16, 17, 19, 20, 21, 22
ASGROW AG4102	12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 28, 29, 30, 31, 32, 33
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ASGROW AG4502	28, 29, 30, 31, 32, 33
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ASGROW AG5501	28, 29, 30, 31, 32, 33
ASGROW AG5605	28, 29, 30, 31, 32, 33
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DEKALB DKB36-52	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
DEKALB DKB37-51	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
DEKALB DKB38-52	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22
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Dyna Gro DG3443NRR	19, 20, 21, 22, 28, 29, 30, 31, 32, 33
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Dyna Gro DG3535NRR	28, 29, 30, 31, 32, 33
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Excel Brand 8390 NNRR	2, 3, 4, 5, 6
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Golden Harvest H-3945RR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
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Kruger 389 RR/SCN	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
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MFA Morsoy RT 3804N	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
MFA Morsoy RT 3883N	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
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MFA Morsoy RT 4044N	12, 13, 14, 15, 16, 17
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MFA Morsoy RT 4201N	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
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MPride/MPV 3905nRR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
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NuTech NT-3787 RR/SCN	2, 3, 4, 5, 6
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NuTech NT-3909sc RR/SCN/S	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
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NuTech NT-3999 RR/SCN	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
NuTech NT-3999+ RR/SCN	2, 3, 4, 5, 6
NuTech NT-3999sc RR/SCN	2, 3, 4, 5, 6
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NuTech NT-4414 RR/SCN/STS	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
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Prairie Brand PB-3732RR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Prairie Brand PB-3894NRR	2, 3, 4, 5, 6
Prairie Brand PB-3921NRR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Prairie Brand PB-4023NRR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Prairie Brand PB-4394NRR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Prairie Brand PB-4483NRR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Prairie Brand PB-5083NRR	12, 13, 14, 15, 16, 17
Producers Hybrid EX 3138N	12, 13, 14, 15, 16, 17
Producers Hybrid EX 3149N	19, 20, 21, 22
Progeny 3900RR	28, 29, 30, 31, 32, 33
Progeny 4401RR	28, 29, 30, 31, 32, 33
Progeny 4703RR	28, 29, 30, 31, 32, 33
Progeny 4860RR	28, 29, 30, 31, 32, 33
Progeny 4910	34, 35, 36, 37, 38, 39
Progeny 4949RR	28, 29, 30, 31, 32, 33
Progeny 5250RR	28, 29, 30, 31, 32, 33
Progeny 5404RR	28, 29, 30, 31, 32, 33
Progeny 5503RR	28, 29, 30, 31, 32, 33
Progeny 5660RR	28, 29, 30, 31, 32, 33
Progeny 5703RR	28, 29, 30, 31, 32, 33
Progeny 5770	34, 35, 36, 37, 38, 39
Progeny 5822RR	28, 29, 30, 31, 32, 33
Progeny PGY 4304RR	28, 29, 30, 31, 32, 33
Progeny PGY 4604RR	28, 29, 30, 31, 32, 33
Progeny PGY 4804RR	28, 29, 30, 31, 32, 33
Progeny PGY 5622RR	28, 29, 30, 31, 32, 33
Progeny PGY 5714RR	28, 29, 30, 31, 32, 33
Renze R3595RCX	2, 3, 4, 5, 6
Renze R3684Rcn	2, 3, 4, 5, 6
Renze R3814RR	2, 3, 4, 5, 6
Renze R4095Rcn	2, 3, 4, 5, 6
Renze R4385Rcn	2, 3, 4, 5, 6
Renze R4695Rcn	12, 13, 14, 15, 16, 17
Southern Cross Aaron	34, 35, 36, 37, 38, 39
Southern Cross Michael	28, 29, 30, 31, 32, 33
Southern Cross Silas	28, 29, 30, 31, 32, 33
Southern Cross Titus	28, 29, 30, 31, 32, 33
Stine S3532-4	2, 3, 4, 5, 6
Stine S3600-4	2, 3, 4, 5, 6
Stine S3832-4	2, 3, 4, 5, 6

Variety Name	Table Numbers
Stine S3932-4	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Stine S3942-4	12, 13, 14, 15, 16, 17
Stine S4102-4	2, 3, 4, 5, 6
Stine S4542-4	12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 28, 29, 30, 31, 32, 33
Stine S4842-4	12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 28, 29, 30, 31, 32, 33
Taylor 374RR	2, 3, 4, 5, 6
Taylor 398RRS	2, 3, 4, 5, 6
Terral TV57R14	28, 29, 30, 31, 32, 33
Terral TVX45RN21	28, 29, 30, 31, 32, 33
Terral TVX48RL27	28, 29, 30, 31, 32, 33
Terral TVX55RL23	28, 29, 30, 31, 32, 33
UniSouth USG 5002T	34, 35, 36, 37, 38, 39
UniSouth USG 510nRR	28, 29, 30, 31, 32, 33
UniSouth USG 5601T	34, 35, 36, 37, 38, 39
UniSouth USG 7440nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7443nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7473nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7482nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7484nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7499nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7504nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7514nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7523nRR	28, 29, 30, 31, 32, 33
UniSouth USG 7553nRS	28, 29, 30, 31, 32, 33
UniSouth USG 7563nRR	28, 29, 30, 31, 32, 33
Vigoro V38N5RS	2, 3, 4, 5, 6
Vigoro V39N4RR	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Vigoro V42N3RR	12, 13, 14, 15, 16, 17
Vigoro V48N5RR	28, 29, 30, 31, 32, 33
Vigoro V562NRR	28, 29, 30, 31, 32, 33
Willcross RR2383N	12, 13, 14, 15, 16, 17
Willcross 2525NA	19, 20, 21, 22
Willcross RR2335N	2, 3, 4, 5, 6
Willcross RR2354N	2, 3, 4, 5, 6
Willcross RR2355N	2, 3, 4, 5, 6
Willcross RR2362	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Willcross RR2385N	2, 3, 4, 5, 6
Willcross RR2392N	12, 13, 14, 15, 16, 17
Willcross RR2392NA	12, 13, 14, 15, 16, 17
Willcross RR2393N	12, 13, 14, 15, 16, 17
Willcross RR2432N	12, 13, 14, 15, 16, 17
Willcross RR2432NA	19, 20, 21, 22
Willcross RR2474N	12, 13, 14, 15, 16, 17
Willcross RR2484N	12, 13, 14, 15, 16, 17, 19, 20, 21, 22
Willcross RR2495N	19, 20, 21, 22
Willcross RR2525N	19, 20, 21, 22

Sources of Soybean Seed Entered in 2004 Missouri Soybean Tests

BRAND	FIRM and ADDRESS	PHONE #
Ag Source	Ag Source Seeds, Inc. 1800 L. Avenue, Nevada, IA 50201	515-382-8880
AgriPro	Garst Seed Company 2369 330th Street, Slater, IA 50244	515-685-5114
Armor	Armor Seed Co. PO Box 178, 316 Hawthorne, Fisher, AR 72429	870-328-7222
Asgrow	Monsanto Seed Co. 4312 Carol Avenue, Cortland, IL 60112	815-754-4809
Bio Gene	Bio Gene Seeds 5491 Tri County Hwy, Sardinia, OH 45171	937-444-6422
Croplan Gen.	Land O'Lakes P.O. Box 64281-MS, St. Paul, MN 55164	620-223-3803
Dekalb	Monsanto Seed Co. 4312 Carol Avenue, Cortland, IL 60112	815-754-4809
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	870-731-2992
Delta & Pine Land Co.	Delta & Pine Land Co. 1301 E. 50th St., Lubbock, TX 79404	806-740-1642
Dyna-Gro	UAP-MidSouth 57 Germantown Crt., Suite 200, Cordova, TN 38018	318-372-3457
Dyna-Gro	UAP-Pueblo 632 Deer Road, Clifton, KS 66937	785-455-3369
Excel Brand	Excel Brand 116 E. State St., Camp Point, IL 62320	800-893-7708
FFR	FFR Seed 969 Cloverleaf Dr., Southaven, MS 38671	901-652-0903
Garst	Garst Seed Company 2369 330th Street, Slater, IA 50244	515-685-5114
Gateway	Gateway Seed Co. 5517 Van Buren Rd., Nashville, IL 62263	618-327-8000
Golden Harvest	Golden Harvest Seeds Sommer Bros. Seed Co. PO Box 248, Pekin, IL 61555	309-346-2127
Hoblit	Hoblit Seed Co. P.O. Box 487, Atlanta, IL 61723	217-648-2392
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 22827 Shissler Rd, Elmwood, IL 61529	309-369-2872
Merschman	Merschman Seed Inc. 103 Ave. D., West Point, IA 52656	319-837-6111
MFA Morsoy	MFA Inc. 201 Ray Young Dr., Columbia, MO 65201	573-876-5363

BRAND	FIRM and ADDRESS	PHONE #
MFA Morsoy	Cache River Valley Seed LLC. 12470 Hwy 226, PO Box 10, Cash, AR 72421	870-477-5427
Midland	Midland Genetics Group L.L.C. 1906 Kingman Rd., Ottawa, KS 66067	785-242-3598
Miles Seed	Miles Seed P.O. Box 22874, Owensboro, KY 42304-2879	800-666-4537
Monsanto	Monsanto Seed Co 4312 Carol Avenue, Cortland, IL 60112	815-754-4809
MPride/MPV	Midwest Premium Genetics 523 S. Main, Concordia, MO 64020	660-463-7333
NC+	NC+ Hybrids 3820 N. 56th St., Box 4408, Lincoln, NE 68504	402-467-2517
NK Brand	Syngenta Seeds 535 Pennyryle Dr., Madisonville, KY 42431	270-339-2100
NK Brand	Syngenta Seeds Inc. 7500 Olson Memorial Hwy, Golden Valley, MN 55427	217-370-9039
NuTech Seed (Thompson)	NuTech (Thompson) Seed Co. 6131 North Fork RD, Ames, IA 50010	877-561-9067
Pioneer	Pioneer Hi-Bred Intl. Inc. 5700 Merle Hay Road, Johnston, IA 50131	515-253-5889
Pioneer	Pioneer Hi-Bred Intl. Inc. 6767 Old Madison Pike, STE 110, Huntsville, AL 35806	256-971-0760
Prairie Brand	Prairie Brand Seed Co. 15 X Ave., Story City, IA 50248	515-733-2101
Producers Hybrids	Producers Hybrids P.O. Box C, Battle Creek, NE 68715	888-675-6115
Progeny	Progeny Ag Products 1529 Hwy 193, Wynne, AR 72396	888-535-7333
Public Varieties	MSIA 3211 Lemone Ind. BLVD., Columbia, MO 65201	573-449-0586
Renze	Renze Hybrids Inc. 27410 Kittyhawk Ave., Carroll, IA 51401	712-669-3301
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
Terral	Terral Seed Inc P.O. Box 826, Lake Providence, LA 71254	318-559-2840
UniSouth	UniSouth Genetics Inc 2640-C Nolensville Rd., Nashville, TN 37211	800-505-3133
Vigoro	Royster-Clark Inc. 717 Robinson Road, Washington C.H., OH 43160	740-869-2181
Willcross	Neco Seed Farms, Inc. P.O. Box 560, Garden City, MO 64747	816-862-8203
Willcross	Willcross Seed, King City Seed 4564 U.S. Hwy 169, King City, MO 64463	660-535-4444

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