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UNIVERSITY OF MARYLAND
COLLEGE PARK•EASTERN SHORE

Information

DEPARTMENT OF NATURAL RESOURCE SCIENCES & LANDSCAPE ARCHITECTURE
COLLEGE PARK, MD 20742 – (301) 405-1321

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2005 MARYLAND SOYBEAN VARIETY TESTS

Maryland soybean variety tests are conducted each year by the Maryland Agricultural Experiment Station, Department of Natural Resource Sciences 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 2005 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. The new public variety Monocacy (MD 96-5722) from Maryland and experimental lines from Maryland (MD 96-5275, MD 97-6491, MD 99-0687-3RR, MD 99-1098-2RR, MD 99-5144, MD 99-6226, MD 00-5020, MD 00-5024, MD 00-5326, MD 00-6015, MD 01-063RR, MD 01-206RR, MD 01-329RR, MD 01-5866, MD 01-6106, MD 03-5458, MD 03-5648, MD 0304WN37, MD 0304WN59, and MD 0304WN79), Tennessee (TN 05-547RR and TN 05-548RR), and Virginia (V 98-2711) were included in the 2005 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 number of seeds per pound was determined from 100-seed weights made on each plot. The appearance of the seed from each plot was given a score from 1 (best) to 5 (worst) based on the amount of wrinkled or cracked seed coats present.

The 2005 growing season was one of extremes across the state. Temperatures were generally at or above normal throughout the summer. Rainfall was adequate in most areas of the state in May and June. Unusually high rainfall amounts in July were followed by extremely dry conditions in late August through September. Very high rainfall amounts in October saved much of the state's soybean crop except for those acres planted in the lighter, sandier soils, which suffered substantial yield reduction due to the drought. Monthly rainfall amounts for May through October for the test locations are shown in Table 3.

Results of the 2005 tests are reported in Tables 4-7 for the standard varieties and in Tables 10-14 for the Roundup Ready varieties. In each of these tables, varieties within maturity groups are listed in order of yield, highest to lowest. The Roundup Ready tests at Clarksville were lost due to poor seedling emergence caused by soil crusting that resulted from a severe storm that occurred on the date of planting. The highest overall test location mean yields were at Quantico for the standard varieties and Queenstown 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 8 and 15 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 8 and 15, 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 test are shown in Tables 9 and 16, respectively. 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.

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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.nrsl.umd.edu/extension/crops/

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Table 1. Suppliers of private entries tested in 2005.

COMPANY	BRAND	HERBICIDE REACTION	ENTRY
Clark Seeds, Inc. Kenton, DE 19955	CLARKS	Roundup Ready Standard	CL48 RR, CL54 RR CL41 STS
Delta & Pine Land Co. Piedmont, AL 36272	D&PL	Roundup Ready	DP 4331RR, DP 4690RR, DP 4724RR
Garst Seed Danville, IN 46122	GARST	Roundup Ready	3624RR/N, 3712RR/N, 3960RR/N
Growmark FS Milford, DE 19963	HISOY SCHILLINGER	Roundup Ready "	XP2538,395NRR,432NRR,HS4228,472NRR 396.RC, 426.RC, 465.RC, 495.RC
Monsanto St. Louis, MO 63167	ASGROW DEKALB	Roundup Ready " "	AG 3802, AG 3905, AG 4201, AG 4404, AG 4503, AG 4703, AG 4801, AG 4903 DKB42-51
NK Brand Seeds Lititz, PA 17543	NK	Roundup Ready	S37-N4, S40-R9, S43-B1
Pioneer, A DuPont Co. Mount Joy, PA 17552	PIONEER	Roundup Ready	94M30
Royster-Clark, Inc. Washington C.H., OH 43160	VIGORO	Roundup Ready " Standard	V36N5RR, EX831064, V39N4RR,V44N6RR, V48N5RR, V49N6RR, V51N6RR V385 SCN, V435 SCN
Schillinger Seeds Queenstown, MD 21658	SCHILLINGER	Standard	394.T, 435.TCS
Southern States Cooperative, Inc. Richmond, VA 23260	S.STATES	Roundup Ready " " "	RT 2800, RT 3251N, RT 3551N, RT 3802N, RT 3851N, RT 3951N, RT 4151N, RT4230N, RT 4440N, RT 4451N, RT 4502N, RT4551N, RT 4651N, RT 4808N, RT 4981N, RT 5130N
T.A. Seeds Avis, PA 17721	TA SEEDS	Roundup Ready	TS 3659R, TS 3999R, TS 4399R, TS 4659R
UniSouth Genetics, Inc. Nashville, TN 37211	USG	Roundup Ready " " " Standard	7393nRR, 7415nRR, 7423nRS, 7440nRR, 7443nRR, 7455nRR, 7482nRR, 7484nRR, 7489RR, 7499nRR, 7504nRR, 7505nRR, 510nRR, 7515nRR 444nSTS, 5002T, 5601T

Table 2. The 2005 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 9
Row Spacing:	24 inches
Soil Type:	Hagerstown silt loam
Soil Test:	pH 6.5, P Level- High, K level- Good
Previous Crop:	Corn
Fertilizer:	None
Lime:	None
Herbicide:	1 Qt/A Credit Extra on June 8 and also on July 13
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:	Standard Varieties Maturity Groups III, IV, and IV-S
Planting Date:	June 9
Row Spacing:	24 inches
Soil Type:	Delanco silt loam
Soil Test:	pH 6.5, P level- Good, K level- Good
Previous Crop:	Corn
Fertilizer:	None
Lime:	None
Herbicide:	Post emergence:1.5 Pt/A Basagran, 1.5 Pt/A Poast, 1 Qt Crop Oil
Plots:	4 rows, 20 feet long
Seeding Rate:	6.5 seeds/foot
Tillage:	Conventional

Tests:	Roundup Ready Maturity Groups III, IV, and IV-S Tests were abandoned 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 10
Row Spacing:	24 inches
Soil Type:	Matapeake silt loam
Soil Test:	pH 6.0, P Index- Excessive, K Index- Optimum
Previous Crop:	Corn
Fertilizer:	None
Lime:	None
Herbicide:	Preemergence:1.5 Pt/A Dual II Magnum, 0.8 Lb/A Lorox DF, 1.5 Oz/A Classic
	Post emergence:1.5 Pt/A Basagran, 1.5 Pt/A Blazer, 2 Pt/100 gal NIS
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 2
Row Spacing:	24 inches
Soil Type:	Matapeake silt loam
Soil Test:	pH 6.5, P Index- Excessive, K Index- Optimum
Previous Crop:	Corn
Fertilizer:	None
Lime:	None
Herbicide:	1.5 Qt/A Gly Star Plus on July 12
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 12
Row Spacing:	7.5 inches
Soil Type:	Matapeake silt loam
Soil Test:	pH 6.5, P Index- Excessive, K Index- Optimum
Previous Crop:	Wheat
Fertilizer:	None
Lime:	None
Herbicide:	Pre-plant: 1.5 Qt/A Gly Star Plus
	Post emergence: 1.5 Qt/A Clearout on August 12
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 1
Row Spacing:	24 inches
Soil Type:	Mattapex silt loam
Soil Test:	pH 6.2, P Index- Optimum, K Index- High
Previous Crop:	Corn
Fertilizer:	250 lbs/A of 0-16-36
Lime:	1 Ton/A
Herbicide:	Preemergence:1.5 Pt/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 31
Row Spacing:	20 inches
Soil Type:	Mattapex silt loam
Soil Test:	pH 6.3, P Index- Optimum, 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 emergence: 1 Qt/A Roundup Ultra Max @ June 30
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 24
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
Plots:	5 rows, 20 feet long
Seeding Rate:	6 seeds/foot
Tillage:	None

Table 2. (Continued) Plot information

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

Tests:	Double Crop Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V
Planting Date:	June 24
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 emergence: 1 Qt/A Roundup Ultra Max @ July 25
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	1.86	1.06	5.53	2.24	0.13	6.96	17.78
Clarksville	3.22	4.85	8.90	2.79	0.67	12.01	32.44
Queenstown	4.94	2.41	5.06	5.05	1.68	6.76	25.90
Quantico	4.94	3.84	5.01	1.86	0.39	6.62	22.66

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

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
EXPERIMENTAL - MD 03-5458	58.6	10-02	3.5	39	2.5	2729
PUBLIC - MACON	53.5	09-28	2.2	37	1.8	3191
SCHILLINGER - 394.T	52.6	10-01	1.8	37	1.7	3309
PUBLIC - GENERAL	51.6	09-28	2.2	33	1.7	3102
PUBLIC - IA 3023	51.6	09-23	1.8	32	1.7	3351
VIGORO - V385 SCN	50.7	10-03	3.0	42	2.0	2913
PUBLIC - IA 3017	50.6	09-23	1.7	33	2.3	3395
Mean	**52.7**	**-**	**2.3**	**36**	**2.0**	**3141**
LSD (0.20)	**NS**	**-**	**0.9**	**3**	**0.4**	**262**
CV (%)	**13.1**					
MATURITY GROUP IV						
SCHILLINGER - 435.TCS	69.0	10-04	2.0	36	1.5	3298
VIGORO - V435 SCN	68.5	10-06	1.7	37	1.0	3170
USG - 444nSTS	62.2	10-05	2.3	39	1.0	3324
PUBLIC - MONOCACY	60.7	10-04	2.3	39	2.3	3184
PUBLIC - CORSICA	56.8	09-29	2.2	36	2.0	3323
EXPERIMENTAL - MD 99-5144	55.7	10-03	3.2	39	1.3	3494
PUBLIC - HS 93-4118	55.1	09-29	2.3	36	2.0	3725
PUBLIC - STRESSLAND	52.8	10-04	2.8	43	1.8	3769
PUBLIC - LN 97-15076	52.6	10-04	2.3	41	2.0	3442
CLARKS - CL41 STS	52.4	10-04	2.5	38	1.5	3077
EXPERIMENTAL - MD 03-5648	44.2	10-03	2.3	37	1.7	3252
Mean	**57.3**	**-**	**2.4**	**38**	**1.7**	**3369**
LSD (0.20)	**8.3**	**-**	**0.6**	**2**	**0.2**	**283**
CV (%)	**13.4**					
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 97-6491	53.1	10-08	2.2	43	1.3	3202
EXPERIMENTAL - MD 01-5866	48.3	10-13	2.2	34	1.7	3595
EXPERIMENTAL - MD 00-5326	48.0	10-15	3.0	41	1.7	3726
PUBLIC - MD 4900	45.6	10-13	2.2	29	1.7	4183
EXPERIMENTAL - MD 96-5275	44.8	10-13	2.3	34	1.3	4268
PUBLIC - KS 4602N	43.1	10-07	2.7	39	1.5	3358
EXPERIMENTAL - MD 0304WN79	43.1	10-07	2.0	36	2.0	3472
PUBLIC - MANOKIN	41.6	10-16	3.7	35	1.7	4216
EXPERIMENTAL - MD 00-5020	41.2	10-13	2.3	33	1.5	4204
EXPERIMENTAL - MD 00-5024	40.9	10-13	2.3	42	1.8	3768
EXPERIMENTAL - MD 0304WN59	37.8	10-13	2.5	30	2.0	3870
Mean	**44.3**	**-**	**2.5**	**36**	**1.7**	**3806**
LSD (0.20)	**NS**	**-**	**0.6**	**2**	**0.3**	**291**
CV (%)	**16.9**					

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

*Seed Quality Score:1=excellent (no moldy,cracked, or wrinkled seeds), to 5=poor

Table 5. Performance of standard soybean varieties planted at Queenstown.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
SCHILLINGER - 394.T	53.2	10-01	1.2	33	1.2	3557
VIGORO - V385 SCN	53.0	10-02	1.5	35	1.0	3654
PUBLIC - IA 3023	49.0	09-25	1.5	28	1.3	4091
PUBLIC - MACON	46.1	10-01	1.5	33	1.5	3602
PUBLIC - IA 3017	45.2	09-23	1.0	27	1.5	3672
PUBLIC - GENERAL	43.7	09-28	1.0	29	1.0	3733
EXPERIMENTAL - MD 03-5458	39.5	09-26	1.7	33	1.5	3459
Mean	**47.1**	**-**	**1.3**	**31**	**1.3**	**3681**
LSD (0.20)	**5.0**	**-**	**0.3**	**2**	**0.2**	**270**
CV (%)	**9.6**					
MATURITY GROUP IV						
VIGORO - V435 SCN	65.1	10-06	2.7	36	2.0	3444
PUBLIC - LN 97-15076	60.1	10-04	3.0	37	2.0	3202
SCHILLINGER - 435.TCS	58.9	10-06	2.7	35	1.5	3380
USG - 444nSTS	57.8	10-06	3.0	37	1.5	3457
CLARKS - CL41 STS	57.0	10-02	3.2	34	2.7	3233
PUBLIC - MONOCACY	55.4	10-02	3.0	41	2.8	3207
PUBLIC - HS 93-4118	54.9	09-30	3.0	37	2.8	3595
PUBLIC - STRESSLAND	52.5	10-05	3.7	39	2.8	3889
EXPERIMENTAL - MD 99-5144	51.7	10-05	3.7	35	3.0	3488
PUBLIC - CORSICA	51.0	09-28	3.2	35	2.8	3439
EXPERIMENTAL - MD 03-5648	47.4	10-06	3.4	41	2.3	2573
Mean	**55.6**	**-**	**3.1**	**37**	**2.4**	**3355**
LSD (0.20)	**5.2**	**-**	**0.4**	**2**	**0.3**	**128**
CV (%)	**8.6**					
MATURITY GROUP IV-S						
PUBLIC - MD 4900	56.6	10-18	2.5	30	3.3	3265
EXPERIMENTAL - MD 00-5326	56.1	10-18	2.7	42	2.5	3217
EXPERIMENTAL - MD 01-5866	55.5	10-16	2.3	33	2.5	3264
EXPERIMENTAL - MD 00-5020	54.8	10-16	3.2	33	2.3	3672
PUBLIC - KS 4602N	54.2	10-07	2.8	38	1.7	3101
EXPERIMENTAL - MD 96-5275	53.6	10-17	2.5	34	2.2	3526
EXPERIMENTAL - MD 97-6491	53.5	10-06	2.3	40	1.8	3072
EXPERIMENTAL - MD 00-5024	52.5	10-18	3.0	47	3.8	3173
PUBLIC - MANOKIN	51.7	10-17	3.9	35	3.8	3610
EXPERIMENTAL - MD 0304WN79	51.5	10-06	2.3	33	2.5	3180
EXPERIMENTAL - MD 0304WN59	36.1	10-09	3.8	29	2.5	3537
Mean	**52.4**	**-**	**2.9**	**36**	**2.6**	**3329**
LSD (0.20)	**3.7**	**-**	**0.4**	**2**	**0.3**	**98**
CV (%)	**6.5**					

Table 5. (Continued) Queenstown - Standard Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP V						
PUBLIC - TEEJAY	57.1	10-24	2.3	35	1.7	3133
EXPERIMENTAL - V98-2711	55.6	10-24	3.0	28	2.5	3823
PUBLIC - HUTCHESON	55.6	10-28	2.8	33	1.7	3133
EXPERIMENTAL - MD 99-6226	55.5	10-24	2.2	30	2.0	3411
USG - 5601T	54.3	10-28	3.2	35	1.8	3524
USG - 5002T	53.2	10-22	3.2	29	3.0	3272
PUBLIC - HOLLADAY	52.9	10-17	2.8	27	2.5	3641
EXPERIMENTAL - MD 00-6015	51.2	10-17	2.3	26	2.5	3339
EXPERIMENTAL - MD 01-6106	49.6	10-27	2.9	35	1.5	3812
PUBLIC - KS 5502N	49.1	10-28	3.2	34	1.0	4039
PUBLIC - OZARK	48.3	10-27	3.2	34	1.7	3312
PUBLIC - ESSEX	39.3	10-17	3.8	28	1.7	3789
EXPERIMENTAL - MD 0304WN37	31.5	10-16	3.0	24	3.7	3554
Mean	**50.3**	**-**	**2.9**	**31**	**2.1**	**3522**
LSD (0.20)	**4.7**	**-**	**0.6**	**2**	**0.3**	**152**
CV (%)	**8.8**					

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

*Seed Quality Score:1=excellent (no moldy,cracked, or wrinkled seeds), to 5=poor

Table 6. Performance of standard soybean varieties planted full season at Quantico.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
SCHILLINGER - 394.T	55.4	09-27	1.0	28	1.0	3322
VIGORO - V385 SCN	53.7	09-27	1.2	29	1.5	3411
PUBLIC - GENERAL	53.3	09-25	1.0	27	1.5	3273
PUBLIC - IA 3017	47.5	09-20	1.0	25	2.0	3167
EXPERIMENTAL - MD 03-5458	46.9	09-24	1.5	28	2.0	2908
PUBLIC - MACON	46.6	09-27	1.0	26	1.5	3233
PUBLIC - IA 3023	46.3	09-23	1.0	24	1.7	3586
Mean	**49.9**	**-**	**1.1**	**27**	**1.6**	**3271**
LSD (0.20)	**2.6**	**-**	**0.1**	**3**	**0.1**	**104**
CV (%)	**4.7**					
MATURITY GROUP IV						
VIGORO - V435 SCN	61.7	10-01	1.3	31	1.0	3124
CLARKS - CL41 STS	59.0	09-28	1.5	33	1.7	2949
PUBLIC - MONOCACY	58.2	09-28	1.3	31	1.7	2904
USG - 444nSTS	56.1	09-30	2.0	34	1.0	3082
PUBLIC - STRESSLAND	55.3	09-28	2.0	33	1.3	3679
SCHILLINGER - 435.TCS	55.3	09-29	1.5	28	1.3	3182
PUBLIC - LN 97-15076	55.0	09-27	1.3	29	1.7	3225
PUBLIC - CORSICA	52.6	09-24	1.5	29	1.7	3006
EXPERIMENTAL - MD 99-5144	52.4	09-28	1.8	29	1.5	3331
PUBLIC - HS 93-4118	52.3	09-26	1.2	28	1.8	3241
EXPERIMENTAL - MD 03-5648	42.2	09-30	2.5	36	1.5	2908
Mean	**54.6**	**-**	**1.6**	**31**	**1.5**	**3148**
LSD (0.20)	**3.1**	**-**	**0.4**	**2**	**0.3**	**114**
CV (%)	**5.3**					
MATURITY GROUP IV-S						
PUBLIC - MD 4900	57.5	10-04	1.0	24	2.0	3574
EXPERIMENTAL - MD 00-5020	51.8	10-03	1.0	27	2.0	3952
EXPERIMENTAL - MD 97-6491	50.6	09-29	1.0	33	2.8	3258
EXPERIMENTAL - MD 01-5866	50.3	10-04	1.0	26	1.8	3329
EXPERIMENTAL - MD 00-5326	49.1	10-09	1.3	38	2.0	3681
EXPERIMENTAL - MD 96-5275	48.8	10-04	1.0	28	1.5	3889
PUBLIC - MANOKIN	47.5	10-06	1.8	31	2.0	4148
EXPERIMENTAL - MD 00-5024	46.3	10-07	1.3	39	2.0	3659
PUBLIC - KS 4602N	45.8	10-01	1.7	31	2.5	3542
EXPERIMENTAL - MD 0304WN79	41.4	10-06	1.0	30	4.0	3640
EXPERIMENTAL - MD 0304WN59	40.0	10-03	1.0	22	4.0	3493
Mean	**48.1**	**-**	**1.2**	**30**	**2.4**	**3651**
LSD (0.20)	**2.9**	**-**	**0.4**	**2**	**0.1**	**184**
CV (%)	**5.6**					

Table 6. (Continued) Quantico - Full Season, Standard Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP V						
EXPERIMENTAL - MD 00-6015	57.7	10-07	1.0	22	1.7	3395
EXPERIMENTAL - V98-2711	57.3	10-12	1.7	27	1.8	3490
USG - 5002T	57.3	10-05	1.7	26	2.0	3330
EXPERIMENTAL - MD 99-6226	57.1	10-08	1.3	27	1.7	3264
EXPERIMENTAL - MD 01-6106	55.9	10-15	1.8	31	2.2	3834
PUBLIC - HOLLADAY	55.9	10-05	1.3	23	1.8	3583
PUBLIC - TEEJAY	54.6	10-13	1.5	29	2.2	3059
PUBLIC - OZARK	54.1	10-14	1.7	29	1.8	3268
USG - 5601T	52.3	10-16	1.8	32	1.8	3581
PUBLIC - ESSEX	52.0	10-05	1.3	23	1.8	3557
PUBLIC - HUTCHESON	51.5	10-13	1.7	30	1.8	3166
PUBLIC - KS 5502N	49.3	10-15	1.8	33	2.7	4087
EXPERIMENTAL - MD 0304WN37	39.2	10-07	1.0	22	4.0	3249
Mean	**53.4**	**-**	**1.5**	**27**	**2.1**	**3451**
LSD (0.20)	**4.2**	**-**	**0.3**	**2**	**0.3**	**123**
CV (%)	**7.2**					

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

*Seed Quality Score:1=excellent (no moldy,cracked, or wrinkled seeds), to 5=poor

Table 7. Performance of standard soybean varieties double cropped at Quantico.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
SCHILLINGER - 394.T	65.1	10-05	2.5	34	2.0	3172
EXPERIMENTAL - MD 03-5458	58.2	10-05	3.5	35	4.0	2908
VIGORO - V385 SCN	55.4	10-04	2.5	33	2.0	3205
PUBLIC - IA 3017	53.7	09-29	2.8	32	3.5	3388
PUBLIC - MACON	48.4	10-03	2.5	33	2.0	2902
PUBLIC - IA 3023	45.4	10-01	1.5	26	3.0	3572
PUBLIC - GENERAL	44.9	10-03	2.5	31	2.5	3146
Mean	**53.0**	**-**	**2.5**	**32**	**2.7**	**3185**
LSD (0.20)	**2.4**	**-**	**0.2**	**1**	**NS**	**96**
CV (%)	**4.1**					
MATURITY GROUP IV						
CLARKS - CL41 STS	47.7	10-03	2.5	31	3.0	3241
SCHILLINGER - 435.TCS	47.5	10-05	2.7	29	2.2	3226
USG - 444nSTS	47.5	10-08	2.8	33	2.2	3379
PUBLIC - STRESSLAND	47.4	10-05	3.0	35	3.2	3842
PUBLIC - LN 97-15076	46.0	10-04	2.3	32	3.2	3432
VIGORO - V435 SCN	45.0	10-06	2.3	29	2.2	3869
PUBLIC - CORSICA	44.9	10-03	2.5	30	2.8	3479
PUBLIC - MONOCACY	44.1	10-05	3.3	34	3.3	3022
EXPERIMENTAL - MD 99-5144	43.5	10-04	3.2	30	3.2	3571
PUBLIC - HS 93-4118	41.0	10-02	2.7	30	3.3	3843
EXPERIMENTAL - MD 03-5648	33.3	10-06	3.5	37	3.5	2879
Mean	**44.3**	**-**	**2.8**	**32**	**2.9**	**3435**
LSD (0.20)	**4.4**	**-**	**0.4**	**2**	**0.3**	**220**
CV (%)	**9.2**					
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 97-6491	52.5	10-13	2.7	37	2.0	3218
EXPERIMENTAL - MD 01-5866	51.3	10-16	3.5	32	3.0	3572
PUBLIC - KS 4602N	50.3	10-11	2.7	34	2.0	3128
PUBLIC - MD 4900	46.6	10-16	3.8	30	3.0	4019
EXPERIMENTAL - MD 00-5326	44.6	10-16	2.7	35	2.7	4057
EXPERIMENTAL - MD 0304WN79	43.2	10-15	2.3	31	3.7	3467
EXPERIMENTAL - MD 00-5024	42.9	10-18	3.3	37	3.5	3843
EXPERIMENTAL - MD 96-5275	42.5	10-18	3.0	29	2.5	4079
EXPERIMENTAL - MD 00-5020	39.8	10-15	3.5	34	2.7	4273
EXPERIMENTAL - MD 0304WN59	36.4	10-17	3.5	26	3.7	3801
PUBLIC - MANOKIN	34.7	10-15	3.8	32	3.0	4579
Mean	**44.1**	**-**	**3.2**	**32**	**2.9**	**3822**
LSD (0.20)	**5.1**	**-**	**0.2**	**1**	**0.1**	**202**
CV (%)	**10.7**					

Table 7. (Continued) Quantico - Double Crop, Standard Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP V						
EXPERIMENTAL - MD 99-6226	45.3	10-17	3.7	30	3.2	3752
PUBLIC - ESSEX	43.0	10-15	3.3	29	2.0	4175
PUBLIC - HOLLADAY	40.1	10-12	3.8	30	2.3	4386
EXPERIMENTAL - MD 00-6015	38.6	10-14	3.7	25	2.5	4154
USG - 5601T	38.3	10-16	3.5	37	2.5	4503
PUBLIC - HUTCHESON	38.3	10-16	3.7	36	2.8	3801
EXPERIMENTAL - V98-2711	38.1	10-17	4.0	29	3.2	4412
USG - 5002T	35.7	10-13	3.3	31	2.5	4360
EXPERIMENTAL - MD 01-6106	35.6	10-20	3.5	33	3.0	4295
PUBLIC - OZARK	35.1	10-17	3.5	35	2.8	4189
PUBLIC - TEEJAY	33.8	10-16	3.5	34	2.8	3788
PUBLIC - KS 5502N	33.0	10-18	3.5	34	3.2	4977
EXPERIMENTAL - MD 0304WN37	29.0	10-12	3.2	27	3.8	3780
Mean	**37.2**	**-**	**3.6**	**32**	**2.8**	**4198**
LSD (0.20)	**4.7**	**-**	**0.3**	**2**	**0.3**	**270**
CV (%)	**11.7**					

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

*Seed Quality Score:1=excellent (no moldy,cracked, or wrinkled seeds), to 5=poor

Table 8. Relative yields of standard soybean varieties compared to the mean yield of all varieties in that maturity group at each location in 2005.

			Quantico	
BRAND - ENTRY	**Clarksville**	**Queenstown**	**Full Season**	**Double Crop**
MATURITY GROUP III		**Relative Yield, % of Mean**		
PUBLIC - GENERAL	98	93	107*	85
PUBLIC - IA 3017	96	96	95	101
PUBLIC - IA 3023	98	104*	93	86
PUBLIC - MACON	101	98	93	91
EXPERIMENTAL - MD 03-5458	111*	84	94	110
SCHILLINGER - 394.T	100	113*	111*	123*
VIGORO - V385 SCN	96	113*	108*	105
Location/Group Mean Yield	**52.7ns**	**47.1**	**49.9**	**53.0**
MATURITY GROUP IV				
CLARKS - CL41 STS	91	102	108*	108*
PUBLIC - CORSICA	99	92	96	101*
PUBLIC - HS 93-4118	96	99	96	92
PUBLIC - LN 97-15076	92	108*	101	104*
PUBLIC - MONOCACY	106*	100	107	100*
EXPERIMENTAL - MD 99-5144	97	93	96	98*
EXPERIMENTAL - MD 03-5648	77	85	77	75
SCHILLINGER - 435.TCS	120*	106	101	107*
PUBLIC - STRESSLAND	92	94	101	107*
USG - 444nSTS	109*	104	103	107*
VIGORO - V435 SCN	120*	117*	113*	101*
Location/Group Mean Yield	**57.3**	**55.6**	**54.6**	**44.3**
MATURITY GROUP IV-S				
PUBLIC - KS 4602N	97	103*	95	114*
PUBLIC - MANOKIN	94	99	99	79
PUBLIC - MD 4900	103	108*	120*	106
EXPERIMENTAL - MD 96-5275	101	102*	101	96
EXPERIMENTAL - MD 97-6491	120*	102*	105	119*
EXPERIMENTAL - MD 00-5020	93	105*	108	90
EXPERIMENTAL - MD 00-5024	92	100	96	97
EXPERIMENTAL - MD 00-5326	108	107*	102	101
EXPERIMENTAL - MD 01-5866	109	106*	105	116*
EXPERIMENTAL - MD 0304WN59	85	69	83	82
EXPERIMENTAL - MD 0304WN79	97	98	86	98
Location/Group Mean Yield	**44.3ns**	**52.4**	**48.1**	**44.1**

Table 8. (Continued) Relative Yields, Standard Soybean Varieties

BRAND - ENTRY	Clarksville	Queenstown	Quantico Full Season	Quantico Double Crop
MATURITY GROUP V		**Relative Yield, % of Mean**		
PUBLIC - ESSEX	-	78	97	116*
PUBLIC - HOLLADAY	-	105*	105*	108
PUBLIC - HUTCHESON	-	111*	96	103
PUBLIC - KS 5502N	-	98	92	89
EXPERIMENTAL - MD 99-6226	-	110*	107*	122*
EXPERIMENTAL - MD 00-6015	-	102	108*	104
EXPERIMENTAL - MD 01-6106	-	99	105*	96
EXPERIMENTAL - MD 0304WN37	-	63	73	78
PUBLIC - OZARK	-	96	101*	94
PUBLIC - TEEJAY	-	113*	102*	91
USG - 5002T	-	106*	107*	96
USG - 5601T	-	108*	98	103
EXPERIMENTAL - V98-2711	-	111*	107*	102
Location/Group Mean Yield	**-**	**50.3**	**53.4**	**37.2**

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.

Table 9. Two-year average yields of standard varieties grown at three locations in Maryland, 2004-2005.

			Quantico	
BRAND - ENTRY	**Clarksville**	**Queenstown**	**Full Season**	**Double Crop**
MATURITY GROUP III		**Seed Yield, Bu/A**		
PUBLIC - GENERAL	55.1	55.3	55.4	50.9
PUBLIC - IA 3017	53.2	54.0	46.1	55.5
PUBLIC - IA 3023	57.8	56.8	46.4	52.8
PUBLIC - MACON	57.3	53.6	51.9	53.0
MATURITY GROUP IV				
PUBLIC - CORSICA	58.6	56.3	53.2	52.5
PUBLIC - HS 93-4118	59.1	61.4	56.9	52.1
PUBLIC - LN 97-15076	57.2	61.1	59.0	52.6
PUBLIC - MONOCACY	60.8	55.9	63.2	52.7
PUBLIC - STRESSLAND	54.3	55.3	58.6	52.3
MATURITY GROUP IV-S				
PUBLIC - KS 4602N	50.5	54.4	50.8	53.5
PUBLIC - MANOKIN	49.5	48.7	55.2	47.6
PUBLIC - MD 4900	50.0	54.6	61.4	49.8
EXPERIMENTAL - MD 96-5275	47.3	51.7	53.8	47.0
EXPERIMENTAL - MD 97-6491	55.1	55.0	56.4	54.3
EXPERIMENTAL - MD 00-5020	44.8	52.8	54.4	47.5
EXPERIMENTAL - MD 00-5024	49.0	49.5	52.1	48.2
EXPERIMENTAL - MD 00-5326	54.2	56.9	59.0	54.4
MATURITY GROUP V				
PUBLIC - ESSEX	-	46.7	59.9	43.3
PUBLIC - HOLLADAY	-	52.6	63.5	50.1
PUBLIC - HUTCHESON	-	54.8	59.5	44.3
PUBLIC - KS 5502N	-	46.9	55.5	37.2
EXPERIMENTAL - MD 99-6226	-	55.6	62.8	53.4
EXPERIMENTAL - MD 00-6015	-	54.6	63.0	45.4
PUBLIC - OZARK	-	50.7	61.4	38.7
PUBLIC - TEEJAY	-	58.1	62.2	37.6
USG - 5002T	-	55.9	60.2	45.4
USG - 5601T	-	56.7	59.5	40.4
EXPERIMENTAL - V98-2711	-	57.9	63.6	43.0

Table 10. Performance of Roundup Ready soybean varieties planted at Keedysville.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
VIGORO - V36N5RR	62.0	-	2.7	39	1.8	3398
S.STATES - RT 3951N	61.9	-	2.0	39	2.3	3298
ASGROW - AG 3905	60.6	-	1.2	37	2.0	3139
S.STATES - RT 3551N	60.0	-	2.2	39	2.2	2757
HISOY - 395NRR	59.6	-	1.3	36	1.8	3392
ASGROW - AG 3802	59.5	-	2.5	41	2.3	3226
VIGORO - EX831064	59.1	-	1.7	39	2.0	3265
GARST - 3624RR/N	58.5	-	1.7	35	1.7	3313
TA SEEDS - TS 3659R	58.4	-	1.0	36	2.0	3537
HISOY - XP2538	57.3	-	1.3	32	2.0	3007
NK - S37-N4	57.2	-	2.5	40	2.3	3128
SCHILLINGER - 396.RC	57.0	-	1.0	33	1.8	3310
GARST - 3712RR/N	57.0	-	1.0	28	2.0	3007
GARST - 3960RR/N	55.6	-	1.0	35	2.0	3411
S.STATES - RT 3851N	54.6	-	1.0	37	2.3	3600
TA SEEDS - TS 3999R	54.4	-	1.0	35	2.0	2956
USG - 7393nRR	54.3	-	1.0	31	2.2	2545
VIGORO - V39N4RR	53.8	-	1.2	31	2.3	2705
S.STATES - RT 3251N	53.6	-	2.2	39	2.2	3870
S.STATES - RT 2800	51.8	-	1.0	30	2.2	2574
S.STATES - RT 3802N	50.2	-	1.2	36	2.0	3523
Mean	**57.0**	**-**	**1.5**	**36**	**2.1**	**3189**
LSD (0.20)	**4.3**	**-**	**0.4**	**3**	**0.2**	**152**
CV (%)	**7.1**					

Table 10. (Continued) Keedysville - Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV						
DEKALB - DKB42-51	62.6	-	1.5	37	1.7	3485
ASGROW - AG 4503	60.2	-	1.7	37	1.8	3027
USG - 7415nRR	60.0	-	1.8	38	2.0	3088
S.STATES - RT 4440N	59.3	-	2.2	40	1.5	3718
USG - 7443nRR	58.8	-	1.3	39	1.5	3548
PIONEER - 94M30	58.0	-	1.7	38	2.0	3081
HISOY - HS4228	58.0	-	1.5	35	2.7	2677
S.STATES - RT 4451N	57.9	-	2.2	39	1.8	3701
ASGROW - AG 4201	57.6	-	2.0	39	2.0	3160
USG - 7423nRS	57.3	-	1.5	36	2.0	2933
S.STATES - RT 4502N	56.7	-	1.5	39	1.8	3397
ASGROW - AG 4404	56.6	-	2.0	38	1.5	3185
TA SEEDS - TS 4399R	56.6	-	2.5	41	1.5	3668
USG - 7455nRR	56.6	-	2.3	42	1.2	4028
D&PL - DP 4331RR	56.5	-	2.2	40	1.8	3594
S.STATES - RT 4151N	56.5	-	1.8	39	2.2	2858
USG - 7440nRR	55.7	-	2.3	42	1.0	3634
S.STATES - RT 4551N	55.3	-	2.2	40	1.5	3549
EXPERIMENTAL - MD 01-063RR	54.5	-	1.3	36	2.0	3127
NK - S40-R9	54.1	-	2.8	43	2.3	3314
VIGORO - V44N6RR	53.8	-	2.0	38	1.0	4024
SCHILLINGER - 426.RC	53.7	-	1.8	39	1.8	3713
S.STATES - RT 4230N	53.3	-	2.0	38	2.2	3203
NK - S43-B1	52.5	-	2.8	40	2.3	3582
EXPERIMENTAL - MD 01-329RR	52.5	-	1.8	39	1.7	3454
HISOY - 432NRR	52.0	-	2.3	41	1.7	3592
Mean	**56.4**	**-**	**2.0**	**39**	**1.8**	**3398**
LSD (0.20)	**3.5**	**-**	**0.7**	**2**	**0.2**	**134**
CV (%)	**5.9**					

Table 10. (Continued) Keedysville - Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV-S						
ASGROW - AG 4703	65.0	-	2.2	38	1.5	3372
VIGORO - V49N6RR	61.6	-	2.8	43	1.3	3304
ASGROW - AG 4903	59.2	-	1.5	39	1.7	3122
ASGROW - AG 4801	59.1	-	1.2	36	2.0	2958
USG - 7489RR	58.7	-	3.5	45	1.8	3257
D&PL - DP 4690RR	57.5	-	2.3	40	1.7	3108
HISOY - 472NRR	57.2	-	1.2	33	1.7	2874
CLARKS - CL48RR	56.8	-	2.7	43	2.0	3187
S.STATES - RT 4808N	56.2	-	3.2	42	1.5	3549
USG - 7482nRR	56.1	-	2.0	40	2.0	3229
SCHILLINGER - 495.RC	56.0	-	2.7	43	1.5	3109
D&PL - DP 4724RR	54.9	-	1.0	31	2.0	2867
S.STATES - RT 4981N	54.8	-	3.0	45	1.0	3290
USG - 7499nRR	54.5	-	2.2	44	1.2	3503
VIGORO - V48N5RR	54.4	-	1.7	39	1.7	3105
S.STATES - RT 4651N	53.9	-	2.5	43	1.0	3594
USG - 7484nRR	53.5	-	3.8	40	1.5	3527
SCHILLINGER - 465.RC	51.9	-	1.5	41	1.5	3269
EXPERIMENTAL - MD 99-1098-2RR	49.7	-	2.0	32	1.2	4006
TA SEEDS - TS 4659R	46.0	-	2.3	44	1.5	3957
Mean	**55.9**	**-**	**2.3**	**40**	**1.6**	**3309**
LSD (0.20)	**3.8**	**-**	**0.9**	**3**	**0.2**	**135**
CV (%)	**6.3**					

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

*Seed Quality Score:1=excellent (no moldy, cracked, or wrinkled seeds), to 5=poor

Table 11. Performance of Roundup Ready soybean varieties planted full season at Queenstown.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
VIGORO - V36N5RR	62.1	09-27	3.0	39	1.5	3485
GARST - 3624RR/N	61.8	09-26	2.5	39	1.0	3922
SCHILLINGER - 396.RC	61.4	09-28	2.2	37	1.5	3710
GARST - 3712RR/N	60.4	09-27	1.8	35	1.8	3352
HISOY - XP2538	59.4	09-27	1.3	37	1.7	3473
S.STATES - RT 3551N	58.3	09-24	1.8	39	2.0	3058
TA SEEDS - TS 3659R	57.5	09-27	1.8	41	1.7	3712
ASGROW - AG 3802	57.4	09-25	2.2	42	1.3	3639
HISOY - 395NRR	57.4	09-26	1.3	37	1.3	3730
S.STATES - RT 2800	57.3	09-21	1.7	36	1.8	3161
S.STATES - RT 3851N	57.0	09-25	2.2	41	1.0	4320
VIGORO - V39N4RR	56.7	09-28	1.8	38	1.5	2806
S.STATES - RT 3951N	56.2	09-25	2.5	42	1.3	3884
NK - S37-N4	56.1	10-01	2.2	41	1.2	3264
VIGORO - EX831064	56.1	09-28	2.5	43	1.2	3812
ASGROW - AG 3905	56.0	09-27	1.7	40	1.7	3248
USG - 7393nRR	54.3	09-28	2.2	41	1.5	2950
S.STATES - RT 3251N	52.9	09-20	2.3	41	1.3	3946
TA SEEDS - TS 3999R	52.9	09-30	1.2	38	1.5	3423
GARST - 3960RR/N	52.7	09-26	1.7	38	1.2	3556
S.STATES - RT 3802N	47.7	09-28	2.2	42	1.3	3900
Mean	**56.7**	**-**	**2.0**	**39**	**1.4**	**3541**
LSD (0.20)	**4.1**	**-**	**0.4**	**2**	**0.2**	**150**
CV (%)	**6.8**					

Table 11. (Continued) Queenstown - Full Season, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV						
S.STATES - RT 4151N	71.7	10-04	3.0	44	2.0	2594
HISOY - HS4228	67.5	10-02	2.7	37	2.2	2728
USG - 7443nRR	65.5	10-05	2.2	43	1.8	3421
DEKALB - DKB42-51	63.9	10-03	2.2	43	3.5	3568
S.STATES - RT 4451N	63.2	10-03	3.3	47	2.0	3820
D&PL - DP 4331RR	63.1	10-04	3.0	42	1.8	3468
HISOY - 432NRR	62.8	10-05	3.0	45	1.8	3490
USG - 7415nRR	62.2	10-05	2.5	44	2.2	2640
S.STATES - RT 4440N	62.1	10-06	3.0	44	2.0	3441
USG - 7423nRS	61.0	10-05	1.7	37	2.2	2798
ASGROW - AG 4503	60.3	10-04	2.5	42	2.5	2979
ASGROW - AG 4404	60.1	10-05	2.3	42	1.8	3306
NK - S43-B1	59.5	09-30	3.3	42	2.5	3336
S.STATES - RT 4551N	59.5	10-06	3.0	45	2.5	3236
VIGORO - V44N6RR	59.1	10-02	2.8	44	1.5	3922
USG - 7455nRR	58.9	10-03	3.0	45	1.5	3766
TA SEEDS - TS 4399R	58.6	10-04	2.5	42	2.0	3680
USG - 7440nRR	58.5	10-05	2.5	44	2.0	3541
NK - S40-R9	58.1	10-05	3.0	44	3.2	3093
SCHILLINGER - 426.RC	57.7	09-29	2.7	40	2.5	3593
ASGROW - AG 4201	57.2	10-06	3.2	45	2.2	3086
S.STATES - RT 4230N	56.3	10-05	3.7	42	2.7	2920
PIONEER - 94M30	56.1	10-06	2.7	43	2.3	2986
EXPERIMENTAL - MD 01-329RR	55.9	09-28	2.5	42	2.3	3577
EXPERIMENTAL - MD 01-063RR	52.6	10-02	2.5	44	2.5	3040
S.STATES - RT 4502N	52.5	10-06	3.3	45	2.0	3249
Mean	**60.1**	**-**	**2.8**	**43**	**2.2**	**3280**
LSD (0.20)	**5.7**	**-**	**0.5**	**2**	**0.3**	**193**
CV (%)	**8.9**					

Table 11. (Continued) Queenstown - Full Season, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV-S						
D&PL - DP 4690RR	61.5	10-17	3.3	44	1.8	2940
SCHILLINGER - 495.RC	61.3	10-18	3.0	47	2.5	2820
VIGORO - V49N6RR	61.2	10-18	3.2	47	1.8	2813
CLARKS - CL48RR	58.8	10-16	3.2	44	2.0	3027
USG - 7484nRR	58.8	10-16	3.5	42	1.3	3260
USG - 7489RR	58.2	10-17	3.3	45	1.5	2844
D&PL - DP 4724RR	58.1	10-16	3.0	42	1.8	2814
USG - 7482nRR	57.8	10-16	2.7	44	1.5	2871
ASGROW - AG 4903	57.3	10-17	2.3	42	2.3	3107
ASGROW - AG 4801	57.2	10-16	2.0	39	1.7	3150
HISOY - 472NRR	57.1	10-12	2.7	41	2.2	2977
EXPERIMENTAL - MD 99-1098-2RR	56.2	10-16	1.2	29	1.8	3509
VIGORO - V48N5RR	55.7	10-17	2.3	42	1.7	2789
ASGROW - AG 4703	55.6	10-06	2.5	40	1.5	3527
S.STATES - RT 4981N	55.5	10-16	2.7	48	2.2	3129
SCHILLINGER - 465.RC	54.9	10-05	2.0	42	2.0	3433
S.STATES - RT 4808N	52.5	10-12	2.3	44	2.0	3387
USG - 7499nRR	52.0	10-17	2.5	43	1.2	3180
TA SEEDS - TS 4659R	51.9	10-16	2.2	51	1.2	3288
S.STATES - RT 4651N	51.2	10-10	2.0	41	1.2	3353
Mean	**56.6**	**-**	**2.6**	**43**	**1.8**	**3111**
LSD (0.20)	**NS**	**-**	**0.4**	**3**	**0.6**	**171**
CV (%)	**9.1**					
MATURITY GROUP V						
USG - 510nRR	60.5	10-17	1.8	39	1.5	3385
EXPERIMENTAL - MD 01-206RR	59.2	10-19	1.8	38	2.0	3836
S.STATES - RT 5130N	56.4	10-17	2.0	39	2.0	2714
VIGORO - V51N6RR	56.3	10-24	1.7	33	1.5	2929
USG - 7505nRR	54.7	10-18	2.5	45	1.5	2937
EXPERIMENTAL - TN 05-548RR	54.2	10-31	2.5	41	1.0	3512
USG - 7515nRR	53.3	10-18	2.7	44	1.5	3139
EXPERIMENTAL - TN 05-547RR	53.0	10-30	2.2	43	1.0	3554
CLARKS - CL54RR	52.1	10-21	2.2	36	1.7	3574
USG - 7504nRR	50.8	10-16	2.7	40	1.5	3387
EXPERIMENTAL - MD 99-0687-3RR	47.0	10-17	2.8	37	2.2	3311
Mean	**54.3**	**-**	**2.3**	**40**	**1.6**	**3298**
LSD (0.20)	**5.6**	**-**	**0.6**	**2**	**0.2**	**168**
CV (%)	**9.6**					

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

*Seed Quality Score:1=excellent (no moldy, cracked, or wrinkled seeds), to 5=poor

Table 12. Performance of Roundup Ready soybean varieties double cropped at Queenstown.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
ASGROW - AG 3802	67.8	10-30	2.2	36	2.8	2915
SCHILLINGER - 396.RC	65.8	10-28	2.0	33	1.5	3024
ASGROW - AG 3905	64.7	10-28	2.0	34	1.5	2589
GARST - 3624RR/N	63.5	10-23	2.3	32	2.2	2952
S.STATES - RT 3551N	63.4	10-22	1.8	31	2.5	2697
GARST - 3712RR/N	62.8	10-24	1.7	24	1.7	2653
VIGORO - V36N5RR	62.8	10-22	2.3	33	2.0	2973
S.STATES - RT 3951N	61.2	10-25	2.2	32	1.8	2935
VIGORO - EX831064	60.9	10-28	2.2	35	2.0	2959
VIGORO - V39N4RR	60.2	10-28	2.0	33	1.5	2422
USG - 7393nRR	59.8	10-28	2.0	33	1.8	2468
TA SEEDS - TS 3999R	59.0	10-28	1.3	28	1.5	2653
HISOY - XP2538	58.7	10-29	1.5	29	1.8	2884
HISOY - 395NRR	58.4	10-28	1.8	32	2.7	3261
S.STATES - RT 3851N	58.3	10-23	2.2	32	2.5	3577
GARST - 3960RR/N	57.3	10-28	2.0	33	2.8	3004
TA SEEDS - TS 3659R	57.2	10-24	1.5	31	2.8	3180
S.STATES - RT 3251N	54.8	10-18	2.7	37	2.0	3519
S.STATES - RT 2800	54.6	10-18	2.3	31	2.2	2613
NK - S37-N4	53.8	10-31	1.8	37	2.0	2577
S.STATES - RT 3802N	52.5	10-28	2.7	35	2.2	2983
Mean	**59.9**	**-**	**2.0**	**32**	**2.1**	**2897**
LSD (0.20)	**3.7**	**-**	**0.3**	**2**	**0.2**	**82**
CV (%)	**5.8**					

Table 12. (Continued) Queenstown - Double Crop, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV						
DEKALB - DKB42-51	62.8	10-28	1.5	33	1.2	3276
HISOY - 432NRR	62.6	10-26	2.2	36	1.2	3230
ASGROW - AG 4201	61.2	10-30	2.7	33	1.0	2934
ASGROW - AG 4503	61.1	10-30	1.7	32	1.0	2612
S.STATES - RT 4551N	60.9	10-31	1.7	35	1.0	3080
USG - 7415nRR	60.9	10-28	1.8	31	1.5	2564
S.STATES - RT 4151N	60.7	10-28	1.8	34	1.0	2520
S.STATES - RT 4451N	60.4	10-28	2.3	35	1.0	3762
HISOY - HS4228	59.7	10-31	1.0	27	1.8	2314
EXPERIMENTAL - MD 01-329RR	59.6	10-30	1.8	35	1.3	3016
USG - 7443nRR	59.2	10-30	1.7	31	1.0	3137
TA SEEDS - TS 4399R	58.4	10-27	1.8	31	1.0	3402
D&PL - DP 4331RR	58.4	10-28	2.0	33	1.0	3265
VIGORO - V44N6RR	58.4	10-28	2.5	33	1.0	3780
PIONEER - 94M30	58.0	10-30	1.7	30	1.7	2928
ASGROW - AG 4404	57.2	10-30	1.8	33	1.0	3060
USG - 7455nRR	56.6	10-28	2.7	34	1.2	3629
USG - 7440nRR	56.4	10-28	2.0	31	1.0	3454
SCHILLINGER - 426.RC	55.7	10-26	1.8	34	1.3	3258
S.STATES - RT 4440N	55.6	10-28	1.8	31	1.0	3387
EXPERIMENTAL - MD 01-063RR	55.2	10-29	1.8	33	2.0	2762
USG - 7423nRS	54.4	10-30	1.0	28	2.0	2378
NK - S43-B1	54.3	10-29	1.7	35	1.7	3301
S.STATES - RT 4502N	53.5	10-31	2.0	37	1.0	3045
S.STATES - RT 4230N	51.5	10-26	1.8	31	1.5	2926
NK - S40-R9	49.4	10-31	2.0	35	3.0	3378
Mean	**57.8**	**-**	**1.9**	**33**	**1.3**	**3092**
LSD (0.20)	**4.8**	**-**	**0.3**	**2**	**0.3**	**130**
CV (%)	**7.8**					

Table 12. (Continued) Queenstown - Double Crop, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV-S						
ASGROW - AG 4801	66.1	11-01	1.5	32	1.0	2725
ASGROW - AG 4703	64.1	10-29	2.2	31	1.3	2960
CLARKS - CL48RR	62.8	10-30	3.5	37	1.2	2696
USG - 7489RR	62.2	11-02	3.5	41	1.2	2722
SCHILLINGER - 495.RC	61.5	11-03	3.2	40	1.5	2656
ASGROW - AG 4903	61.0	11-02	2.7	34	1.0	2813
VIGORO - V49N6RR	60.8	11-03	3.0	35	1.5	2704
EXPERIMENTAL - MD 99-1098-2RR	60.3	11-02	2.0	25	1.2	3261
HISOY - 472NRR	60.2	10-31	2.5	35	1.3	2674
TA SEEDS - TS 4659R	59.7	11-01	3.2	41	1.0	2879
S.STATES - RT 4808N	58.6	10-31	2.2	30	1.8	2990
USG - 7482nRR	57.0	10-31	2.2	31	1.0	2865
VIGORO - V48N5RR	56.9	11-03	2.7	32	1.2	2629
SCHILLINGER - 465.RC	56.8	10-29	1.8	31	1.2	3046
USG - 7484nRR	56.7	10-31	3.5	32	1.0	2998
S.STATES - RT 4981N	56.1	11-01	3.3	39	1.5	2997
D&PL - DP 4690RR	56.1	10-29	3.3	36	1.0	2963
USG - 7499nRR	56.0	11-01	2.5	35	1.5	3073
S.STATES - RT 4651N	55.9	10-30	2.2	33	1.5	2961
D&PL - DP 4724RR	55.6	10-31	2.3	32	1.2	2891
Mean	**59.2**	**-**	**2.7**	**34**	**1.3**	**2875**
LSD (0.20)	**4.5**	**-**	**0.4**	**2**	**0.2**	**168**
CV (%)	**7.1**					
MATURITY GROUP V						
USG - 7505nRR	59.5	11-01	2.8	37	1.0	2914
EXPERIMENTAL - MD 01-206RR	56.3	11-03	2.5	30	1.0	4027
USG - 7504nRR	56.0	10-30	3.2	32	1.0	3102
USG - 7515nRR	53.4	10-31	3.2	34	1.0	3333
VIGORO - V51N6RR	53.1	11-06	1.8	31	1.0	3122
USG - 510nRR	52.5	11-04	2.8	37	1.0	3343
CLARKS - CL54RR	51.3	11-06	3.0	36	1.0	3377
EXPERIMENTAL - TN 05-548RR	51.0	11-08	3.3	41	1.0	3454
EXPERIMENTAL - MD 99-0687-3RR	50.3	11-02	3.2	35	1.0	3476
S.STATES - RT 5130N	49.0	11-06	3.2	35	1.0	2605
EXPERIMENTAL - TN 05-547RR	49.0	11-08	2.8	37	1.0	3566
Mean	**52.9**	**-**	**2.9**	**35**	**1.0**	**3302**
LSD (0.20)	**3.2**	**-**	**0.4**	**2**	**NS**	**143**
CV (%)	**5.7**					

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

*Seed Quality Score:1=excellent (no moldy, cracked, or wrinkled seeds), to 5=poor

Table 13. Performance of Roundup Ready soybean varieties planted full season at Quantico.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
HISOY - XP2538	65.8	09-29	1.3	36	2.0	3050
VIGORO - V36N5RR	64.9	09-28	3.0	38	1.7	3235
S.STATES - RT 3951N	64.1	09-28	2.5	41	1.5	3361
SCHILLINGER - 396.RC	63.3	09-29	1.2	33	1.7	3526
S.STATES - RT 3551N	62.5	09-26	1.8	35	2.2	2934
TA SEEDS - TS 3659R	62.0	09-26	1.3	37	1.5	3679
HISOY - 395NRR	61.4	09-28	2.0	37	1.8	3490
ASGROW - AG 3905	61.4	09-30	1.5	38	1.5	3046
VIGORO - EX831064	61.1	09-28	2.3	40	1.5	3421
S.STATES - RT 2800	61.0	09-23	1.8	36	2.0	2874
TA SEEDS - TS 3999R	60.9	09-30	1.0	34	2.0	3068
USG - 7393nRR	60.8	09-28	1.8	38	2.0	2790
GARST - 3624RR/N	60.7	09-27	2.3	37	1.5	3378
GARST - 3712RR/N	60.4	09-27	1.5	34	1.8	3236
NK - S37-N4	60.2	10-01	1.3	39	2.0	3114
ASGROW - AG 3802	60.0	09-29	1.8	41	1.5	3072
S.STATES - RT 3251N	59.8	09-21	2.2	41	1.7	3660
VIGORO - V39N4RR	59.7	09-28	2.2	38	2.0	2995
S.STATES - RT 3851N	58.8	09-24	2.0	38	1.3	4113
GARST - 3960RR/N	55.7	09-27	1.7	38	1.5	3652
S.STATES - RT 3802N	54.5	09-26	2.2	44	1.7	3547
Mean	**60.9**	**-**	**1.8**	**38**	**1.7**	**3297**
LSD (0.20)	**3.6**	**-**	**0.3**	**2**	**0.2**	**109**
CV (%)	**5.5**					

Table 13. (Continued) Quantico - Full Season, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV						
DEKALB - DKB42-51	65.3	09-30	1.7	39	1.0	3700
HISOY - HS4228	65.0	09-29	1.5	36	2.0	2812
PIONEER - 94M30	63.3	10-02	2.0	41	1.5	3173
NK - S43-B1	62.5	09-29	2.7	39	1.5	3472
D&PL - DP 4331RR	62.3	09-29	2.2	43	1.0	3731
USG - 7415nRR	62.2	10-02	2.0	40	1.0	2871
ASGROW - AG 4503	61.7	09-30	1.8	41	1.2	3086
VIGORO - V44N6RR	61.7	09-28	2.7	45	1.0	4076
S.STATES - RT 4451N	61.0	09-30	2.8	45	1.0	3882
USG - 7423nRS	61.0	09-28	1.5	35	1.5	2885
S.STATES - RT 4440N	60.9	09-30	2.5	42	1.2	3877
USG - 7443nRR	60.7	09-29	1.7	40	1.0	3601
S.STATES - RT 4551N	60.7	10-03	2.3	44	1.0	3225
ASGROW - AG 4404	60.4	09-28	2.3	40	1.0	3295
HISOY - 432NRR	59.5	10-02	2.7	44	1.0	3573
USG - 7455nRR	59.1	09-29	3.0	46	1.0	3872
EXPERIMENTAL - MD 01-329RR	59.0	09-29	2.3	42	1.2	3467
TA SEEDS - TS 4399R	58.8	09-30	2.7	43	1.0	3738
SCHILLINGER - 426.RC	58.7	09-28	1.7	38	1.5	3639
S.STATES - RT 4151N	58.6	09-30	2.3	42	1.5	2841
USG - 7440nRR	58.1	09-30	2.7	44	1.0	3824
S.STATES - RT 4230N	57.3	09-29	2.3	42	1.5	3397
ASGROW - AG 4201	55.6	09-29	2.8	40	1.5	3439
S.STATES - RT 4502N	53.8	09-30	2.5	46	1.0	3715
EXPERIMENTAL - MD 01-063RR	53.8	09-28	1.7	42	1.5	3031
NK - S40-R9	53.2	10-02	3.3	42	1.3	3429
Mean	**59.8**	**-**	**2.3**	**42**	**1.2**	**3448**
LSD (0.20)	**2.7**	**-**	**0.4**	**2**	**0.1**	**161**
CV (%)	**4.3**					

Table 13. (Continued) Quantico - Full Season, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV-S						
ASGROW - AG 4703	57.3	10-02	3.0	41	3.2	3396
ASGROW - AG 4801	56.4	10-05	2.0	40	3.2	3147
VIGORO - V49N6RR	55.9	10-08	3.3	47	2.5	3002
SCHILLINGER - 495.RC	55.5	10-07	3.7	49	2.5	3167
HISOY - 472NRR	54.0	10-04	3.5	43	2.7	2940
SCHILLINGER - 465.RC	53.3	10-04	2.7	45	2.8	3404
S.STATES - RT 4808N	53.2	10-03	3.0	46	2.8	3591
ASGROW - AG 4903	53.0	10-04	2.7	46	2.5	3327
VIGORO - V48N5RR	53.0	10-06	2.5	41	2.5	2939
USG - 7484nRR	51.9	10-05	3.8	41	2.5	3545
USG - 7482nRR	51.4	10-06	3.5	43	2.7	3167
D&PL - DP 4724RR	51.1	10-04	3.5	43	2.7	3060
D&PL - DP 4690RR	50.5	10-06	3.5	47	2.5	3357
S.STATES - RT 4651N	49.5	10-03	2.8	42	2.5	3476
TA SEEDS - TS 4659R	49.1	10-05	3.0	49	2.8	3687
USG - 7489RR	48.5	10-06	3.5	47	2.3	3233
CLARKS - CL48RR	47.3	10-06	3.7	46	2.5	3189
S.STATES - RT 4981N	45.9	10-06	3.3	50	2.7	3690
USG - 7499nRR	45.5	10-04	3.0	46	2.3	3391
EXPERIMENTAL - MD 99-1098-2RR	44.7	10-06	2.8	33	2.0	4063
Mean	**51.4**	**-**	**3.1**	**44**	**2.6**	**3339**
LSD (0.20)	**3.5**	**-**	**0.3**	**2**	**0.3**	**136**
CV (%)	**6.5**					
MATURITY GROUP V						
USG - 7505nRR	54.4	10-08	3.5	45	2.2	3286
USG - 510nRR	49.6	10-11	3.0	41	2.2	3668
USG - 7515nRR	49.1	10-09	3.5	45	1.8	3443
EXPERIMENTAL - MD 01-206RR	48.2	10-10	2.8	40	2.0	4414
EXPERIMENTAL - TN 05-548RR	46.8	10-17	3.8	45	2.7	4100
VIGORO - V51N6RR	46.0	10-10	2.7	39	2.8	3479
USG - 7504nRR	43.2	10-06	3.8	39	2.7	3911
S.STATES - RT 5130N	41.3	10-11	3.5	41	3.0	3253
EXPERIMENTAL - TN 05-547RR	38.2	10-17	3.5	42	2.5	4414
EXPERIMENTAL - MD 99-0687-3RR	35.7	10-07	3.8	38	3.3	3831
CLARKS - CL54RR	34.8	10-08	3.7	41	3.2	4147
Mean	**44.3**	**-**	**3.4**	**42**	**2.6**	**3813**
LSD (0.20)	**7.2**	**-**	**0.5**	**2**	**0.4**	**363**
CV (%)	**15.0**					

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

*Seed Quality Score:1=excellent (no moldy, cracked, or wrinkled seeds), to 5=poor

Table 14. Performance of Roundup Ready soybean varieties double cropped at Quantico.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
USG - 7393nRR	62.9	10-08	2.7	34	2.0	2860
ASGROW - AG 3802	60.0	10-08	2.7	38	2.5	3204
ASGROW - AG 3905	59.7	10-07	1.8	33	2.0	3081
VIGORO - V39N4RR	58.5	10-06	2.7	35	2.0	2866
SCHILLINGER - 396.RC	58.2	10-08	2.5	35	1.8	3504
S.STATES - RT 3951N	57.6	10-06	2.8	38	2.0	3630
HISOY - XP2538	56.8	10-06	2.0	32	2.0	3262
TA SEEDS - TS 3659R	56.4	10-04	2.3	31	2.2	3892
VIGORO - EX831064	56.2	10-08	3.0	36	2.0	3530
S.STATES - RT 3551N	56.0	10-03	2.7	34	2.5	3032
GARST - 3712RR/N	55.7	10-04	2.2	27	2.0	3296
HISOY - 395NRR	55.0	10-04	3.0	33	2.3	3823
VIGORO - V36N5RR	54.6	10-07	2.8	36	2.8	3482
S.STATES - RT 3851N	54.4	10-03	3.0	35	2.0	4081
S.STATES - RT 2800	52.7	09-30	2.8	34	2.5	3220
TA SEEDS - TS 3999R	51.8	10-08	2.0	33	1.5	3257
GARST - 3960RR/N	51.8	10-06	2.7	35	1.5	3519
NK - S37-N4	51.7	10-08	2.3	37	2.0	3749
GARST - 3624RR/N	49.0	10-04	2.8	33	2.0	3591
S.STATES - RT 3251N	48.2	09-28	3.0	35	3.2	4390
S.STATES - RT 3802N	47.8	10-05	3.3	37	2.5	3795
Mean	**55.0**	**-**	**2.6**	**34**	**2.2**	**3479**
LSD (0.20)	**3.8**	**-**	**0.4**	**2**	**0.2**	**143**
CV (%)	**6.5**					

Table 14. (Continued) Quantico - Double Crop, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV						
USG - 7423nRS	59.0	10-12	2.7	34	2.5	3069
S.STATES - RT 4151N	57.2	10-12	2.8	38	2.3	2643
USG - 7415nRR	57.0	10-11	2.7	38	2.3	2845
HISOY - 432NRR	56.1	10-12	2.7	39	2.0	3497
NK - S43-B1	55.6	10-10	3.0	36	2.5	3312
ASGROW - AG 4503	55.4	10-12	2.8	38	2.3	2824
HISOY - HS4228	55.3	10-13	2.7	34	2.3	2528
S.STATES - RT 4551N	54.9	10-14	3.2	36	2.5	3545
S.STATES - RT 4451N	54.6	10-12	2.8	41	2.5	4032
VIGORO - V44N6RR	54.6	10-06	2.5	40	2.0	4230
NK - S40-R9	54.4	10-10	3.2	41	2.2	3287
DEKALB - DKB42-51	54.1	10-10	2.5	35	3.0	3713
SCHILLINGER - 426.RC	53.5	10-06	2.7	35	2.2	3457
S.STATES - RT 4440N	52.8	10-09	2.3	37	2.0	3640
S.STATES - RT 4230N	52.5	10-13	3.2	34	2.5	3095
ASGROW - AG 4201	52.4	10-11	3.5	38	2.5	3115
USG - 7443nRR	51.9	10-12	2.3	36	2.0	3306
USG - 7440nRR	51.8	10-11	2.8	37	2.2	3519
TA SEEDS - TS 4399R	51.7	10-10	2.5	38	2.2	3671
PIONEER - 94M30	51.1	10-10	3.0	35	2.2	3328
USG - 7455nRR	51.1	10-09	3.2	42	2.2	4164
EXPERIMENTAL - MD 01-063RR	50.9	10-06	2.7	35	2.3	3466
ASGROW - AG 4404	49.7	10-13	3.3	39	2.8	3249
D&PL - DP 4331RR	49.6	10-09	2.3	38	1.5	3615
S.STATES - RT 4502N	49.0	10-13	2.8	40	2.3	3244
EXPERIMENTAL - MD 01-329RR	47.1	10-11	3.0	39	2.2	3669
Mean	**53.2**	**-**	**2.8**	**37**	**2.3**	**3387**
LSD (0.20)	**NS**	**-**	**0.4**	**2**	**0.3**	**280**
CV (%)	**8.3**					

Table 14. (Continued) Quantico - Double Crop, Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV-S						
SCHILLINGER - 495.RC	54.8	10-25	3.7	38	2.8	2934
S.STATES - RT 4808N	54.6	10-13	2.8	38	2.5	3317
VIGORO - V49N6RR	54.5	10-22	3.3	42	2.5	2986
VIGORO - V48N5RR	54.4	10-16	3.3	39	2.5	2912
SCHILLINGER - 465.RC	53.2	10-16	2.7	40	2.8	3300
ASGROW - AG 4903	53.0	10-18	3.0	41	2.7	3112
ASGROW - AG 4703	52.9	10-13	2.3	36	2.5	3482
USG - 7484nRR	52.7	10-16	3.3	37	2.8	3318
USG - 7489RR	52.6	10-15	3.3	44	2.7	3311
ASGROW - AG 4801	52.5	10-13	2.0	35	2.7	3242
D&PL - DP 4724RR	52.4	10-15	3.3	38	2.5	3210
USG - 7499nRR	52.1	10-20	3.3	39	2.8	3158
USG - 7482nRR	51.3	10-17	3.3	39	2.5	3023
CLARKS - CL48RR	49.1	10-13	3.3	42	2.3	3362
S.STATES - RT 4981N	49.0	10-17	3.3	42	2.7	3305
D&PL - DP 4690RR	48.9	10-14	3.3	42	2.5	3321
TA SEEDS - TS 4659R	48.8	10-17	3.0	43	2.8	3498
HISOY - 472NRR	48.3	10-13	3.5	39	2.2	3207
EXPERIMENTAL - MD 99-1098-2RR	48.3	10-20	3.5	31	3.0	3952
S.STATES - RT 4651N	47.1	10-17	2.8	38	2.8	3407
Mean	**51.5**	**-**	**3.1**	**39**	**2.6**	**3268**
LSD (0.20)	**3.8**	**-**	**0.2**	**2**	**0.2**	**136**
CV (%)	**7.0**					
MATURITY GROUP V						
USG - 7505nRR	54.3	10-24	3.5	40	1.5	2990
USG - 7504nRR	53.4	10-17	3.2	39	1.8	3320
EXPERIMENTAL - MD 01-206RR	48.9	10-25	3.3	38	2.3	4317
EXPERIMENTAL - TN 05-548RR	48.6	10-29	3.5	45	1.0	3773
VIGORO - V51N6RR	48.2	10-25	3.2	36	1.0	3472
EXPERIMENTAL - TN 05-547RR	48.0	10-27	3.5	42	1.0	3920
USG - 510nRR	47.3	10-24	3.5	41	1.5	3498
USG - 7515nRR	46.9	10-23	3.3	41	1.3	3227
EXPERIMENTAL - MD 99-0687-3RR	46.7	10-19	3.5	38	2.7	3847
CLARKS - CL54RR	46.0	10-24	3.5	39	1.3	3564
S.STATES - RT 5130N	33.7	10-26	3.5	41	1.2	2841
Mean	**47.5**	**-**	**3.4**	**40**	**1.5**	**3525**
LSD (0.20)	**NS**	**-**	**0.2**	**2**	**0.5**	**276**
CV (%)	**16.7**					

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

*Seed Quality Score:1=excellent (no moldy, cracked, or wrinkled seeds), to 5=poor

Table 15. Relative yields of Roundup Ready soybean varieties compared to the mean of all varieties in that maturity group at each location in 2005.

BRAND - ENTRY	Keedys-ville	Queenstown FS	Queenstown DC	Quantico FS	Quantico DC
MATURITY GROUP III		**Relative Yield, % of Mean**			
ASGROW - AG 3802	104*	101	113*	99	109*
ASGROW - AG 3905	106*	99	108*	101	108*
GARST - 3624RR/N	103*	109*	106	100	89
GARST - 3712RR/N	100	106*	105	99	101
GARST - 3960RR/N	98	93	96	91	94
HISOY - XP2538	100	105*	98	108*	103
HISOY - 395NRR	105*	101	97	101	100
NK - S37-N4	100	99	90	99	94
SCHILLINGER - 396.RC	100	108*	110*	104*	106
S.STATES - RT 2800	91	101	91	100	96
S.STATES - RT 3251N	94	93	92	98	88
S.STATES - RT 3551N	105*	103*	106	103*	102
S.STATES - RT 3802N	88	84	88	89	87
S.STATES - RT 3851N	96	100	97	96	99
S.STATES - RT 3951N	109*	99	102	105*	105
TA SEEDS - TS 3659R	102*	101	95	102	103
TA SEEDS - TS 3999R	95	93	99	100	94
USG - 7393nRR	95	96	100	100	114*
VIGORO - V36N5RR	109*	109*	105	107*	99
VIGORO - V39N4RR	94	100	100	98	106
VIGORO - EX831064	104*	99	102	100	102
Location/Group Mean Yield	**57.0**	**56.7**	**59.9**	**60.9**	**55.0**

Table 15. (Continued) Relative Yields - Roundup Ready Soybean Varieties

BRAND - ENTRY	Keedys-ville	Queenstown FS	Queenstown DC	Quantico FS	Quantico DC
MATURITY GROUP IV		**Relative Yield, % of Mean**			
ASGROW - AG 4201	102	95	106*	93	98
ASGROW - AG 4404	100	100	99	101	93
ASGROW - AG 4503	107*	100	106*	103	104
DEKALB - DKB42-51	111*	106	109*	109*	102
D&PL - DP 4331RR	100	105	101*	104	93
HISOY - 432NRR	92	105	108*	99	105
HISOY - HS4228	103	112*	103*	109*	104
EXPERIMENTAL - MD 01-063RR	97	88	96	90	96
EXPERIMENTAL - MD 01-329RR	93	93	103*	99	89
NK - S40-R9	96	97	86	89	102
NK - S43-B1	93	99	94	104	104
PIONEER - 94M30	103	93	100*	106*	96
SCHILLINGER - 426.RC	95	96	96	98	101
S.STATES - RT 4151N	100	119*	105*	98	107
S.STATES - RT 4230N	94	94	89	96	99
S.STATES - RT 4440N	105*	103	96	102	99
S.STATES - RT 4451N	103	105	104*	102	103
S.STATES - RT 4502N	101	87	93	90	92
S.STATES - RT 4551N	98	99	105*	101	103
TA SEEDS - TS 4399R	100	97	101*	98	97
USG - 7415nRR	106*	103	105*	104	107
USG - 7423nRS	102	102	94	102	111*
USG - 7440nRR	99	97	98	97	97
USG - 7443nRR	104	109	102*	102	98
USG - 7455nRR	100	98	98	99	96
VIGORO - V44N6RR	95	98	101*	103	103
Location/Group Mean Yield	**56.4**	**60.1**	**57.8**	**59.8**	**53.2ns**

Table 15. (Continued) Relative Yields - Roundup Ready Soybean Varieties

BRAND - ENTRY	Keedys-ville	Queenstown FS	Queenstown DC	Quantico FS	Quantico DC
MATURITY GROUP IV-S		**Relative Yield, % of Mean**			
ASGROW - AG 4703	116*	98	108*	111*	103*
ASGROW - AG 4801	106	101	112*	110*	102*
ASGROW - AG 4903	106	101	103	103	103*
CLARKS - CL48RR	102	104	106*	92	95
D&PL - DP 4690RR	103	109*	95	98	95
D&PL - DP 4724RR	98	103	94	99	102*
HISOY - 472NRR	102	101	102	105*	94
EXPERIMENTAL - MD 99-1098-2RR	89	99	102	87	94
SCHILLINGER - 465.RC	93	97	96	104	103*
SCHILLINGER - 495.RC	100	108	104	108*	106*
S.STATES - RT 4651N	96	90	94	96	91
S.STATES - RT 4808N	101	93	99	104	106*
S.STATES - RT 4981N	98	98	95	89	95
TA SEEDS - TS 4659R	82	92	101	96	95
USG - 7482nRR	100	102	96	100	100*
USG - 7484nRR	96	104	96	101	102*
USG - 7489RR	105	103	105*	94	102*
USG - 7499nRR	98	92	95	89	101*
VIGORO - V48N5RR	97	98	96	103	106*
VIGORO - V49N6RR	110*	108	103	109*	106*
Location/Group Mean Yield	**55.9**	**56.6ns**	**59.2**	**51.4**	**51.5**
MATURITY GROUP V					
CLARKS - CL54RR	-	96	97	79	97
EXPERIMENTAL - MD 99-0687-3RR	-	86	95	81	98
EXPERIMENTAL - MD 01-206RR	-	109*	106*	109*	103
S.STATES - RT 5130N	-	104*	93	93	71
EXPERIMENTAL - TN 05-547RR	-	98	93	86	101
EXPERIMENTAL - TN 05-548RR	-	100	96	106	102
USG - 510nRR	-	111*	99	112*	99
USG - 7504nRR	-	94	106	97	112
USG - 7505nRR	-	101	112*	123*	114*
USG - 7515nRR	-	98	101	111*	99
VIGORO - V51N6RR	-	104*	100	104	102
Location/Group Mean Yield	**-**	**54.3**	**52.9**	**44.3**	**47.5ns**

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.

Table 16. Two-year average yields of Roundup Ready soybean varieties grown at three Maryland locations, 2004-2005.

BRAND - ENTRY	Keedys-ville	Queenstown FS	Queenstown DC	Quantico FS	Quantico DC
MATURITY GROUP III		**Seed Yield, Bu/A**			
ASGROW - AG3905	53.9	58.8	59.2	62.9	59.1
NK - S37-N4	54.9	57.1	47.8	59.0	51.5
S.STATES - RT 3802N	47.0	51.5	48.0	57.2	48.8
T.A.SEEDS - TS3999R	51.2	59.6	56.0	63.3	54.5
USG - 7393nRR	54.0	59.6	55.5	60.3	58.4
VIGORO - V39N4RR	53.7	59.9	54.7	59.8	57.3
MATURITY GROUP IV					
ASGROW - AG4201	52.7	59.8	54.6	62.5	53.5
D&PL - DP4331RR	55.7	63.8	56.0	66.1	55.3
HISOY - 432NRR	49.5	62.3	57.3	66.8	57.4
NK - S40-R9	52.5	58.7	45.6	60.8	55.7
NK - S43-B1	51.7	60.9	54.2	64.7	55.9
S.STATES - RT 4230N	47.6	58.0	51.2	64.9	55.6
S.STATES - RT 4440N	51.1	60.5	54.0	67.4	55.0
S.STATES - RT 4502N	52.9	53.5	49.8	58.7	51.0
USG - 7423nRS	56.7	65.1	52.9	69.2	59.9
USG - 7440nRR	54.4	59.6	53.6	65.3	55.9
USG - 7443nRR	57.0	67.0	54.7	67.1	55.7
MATURITY GROUP IV-S					
ASGROW - AG4801	54.5	69.9	58.6	61.5	55.8
ASGROW - AG4903	53.2	71.2	56.7	60.1	53.4
CLARKS - CL48RR	52.1	70.5	55.6	55.6	49.8
D&PL - DP4724RR	54.0	66.7	51.6	54.2	51.8
HISOY - 472NRR	53.0	70.7	53.0	59.2	49.6
EXPERIMENTAL-MD 99-1098-2RR	49.3	65.8	56.7	55.9	50.0
SCHILLINGER - 465.RC	51.0	72.0	53.6	58.8	51.1
SCHILLINGER - 495.RC	53.5	70.4	56.6	64.5	55.5
USG - 7482nRR	52.1	66.7	52.3	58.2	53.6
USG - 7484nRR	51.4	70.7	51.2	58.6	51.4
USG - 7489RR	52.8	67.0	56.5	56.4	52.6
USG - 7499nRR	53.7	62.7	50.1	53.1	51.8
VIGORO - V48N5RR	49.0	68.7	55.0	62.1	53.3
MATURITY GROUP V					
EXPERIMENTAL-MD 99-687-3RR	-	48.7	47.3	50.1	48.1
S.STATES - RT 5130N	-	52.5	42.9	51.2	38.6
USG - 510nRR	-	56.4	48.8	56.6	47.3
USG - 7504nRR	-	52.5	51.5	55.7	52.1
VIGORO - V51N6RR	-	54.2	47.6	53.1	52.9

FS=Full Season, DC=Double Crop