MARYLAND COOPERATIVE EXTENSION
UNIVERSITY OF MARYLAND
COLLEGE PARK•EASTERN SHORE

Information

DEPARTMENT OF PLANT SCIENCE & LANDSCAPE ARCHITECTURE
COLLEGE PARK, MD 20742 - (301) 405-6244

Agronomy Facts No. 32
Revised March 2007

2006 MARYLAND SOYBEAN VARIETY TESTS

Maryland soybean variety tests are conducted each year by the Maryland Agricultural Experiment Station, Department of Plant Science and Landscape Architecture, to provide soybean growers with the latest information on agronomic performance of soybean varieties. Varieties are tested by maturity group as designated by the releasing organization. Varieties of Maturity Groups III, IV, and V are included in the tests because they are best adapted for production in Maryland. Late maturing varieties in Maturity Group IV were evaluated separately from the other varieties in Maturity Group IV and are listed as "IV-S" in the data tables. Entries in the 2006 test included Roundup Ready and standard varieties of public and private brands available to Maryland farmers. In addition, promising new varieties and advanced breeding lines are tested to compare their performance to that of widely grown varieties. Experimental lines from Illinois (LD 0009), Maryland (MD 97-6491, MD 99-6226, MD 00-5326, MD 00-6015, MD 01-206RR, MD 01-5866, MD 01-6106, MD 02-651RR, MD 02-5362, MD 02-5988, MD 03-5151, MD 03-5202, MD 03-5188, MD 03-5453, MD 03-5458, MD 03-5517, MD 03-5527, MD 03-5665, MD 03-5872, MD 03-6420, MD 0304WN 38, MD 0304WN 47, MD 0304WN 79, MD 04-5586, MD 04-5701, and MD 04-6006), and Nebraska (U 9842) were included in the 2006 tests. The suppliers of private varieties are listed in Table 1.

The Maryland tests are designed to evaluate varieties at several planting dates and on various soil types within the soybean production areas of the state. Recommended cultural practices were followed in the establishment of each test. Tillage, row spacing, seeding rates, and plot length varied between tests and locations as shown in Table 2. Seed yield was determined on center rows of each plot, and plots were trimmed to a uniform length just prior to harvest. Each plot was replicated three times in each test and location. Seed moisture was determined on each plot at harvest and seed yield was adjusted to a 13% moisture level. Plant height and lodging were determined at maturity when 95% of the pods on each variety had attained their mature color.

The 2006 growing season was one of extremes across the state. Temperatures were generally at or above normal throughout the summer. Rainfall was low in May and early June, but wet soil conditions at the test locations delayed planting of conventionally tilled tests until the first week in June. Excessive rainfall occurred during the end of June and early July in most areas of the state. A period of high temperatures and low rainfall in late July and most of August caused considerable stress during flowering and early seed development for varieties in the tests. Rainfall increased in September and rain in October slowed harvest. Monthly rainfall amounts for May through October for the test locations are shown in Table 3.

Results of the 2006 tests are reported in Tables 4-6 for the standard varieties and in Tables 8-13 for the Roundup Ready varieties. In each of these tables, varieties within maturity groups are listed in order of yield, highest to lowest. The standard variety tests at Clarksville were lost due to poor seedling emergence caused by soil crusting that resulted from a severe storm that occurred after planting. The highest overall test location mean yields were at Quantico for the standard varieties and Keedysville for the Roundup Ready varieties.

A least significant difference (LSD) value is reported for each maturity group in every test where statistically significant differences in plant characteristics were observed among varieties. This number is a statistical test calculated at the 20 percent probability level to aid in comparing the differences among varieties in a maturity group. When two varieties are compared for a plant characteristic and the difference between them is greater than the calculated LSD value, the varieties are judged to be significantly different for that specific characteristic. The "NS" designation indicates that there are no statistically significant differences among the varieties in that maturity group for that specific characteristic. The coefficient of variation (CV) is a relative measure of the variation and is an indicator of the degree of precision for a particular test. For these soybean variety tests, CV values below 15% are an indication that the precision of the test is good in distinguishing differences in seed yield between varieties.

The performance of a variety for several years or at several locations in the same year gives a better indication of its yield potential and agronomic characteristics than do data from a single year. As an aid in assessing the performance of individual varieties in the test, a relative yield value was calculated. Tables 7 and 14 summarize the relative yields of the standard and Roundup Ready varieties, respectively, by expressing their yields as a percentage of the mean yield of all varieties in that maturity group at each location. Therefore, a variety with a relative yield that is consistently greater than 100 is a variety that consistently yields higher than the mean yield of all varieties in that maturity group. In Tables 7 and 14, the relative yields of those varieties with an asterisk are not statistically different from the highest yielding variety in that maturity group in those tests where a significant difference between varieties was observed in the statistical analyses.

Two-year average yields of standard and Roundup Ready varieties previously entered in the 2005 test are shown in the data tables. The 2005 location average yield for each maturity group and the 2005 LSD value are included in the data tables to compare variety yield differences in both years. The multiple-year data provide additional information on a variety's yielding ability. The information provided here should be used as a guide and growers should select a variety with great care based on personal experience as well as other available information.

Prepared by: W.J. Kenworthy, B.L. Ikenberry, and J.M. Treacy

Acknowledgements:

The financial support of the Maryland Soybean Board and grants for equipment from the Maryland Grain Producers' Utilization Board, University of Maryland Agricultural Experiment Station, and the Maryland Crop Improvement Association are gratefully acknowledged. The contributions of B.L. Ikenberry, J.M. Treacy, T. Conover, Jr., T.S. Ellis, F.R. Mulford, F.A. Senkbeil, M.A. Sultenfuss, P.R. Stafford, J.I. Streett, and D.M. Justice of the University of Maryland are recognized as being essential in the successful completion of these tests and are gratefully acknowledged.

Additional information:

Inclusion of entries in the Maryland Soybean Variety Tests does not constitute an endorsement or recommendation of a specific entry by the University of Maryland. Advertising statements by an individual company about the performance of its entries can be made as long as they are accurate statements about the data as published, with no reference to other companies' varieties. Statements similar to "See the official University of Maryland Soybean Variety Tests Agronomy Facts No. 32" and "Endorsement or recommendation by the University of Maryland is not implied" must accompany any information that is reproduced. Agronomy Facts No. 32 can be downloaded by selecting 'Soybeans' on the Department's cropping system webpage and choosing the appropriate publication: http://www.mdcrops.umd.edu/ .

LIST OF TABLES

Table 1. Suppliers of private entries tested in 2006.

COMPANY	BRAND	HERBICIDE REACTION	ENTRY
Clark Seeds, Inc. Kenton, DE 19955	CLARKS	Roundup Ready	CL41NRR, CL45NRR, CL47NRR, CL49NRR
Delta & Pine Land Co. Piedmont, AL 36272	D&PL	Roundup Ready “	DP4112RR/S, DP4331RR, DP4690RR, DP4724RR, DP4919RR/S
Growmark FS Milford, DE 19963	FS HISOY SCHILLINGER	Roundup Ready "	HS3855, 395NRR, 432NRR, 472NRR 396.RC, 426.RC, 465.RC
Monsanto St. Louis, MO 63167	ASGROW DEKALB	Roundup Ready "	AG3802, AG3905, AG4103, AG4404, AG4703 DKB42-51
Pioneer, A DuPont Co. Mount Joy, PA 17552	PIONEER	Roundup Ready	93M96, 94M30
Royster-Clark, Inc. Washington C.H., OH 43160	VIGORO	Roundup Ready " Standard	V36N5RR, V41N6RR, V44N6RR, V49N6RR, V50N6RR, V51N7RS V385SCN, V435SCN
Southern States Cooperative, Inc. Richmond, VA 23260	S.STATES	Roundup Ready " " " Standard	RT2800, RT3551N, RT3760N, RT3860, RT3851N, RT3951N, RT4151N, RT4440N, RT4451N, RT4551N, RT4760N, RT4777N, RT4808N, RT4981N, RT4996N, RT5130N, RT5160N SS385, SS435
Syngenta Seeds Minneapolis, MN 55440	SYNGENTA	Roundup Ready	S33-A8, S36-C7, S40-R9, S41-M5, S43-B1
T.A. Seeds Avis, PA 17721	TA SEEDS	Roundup Ready “	TS3689R, TS3989R, TS4389R, TS4399R, TS4599R, TS4689R
UniSouth Genetics, Inc. Nashville, TN 37211	USG	Roundup Ready “ “ “ Standard	7384nRS, 7393nRR, 7423nRS, 7440nRR, 7443nRR, 74A45, 7475RR, 747R6, 7489RR, 74T85, 7494nRR, 7505nRR, 75J32, 7515nRS, Allen, 56124, 56293, 56379 440nSTS, 5002T, 5601T

Table 2. The 2006 soybean variety test plot information.

WESTERN MARYLAND RESEARCH & EDUCATION CENTER
Washington County - Keedysville, MD

Tests:	Roundup Ready Maturity Groups III, IV, and IV-S
Planting Date:	June 8
Row Spacing:	24 inches
Soil Type:	Hagerstown silt loam
Soil Test:	pH 6.6, P Level- Good, K Level- Good
Previous Crop:	Corn
Fertilizer:	None
Lime:	None
Herbicide:	1 Qt/A Credit Extra on July 18
Plots:	4 rows, 20 feet long
Seeding Rate:	6.5 seeds/foot
Tillage:	Conventional

CENTRAL MARYLAND RESEARCH & EDUCATION CENTER- CLARKSVILLE FACILITY
Howard County - Clarksville, MD

Tests:	Roundup Ready Maturity Groups III, IV, and IV-S
Planting Date:	June 8
Row Spacing:	24 inches
Soil Type:	Delanco silt loam
Soil Test:	pH 6.2, P Level- 53, K Level- 226
Previous Crop:	Corn
Fertilizer:	150 Lbs/A 0-15-30
Lime:	1.5 Ton/A
Herbicide:	Post: 1 Qt/A Roundup Max on July 20
Plots:	4 rows, 20 feet long
Seeding Rate:	6.5 seeds/foot
Tillage:	Conventional

Tests:	Standard Varieties Maturity Groups III, IV, and IV-S
	Seed yields are not reported because of poor stands due to severe soil crusting.

Table 2 (Continued) Plot information

WYE RESEARCH & EDUCATION CENTER
Queen Annes County - Queenstown, MD

Tests:	Full Season Standard Varieties Maturity Groups III, IV, IV-S, and V
Planting Date:	June 16
Row Spacing:	24 inches
Soil Type:	Matapeake silt loam
Soil Test:	pH 6.2, P Index- 48, K Index- 46
Previous Crop:	Corn
Fertilizer:	200 Lbs/A 0-0-62
Lime:	None
Herbicide:	Preemergence:1.5 Pt/A Dual Magnum, 5 Oz/A Canopy XL
Plots:	4 rows, 20 feet long
Seeding Rate:	6.5 seeds/foot except Maturity Group V entries= 6 seeds/foot
Tillage:	Conventional

Tests:	Full Season Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V
Planting Date:	June 15
Row Spacing:	24 inches
Soil Type:	Matapeake silt loam
Soil Test:	pH 6.6, P Index- 50, K Index- 64
Previous Crop:	Corn
Fertilizer:	None
Lime:	None
Herbicide:	1.5 Qt/A Glyfos Xtra on July 25
Plots:	4 rows, 20 feet long
Seeding Rate:	6.5 seeds/foot except Maturity Group V entries= 6 seeds/foot
Tillage:	Conventional

Tests:	Double Crop Roundup Ready Varieties Maturity Groups III, IV, IV-S,and V
Planting Date:	July 11
Row Spacing:	7.5 inches
Soil Type:	Matapeake silt loam
Soil Test:	pH 6.0, P Index- 109, K Index- 80
Previous Crop:	Wheat
Fertilizer:	None on soybeans. 200 lbs/A 16-8-8 on wheat in fall
Lime:	None
Herbicide:	Pre-plant: 1.5 Qt/A Glystar Plus Post emergence: 1.5 Qt/A Glyfos Xtra on August 14
Plots:	7 rows, 25 feet long
Seeding Rate:	3 seeds/foot
Tillage:	None

Table 2. (Continued) Plot information

LOWER EASTERN SHORE RESEARCH & EDUCATION CENTER-POPLAR HILL FACILITY
Wicomico County - Quantico, MD

Tests:	Full Season Standard Varieties Maturity Groups III, IV, IV-S, and V
Planting Date:	June 5
Row Spacing:	24 inches
Soil Type:	Mattapex silt loam
Soil Test:	pH 6.2, P Index- Very High, K Index- High
Previous Crop:	Corn
Fertilizer:	250 Lbs/A of 0-16-36
Lime:	1 Ton/A
Herbicide:	Preemergence: 1.5Pt/A Dual 8E, 12 Oz/A Lorox DF, 3 Oz/A Canopy XL
	Post emergence: 1.5 Pt/A Storm, 1 Oz/A 2,4-DB, 3 Oz/A Blazer + Surfactant
Plots:	4 rows, 20 feet long
Seeding Rate:	6.5 seeds/foot except Maturity Group V entries= 6 seeds/foot
Tillage:	Conventional

Tests:	Full Season Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V
Planting Date:	May 25
Row Spacing:	20 inches
Soil Type:	Mattapex silt loam
Soil Test:	pH 6.4, P Index- Very High, K Index- High
Previous Crop:	No Tillage Corn
Fertilizer:	250 Lbs/A of 0-16-36
Lime:	1 Ton/A
Herbicide:	Preplant: 1 Qt/A Roundup Ultra Max, 12 Oz/A 2,4-DB, 1 Pt/A Dual 8E
	Post: 1 Qt/A Roundup Ultra Max
Plots:	4 rows, 20 feet long
Seeding Rate:	6.5 seeds/foot
Tillage:	None

Tests:	Double Crop Standard Varieties Maturity Groups III, IV, IV-S, and V
Planting Date:	June 22
Row Spacing:	15 inches
Soil Type:	Mattapex silt loam
Soil Test:	pH 6.4, P Index- Very High, K Index- High
Previous Crop:	Winter barley
Fertilizer:	None on soybeans
Lime:	None on soybeans
Herbicide:	Preemergence: 1.5 Pt/A Roundup Ultra Max,1.6 Pt/A Dual,5 Oz/A Canopy,8 Oz/A 2,4-DB
	Post emergence: 1.5 Pt/A Storm, 1 Oz/A 2,4-DB, 3 Oz/A Blazer + Surfactant
Plots:	5 rows, 20 feet long
Seeding Rate:	6 seeds/foot
Tillage:	None

Table 2. (Continued) Plot information

Tests:	Double Crop Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V
Planting Date:	June 22
Row Spacing:	15 inches
Soil Type:	Mattapex silt loam
Soil Test:	pH 6.4, P Index- very High, K Index- High
Previous Crop:	Winter barley
Fertilizer:	None on soybeans
Lime:	None on soybeans
Herbicide:	Preemergence: 1 Qt/A Roundup Ultra Max
	Post: 1 Qt/A Roundup Ultra Max
Plots:	5 rows, 20 feet long
Seeding Rate:	6 seeds/foot
Tillage:	None

Table 3. Monthly precipitation (inches) during May through October at variety test locations.

Location	May	June	July	Aug.	Sept.	Oct.	Total
Keedysville	2.14	6.48	2.44	1.10	6.66	4.88	23.70
Clarksville	1.71	11.49	3.62	1.57	5.52	5.30	29.21
Queenstown	0.80	11.75	5.19	1.75	9.19	4.92	33.60
Quantico	1.60	5.09	5.52	1.59	7.43	5.52	26.75

Table 4. Performance of standard soybean varieties planted at Queenstown.

	Seed Yield, Bu/A			2006		
BRAND - ENTRY	**2006**	**2005**	**2- Year**	**Maturity Date**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III						
VIGORO - V385scn	45.2	53.0	49.1	10-05	30	2.2
S.STATES - SS385	42.8	-	-	10-06	29	1.3
EXPERIMENTAL - U 9842	42.1	-	-	10-04	20	1.0
PUBLIC - MACON	36.8	46.1	41.5	10-03	25	2.3
EXPERIMENTAL - MD 03-5188	35.5	-	-	10-04	28	2.3
EXPERIMENTAL - MD 03-5453	32.8	-	-	9-25	22	1.7
PUBLIC - IA 3023	32.5	49.0	40.8	9-26	23	1.3
PUBLIC - IA 3017	32.1	45.2	38.7	9-26	20	1.3
EXPERIMENTAL - MD 03-5458	30.2	39.5	34.8	9-26	25	2.0
EXPERIMENTAL - MD 03-5872	28.7	-	-	10-04	20	1.5
EXPERIMENTAL - MD 03-5665	28.1	-	-	10-04	18	1.0
EXPERIMENTAL - MD 03-5151	25.4	-	-	9-25	21	1.0
MEAN	**34.3**	**47.1**	**40.7**	-	**23**	**1.6**
LSD (0.20)	**4.6**	**5.0**	-	-	**2**	**0.5**
CV (%)	**12.5**	**9.6**				
MATURITY GROUP IV						
VIGORO - V435scn	48.7	65.1	56.9	10-11	29	1.3
S.STATES - SS435	48.2	-	-	10-11	29	1.7
PUBLIC - MONOCACY	42.8	55.4	49.1	10-06	30	2.2
EXPERIMENTAL - LD 0009	42.1	-	-	10-02	24	1.3
USG - 440nSTS	41.1	-	-	10-07	28	2.2
PUBLIC - LS 93-0375	39.9	-	-	10-07	28	1.7
PUBLIC - HS 93-4118	38.3	54.9	46.6	10-04	24	1.7
PUBLIC - STRESSLAND	37.9	52.5	45.2	10-05	30	2.2
EXPERIMENTAL - MD 04-6006	37.0	-	-	10-04	25	2.3
EXPERIMENTAL - MD 02-5988	35.5	-	-	10-05	28	2.3
EXPERIMENTAL - MD 03-5527	33.9	-	-	10-08	24	1.0
EXPERIMENTAL - MD 04-5586	33.4	-	-	10-07	28	2.8
EXPERIMENTAL - MD 03-5202	33.2	-	-	10-04	27	3.0
EXPERIMENTAL - MD 02-5362	28.3	-	-	10-04	23	2.3
MEAN	**38.6**	**55.6**	**47.1**	-	**27**	**2.0**
LSD (0.20)	**3.6**	**5.2**	-	-	**2**	**0.3**
CV (%)	**8.7**	**8.6**				

Table 4. (Continued) Queenstown- Standard Soybean Varieties

BRAND - ENTRY	Seed Yield, Bu/A 2006	Seed Yield, Bu/A 2005	Seed Yield, Bu/A 2-Year	2006 Maturity Date	2006 Height, Inches	2006 Lodging Score*
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 00-5326	53.3	56.1	54.7	10-21	29	1.5
EXPERIMENTAL - MD 01-5866	52.0	55.5	53.7	10-21	23	1.3
PUBLIC - MD 4900	48.4	56.6	52.5	10-20	19	1.7
PUBLIC - MANOKIN	47.5	51.7	49.6	10-20	28	3.3
EXPERIMENTAL - MD 97-6491	46.9	53.5	50.2	10-10	29	2.2
EXPERIMENTAL - MD 00-6015	46.4	-	-	10-16	19	1.2
EXPERIMENTAL - MD 03-6420	45.6	-	-	10-14	30	2.0
PUBLIC - KS 4602N	44.3	54.2	49.3	10-12	27	2.3
EXPERIMENTAL - MD 03-5517	41.9	-	-	10-13	26	1.7
EXPERIMENTAL - MD 04-5701	39.0	-	-	10-14	31	2.3
EXPERIMENTAL - MD0304WN 79	36.5	51.5	44.0	10-08	22	1.5
EXPERIMENTAL - MD0304WN 47	36.1	-	-	10-11	34	3.2
EXPERIMENTAL - MD0304WN 38	32.1	-	-	10-08	17	1.3
MEAN	**43.8**	**52.4**	**48.1**	-	**26**	**2.0**
LSD (0.20)	**3.5**	**3.7**	-	-	**2**	**0.4**
CV (%)	**7.5**	**6.5**				
MATURITY GROUP V						
EXPERIMENTAL - MD 01-6106	46.2	49.6	47.9	10-26	27	2.0
PUBLIC - KS 5502N	43.8	49.1	46.5	10-26	25	2.0
EXPERIMENTAL - MD 99-6226	41.0	55.5	48.2	10-22	21	1.3
USG - 5601T	40.3	54.3	47.3	10-26	27	1.7
PUBLIC - HUTCHESON	37.8	55.6	46.7	10-24	24	1.8
PUBLIC - TEEJAY	36.9	57.1	47.0	10-21	23	1.5
USG - 5002T	33.0	53.2	43.1	10-22	25	2.0
PUBLIC - HOLLADAY	31.7	52.9	42.3	10-21	20	1.5
PUBLIC - ESSEX	29.2	39.3	34.2	10-21	19	1.5
MEAN	**37.7**	**50.3**	**44.0**	-	**23**	**1.7**
LSD (0.20)	**3.9**	**4.7**	-	-	**2**	**0.2**
CV (%)	**9.5**	**8.8**				

*Lodging Score:1=all plants erect, to 5=all plants down

Table 5. Performance of standard soybean varieties planted full season at Quantico.

	Seed Yield, Bu/A			2006		
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Maturity Date**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III						
VIGORO - V385scn	62.1	53.7	57.9	10-01	36	2.8
S.STATES - SS385	60.8	-	-	10-01	34	2.7
EXPERIMENTAL - U 9842	58.4	-	-	10-01	26	2.8
EXPERIMENTAL - MD 03-5453	56.4	-	-	10-01	30	4.0
EXPERIMENTAL - MD 03-5188	56.0	-	-	9-28	32	3.2
PUBLIC - IA 3023	55.8	46.3	51.1	9-26	27	2.8
EXPERIMENTAL - MD 03-5458	52.9	46.9	49.9	9-29	35	3.8
PUBLIC - MACON	49.9	46.6	48.2	10-01	29	3.2
EXPERIMENTAL - MD 03-5665	49.1	-	-	10-01	24	2.2
EXPERIMENTAL - MD 03-5872	48.3	-	-	9-27	27	2.7
PUBLIC - IA 3017	45.4	47.5	46.4	9-25	25	3.2
EXPERIMENTAL - MD 03-5151	37.4	-	-	9-25	23	3.0
MEAN	**52.7**	**49.9**	**51.3**	-	**29**	**3.0**
LSD (0.20)	**3.4**	**2.6**	-	-	**3**	**0.3**
CV (%)	**5.9**	**4.7**				
MATURITY GROUP IV						
S.STATES - SS435	64.1	-	-	10-13	34	2.3
PUBLIC - STRESSLAND	62.8	55.3	59.1	10-07	36	3.3
VIGORO - V435scn	61.5	61.7	61.6	10-13	33	2.5
EXPERIMENTAL - MD 02-5988	60.4	-	-	10-12	35	3.5
PUBLIC - HS 93-4118	58.7	52.3	55.5	10-03	33	3.3
USG - 440nSTS	58.3	-	-	10-09	34	3.0
PUBLIC - MONOCACY	57.6	58.2	57.9	10-04	36	3.0
EXPERIMENTAL - MD 04-6006	55.8	-	-	10-10	33	3.0
EXPERIMENTAL - MD 04-5586	55.4	-	-	10-11	34	3.8
EXPERIMENTAL - MD 03-5527	52.9	-	-	10-10	34	2.7
EXPERIMENTAL - LD 0009	52.4	-	-	10-08	27	2.3
EXPERIMENTAL - MD 03-5202	49.1	-	-	10-08	35	4.0
PUBLIC - LS 93-0375	47.2	-	-	10-04	33	2.7
EXPERIMENTAL - MD 02-5362	45.3	-	-	10-10	29	3.3
MEAN	**55.8**	**54.6**	**55.2**	-	**33**	**3.1**
LSD (0.20)	**5.2**	**3.1**	-	-	**2**	**0.4**
CV (%)	**8.6**	**5.3**				

Table 5. (Continued) Quantico - Full Season, Standard Soybean Varieties

BRAND - ENTRY	Seed Yield, Bu/A 2006	Seed Yield, Bu/A 2005	Seed Yield, Bu/A 2-Year	2006 Maturity Date	2006 Height, Inches	2006 Lodging Score*
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 00-5326	62.7	49.1	55.9	10-20	36	3.0
EXPERIMENTAL - MD 00-6015	60.1	-	-	10-21	23	2.3
PUBLIC - MD 4900	59.8	57.5	58.6	10-21	25	2.2
EXPERIMENTAL - MD 01-5866	58.6	50.3	54.5	10-19	28	2.0
PUBLIC - KS 4602N	58.0	45.8	51.9	10-13	32	3.2
PUBLIC - MANOKIN	55.4	47.5	51.4	10-17	30	3.3
EXPERIMENTAL - MD 97-6491	53.5	50.6	52.0	10-10	35	3.0
EXPERIMENTAL - MD 03-6420	52.9	-	-	10-21	34	2.8
EXPERIMENTAL - MD0304WN 47	52.2	-	-	10-21	41	3.5
EXPERIMENTAL - MD 03-5517	50.7	-	-	10-20	35	2.5
EXPERIMENTAL - MD 04-5701	49.9	-	-	10-16	35	3.2
EXPERIMENTAL - MD0304WN 38	45.0	-	-	10-18	24	2.5
EXPERIMENTAL - MD0304WN 79	42.4	41.4	41.9	10-21	30	2.3
MEAN	**54.0**	**48.1**	**51.1**	-	**31**	**2.8**
LSD (0.20)	**3.6**	**2.9**	-	-	**2**	**0.2**
CV (%)	**6.3**	**5.6**				
MATURITY GROUP V						
USG - 5601T	67.5	52.3	59.9	10-31	34	2.8
USG - 5002T	62.0	57.3	59.6	10-24	29	2.7
EXPERIMENTAL - MD 99-6226	60.7	57.1	58.9	10-25	29	2.5
PUBLIC - TEEJAY	60.7	54.6	57.7	10-28	28	2.2
EXPERIMENTAL - MD 01-6106	60.6	55.9	58.3	10-31	30	2.5
PUBLIC - HOLLADAY	59.2	55.9	57.5	10-24	27	2.7
PUBLIC - HUTCHESON	57.7	51.5	54.6	10-28	29	2.8
PUBLIC - KS 5502N	57.2	49.3	53.3	10-30	30	2.8
PUBLIC - ESSEX	51.1	52.0	51.5	10-24	22	2.2
MEAN	**59.6**	**53.4**	**56.5**	-	**29**	**2.6**
LSD (0.20)	**2.7**	**4.2**	-	-	**2**	**0.2**
CV (%)	**4.2**	**7.2**				

*Lodging Score:1=all plants erect, to 5=all plants down

Table 6. Performance of standard soybean varieties double cropped at Quantico.

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III					
S.STATES - SS385	57.1	-	-	31	2.2
VIGORO - V385scn	55.0	55.4	55.2	29	2.2
PUBLIC - IA 3023	50.7	45.4	48.0	24	2.3
EXPERIMENTAL - MD 03-5453	50.6	-	-	27	3.0
PUBLIC - IA 3017	50.5	53.7	52.1	26	3.0
EXPERIMENTAL - U 9842	49.5	-	-	24	2.0
EXPERIMENTAL - MD 03-5188	47.8	-	-	34	3.2
PUBLIC - MACON	47.4	48.4	47.9	27	2.8
EXPERIMENTAL - MD 03-5665	45.8	-	-	24	2.2
EXPERIMENTAL - MD 03-5458	45.6	58.2	51.9	27	2.7
EXPERIMENTAL - MD 03-5151	43.8	-	-	23	2.3
EXPERIMENTAL - MD 03-5872	43.6	-	-	23	2.3
MEAN	**48.9**	**53.0**	**51.0**	**27**	**2.5**
LSD (0.20)	**3.8**	**2.4**	-	**2**	**0.4**
CV (%)	**7.2**	**4.1**			
MATURITY GROUP IV					
S.STATES - SS435	60.4	-	-	31	2.2
VIGORO - V435scn	59.1	45.0	52.0	30	2.0
USG - 440nSTS	58.3	-	-	31	2.3
PUBLIC - HS 93-4118	57.9	41.0	49.4	27	1.8
PUBLIC - STRESSLAND	57.5	47.4	52.5	29	3.2
PUBLIC - MONOCACY	57.1	44.1	50.6	31	3.0
EXPERIMENTAL - LD 0009	54.5	-	-	26	1.5
EXPERIMENTAL - MD 03-5527	53.1	-	-	29	2.3
EXPERIMENTAL - MD 02-5988	51.9	-	-	31	3.2
EXPERIMENTAL - MD 03-5202	51.7	-	-	30	3.3
PUBLIC - LS 93-0375	51.3	-	-	27	2.3
EXPERIMENTAL - MD 04-6006	49.5	-	-	27	2.8
EXPERIMENTAL - MD 04-5586	49.4	-	-	33	3.5
EXPERIMENTAL - MD 02-5362	45.8	-	-	27	3.5
MEAN	**54.1**	**44.3**	**49.2**	**29**	**2.6**
LSD (0.20)	**3.3**	**4.4**	-	**2**	**0.3**
CV (%)	**5.6**	**9.2**			

Table 6. (Continued) Quantico - Double Crop, Standard Soybean Varieties

BRAND - ENTRY	Seed Yield, Bu/A 2006	2005	2-Year	2006 Height, Inches	Lodging Score*
MATURITY GROUP IV-S					
PUBLIC - MD 4900	59.1	46.6	52.8	22	1.3
EXPERIMENTAL - MD 00-6015	58.7	-	-	19	1.3
EXPERIMENTAL - MD 00-5326	58.1	44.6	51.4	29	1.5
PUBLIC - MANOKIN	56.6	34.7	45.6	28	3.5
EXPERIMENTAL - MD 01-5866	54.7	51.3	53.0	25	2.0
EXPERIMENTAL - MD 03-6420	53.7	-	-	30	2.5
EXPERIMENTAL - MD 03-5517	52.3	-	-	28	2.3
PUBLIC - KS 4602N	52.1	50.3	51.2	25	2.2
EXPERIMENTAL - MD 97-6491	51.8	52.5	52.1	27	1.8
EXPERIMENTAL - MD 04-5701	51.7	-	-	29	2.7
EXPERIMENTAL - MD0304WN 38	49.3	-	-	26	2.5
EXPERIMENTAL - MD0304WN 47	45.0	-	-	31	3.0
EXPERIMENTAL - MD0304WN 79	40.9	43.2	42.1	25	1.2
MEAN	**52.6**	**44.1**	**48.4**	**26**	**2.1**
LSD (0.20)	**3.8**	**5.1**	-	**3**	**0.4**
CV (%)	**6.8**	**10.7**			
MATURITY GROUP V					
PUBLIC - TEEJAY	64.7	33.8	49.3	31	3.0
PUBLIC - HOLLADAY	62.3	40.1	51.2	29	2.7
EXPERIMENTAL - MD 99-6226	60.5	45.3	52.9	31	3.0
USG - 5601T	55.4	38.3	46.8	34	2.8
EXPERIMENTAL - MD 01-6106	54.1	35.6	44.9	31	3.2
PUBLIC - HUTCHESON	53.1	38.3	45.7	30	2.7
USG - 5002T	52.9	35.7	44.3	30	2.8
PUBLIC - ESSEX	52.1	43.0	47.6	27	2.8
PUBLIC - KS 5502N	48.4	33.0	40.7	28	3.2
MEAN	**56.0**	**37.2**	**46.6**	**30**	**2.9**
LSD (0.20)	**3.1**	**4.7**	**-**	**3**	**NS**
CV (%)	**5.1**	**11.7**			

*Lodging Score:1=all plants erect, to 5=all plants down

Table 7. Relative yields of standard soybean varieties compared to the mean yield of all varieties in that maturity group at each location in 2006.

BRAND - ENTRY	Queenstown	Quantico	
		Full Season	Double Crop
MATURITY GROUP III	**Relative Yield, % of Mean**		
PUBLIC - IA 3017	94	86	103
PUBLIC - IA 3023	95	106	104
PUBLIC - MACON	107	95	97
S.STATES - SS385	125*	115*	117*
EXPERIMENTAL - U 9842	123*	111	101
VIGORO - V385scn	132*	118*	112*
EXPERIMENTAL - MD 03-5151	74	71	90
EXPERIMENTAL - MD 03-5188	103	106	98
EXPERIMENTAL - MD 03-5453	96	107	103
EXPERIMENTAL - MD 03-5458	88	100	93
EXPERIMENTAL - MD 03-5665	82	93	94
EXPERIMENTAL - MD 03-5872	84	92	89
Location/Group Mean Yield	**34.3**	**52.7**	**48.9**
MATURITY GROUP IV			
PUBLIC - HS 93-4118	99	105	107*
EXPERIMENTAL - LD 0009	109	94	101
PUBLIC - LS 93-0375	103	85	95
PUBLIC - MONOCACY	111	103	105
S.STATES - SS435	125*	115*	112*
PUBLIC - STRESSLAND	98	113*	106*
USG - 440nSTS	106	104	108*
VIGORO - V435scn	126*	110*	109*
EXPERIMENTAL - MD 02-5362	73	81	85
EXPERIMENTAL - MD 02-5988	92	108*	96
EXPERIMENTAL - MD 03-5202	86	88	96
EXPERIMENTAL - MD 03-5527	88	95	98
EXPERIMENTAL - MD 04-5586	87	99	91
EXPERIMENTAL - MD 04-6006	96	100	92
Location/Group Mean Yield	**38.6**	**55.8**	**54.1**

Table 7. (Continued) Relative Yields, Standard Soybean Varieties

BRAND - ENTRY	Queenstown	Quantico	
		Full Season	Double Crop
MATURITY GROUP IV-S	**Relative Yield, % of Mean**		
PUBLIC - KS 4602N	101	107	99
PUBLIC - MANOKIN	108	103	108*
PUBLIC - MD 4900	111	111*	112*
EXPERIMENTAL - MD 97-6491	107	99	98
EXPERIMENTAL - MD 00-5326	122*	116*	110*
EXPERIMENTAL - MD 00-6015	106	111*	112*
EXPERIMENTAL - MD 01-5866	119*	109	104
EXPERIMENTAL - MD 03-5517	96	94	99
EXPERIMENTAL - MD 03-6420	104	98	102
EXPERIMENTAL - MD0304WN 38	73	83	94
EXPERIMENTAL - MD0304WN 47	82	97	86
EXPERIMENTAL - MD0304WN 79	83	79	78
EXPERIMENTAL - MD 04-5701	89	92	98
Location/Group Mean Yield	**43.8**	**54.0**	**52.6**
MATURITY GROUP V			
PUBLIC - ESSEX	77	86	93
PUBLIC - HOLLADAY	84	99	111*
PUBLIC - HUTCHESON	100	97	95
PUBLIC - KS 5502N	116*	96	86
EXPERIMENTAL - MD 99-6226	109	102	108
EXPERIMENTAL - MD 01-6106	122*	102	97
PUBLIC - TEEJAY	98	102	116*
USG - 5002T	87	104	94
USG - 5601T	107	113*	99
Location/Group Mean Yield	**37.7**	**59.6**	**56.0**

*Yield is not significantly different from the highest yielding entry in this maturity group at this location.

Actual variety yield can be obtained by converting the relative yield to a decimal percentage and multiplying this value by the location/group mean yield. A variety with a relative yield that is consistently greater than 100 is a variety that consistently yields higher than the mean yield of all of those varieties in that maturity group.

Table 8. Performance of Roundup Ready soybean varieties planted at Keedysville.

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III					
S.STATES - RT3860	66.8	-	-	28	1.0
ASGROW - AG3905	64.6	60.6	62.6	26	1.0
FS HISOY - HS3855	64.4	-	-	26	1.0
TA SEEDS - TS3689R	63.9	-	-	29	1.2
VIGORO - V36N5RR	62.7	62.0	62.4	31	1.5
SYNGENTA - S36-C7	62.5	-	-	25	1.0
TA SEEDS - TS3989R	62.0	-	-	28	1.0
S.STATES - RT3951N	61.7	61.9	61.8	33	2.0
PIONEER - 93M96	58.3	-	-	25	1.0
FS HISOY - 395NRR	57.7	59.6	58.7	24	1.0
SCHILLINGER - 396.RC	57.7	57.0	57.4	27	1.0
SYNGENTA - S33-A8	57.0	-	-	29	1.3
USG - 7393nRR	57.0	54.3	55.6	26	1.0
USG - 7384nRS	56.5	-	-	25	1.0
S.STATES - RT3760N	55.7	-	-	31	1.0
S.STATES - RT3551N	54.0	60.0	57.0	29	1.0
ASGROW - AG3802	53.8	59.5	56.7	29	1.2
S.STATES - RT3851N	52.1	54.6	53.4	27	1.0
S.STATES - RT2800 (Group 2)	46.9	51.8	49.3	28	1.0
MEAN	**58.7**	**57.0**	**57.9**	**28**	**1.1**
LSD (0.20)	**6.3**	**4.3**	**-**	**3**	**0.2**
CV (%)	**10.1**	**7.1**	**-**		

Table 8. (Continued) Keedysville - Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV					
VIGORO - V44N6RR	68.3	53.8	61.1	37	1.3
SYNGENTA - S41-M5	66.6	-	-	35	1.7
VIGORO - V41N6RR	65.6	-	-	33	1.0
S.STATES - RT4451N	64.5	57.9	61.2	35	1.2
TA SEEDS - TS4389R	63.1	-	-	34	1.5
USG - 7423nRS	62.5	57.3	59.9	31	1.0
S.STATES - RT4440N	62.3	59.3	60.8	35	1.5
SYNGENTA - S43-B1	62.0	52.5	57.2	33	1.7
USG - 74A45	60.7	56.6	58.6	35	1.5
CLARKS - CL45NRR	60.2	-	-	36	1.0
D&PL - DP4331RR	59.8	56.5	58.2	37	1.0
USG - 7440nRR	59.7	55.7	57.7	34	1.0
ASGROW - AG4404	59.6	56.6	58.1	34	1.3
FS HISOY - 432NRR	59.3	52.0	55.7	34	1.0
CLARKS - CL41NRR	58.8	-	-	33	1.3
PIONEER - 94M30	58.8	58.0	58.4	30	1.0
ASGROW - AG4103	58.4	-	-	29	1.2
SCHILLINGER - 426.RC	57.9	53.7	55.8	31	1.3
DEKALB - DKB42-51	57.7	62.6	60.2	29	1.0
TA SEEDS - TS4599R	56.9	-	-	29	1.0
SYNGENTA - S40-R9	56.5	54.1	55.3	36	1.5
USG - 7443nRR	56.3	58.8	57.6	32	1.0
S.STATES - RT4551N	56.3	55.3	55.8	34	1.3
TA SEEDS - TS4399R	56.0	56.6	56.3	33	1.0
S.STATES - RT4151N	53.6	56.5	55.0	32	1.0
D&PL - DP4112RR/S	52.5	-	-	38	1.7
MEAN	**59.8**	**56.4**	**58.1**	**33**	**1.2**
LSD (0.20)	**5.9**	**3.5**	**-**	**3**	**0.4**
CV (%)	**9.3**	**5.9**			

Table 8. (Continued) Keedysville - Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV-S					
EXPERIMENTAL - MD 02-651RR	67.9	-	-	27	1.0
S.STATES - RT4777N	66.9	-	-	34	1.7
TA SEEDS - TS4689R	66.2	-	-	28	1.2
S.STATES - RT4760N	65.4	-	-	32	1.7
S.STATES - RT4808N	65.3	56.2	60.7	34	1.3
USG - 7475RR	64.2	-	-	30	1.3
VIGORO - V49N6RR	62.4	61.6	62.0	35	1.7
CLARKS - CL49NRR	62.1	-	-	33	1.5
USG - 74T85	62.0	-	-	34	1.3
USG - 7489RR	61.7	58.7	60.2	32	1.8
D&PL - DP4690RR	61.6	57.5	59.6	26	1.0
S.STATES - RT4996N	60.9	-	-	34	1.8
USG - 747R6	60.8	-	-	32	2.0
USG - 7494nRR	60.8	-	-	31	2.0
D&PL - DP4724RR	60.3	54.9	57.6	29	1.0
CLARKS - CL47NRR	60.1	-	-	30	1.0
VIGORO - V50N6RR	59.8	-	-	34	1.2
D&PL - DP4919RR/S	59.3	-	-	32	1.8
ASGROW - AG4703	59.3	65.0	62.1	30	1.0
S.STATES - RT4981N	57.5	54.8	56.1	34	1.5
SCHILLINGER - 465.RC	57.2	51.9	54.6	31	1.2
FS HISOY - 472NRR	53.3	57.2	55.2	25	1.0
MEAN	**61.6**	**55.9**	**58.8**	**31**	**1.4**
LSD (0.20)	**5.1**	**3.8**	**-**	**3**	**0.5**
CV (%)	**7.9**	**6.3**			

*Lodging Score:1=all plants erect, to 5=all plants down

Table 9. Performance of Roundup Ready soybean varieties planted at Clarksville.

	2006			
BRAND - ENTRY	**Seed Yield, Bu/A****	**Maturity Date**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III				
PIONEER - 93M96	60.3	10-11	28	1.0
TA SEEDS - TS3989R	59.4	10-11	30	1.2
S.STATES - RT3760N	54.6	10-09	34	1.2
SCHILLINGER - 396.RC	53.8	10-11	27	1.0
FS HISOY - 395NRR	52.9	10-07	26	1.0
SYNGENTA - S36-C7	52.4	10-08	24	1.0
S.STATES - RT3860	52.3	10-07	28	1.2
ASGROW - AG3905	51.8	10-11	27	1.2
S.STATES - RT3851N	51.4	10-09	30	1.0
S.STATES - RT3951N	51.3	10-08	30	1.3
SYNGENTA - S33-A8	50.2	10-07	28	1.5
VIGORO - V36N5RR	50.0	10-06	29	1.0
FS HISOY - HS3855	49.9	10-07	25	1.0
USG - 7384nRS	49.2	10-07	23	1.0
S.STATES - RT3551N	49.1	10-03	28	1.0
ASGROW - AG3802	47.6	10-08	27	1.0
USG - 7393nRR	47.0	10-08	27	1.2
TA SEEDS - TS3689R	44.8	10-06	24	1.0
S.STATES - RT2800 (Group 2)	41.1	9-30	28	1.0
MEAN	**51.0**	**-**	**27**	**1.1**
LSD (0.20)	**4.8**	**-**	**2**	**NS**
CV (%)	**8.9**			

Table 9. (Continued) Clarksville - Roundup Ready Soybean Varieties

BRAND - ENTRY	2006 Seed Yield, Bu/A**	Maturity Date	Height, Inches	Lodging Score*
MATURITY GROUP IV				
S.STATES - RT4151N	53.3	10-15	26	1.0
PIONEER - 94M30	52.6	10-17	26	1.0
S.STATES - RT4451N	52.6	10-15	27	1.0
ASGROW - AG4404	52.5	10-15	26	1.0
S.STATES - RT4551N	51.5	10-17	29	1.0
VIGORO - V44N6RR	51.2	10-16	28	1.0
VIGORO - V41N6RR	50.8	10-13	28	1.0
CLARKS - CL45NRR	50.1	10-16	30	1.0
D&PL - DP4112RR/S	49.2	10-14	28	1.0
ASGROW - AG4103	48.2	10-13	23	1.0
USG - 7440nRR	47.2	10-15	27	1.0
TA SEEDS - TS4399R	46.9	10-15	25	1.0
SYNGENTA - S43-B1	46.7	10-15	25	1.0
TA SEEDS - TS4599R	46.7	10-15	24	1.0
TA SEEDS - TS4389R	46.4	10-16	25	1.0
SCHILLINGER - 426.RC	46.3	10-11	27	1.0
D&PL - DP4331RR	46.2	10-12	27	1.0
CLARKS - CL41NRR	45.7	10-13	26	1.0
FS HISOY - 432NRR	45.6	10-16	25	1.0
DEKALB - DKB42-51	45.5	10-15	25	1.0
USG - 7443nRR	44.9	10-14	23	1.0
SYNGENTA - S40-R9	44.1	10-16	25	1.0
S.STATES - RT4440N	43.9	10-15	27	1.0
USG - 74A45	43.6	10-15	30	1.0
SYNGENTA - S41-M5	43.3	10-09	25	1.0
USG - 7423nRS	41.4	10-15	24	1.0
MEAN	**47.6**	**-**	**26**	**1.0**
LSD (0.20)	**4.8**	**-**	**2**	**NS**
CV (%)	**9.4**			

Table 9. (Continued) Clarksville - Roundup Ready Soybean Varieties

BRAND - ENTRY	2006 Seed Yield, Bu/A**	Maturity Date	Height, Inches	Lodging Score*
MATURITY GROUP IV-S				
USG - 7494nRR	63.5	10-17	33	1.8
S.STATES - RT4760N	62.2	10-16	35	2.2
USG - 747R6	61.9	10-16	33	1.8
S.STATES - RT4996N	59.4	10-22	33	1.5
TA SEEDS - TS4689R	59.3	10-16	28	1.2
ASGROW - AG4703	59.2	10-17	29	1.2
S.STATES - RT4808N	58.6	10-17	29	1.3
D&PL - DP4724RR	58.3	10-19	31	1.8
EXPERIMENTAL - MD 02-651RR	58.1	10-16	31	1.5
CLARKS - CL47NRR	57.8	10-16	32	1.5
CLARKS - CL49NRR	57.8	10-22	39	1.8
SCHILLINGER - 465.RC	57.2	10-17	33	1.7
FS HISOY - 472NRR	57.1	10-20	30	1.7
USG - 74T85	56.8	10-20	32	1.3
VIGORO - V49N6RR	56.3	10-20	34	1.3
VIGORO - V50N6RR	56.2	10-22	32	1.2
S.STATES - RT4777N	55.7	10-19	30	1.5
S.STATES - RT4981N	55.7	10-21	34	1.3
USG - 7489RR	54.8	10-19	32	1.5
D&PL - DP4919RR/S	54.4	10-20	34	2.2
USG - 7475RR	53.9	10-16	31	1.5
D&PL - DP4690RR	53.4	10-16	32	1.5
MEAN	**57.6**	**-**	**32**	**1.6**
LSD (0.20)	**3.8**	**-**	**3**	**0.4**
CV (%)	**6.3**			

*Lodging Score:1=all plants erect, to 5=all plants down
**No yield data from 2005 for this location.

Table 10. Performance of Roundup Ready soybean varieties planted full season at Queenstown.

	Seed Yield, Bu/A			2006		
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Maturity Date**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III						
FS HISOY - HS3855	59.4	-	-	10-10	29	1.5
S.STATES - RT3860	59.1	-	-	10-08	29	1.5
SYNGENTA - S36-C7	58.4	-	-	10-11	25	1.0
FS HISOY - 395NRR	58.4	57.4	57.9	10-11	30	1.0
ASGROW - AG3905	56.8	56.0	56.4	10-11	31	1.2
TA SEEDS - TS3689R	56.7	-	-	10-05	28	1.2
USG - 7384nRS	56.7	-	-	10-09	26	1.0
SYNGENTA - S33-A8	56.6	-	-	10-07	33	3.0
PIONEER - 93M96	56.4	-	-	10-09	29	1.0
ASGROW - AG3802	56.3	57.4	56.9	10-08	31	1.7
TA SEEDS - TS3989R	55.5	-	-	10-11	33	2.2
VIGORO - V36N5RR	54.7	62.1	58.4	10-09	32	2.0
USG - 7393nRR	54.7	54.3	54.5	10-09	30	2.0
S.STATES - RT3851N	54.6	57.0	55.8	10-11	30	1.5
S.STATES - RT3951N	52.5	56.2	54.3	10-08	31	1.5
S.STATES - RT3760N	51.8	-	-	10-08	32	2.0
SCHILLINGER - 396.RC	50.4	61.4	55.9	10-10	29	2.0
S.STATES - RT3551N	50.2	58.3	54.2	10-06	30	2.3
S.STATES - RT2800 (Group 2)	44.1	57.3	50.7	10-03	28	1.7
MEAN	**54.9**	**56.7**	**55.8**	**-**	**30**	**1.6**
LSD (0.20)	**3.5**	**4.1**	**-**	**-**	**2**	**0.3**
CV (%)	**6.0**	**6.8**				

Table 10. (Continued) Queenstown - Full Season, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006		
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Maturity Date**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV						
ASGROW - AG4404	61.9	60.1	61.0	10-20	33	2.2
USG - 74A45	59.0	58.9	59.0	10-13	32	1.8
VIGORO - V44N6RR	58.6	59.1	58.9	10-13	33	2.0
S.STATES - RT4451N	58.4	63.2	60.8	10-16	31	2.0
USG - 7423nRS	57.9	61.0	59.5	10-14	27	1.2
VIGORO - V41N6RR	57.6	-	-	10-11	32	2.3
S.STATES - RT4151N	57.6	71.7	64.6	10-16	32	2.8
CLARKS - CL45NRR	57.5	-	-	10-13	33	2.2
TA SEEDS - TS4389R	57.4	-	-	10-13	31	3.0
FS HISOY - 432NRR	56.9	62.8	59.9	10-17	31	2.3
S.STATES - RT4440N	56.8	62.1	59.5	10-17	30	2.2
S.STATES - RT4551N	56.6	59.5	58.1	10-16	31	1.8
USG - 7443nRR	56.5	65.5	61.0	10-14	29	1.7
TA SEEDS - TS4399R	56.4	58.6	57.5	10-16	31	1.8
ASGROW - AG4103	56.1	-	-	10-15	29	1.8
TA SEEDS - TS4599R	54.7	-	-	10-14	28	1.0
SYNGENTA - S40-R9	54.3	58.1	56.2	10-19	35	2.7
PIONEER - 94M30	53.6	56.1	54.9	10-21	29	1.7
SCHILLINGER - 426.RC	53.2	57.7	55.5	10-11	30	1.5
D&PL - DP4331RR	52.9	63.1	58.0	10-17	29	2.2
CLARKS - CL41NRR	52.6	-	-	10-14	31	2.5
SYNGENTA - S43-B1	52.3	59.5	55.9	10-13	32	2.2
USG - 7440nRR	52.0	58.5	55.2	10-15	30	1.5
DEKALB - DKB42-51	50.6	63.9	57.2	10-20	30	1.0
SYNGENTA - S41-M5	50.5	-	-	10-08	32	2.3
D&PL - DP4112RR/S	48.9	-	-	10-18	35	2.0
MEAN	**55.4**	**60.1**	**57.8**	**-**	**31**	**2.0**
LSD (0.20)	**4.1**	**5.7**	**-**	**-**	**2**	**0.4**
CV (%)	**7.0**	**8.9**				

Table 10. (Continued) Queenstown - Full Season, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006		
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Maturity Date**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV-S						
ASGROW - AG4703	67.3	55.6	61.4	10-18	34	2.3
TA SEEDS - TS4689R	63.8	-	-	10-19	30	1.3
USG - 7494nRR	62.0	-	-	10-18	36	3.2
S.STATES - RT4760N	61.9	-	-	10-19	35	2.0
USG - 747R6	61.8	-	-	10-20	34	3.0
FS HISOY - 472NRR	61.1	57.1	59.1	10-18	33	2.0
S.STATES - RT4808N	60.7	52.5	56.6	10-21	31	1.7
S.STATES - RT4981N	59.7	55.5	57.6	10-24	39	2.2
VIGORO - V50N6RR	59.2	-	-	10-25	37	2.3
D&PL - DP4724RR	58.6	58.1	58.4	10-18	34	2.2
VIGORO - V49N6RR	58.6	61.2	59.9	10-25	38	3.2
USG - 7489RR	58.3	58.2	58.2	10-24	35	3.0
USG - 74T85	58.2	-	-	10-21	33	2.2
CLARKS - CL49NRR	58.1	-	-	10-24	38	2.3
S.STATES - RT4777N	57.9	-	-	10-25	35	2.3
D&PL - DP4690RR	57.5	61.5	59.5	10-19	33	2.3
CLARKS - CL47NRR	57.4	-	-	10-19	34	2.3
S.STATES - RT4996N	56.3	-	-	10-26	35	3.0
D&PL - DP4919RR/S	55.7	-	-	10-23	39	2.7
SCHILLINGER - 465.RC	55.5	54.9	55.2	10-19	33	1.8
EXPERIMENTAL - MD 02-651RR	55.0	-	-	10-18	29	1.5
USG - 7475RR	49.3	-	-	10-18	30	1.7
MEAN	**58.8**	**56.6**	**57.7**	**-**	**34**	**2.3**
LSD (0.20)	**3.5**	**NS**	**-**	**-**	**2**	**0.3**
CV (%)	**5.5**	**9.1**				
MATURITY GROUP V						
S.STATES - RT5160N	60.7	-	-	-	32	1.7
EXPERIMENTAL - MD 01-206RR	59.7	59.2	59.5	-	28	1.3
USG - 56293	58.7	-	-	-	35	2.0
USG - 75J32	57.7	60.5	59.1	-	32	1.8
USG - 56124	56.9	-	-	-	37	1.8
USG - 7505nRR	56.5	54.7	55.6	-	39	2.3
VIGORO - V51N7RS	56.0	-	-	-	30	1.7
USG - 7515nRS	56.0	53.3	54.6	-	36	2.2
USG - ALLEN	55.4	-	-	-	35	1.7
USG - 56379	53.5	-	-	-	34	1.5
S.STATES - RT5130N	53.0	56.4	54.7	-	33	1.8
MEAN	**56.7**	**54.3**	**55.5**	-	**34**	**1.8**
LSD (0.20)	**NS**	**5.6**	-	-	**3**	**0.4**
CV (%)	**6.3**	**9.6**				

*Lodging Score:1=all plants erect, to 5=all plants down

Table 11. Performance of Roundup Ready soybean varieties double cropped at Queenstown.

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III					
TA SEEDS - TS3989R	43.2	-	-	24	1.0
SCHILLINGER - 396.RC	40.8	65.8	53.3	22	1.0
VIGORO - V36N5RR	38.7	62.8	50.8	23	1.5
ASGROW - AG3905	38.4	64.7	51.6	26	1.2
S.STATES - RT3851N	37.9	58.3	48.1	25	1.3
FS HISOY - HS3855	37.8	-	-	23	1.3
SYNGENTA - S36-C7	37.6	-	-	22	1.0
SYNGENTA - S33-A8	36.8	-	-	24	1.3
PIONEER - 93M96	35.7	-	-	22	1.0
S.STATES - RT3760N	35.6	-	-	27	1.7
S.STATES - RT3551N	35.6	63.4	49.5	22	1.3
TA SEEDS - TS3689R	35.1	-	-	20	1.0
ASGROW - AG3802	34.5	67.8	51.1	26	1.7
S.STATES - RT3860	34.2	-	-	21	1.0
S.STATES - RT3951N	33.5	61.2	47.3	24	1.0
FS HISOY - 395NRR	32.6	58.4	45.5	24	1.0
USG - 7393nRR	32.1	59.8	46.0	26	1.5
S.STATES - RT2800 (Group 2)	32.1	54.6	43.3	21	1.7
USG - 7384nRS	29.7	-	-	23	1.0
MEAN	**35.9**	**59.9**	**47.9**	**23**	**1.2**
LSD (0.20)	**4.0**	**3.7**	**-**	**2**	**0.3**
CV (%)	**10.4**	**5.8**			

Table 11. (Continued) Queenstown - Double Crop, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV					
VIGORO - V41N6RR	42.7	-	-	25	1.2
FS HISOY - 432NRR	42.0	62.6	52.3	26	1.5
S.STATES - RT4440N	41.7	55.6	48.6	25	1.3
VIGORO - V44N6RR	40.1	58.4	49.2	29	1.7
S.STATES - RT4151N	39.6	60.7	50.1	25	1.2
D&PL - DP4331RR	39.4	58.4	48.9	26	1.2
S.STATES - RT4551N	38.9	60.9	49.9	28	1.5
TA SEEDS - TS4599R	38.7	-	-	22	1.0
USG - 7443nRR	38.7	59.2	48.9	24	1.2
USG - 7440nRR	38.5	56.4	47.5	25	1.3
TA SEEDS - TS4389R	38.3	-	-	25	1.5
PIONEER - 94M30	38.2	58.0	48.1	23	1.0
TA SEEDS - TS4399R	38.2	58.4	48.3	26	1.3
USG - 7423nRS	37.5	54.4	46.0	22	1.0
CLARKS - CL41NRR	37.4	-	-	26	1.5
D&PL - DP4112RR/S	37.4	-	-	23	1.3
USG - 74A45	36.4	56.6	46.5	27	1.3
ASGROW - AG4404	36.2	57.2	46.7	24	1.3
CLARKS - CL45NRR	35.6	-	-	27	1.3
ASGROW - AG4103	34.8	-	-	23	1.2
S.STATES - RT4451N	34.8	60.4	47.6	28	1.5
SCHILLINGER - 426.RC	34.7	55.7	45.2	26	1.2
DEKALB - DKB42-51	33.9	62.8	48.3	24	1.3
SYNGENTA - S41-M5	33.9	-	-	25	1.3
SYNGENTA - S43-B1	31.9	54.3	43.1	23	1.2
SYNGENTA - S40-R9	31.7	49.4	40.6	26	1.3
MEAN	**37.3**	**57.8**	**47.6**	**25**	**1.3**
LSD (0.20)	**3.9**	**4.8**	**-**	**3**	**NS**
CV (%)	**9.8**	**7.8**			

Table 11. (Continued) Queenstown - Double Crop, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV-S					
S.STATES - RT4760N	43.1	-	-	27	1.3
TA SEEDS - TS4689R	42.3	-	-	24	1.3
S.STATES - RT4981N	42.2	56.1	49.1	31	2.2
SCHILLINGER - 465.RC	42.1	56.8	49.5	27	1.5
S.STATES - RT4777N	40.4	-	-	29	1.5
D&PL - DP4690RR	40.3	56.1	48.2	26	1.0
S.STATES - RT4808N	40.2	58.6	49.4	25	1.8
EXPERIMENTAL - MD 02-651RR	39.5	-	-	24	1.0
USG - 747R6	38.7	-	-	26	1.5
D&PL - DP4919RR/S	38.0	-	-	28	1.7
USG - 74T85	37.9	-	-	24	1.8
USG - 7489RR	37.4	62.2	49.8	24	1.3
VIGORO - V50N6RR	37.2	-	-	28	1.7
FS HISOY - 472NRR	36.7	60.2	48.5	23	1.2
USG - 7494nRR	36.6	-	-	25	1.2
VIGORO - V49N6RR	36.1	60.8	48.5	26	1.2
D&PL - DP4724RR	35.8	55.6	45.7	25	1.2
S.STATES - RT4996N	34.8	-	-	29	1.7
ASGROW - AG4703	34.1	64.1	49.1	23	1.3
CLARKS - CL49NRR	34.1	-	-	28	1.8
CLARKS - CL47NRR	34.0	-	-	27	1.3
USG - 7475RR	33.2	-	-	23	1.2
MEAN	**37.9**	**59.2**	**48.6**	**26**	**1.4**
LSD (0.20)	**3.0**	**4.5**	**-**	**2**	**0.3**
CV (%)	**7.4**	**7.1**			
MATURITY GROUP V					
USG - 75J32	34.8	52.5	43.7	29	1.8
VIGORO - V51N7RS	34.3	-	-	26	1.3
EXPERIMENTAL - MD 01-206RR	33.7	56.3	45.0	26	1.2
USG - 7515nRS	32.8	53.4	43.1	25	1.7
USG - 7505nRR	32.2	59.5	45.9	29	1.5
S.STATES - RT5160N	32.0	-	-	30	2.3
S.STATES - RT5130N	31.4	49.0	40.2	29	1.8
USG - ALLEN	28.4	-	-	28	1.7
USG - 56124	27.7	-	-	29	2.0
USG - 56293	27.2	-	-	29	1.7
USG - 56379	27.0	-	-	31	1.7
MEAN	**31.1**	**52.9**	**42.0**	**28**	**1.7**
LSD (0.20)	**2.4**	**3.2**	**-**	**3**	**0.4**
CV (%)	**7.2**	**5.7**			

*Lodging Score:1=all plants erect, to 5=all plants down

Table 12. Performance of Roundup Ready soybean varieties planted full season at Quantico.

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III					
TA SEEDS - TS3989R	60.2	-	-	40	3.2
ASGROW - AG3905	56.9	61.4	59.2	41	2.2
SYNGENTA - S33-A8	55.7	-	-	41	4.0
PIONEER - 93M96	55.1	-	-	38	2.8
ASGROW - AG3802	53.1	60.0	56.6	44	2.5
S.STATES - RT3860	52.3	-	-	39	3.2
VIGORO - V36N5RR	51.9	64.9	58.4	40	2.5
FS HISOY - HS3855	51.1	-	-	37	2.7
USG - 7393nRR	50.4	60.8	55.6	39	3.2
SYNGENTA - S36-C7	50.1	-	-	36	3.2
S.STATES - RT3551N	50.0	62.5	56.2	37	3.7
FS HISOY - 395NRR	49.3	61.4	55.4	36	1.8
S.STATES - RT3951N	48.9	64.1	56.5	42	3.3
USG - 7384nRS	48.7	-	-	34	2.2
SCHILLINGER - 396.RC	48.4	63.3	55.9	39	3.2
TA SEEDS - TS3689R	47.5	-	-	34	2.7
S.STATES - RT3760N	46.4	-	-	40	3.5
S.STATES - RT3851N	39.8	58.8	49.3	39	4.8
S.STATES - RT2800 (Group 2)	35.7	61.0	48.4	38	3.3
MEAN	**50.1**	**60.9**	**55.5**	**39**	**3.0**
LSD (0.20)	**6.1**	**3.6**	**-**	**2**	**0.3**
CV (%)	**11.4**	**5.5**			

Table 12. (Continued) Quantico - Full Season, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV					
TA SEEDS - TS4599R	60.7	-	-	38	2.8
SYNGENTA - S40-R9	59.6	53.2	56.4	45	3.5
TA SEEDS - TS4399R	59.6	58.8	59.2	45	3.7
ASGROW - AG4404	58.9	60.4	59.7	41	3.2
VIGORO - V44N6RR	58.1	61.7	59.9	46	3.5
TA SEEDS - TS4389R	57.9	-	-	40	4.0
S.STATES - RT4151N	57.2	58.6	57.9	39	3.8
VIGORO - V41N6RR	56.8	-	-	41	3.8
FS HISOY - 432NRR	56.5	59.5	58.0	40	3.5
CLARKS - CL41NRR	56.4	-	-	38	3.8
S.STATES - RT4440N	56.3	60.9	58.6	42	3.7
S.STATES - RT4451N	56.2	61.0	58.6	42	3.7
SYNGENTA - S41-M5	56.0	-	-	43	3.5
USG - 74A45	55.8	59.1	57.5	43	3.8
DEKALB - DKB42-51	55.6	65.3	60.5	43	3.0
ASGROW - AG4103	55.5	-	-	41	3.3
S.STATES - RT4551N	55.1	60.7	57.9	43	4.0
SYNGENTA - S43-B1	54.7	62.5	58.6	41	3.5
CLARKS - CL45NRR	54.4	-	-	46	3.2
USG - 7440nRR	53.2	58.1	55.7	42	3.7
USG - 7423nRS	53.2	61.0	57.1	35	3.3
D&PL - DP4331RR	52.9	62.3	57.6	41	3.5
D&PL - DP4112RR/S	52.3	-	-	44	3.7
PIONEER - 94M30	51.3	63.3	57.3	38	3.7
SCHILLINGER - 426.RC	50.1	58.7	54.4	39	3.3
USG - 7443nRR	49.1	60.7	54.9	40	4.0
MEAN	**55.5**	**59.8**	**57.7**	**41**	**3.6**
LSD (0.20)	**3.8**	**2.7**	**-**	**3**	**0.3**
CV (%)	**6.4**	**4.3**			

Table 12. (Continued) Quantico - Full Season, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV-S					
S.STATES - RT4996N	68.4	-	-	41	3.5
S.STATES - RT4981N	68.2	45.9	57.0	41	3.5
TA SEEDS - TS4689R	67.6	-	-	37	2.5
ASGROW - AG4703	66.0	57.3	61.6	39	3.7
S.STATES - RT4777N	64.7	-	-	40	3.5
USG - 7489RR	64.0	48.5	56.3	43	4.0
S.STATES - RT4808N	63.7	53.2	58.5	40	3.5
S.STATES - RT4760N	63.4	-	-	45	3.3
SCHILLINGER - 465.RC	63.2	53.3	58.3	41	3.8
CLARKS - CL49NRR	63.0	-	-	44	3.5
USG - 74T85	61.7	-	-	40	3.7
VIGORO - V49N6RR	60.2	55.9	58.1	47	3.7
D&PL - DP4919RR/S	59.2	-	-	47	3.5
USG - 747R6	58.7	-	-	41	3.7
CLARKS - CL47NRR	58.1	-	-	43	3.5
USG - 7494nRR	56.0	-	-	40	3.7
VIGORO - V50N6RR	55.9	-	-	47	4.0
D&PL - DP4690RR	55.2	50.5	52.8	38	3.5
D&PL - DP4724RR	53.7	51.1	52.4	39	3.2
USG - 7475RR	52.6	-	-	38	3.5
FS HISOY - 472NRR	52.1	54.0	53.0	39	3.0
EXPERIMENTAL - MD 02-651RR	47.0	-	-	37	3.3
MEAN	**60.1**	**51.4**	**55.8**	**41**	**3.5**
LSD (0.20)	**6.0**	**3.5**	**-**	**3**	**0.4**
CV (%)	**9.4**	**6.5**			
MATURITY GROUP V					
USG - ALLEN	69.8	-	-	42	3.3
USG - 56379	69.7	-	-	41	3.3
USG - 56124	68.9	-	-	43	3.5
USG - 56293	67.2	-	-	43	3.5
USG - 7515nRS	67.1	49.1	58.1	40	4.0
S.STATES - RT5130N	66.9	41.3	54.1	43	3.2
EXPERIMENTAL - MD 01-206RR	61.7	48.2	55.0	37	3.2
USG - 7505nRR	60.6	54.4	57.5	43	3.8
USG - 75J32	60.2	49.6	54.9	40	3.7
S.STATES - RT5160N	60.1	-	-	40	3.8
VIGORO - V51N7RS	60.0	-	-	39	3.3
MEAN	**64.8**	**44.3**	**54.6**	**41**	**3.5**
LSD (0.20)	**5.4**	**7.2**	**-**	**3**	**NS**
CV (%)	**7.6**	**15.0**			

*Lodging Score:1=all plants erect, to 5=all plants down

Table 13. Performance of Roundup Ready soybean varieties double cropped at Quantico.

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP III					
S.STATES - RT3860	65.3	-	-	30	1.3
FS HISOY - HS3855	61.9	-	-	29	1.8
FS HISOY - 395NRR	60.8	55.0	57.9	27	1.0
SYNGENTA - S36-C7	60.7	-	-	25	1.0
USG - 7393nRR	60.5	62.9	61.7	31	2.0
TA SEEDS - TS3689R	60.4	-	-	27	1.0
S.STATES - RT3951N	60.3	57.6	58.9	34	2.0
USG - 7384nRS	60.0	-	-	26	1.0
ASGROW - AG3905	59.7	59.7	59.7	30	1.3
SCHILLINGER - 396.RC	59.3	58.2	58.8	29	1.5
ASGROW - AG3802	59.2	60.0	59.6	31	1.3
S.STATES - RT3760N	58.4	-	-	33	2.0
PIONEER - 93M96	57.8	-	-	29	1.2
SYNGENTA - S33-A8	57.4	-	-	30	1.8
VIGORO - V36N5RR	56.5	54.6	55.5	32	1.8
TA SEEDS - TS3989R	55.4	-	-	30	1.5
S.STATES - RT3851N	52.5	54.4	53.5	29	1.7
S.STATES - RT2800 (Group 2)	50.7	52.7	51.7	29	1.7
S.STATES - RT3551N	50.1	56.0	53.0	28	1.5
MEAN	**58.3**	**55.0**	**56.7**	**29**	**1.5**
LSD (0.20)	**3.8**	**3.8**	**-**	**2**	**0.4**
CV (%)	**6.2**	**6.5**			

Table 13. (Continued) Quantico - Double Crop, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV					
CLARKS - CL45NRR	63.0	-	-	33	1.8
S.STATES - RT4151N	62.7	57.2	60.0	29	1.8
CLARKS - CL41NRR	62.2	-	-	29	1.2
USG - 7440nRR	59.4	51.8	55.6	29	1.3
S.STATES - RT4551N	59.3	54.9	57.1	34	1.5
S.STATES - RT4451N	59.2	54.6	56.9	34	2.0
VIGORO - V41N6RR	59.0	-	-	30	1.5
SYNGENTA - S40-R9	58.7	54.4	56.6	34	2.2
ASGROW - AG4404	58.5	49.7	54.1	30	1.7
FS HISOY - 432NRR	58.5	56.1	57.3	28	1.2
TA SEEDS - TS4599R	57.8	-	-	28	1.0
D&PL - DP4331RR	57.1	49.6	53.3	27	1.7
USG - 7423nRS	56.7	59.0	57.9	28	1.2
SCHILLINGER - 426.RC	56.3	53.5	54.9	31	1.5
TA SEEDS - TS4399R	56.3	51.7	54.0	29	1.8
PIONEER - 94M30	56.0	51.1	53.6	28	1.8
USG - 7443nRR	56.0	51.9	53.9	29	1.5
S.STATES - RT4440N	56.0	52.8	54.4	30	1.3
SYNGENTA - S41-M5	55.9	-	-	30	1.7
VIGORO - V44N6RR	55.4	54.6	55.0	32	2.0
TA SEEDS - TS4389R	55.4	-	-	30	1.8
DEKALB - DKB42-51	55.0	54.1	54.6	27	1.0
USG - 74A45	53.4	51.1	52.2	36	2.0
SYNGENTA - S43-B1	53.1	55.6	54.4	27	1.0
ASGROW - AG4103	52.5	-	-	29	1.2
D&PL - DP4112RR/S	49.7	-	-	32	1.7
MEAN	**57.0**	**53.2**	**55.1**	**30**	**1.6**
LSD (0.20)	**2.9**	**NS**	**-**	**2**	**0.5**
CV (%)	**4.9**	**8.3**			

Table 13. (Continued) Quantico - Double Crop, Roundup Ready Soybean Varieties

	Seed Yield, Bu/A			2006	
BRAND - ENTRY	**2006**	**2005**	**2-Year**	**Height, Inches**	**Lodging Score***
MATURITY GROUP IV-S					
S.STATES - RT4808N	65.6	54.6	60.1	34	2.7
ASGROW - AG4703	62.4	52.9	57.6	33	2.2
S.STATES - RT4760N	62.0	-	-	34	2.8
S.STATES - RT4777N	61.6	-	-	36	3.0
USG - 7475RR	61.1	-	-	33	2.2
TA SEEDS - TS4689R	61.1	-	-	29	1.2
VIGORO - V49N6RR	59.8	54.5	57.1	35	3.5
CLARKS - CL49NRR	59.6	-	-	36	2.7
S.STATES - RT4996N	59.3	-	-	35	3.0
USG - 74T85	59.1	-	-	33	3.3
USG - 7494nRR	58.9	-	-	35	3.5
CLARKS - CL47NRR	58.5	-	-	34	3.2
FS HISOY - 472NRR	58.3	48.3	53.3	32	2.7
USG - 7489RR	57.9	52.6	55.3	36	3.5
D&PL - DP4690RR	57.5	48.9	53.2	32	3.0
EXPERIMENTAL - MD 02-651RR	57.5	-	-	32	2.7
D&PL - DP4724RR	57.4	52.4	54.9	33	2.8
USG - 747R6	57.2	-	-	35	3.3
VIGORO - V50N6RR	56.9	-	-	36	2.8
SCHILLINGER - 465.RC	56.2	53.2	54.7	37	3.0
S.STATES - RT4981N	55.2	49.0	52.1	39	2.8
D&PL - DP4919RR/S	53.0	-	-	37	3.2
MEAN	**58.9**	**51.5**	**55.2**	**34**	**2.9**
LSD (0.20)	**3.9**	**3.8**	**-**	**3**	**0.4**
CV (%)	**6.2**	**7.0**			
MATURITY GROUP V					
USG - 56293	62.6	-	-	41	3.0
USG - 7515nRS	60.2	46.9	53.5	38	3.0
VIGORO - V51N7RS	56.5	-	-	41	3.2
USG - 7505nRR	56.2	54.3	55.3	38	3.5
USG - ALLEN	56.1	-	-	44	3.2
S.STATES - RT5160N	54.9	-	-	39	3.0
EXPERIMENTAL - MD 01-206RR	54.5	48.9	51.7	34	2.3
S.STATES - RT5130N	53.1	33.7	43.4	41	2.8
USG - 56124	52.0	-	-	44	3.2
USG - 56379	51.2	-	-	42	3.0
USG - 75J32	50.4	47.3	48.9	39	2.7
MEAN	**55.2**	**47.5**	**51.4**	**40**	**3.0**
LSD (0.20)	**4.1**	**NS**	**-**	**2**	**0.3**
CV (%)	**6.8**	**16.7**			

*Lodging Score:1=all plants erect, to 5=all plants down

Table 14. Relative yields of Roundup Ready soybean varieties compared to the mean of all varieties in that maturity group at each location in 2006.

BRAND - ENTRY	Keedys-ville	Clarks-ville	Queenstown FS	Queenstown DC	Quantico FS	Quantico DC
MATURITY GROUP III		**Relative Yield, % of Mean**				
ASGROW - AG3802	92	93	103*	96	106	101
ASGROW - AG3905	110*	101	103*	107	114*	102
FS HISOY - HS3855	110*	98	108*	105	102	106*
FS HISOY - 395NRR	98	104	106*	91	98	104
PIONEER - 93M96	99	118*	103*	100	110*	99
SCHILLINGER - 396.RC	98	105	92	114*	97	102
S.STATES - RT2800 (Group 2)	80	81	80	89	71	87
S.STATES - RT3551N	92	96	91	99	100	86
S.STATES - RT3760N	95	107	94	99	93	100
S.STATES - RT3851N	89	101	99	106	80	90
S.STATES - RT3860	114*	102	108*	95	104	112*
S.STATES - RT3951N	105*	101	96	93	98	103
SYNGENTA - S33-A8	97	98	103*	102	111*	98
SYNGENTA - S36-C7	107*	103	106*	105	100	104
TA SEEDS - TS3689R	109*	88	103*	98	95	104
TA SEEDS - TS3989R	106*	116*	101	120*	120*	95
USG - 7384nRS	96	97	103*	83	97	103
USG - 7393nRR	97	92	100	89	101	104
VIGORO - V36N5RR	107*	98	100	108	104	97
Location/Group Mean Yield	**58.7**	**51.0**	**54.9**	**35.9**	**50.1**	**58.3**

Table 14. (Continued) Relative Yields - Roundup Ready Soybean Varieties

BRAND - ENTRY	Keedys-ville	Clarks-ville	Queenstown FS	Queenstown DC	Quantico FS	Quantico DC
MATURITY GROUP IV		**Relative Yield, % of Mean**				
ASGROW - AG4103	98	101	101	93	100	92
ASGROW - AG4404	100	110*	112*	97	106*	103
CLARKS - CL41NRR	98	96	95	100	102	109*
CLARKS - CL45NRR	101	105*	104	95	98	111*
DEKALB - DKB42-51	97	96	91	91	100	97
D&PL - DP4112RR/S	88	103*	88	100	94	87
D&PL - DP4331RR	100	97	96	106*	95	100
FS HISOY - 432NRR	99	96	103	113*	102	103
PIONEER - 94M30	98	111*	97	103	92	98
SCHILLINGER - 426.RC	97	97	96	93	90	99
S.STATES - RT4151N	90	112*	104	106*	103*	110*
S.STATES - RT4440N	104	92	103	112*	101	98
S.STATES - RT4451N	108*	111*	105*	93	101	104
S.STATES - RT4551N	94	108*	102	104*	99	104
SYNGENTA - S40-R9	94	93	98	85	107*	103
SYNGENTA - S41-M5	111*	91	91	91	101	98
SYNGENTA - S43-B1	104	98	94	85	99	93
TA SEEDS - TS4389R	106*	98	104	103	104*	97
TA SEEDS - TS4399R	94	98	102	102	107*	99
TA SEEDS - TS4599R	95	98	99	104	109*	101
USG - 7423nRS	105*	87	105*	101	96	100
USG - 7440nRR	100	99	94	103	96	104
USG - 7443nRR	94	94	102	104	89	98
USG - 74A45	101	92	107*	98	101	94
VIGORO - V41N6RR	110*	107*	104	114*	102	104
VIGORO - V44N6RR	114*	108*	106*	107*	105*	97
Location/Group Mean Yield	**59.8**	**47.6**	**55.4**	**37.3**	**55.5**	**57.0**

Table 14. (Continued) Relative Yields - Roundup Ready Soybean Varieties

BRAND - ENTRY	Keedys-ville	Clarks-ville	Queenstown FS	Queenstown DC	Quantico FS	Quantico DC
MATURITY GROUP IV-S			**Relative Yield, % of Mean**			
ASGROW - AG4703	96	103	114*	90	110*	106*
CLARKS - CL47NRR	98	100	98	90	97	99
CLARKS - CL49NRR	101	100	99	90	105*	101
D&PL - DP4690RR	100	93	98	106*	92	98
D&PL - DP4724RR	98	101	100	95	89	97
D&PL - DP4919RR/S	96	94	95	100	99	90
FS HISOY - 472NRR	86	99	104	97	87	99
EXPERIMENTAL - MD 02-651RR	110*	101	94	104	78	98
SCHILLINGER - 465.RC	93	99	94	111*	105*	95
S.STATES - RT4760N	106*	108*	105	114*	105*	105*
S.STATES - RT4777N	109*	97	98	107*	108*	105
S.STATES - RT4808N	106*	102	103	106*	106*	111*
S.STATES - RT4981N	93	97	102	111*	113*	94
S.STATES - RT4996N	99	103	96	92	114*	101
TA SEEDS - TS4689R	107*	103	108	112*	112*	104
USG - 74T85	101	99	99	100	103	100
USG - 747R6	99	107*	105	102	98	97
USG - 7475RR	104*	94	84	88	87	104
USG - 7489RR	100	95	99	99	107*	98
USG - 7494nRR	99	110*	105	96	93	100
VIGORO - V49N6RR	101	98	100	95	100	101
VIGORO - V50N6RR	97	98	101	98	93	97
Location/Group Mean Yield	**61.6**	**57.6**	**58.8**	**37.9**	**60.1**	**58.9**
MATURITY GROUP V						
EXPERIMENTAL - MD 01-206RR	-	-	105	108*	95	99
S.STATES - RT5130N	-	-	93	101	103*	96
S.STATES - RT5160N	-	-	107*	103	93	99
USG - ALLEN	-	-	98	91	108*	102
USG - 75J32	-	-	102	112*	93	91
USG - 7505nRR	-	-	100	104	94	102
USG - 7515nRS	-	-	99	105*	104*	109*
USG - 56124	-	-	100	89	106*	94
USG - 56293	-	-	104	87	104*	113*
USG - 56379	-	-	94	87	108*	93
VIGORO - V51N7RS	-	-	99	110*	93	102
Location/Group Mean Yield	-	-	**56.7ns**	**31.1**	**64.8**	**55.2**

FS=Full Season, DC=Double Crop, ns=No significant differences in yield among entries.
*Yield is not significantly different from the highest yielding entry in this maturity group at this location.

Actual variety yield can be obtained by converting the relative yield to a decimal percentage and multiplying this value by the location/group mean yield. A variety with a relative yield that is consistently greater than 100 is a variety that consistently yields higher than the mean yield of all of those varieties in that maturity group.