



Information

Agronomy Facts No. 32

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2004 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 2004 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 varieties IA 3017, IA 3018, IA 3019, and IA 3023 from Iowa; Ozark from Arkansas; and Teejay from Virginia and experimental lines from Maryland (MD 96-5275, MD 96-5722, MD 97-6491, MD 99-173-11, MD 99-5433-6, MD 99-5458-18, MD 99-5464-12, MD 99-6226, MD 99-6701-9, MD 99-0687-3RR, MD 99-1098-2RR, MD 99-1353-2RR, MD 99-1411-1RR, MD 00-5020, MD 00-5024, MD 00-5326, MD 00-6015, MD 00-6599, MD 00-6605, MD 00-6612, and MD 01-273RR) and Virginia (V 98-2711) were included in the 2004 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. Seed protein and oil content were determined on a seed sample of each entry at all locations. Equal amounts of seed from each of the three test plots at a location were combined and used for analysis. Composition data on each sample were determined by an Infratec model 1255 Feed and Food Analyzer, which reports percent protein and oil on a dry-weight basis.

In general, the 2004 growing season was very good across the state. Rainfall was adequate and distributed throughout the season in most areas of the state. Monthly rainfall amounts for May through October for the test locations are shown in Table 3. October was the driest month at these test locations except for Keedysville where less than 2 inches of rain fell in the month of August resulting in lower yields at this location. There was scattered light frost across the state on October 6 but it did not have a major impact on the yield tests.

Results of the 2004 tests are reported in Tables 4-7 for the standard varieties and in Tables 10-15 for the Roundup Ready varieties. In each of these tables, varieties within maturity groups are listed in

order of yield, highest to lowest. The highest overall test location mean yields were at Quantico for the Roundup Ready and the standard 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 16 summarize the relative yields of the standard and Roundup Ready varieties, respectively, by expressing their yields as a percent 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 16, 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 17, respectively. The multiple-year data provide additional information on a variety's yielding ability. Seed composition data are summarized for the standard and Roundup Ready varieties in Tables 18-21. 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 from the Department's webpage:

<http://www.nrsl.umd.edu/extension/crops/>

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Table 1. Suppliers of private varieties tested in 2004.

Supplier	Brand	Herbicide Reaction	Entry
Clark Seeds, Inc. Kenton, DE 19955	CLARKS	Roundup Ready	CL48RR, CL482NRR
Delta & Pine Land Co. Piedmont, AL 36272	D&PL	Roundup Ready	DP4331RR, DP4546RR, DP4724RR
Doeblers PA Hybrids, Inc. Jersey Shore, PA 17740	DOEBLERS	Roundup Ready	4236RR, 4435RR
FS Seeds- East Warners, NY 13164	HISOY SCHILLINGER	Roundup Ready "	371NRR, 432NRR, 472NRR 393.RCP, 415.RCP, 465.RC, 495.RC
Monsanto St.Louis, MO 63167	ASGROW DEKALB	Roundup Ready " "	AG3905, AG4201, AG4502, AG4603, AG4801, AG4903 DKB46-51
Royster-Clark, Inc. Collinsville, IL 62234	VIGORO	Roundup Ready " Standard	V38N4RR, V38N5RS, V39N4RR, V47N3RR, V48N5RR, EX650024 V435 SCN
Seedway Inc. Emmaus, PA 18049	SEEDWAY	Roundup Ready	SG3640, SG3705, SG3905, SG4460
Southern States Cooperative, Inc. Richmond, VA 23260	S. STATES	Roundup Ready " " "	RT3550N, RT3802N, RT3850N, RT3940N, RT3975, RT4098, RT4230N, RT4440N, RT4502N, RT4810N, RT4980, RT5001N, RT5130N
Syngenta Seeds Landisville, PA 17538	NK	Roundup Ready	S37-N4, S40-R9, S43-B1
T.A. Seeds Avis, PA 17721	TA SEEDS	Roundup Ready	TS3999R, TS4159R
UniSouth Genetics, Inc. Nashville, TN 37211	USG	Roundup Ready " " Standard	7393nRR, 7403nRR, 7423nRS, 7440nRR, 7443nRR, 7482nRR, 7484nRR, 7499nRR, 510nRR, 7504nRR, 7514nRR, 7489RR 5002T, 5601T

Table 2. The 2004 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 3
Row Spacing: 24 inches
Soil Type: Hagerstown silt loam
Soil Test: pH 6.8, P level- Medium, K level- Good
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 1 qt/A Activator Plus on May 24 & 1 qt/A on June 24
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 3
Row Spacing: 24 inches
Soil Type: Delanco silt loam
Soil Test: pH 6.7, P Index- Optimum, K Index- Optimum
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 1 qt/A Roundup + 1 pt/A Surfactant on July 16.
Plots: 4 rows, 20 feet long
Seeding Rate: 6.5 seeds/foot
Tillage: Conventional

Tests: Standard Varieties Maturity Groups III,IV, and IV-S
Planting Date: June 3
Row Spacing: 24 inches
Soil Type: Delanco silt loam
Soil Test: pH 6.7, P Index- Optimum, K Index- Optimum
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 6 oz/A Canopy XL + 16 oz/A Outlook 6.0
Plots: 4 rows, 20 feet long
Seeding Rate: 6.5 seeds/foot
Tillage: Conventional

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: May 25
Row Spacing: 24 inches
Soil Type: Matapeake silt loam
Soil Test: pH 6.6, P Index- Excessive, K Index- Optimum
Previous Crop: Wheat/Double-cropped soybeans
Fertilizer: None
Lime: None
Herbicide: Post emergence:1.5 pt/A Blazer, 1.5 pt/A Basagran,10 oz/A Fusion
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 24
Row Spacing: 24 inches
Soil Type: Matapeake silt loam
Soil Test: pH 6.1, P Index- Excessive, K Index- Optimum
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 1.5 qt/A Heleosate Plus on August 10
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: June 22
Row Spacing: 7.5 inches
Soil Type: Matapeake silt loam
Soil Test: pH 6.4, P Index- Excessive, K Index- Optimum
Previous Crop: Wheat
Fertilizer: None
Lime: None
Herbicide: 1.5 qt/A Heleosate Plus on July 22
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: May 20
Row Spacing: 24 inches
Soil Type: Mattapex silt loam
Soil Test: pH 6.1, P Index- Optimum, K Index- Medium
Previous Crop: Soybeans
Fertilizer: 250 lbs/A of 0-16-36
Lime: None
Herbicide: Preemergence:1.5 pt/A Dual 8E, 13 oz/A Lorox DF, 3 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: May 21
Row Spacing: 20 inches
Soil Type: Mattapex silt loam
Soil Test: pH 6.4, P Index- Excessive, K Index- Excessive
Previous Crop: No-tillage corn
Fertilizer: 200 lbs/A of 0-15-30
Lime: None
Herbicide: Early preemergence: 1 qt/A Roundup Ultra, 12 oz/A 2,4-D, 1pt/A Dual 8E
Post emergence: 1 qt/A Roundup Ultra on June 27
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 21
Row Spacing: 15 inches
Soil Type: Mattapex silt loam
Soil Test: pH 6.3, P Index- Optimum, K Index- High
Previous Crop: Winter barley
Fertilizer: None on soybeans
Lime: None on soybeans
Herbicide: Preemergence: 1.5 pt/A Roundup Ultra, 1.6 pt/A Dual 8E, 5oz/A Canopy, 8oz/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

LOWER EASTERN SHORE RESEARCH AND 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 21
Row Spacing:	15 inches
Soil Type:	Mattapex silt loam
Soil Test:	pH 6.3, P Index- Optimum, K Index- High
Previous Crop:	Winter barley
Fertilizer:	None on soybeans
Lime:	None on soybeans
Herbicide:	Preemergence: 1 qt/A Roundup Ultra Post emergence: 1 qt/A Roundup Ultra on July 24
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	4.74	No record	4.71	1.87	7.64	2.06	21.02+
Clarksville	2.84	2.59	4.91	4.42	3.54	1.18	19.48
Queenstown	3.68	2.74	7.53	4.27	3.66	1.63	23.51
Quantico	2.01	1.89	7.80	6.54	2.98	0.69	21.91

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						
PUBLIC - IA 3023	64.1	10-02	3.5	31	1.5	2541
PUBLIC - MACON	61.2	10-06	3.5	32	1.2	2308
PUBLIC - GENERAL	58.7	10-01	3.2	32	1.3	2502
PUBLIC - APEX	58.4	10-02	3.5	21	1.7	3072
PUBLIC - IA 3019	57.5	10-05	3.3	30	2.0	2679
PUBLIC - IA 3018	56.2	09-30	3.8	34	1.5	2759
PUBLIC - IA 3017	55.8	09-30	3.8	32	2.0	2688
Mean	58.9	-	3.5	30	1.6	2650
LSD (0.20)	2.9	-	0.3	3	0.3	121
CV (%)	4.4					
MATURITY GROUP IV						
PUBLIC - HS 93-4118	63.0	10-05	3.7	32	1.5	2798
PUBLIC - LN 97-15076	61.8	10-08	3.3	36	1.5	2624
EXPERIMENTAL - MD 96-5722	61.0	10-07	3.5	39	1.5	2546
PUBLIC - CORSICA	60.5	10-03	3.5	33	1.5	2530
VIGORO - V435 SCN	59.5	10-06	3.3	35	1.3	3005
PUBLIC - STRESSLAND	55.7	10-08	3.8	37	1.3	3233
EXPERIMENTAL - MD 99-173-11	46.3	10-10	4.3	40	1.8	3143
Mean	58.2	-	3.6	36	1.5	2840
LSD (0.20)	4.4	-	0.3	2	0.2	106
CV (%)	6.9					
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 00-5326	60.3	10-16	3.2	40	1.0	2812
PUBLIC - KS 4602N	58.0	10-10	3.2	38	1.2	2761
PUBLIC - MANOKIN	57.4	10-19	3.7	35	1.5	3136
EXPERIMENTAL - MD 00-5024	57.2	10-20	3.3	41	1.0	2813
EXPERIMENTAL - MD 97-6491	57.0	10-11	3.3	40	1.2	2660
EXPERIMENTAL - MD 00-6605	56.6	10-15	3.8	43	1.2	3105
PUBLIC - MD 4900	54.3	10-18	3.8	28	1.2	2971
USG - 5002T	52.3	10-19	4.0	35	1.0	2940
EXPERIMENTAL - MD 00-6599	51.3	10-15	3.8	40	1.5	2883
EXPERIMENTAL - MD 96-5275	49.8	10-20	3.8	33	1.2	3256
EXPERIMENTAL - MD 00-6612	48.8	10-14	4.2	36	1.3	3103
EXPERIMENTAL - MD 00-5020	48.5	10-14	4.0	36	1.0	3392
Mean	54.3	-	3.7	37	1.2	2986
LSD (0.20)	5.8	-	0.3	2	0.2	94
CV (%)	9.9					

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

*Seed Quality: 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						
PUBLIC - IA 3018	67.3	09-24	3.3	33	1.2	2878
PUBLIC - GENERAL	66.9	09-24	1.7	30	1.0	2716
PUBLIC - IA 3019	65.2	09-24	1.8	29	1.3	2959
PUBLIC - IA 3023	64.6	09-19	2.3	30	1.0	3038
PUBLIC - IA 3017	62.8	09-17	1.8	27	1.8	2940
PUBLIC - MACON	61.1	09-24	2.2	30	1.2	2719
PUBLIC - APEX	55.8	09-22	1.0	15	1.7	3339
Mean	63.4	-	2.0	28	1.3	2941
LSD (0.20)	5.3	-	0.4	2	0.3	130
CV (%)	7.6					
MATURITY GROUP IV						
PUBLIC - HS 93-4118	67.9	09-27	2.8	34	1.5	2933
PUBLIC - LN 97-15076	62.1	09-28	2.7	36	1.5	2758
PUBLIC - CORSICA	61.5	09-25	2.5	35	1.5	2653
PUBLIC - STRESSLAND	58.2	09-28	3.5	38	1.2	3196
VIGORO - V435 SCN	56.9	09-28	2.7	35	1.0	2973
EXPERIMENTAL - MD 96-5722	56.4	09-28	2.7	37	1.7	2581
EXPERIMENTAL - MD 99-173-11	46.7	10-02	3.7	37	2.7	3121
Mean	58.5	-	2.9	36	1.6	2888
LSD (0.20)	4.4	-	0.4	2	0.3	97
CV (%)	6.9					
MATURITY GROUP IV-S						
USG - 5002T	58.5	10-12	3.5	31	1.5	3132
EXPERIMENTAL - MD 00-5326	57.6	10-12	3.5	43	1.0	3296
EXPERIMENTAL - MD 97-6491	56.5	10-04	2.7	34	1.5	2824
PUBLIC - KS 4602N	54.6	10-06	2.7	36	1.5	2896
PUBLIC - MD 4900	52.7	10-09	2.2	27	1.3	3360
EXPERIMENTAL - MD 00-5020	50.7	10-08	2.8	31	1.5	3678
EXPERIMENTAL - MD 96-5275	49.8	10-06	2.8	29	1.2	3782
EXPERIMENTAL - MD 00-5024	46.4	10-10	3.7	38	1.0	3124
EXPERIMENTAL - MD 00-6605	46.1	10-09	3.7	43	1.8	3473
PUBLIC - MANOKIN	45.7	10-09	3.5	37	1.5	3658
EXPERIMENTAL - MD 00-6599	44.3	10-09	3.5	39	2.5	3073
EXPERIMENTAL - MD 00-6612	43.9	10-11	3.5	42	1.5	3256
Mean	50.6	-	3.2	36	1.5	3296
LSD (0.20)	3.7	-	0.4	2	0.2	108
CV (%)	6.8					

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						
EXPERIMENTAL - V98-2711	60.1	10-13	3.5	29	1.0	3557
PUBLIC - TEEJAY	59.2	10-12	3.2	31	1.0	3206
USG - 5601T	59.1	10-19	3.5	36	1.0	3599
EXPERIMENTAL - MD 00-6015	58.0	10-09	1.8	22	1.3	3302
EXPERIMENTAL - MD 99-6226	55.7	10-09	2.7	29	1.0	3219
PUBLIC - ESSEX	54.0	10-06	2.0	25	1.0	3791
PUBLIC - HUTCHESON	53.9	10-12	2.8	30	1.0	3139
PUBLIC - OZARK	53.1	10-15	3.5	32	1.0	3034
PUBLIC - HOLLADAY	52.2	10-06	1.7	25	1.2	3576
PUBLIC - KS 5502N	44.8	10-19	3.0	29	1.0	4004
EXPERIMENTAL - MD 99-5464-12	42.6	10-12	3.3	28	1.7	3100
EXPERIMENTAL - MD 99-5458-18	42.6	10-10	2.3	27	1.5	3330
EXPERIMENTAL - MD 99-5433-6	41.5	10-10	2.5	23	1.7	3159
EXPERIMENTAL - MD 99-6701-9	41.5	10-10	2.7	23	1.8	3391
Mean	51.3	-	2.8	28	1.2	3386
LSD (0.20)	5.0	-	0.6	2	0.2	159
CV (%)	9.0					

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

*Seed Quality: 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						
PUBLIC - GENERAL	57.5	09-28	2.0	27	2.2	2689
PUBLIC - MACON	57.2	09-29	1.8	27	2.0	2540
PUBLIC - IA 3018	53.9	09-25	2.3	28	2.0	2867
PUBLIC - IA 3019	52.6	09-27	1.5	25	2.5	2869
PUBLIC - APEX	49.9	09-26	1.0	15	3.2	2843
PUBLIC - IA 3023	46.6	09-24	2.2	25	2.2	3029
PUBLIC - IA 3017	44.7	09-20	1.8	23	2.2	2914
Mean	51.8	-	1.8	24	2.3	2821
LSD (0.20)	4.1	-	0.2	2	0.3	123
CV (%)	7.2					
MATURITY GROUP IV						
EXPERIMENTAL - MD 96-5722	68.3	09-28	1.7	29	2.2	2480
PUBLIC - LN 97-15076	63.1	09-30	1.7	31	2.0	2654
PUBLIC - STRESSLAND	61.9	09-30	2.5	32	1.3	3483
PUBLIC - HS 93-4118	61.6	09-29	1.5	29	2.0	2792
VIGORO - V435 SCN	59.2	09-30	1.5	29	1.0	2823
PUBLIC - CORSICA	53.8	09-26	1.5	26	2.0	2632
EXPERIMENTAL - MD 99-173-11	47.8	10-01	3.5	31	3.0	3239
Mean	59.4	-	2.0	30	1.9	2872
LSD (0.20)	4.6	-	0.3	2	0.2	115
CV (%)	6.9					
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 00-5326	68.8	10-13	2.3	38	1.0	2875
PUBLIC - MD 4900	65.3	10-12	1.8	24	1.2	3321
USG - 5002T	63.2	10-12	2.0	25	1.0	3153
PUBLIC - MANOKIN	62.8	10-11	2.0	29	1.2	3583
EXPERIMENTAL - MD 97-6491	62.2	10-07	1.7	31	1.8	2549
EXPERIMENTAL - MD 96-5275	58.7	10-12	2.0	30	1.2	3481
EXPERIMENTAL - MD 00-5024	57.8	10-13	2.8	39	1.0	3133
EXPERIMENTAL - MD 00-5020	57.0	10-11	1.7	25	1.3	3721
PUBLIC - KS 4602N	55.7	10-07	2.0	30	1.3	2805
EXPERIMENTAL - MD 00-6612	50.6	10-12	2.5	32	1.7	3397
EXPERIMENTAL - MD 00-6605	50.4	10-12	3.2	32	1.8	3517
EXPERIMENTAL - MD 00-6599	49.2	10-13	2.7	33	2.5	2960
Mean	58.5	-	2.2	31	1.4	3208
LSD (0.20)	3.4	-	0.3	2	0.3	96
CV (%)	5.4					

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						
PUBLIC - HOLLADAY	71.1	10-12	1.3	21	1.2	3464
PUBLIC - TEEJAY	69.8	10-17	2.0	29	1.0	3196
EXPERIMENTAL - V98-2711	69.8	10-17	2.0	25	1.0	3457
PUBLIC - OZARK	68.7	10-19	2.5	28	1.0	3173
EXPERIMENTAL - MD 99-6226	68.5	10-14	2.2	28	1.0	3210
EXPERIMENTAL - MD 00-6015	68.3	10-11	1.5	23	1.3	3307
PUBLIC - ESSEX	67.8	10-12	1.7	24	1.0	3623
PUBLIC - HUTCHESON	67.6	10-17	2.0	31	1.0	3093
USG - 5601T	66.7	10-22	3.0	32	1.0	3483
PUBLIC - KS 5502N	61.7	10-22	2.3	27	1.0	3866
EXPERIMENTAL - MD 99-5464-12	59.6	10-15	1.8	22	1.2	3244
EXPERIMENTAL - MD 99-5458-18	56.2	10-14	1.7	23	1.0	3669
EXPERIMENTAL - MD 99-6701-9	54.2	10-15	1.8	24	1.3	3210
EXPERIMENTAL - MD 99-5433-6	49.2	10-14	1.7	21	1.7	3130
Mean	64.2	-	2.0	26	1.1	3366
LSD (0.20)	4.7	-	0.4	2	0.2	97
CV (%)	6.9					

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

*Seed Quality: 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						
PUBLIC - IA 3023	60.3	10-14	2.7	24	1.5	3011
PUBLIC - APEX	60.0	10-12	1.7	22	1.8	3058
PUBLIC - IA 3019	59.2	10-14	1.8	25	1.7	2884
PUBLIC - MACON	57.6	10-16	2.7	29	1.5	2568
PUBLIC - IA 3017	57.3	10-13	2.7	28	2.0	2750
PUBLIC - GENERAL	56.9	10-14	2.0	27	1.5	2645
PUBLIC - IA 3018	55.9	10-14	3.5	27	1.3	2871
Mean	58.2	-	2.4	26	1.6	2827
LSD (0.20)	NS	-	0.3	1	0.2	72
CV (%)	7.9					
MATURITY GROUP IV						
PUBLIC - HS 93-4118	63.3	10-18	3.5	31	1.7	2773
EXPERIMENTAL - MD 96-5722	61.2	10-22	3.0	32	1.7	2412
PUBLIC - CORSICA	60.2	10-18	3.0	28	1.5	2679
VIGORO - V435 SCN	60.0	10-22	3.2	31	1.0	2849
PUBLIC - LN 97-15076	59.1	10-20	2.7	30	1.5	2610
PUBLIC - STRESSLAND	57.1	10-22	3.3	35	1.5	2866
EXPERIMENTAL - MD 99-173-11	50.4	10-20	4.0	34	2.0	2993
Mean	58.8	-	3.2	32	1.5	2740
LSD (0.20)	NS	-	0.3	2	0.2	136
CV (%)	10.1					
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 00-5326	64.3	10-27	2.8	35	1.0	2923
PUBLIC - MANOKIN	60.4	10-27	3.5	35	1.0	3412
PUBLIC - KS 4602N	56.7	10-26	2.5	31	1.0	2736
EXPERIMENTAL - MD 97-6491	56.1	10-22	2.3	32	1.0	2738
USG - 5002T	55.2	10-29	3.5	32	1.0	3006
EXPERIMENTAL - MD 00-5020	55.2	10-26	2.8	29	1.0	3466
EXPERIMENTAL - MD 00-5024	53.5	10-29	3.0	35	1.0	2904
PUBLIC - MD 4900	52.9	10-29	3.2	28	1.0	2928
EXPERIMENTAL - MD 00-6605	52.7	10-28	3.0	35	1.5	3256
EXPERIMENTAL - MD 00-6612	52.0	10-28	3.0	34	1.0	3157
EXPERIMENTAL - MD 96-5275	51.5	10-28	3.2	29	1.0	3243
EXPERIMENTAL - MD 00-6599	43.9	10-29	3.2	35	1.5	3076
Mean	54.5	-	3.0	33	1.1	3070
LSD (0.20)	6.0	-	0.2	2	NS	107
CV (%)	10.2					

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	61.4	11-02	3.5	34	1.0	2617
PUBLIC - HOLLADAY	60.0	10-29	3.5	31	1.2	2897
EXPERIMENTAL - MD 00-6015	52.2	10-31	3.2	27	1.0	2784
PUBLIC - HUTCHESON	50.3	11-03	3.7	37	1.0	2707
EXPERIMENTAL - V98-2711	48.0	11-02	4.0	33	1.0	3240
EXPERIMENTAL - MD 99-5464-12	44.9	10-29	3.5	32	1.0	3266
PUBLIC - ESSEX	43.6	10-29	3.7	32	1.0	3038
USG - 5601T	42.5	11-03	3.5	36	1.0	3212
PUBLIC - OZARK	42.4	11-03	3.5	36	1.0	2984
PUBLIC - KS 5502N	41.5	11-03	3.8	33	1.0	3639
PUBLIC - TEEJAY	41.3	11-03	3.5	32	1.0	2733
EXPERIMENTAL - MD 99-5433-6	39.1	10-28	3.5	30	1.5	3129
EXPERIMENTAL - MD 99-6701-9	37.7	10-28	4.0	30	1.0	3202
EXPERIMENTAL - MD 99-5458-18	29.9	10-29	3.5	29	1.2	3179
Mean	45.3	-	3.6	32	1.1	3045
LSD (0.20)	7.9	-	NS	3	0.1	92
CV (%)	16.3					

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

*Seed Quality: 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 2004.

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III				
	Relative Yield, % of Mean			
PUBLIC - APEX	99	88	96	103
PUBLIC - GENERAL	100	106*	111*	98
PUBLIC - IA 3023	109*	102*	90	104*
PUBLIC - IA 3017	95	99*	86	98
PUBLIC - IA 3018	95	106*	104*	96
PUBLIC - IA 3019	98	103*	102	102
PUBLIC - MACON	104	96	110*	99
Location/Group Mean Yield	58.9	63.4	51.8	58.2
MATURITY GROUP IV				
PUBLIC - CORSICA	104*	105	91	102
PUBLIC - HS 93-4118	108*	116*	104	108*
PUBLIC - LN 97-15076	106*	106	106	101
EXPERIMENTAL - MD 96-5722	104*	96	115*	104
EXPERIMENTAL - MD 99-173-11	80	80	80	86
VIGORO - V435 SCN	102*	97	100	102
PUBLIC - STRESSLAND	96	99	104	97
Location/Group Mean Yield	58.2	58.5	59.4	58.8
MATURITY GROUP IV-S				
PUBLIC - KS 4602N	107*	108	95	104
PUBLIC - MANOKIN	106*	90	107	111*
PUBLIC - MD 4900	100	104	112	97
EXPERIMENTAL - MD 96-5275	92	98	100	95
EXPERIMENTAL - MD 97-6491	105*	112*	106	103
EXPERIMENTAL - MD 00-5020	89	100	97	101
EXPERIMENTAL - MD 00-5024	105*	92	99	98
EXPERIMENTAL - MD 00-5326	111*	114*	118*	118*
EXPERIMENTAL - MD 00-6599	95	88	84	80
EXPERIMENTAL - MD 00-6605	104*	91	86	97
EXPERIMENTAL - MD 00-6612	90	87	86	95
USG - 5002T	96	116*	108	101
Location/Group Mean Yield	54.3	50.6	58.5	54.5

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

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP V		Relative Yield, % of Mean		
PUBLIC - ESSEX	-	105	106*	96
PUBLIC - HOLLADAY	-	102	111*	132*
PUBLIC - HUTCHESON	-	105	105*	111
PUBLIC - KS 5502N	-	87	96	92
EXPERIMENTAL - MD 99-5433-6	-	81	77	86
EXPERIMENTAL - MD 99-5458-18	-	83	88	66
EXPERIMENTAL - MD 99-5464-12	-	83	93	99
EXPERIMENTAL - MD 99-6701-9	-	81	84	83
EXPERIMENTAL - MD 99-6226	-	109*	107*	135*
EXPERIMENTAL - MD 00-6015	-	113*	106*	115
PUBLIC - OZARK	-	104	107*	94
PUBLIC - TEEJAY	-	115*	109*	91
USG - 5601T	-	115*	104*	94
EXPERIMENTAL - V98-2711	-	117*	109*	106
Location/Group Mean Yield	-	51.3	64.2	45.3

*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, 2003-2004.

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III		Seed Yield, Bu/A		
PUBLIC - APEX	51.4	45.4	45.7	54.8
PUBLIC - GENERAL	51.2	55.9	49.2	50.5
PUBLIC - IA 3023	47.9	48.9	40.0	52.6
PUBLIC - MACON	51.7	52.0	47.7	51.1
MATURITY GROUP IV				
PUBLIC - CORSICA	49.7	49.7	49.0	55.2
PUBLIC - HS 93-4118	54.4	53.7	52.6	55.3
PUBLIC - LN 97-15076	55.3	51.7	53.0	52.4
EXPERIMENTAL - MD 96-5722	56.8	52.1	57.1	58.3
PUBLIC - STRESSLAND	47.0	51.2	53.0	56.2
MATURITY GROUP IV-S				
PUBLIC - KS 4602N	51.1	48.4	50.6	52.5
PUBLIC - MANOKIN	46.0	44.1	54.9	51.1
PUBLIC - MD 4900	48.6	49.7	56.1	50.8
EXPERIMENTAL - MD 96-5275	44.2	45.9	53.5	44.3
EXPERIMENTAL - MD 97-6491	51.0	50.8	53.6	49.5
EXPERIMENTAL - MD 00-6599	41.9	41.9	42.8	41.3
EXPERIMENTAL - MD 00-6605	44.8	39.9	44.1	48.2
EXPERIMENTAL - MD 00-6612	40.5	41.1	45.6	47.4
USG - 5002T	-	53.0	57.5	50.3
MATURITY GROUP V				
PUBLIC - ESSEX	-	47.4	59.6	44.8
PUBLIC - HOLLADAY	-	47.4	59.5	52.2
PUBLIC - HUTCHESON	-	48.3	58.3	44.8
PUBLIC - KS 5502N	-	43.9	54.1	40.7
EXPERIMENTAL - MD 99-6226	-	52.8	60.2	53.1
PUBLIC - TEEJAY	-	49.9	60.2	42.0
USG - 5601T	-	51.2	58.9	42.0

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						
S.STATES - RT 3550N	54.9	-	2.5	33	1.5	3237
HISOY - 371NRR	54.1	-	1.3	34	1.3	3723
USG - 7393nRR	53.8	-	2.2	32	1.0	2776
VIGORO - V39N4RR	53.6	-	2.2	33	1.2	2862
NK - S37-N4	52.7	-	2.2	36	1.3	3654
VIGORO - V38N5RS	52.0	-	1.8	28	1.0	3914
S.STATES - RT 3975	51.4	-	2.5	35	1.0	3376
SEEDWAY - SG 3705	51.4	-	1.5	28	1.5	3915
S.STATES - RT 3940N	51.1	-	2.3	32	1.2	2780
VIGORO - V38N4RR	50.1	-	2.3	32	1.2	3187
SCHILLINGER - 393.RCP	49.1	-	2.3	34	1.0	3225
SEEDWAY - SG 3905	49.0	-	1.7	30	1.3	2856
TA SEEDS - TS 3999R	47.9	-	1.3	29	1.3	3318
ASGROW - AG3905	47.1	-	1.7	33	1.5	3119
SEEDWAY - SG 3640	46.3	-	1.5	29	1.5	3571
S.STATES - RT 3802N	43.9	-	2.8	38	1.2	4185
S.STATES - RT 3850N	40.0	-	1.0	25	1.0	3403
Mean	49.9	-	2.0	32	1.2	3359
LSD (0.20)	5.0	-	0.6	3	0.2	177
CV (%)	9.4					
MATURITY GROUP IV						
USG - 7423nRS	56.2	-	1.3	33	1.5	2595
USG - 7443nRR	55.3	-	1.8	36	1.0	3502
D&PL - DP4331RR	54.9	-	2.0	35	1.0	3688
TA SEEDS - TS 4159R	53.7	-	1.3	30	1.0	2987
USG - 7440nRR	53.2	-	2.0	35	1.0	3706
DOEBLERS - 4236RR	52.4	-	1.5	30	1.7	3109
NK - S40-R9	50.9	-	2.3	36	1.2	3371
NK - S43-B1	50.8	-	1.8	32	1.2	3540
SEEDWAY - SG 4460	50.5	-	2.2	37	1.0	3491
S.STATES - RT 4098	50.1	-	2.2	35	1.2	3539
ASGROW - AG4502	49.2	-	1.8	32	1.2	3236
S.STATES - RT 4502N	49.1	-	2.5	38	1.0	3447
ASGROW - AG4201	47.7	-	2.2	34	1.2	3525
HISOY - 432NRR	47.0	-	1.5	33	1.0	3666
DOEBLERS - 4435RR	47.0	-	1.8	35	1.0	3757
SCHILLINGER - 415RCP	45.4	-	1.7	36	1.2	3923
D&PL - DP4546RR	45.1	-	2.5	36	1.2	3061
USG - 7403nRR	44.8	-	1.0	27	1.5	3340
S.STATES - RT 4440N	42.9	-	1.2	31	1.0	3991
S.STATES - RT 4230N	41.9	-	1.0	30	1.5	3544
Mean	49.4	-	1.8	34	1.2	3451
LSD (0.20)	NS	-	NS	4	0.2	277
CV (%)	15.0					

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						
D&PL - DP4724RR	53.0	-	1.8	34	1.0	2849
USG - 7499nRR	52.8	-	2.2	34	1.0	2959
ASGROW - AG4603	51.1	-	1.0	32	1.0	3135
SCHILLINGER - 495.RC	51.0	-	1.5	37	1.0	2965
VIGORO - V47N3RR	50.5	-	1.2	32	1.0	3222
SCHILLINGER - 465.RC	50.0	-	1.0	32	1.0	3187
ASGROW - AG4801	49.9	-	1.0	29	1.0	3137
USG - 7484nRR	49.3	-	2.3	33	1.0	3454
EXPERIMENTAL - MD 99-1098-2RR	48.9	-	1.8	31	1.0	3340
HISOY - 472NRR	48.8	-	1.2	31	1.0	3131
USG - 7482nRR	48.1	-	1.5	32	1.0	3041
DEKALB - DKB46-51	47.8	-	1.0	28	1.0	3484
CLARKS - CL48RR	47.3	-	2.2	35	1.0	3215
ASGROW - AG4903	47.2	-	1.2	34	1.0	3028
USG - 7489RR	47.0	-	2.5	35	1.0	3218
S.STATES - RT 4980	45.3	-	2.2	35	1.2	3336
EXPERIMENTAL - MD 99-1353-2RR	44.3	-	2.5	35	1.0	3394
VIGORO - V48N5RR	43.5	-	1.5	38	1.0	2661
S.STATES - RT 4810N	43.4	-	1.8	34	1.0	3395
CLARKS - CL482NRR	41.9	-	1.7	30	1.0	3311
	Mean	-	1.7	33	1.0	3173
	LSD (0.20)	-	0.3	2	NS	138
	CV (%)	6.8				

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

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

Table 11. Performance of Roundup Ready soybean varieties planted at Clarksville.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP III						
HISOY - 371NRR	66.8	10-02	2.5	39	1.0	3256
TA SEEDS - TS 3999R	61.9	10-08	2.7	35	1.2	2555
SEEDWAY - SG 3705	59.7	10-05	2.3	33	1.0	3080
SEEDWAY - SG 3640	59.6	09-30	3.2	36	1.0	3018
VIGORO - V38N5RS	59.3	10-06	2.3	34	1.0	3122
S.STATES - RT 3850N	59.1	10-06	2.2	35	1.0	2835
S.STATES - RT 3940N	57.0	10-08	3.5	37	1.3	2397
ASGROW - AG3905	56.9	10-10	3.3	38	1.5	2733
SCHILLINGER - 393.RCP	56.7	10-09	3.7	36	1.2	2753
VIGORO - V39N4RR	55.1	10-07	3.7	34	1.0	2409
S.STATES - RT 3550N	55.1	09-30	3.5	39	1.2	2722
USG - 7393nRR	55.0	10-08	3.5	35	1.5	2417
SEEDWAY - SG 3905	54.8	10-06	3.3	36	1.0	2405
VIGORO - V38N4RR	54.4	10-09	3.7	37	1.0	2766
NK - S37-N4	53.7	10-08	3.5	41	1.0	2941
S.STATES - RT 3975	53.4	10-04	3.5	39	1.0	2975
S.STATES - RT 3802N	49.1	10-01	3.3	41	1.2	3319
Mean	56.9	-	3.2	37	1.1	2806
LSD (0.20)	4.0	-	0.4	2	0.2	92
CV (%)	6.6					
MATURITY GROUP IV						
TA SEEDS - TS 4159R	62.4	10-09	2.2	34	1.3	2665
DOEBLERS - 4236RR	60.7	10-06	2.3	34	1.5	2727
USG - 7443nRR	60.0	10-13	2.8	41	1.0	3105
USG - 7403nRR	59.2	10-08	2.2	38	1.3	2827
USG - 7423nRS	58.0	10-08	2.7	37	1.5	2384
S.STATES - RT 4230N	56.8	10-12	3.5	38	1.2	2805
D&PL - DP4331RR	56.8	10-11	3.2	41	1.0	3241
ASGROW - AG4502	56.8	10-13	3.2	37	1.0	2649
S.STATES - RT 4440N	56.1	10-11	3.5	43	1.0	3311
ASGROW - AG4201	55.0	10-11	3.5	41	1.0	2880
SCHILLINGER - 415RCP	54.3	10-10	3.7	46	1.0	3265
HISOY - 432NRR	53.8	10-11	3.3	45	1.0	3219
S.STATES - RT 4098	53.3	10-09	3.3	40	1.0	2903
DOEBLERS - 4435RR	52.9	10-10	3.5	42	1.0	3341
USG - 7440nRR	52.7	10-12	3.5	41	1.0	3345
NK - S43-B1	52.0	10-10	3.7	39	1.0	3120
SEEDWAY - SG 4460	51.8	10-11	3.3	41	1.0	3175
NK - S40-R9	50.0	10-11	4.0	42	1.2	3142
S.STATES - RT 4502N	48.2	10-11	3.5	44	1.0	3187
D&PL - DP4546RR	45.3	10-14	4.0	40	1.0	2948
Mean	54.8	-	3.2	40	1.1	3012
LSD (0.20)	4.6	-	0.3	3	0.1	112
CV (%)	7.9					

Table 11. (Continued) Clarksville - Roundup Ready Soybean Varieties

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
MATURITY GROUP IV-S						
ASGROW - AG4801	62.7	10-13	2.0	39	1.0	2795
DEKALB - DKB46-51	60.8	10-15	3.5	43	1.0	2899
ASGROW - AG4903	60.5	10-13	3.0	42	1.0	3002
USG - 7489RR	59.4	10-12	3.8	44	1.0	2860
CLARKS - CL482NRR	58.9	10-13	3.7	40	1.0	2766
USG - 7499nRR	58.7	10-17	3.3	42	1.0	2785
VIGORO - V47N3RR	58.1	10-15	3.2	39	1.0	2871
S.STATES - RT 4810N	57.9	10-17	3.5	42	1.0	2824
CLARKS - CL48RR	57.3	10-12	3.7	41	1.0	2878
HISOY - 472NRR	57.1	10-14	3.5	39	1.0	2762
USG - 7482nRR	56.5	10-18	3.5	39	1.0	2800
SCHILLINGER - 495.RC	56.2	10-20	3.7	43	1.0	2595
USG - 7484nRR	55.7	10-11	4.0	40	1.0	3138
VIGORO - V48N5RR	55.6	10-17	3.8	42	1.0	2565
SCHILLINGER - 465.RC	55.4	10-18	3.5	41	1.0	2908
S.STATES - RT 4980	55.4	10-12	3.7	43	1.0	2954
D&PL - DP4724RR	55.3	10-15	3.5	40	1.0	2860
ASGROW - AG4603	53.9	10-14	2.7	40	1.0	3019
EXPERIMENTAL - MD 99-1098-2RR	45.4	10-20	3.7	36	1.0	3477
EXPERIMENTAL - MD 99-1353-2RR	41.4	10-20	4.0	34	1.0	3770
Mean	56.1	-	3.5	40	1.0	2927
LSD (0.20)	4.9	-	0.3	2	NS	94
CV (%)	8.2					

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

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

Table 12. 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						
TA SEEDS - TS 3999R	66.3	09-28	2.3	32	1.2	2767
USG - 7393nRR	65.0	09-28	2.8	34	1.5	2500
SEEDWAY - SG 3640	63.6	09-25	1.8	31	1.7	3112
SCHILLINGER - 393.RCP	63.4	09-30	3.3	36	1.5	2901
VIGORO - V39N4RR	63.0	09-27	2.8	33	1.3	2554
S.STATES - RT 3940N	62.8	09-28	3.0	34	1.0	2568
SEEDWAY - SG 3905	62.7	09-27	2.7	33	1.2	2529
S.STATES - RT 3550N	62.6	09-24	3.2	36	1.5	2701
ASGROW - AG3905	61.6	09-27	2.3	35	1.5	2984
VIGORO - V38N4RR	60.9	09-29	3.3	37	1.5	2966
S.STATES - RT 3975	59.6	09-29	3.3	40	1.0	3058
HISOY - 371NRR	58.8	09-24	2.5	33	1.2	3565
NK - S37-N4	58.2	09-26	2.5	34	1.7	3338
S.STATES - RT 3802N	55.3	09-26	3.5	39	1.0	3369
VIGORO - V38N5RS	55.0	09-26	2.5	32	1.5	3632
SEEDWAY - SG 3705	54.9	09-26	2.3	31	1.5	3535
S.STATES - RT 3850N	50.0	09-28	2.5	34	1.0	3207
Mean	60.2	-	2.8	34	1.3	3017
LSD (0.20)	3.5	-	0.4	2	0.2	97
CV (%)	5.4					
MATURITY GROUP IV						
USG - 7423nRS	69.3	10-02	2.0	36	1.2	2397
USG - 7443nRR	68.6	10-03	2.7	36	1.0	3055
DOEBLERS - 4435RR	64.7	10-05	3.3	40	1.0	3411
D&PL - DP4331RR	64.4	10-04	3.0	37	1.0	3397
DOEBLERS - 4236RR	63.6	09-28	2.0	33	1.5	2979
TA SEEDS - TS 4159R	63.6	10-02	2.0	34	1.0	2859
ASGROW - AG4502	63.2	10-04	2.2	36	1.0	2795
ASGROW - AG4201	62.4	10-02	2.8	36	1.5	2999
NK - S43-B1	62.3	09-30	2.7	37	1.5	3264
HISOY - 432NRR	61.8	10-05	3.3	40	1.0	3335
S.STATES - RT 4098	61.6	09-28	3.0	37	1.0	3182
USG - 7440nRR	60.8	10-05	3.5	41	1.0	3304
S.STATES - RT 4230N	59.8	10-02	3.3	35	1.0	2847
USG - 7403nRR	59.3	09-30	2.0	33	1.5	2959
NK - S40-R9	59.3	09-28	3.2	38	1.3	3239
S.STATES - RT 4440N	58.9	10-04	3.3	37	1.0	3438
SCHILLINGER - 415RCP	57.5	09-30	3.3	40	1.0	3553
S.STATES - RT 4502N	54.6	10-02	2.8	44	1.0	3420
D&PL - DP4546RR	54.2	10-05	3.5	40	1.0	2935
SEEDWAY - SG 4460	54.0	10-03	3.5	39	1.0	3564
Mean	61.2	-	2.9	37	1.1	3147
LSD (0.20)	3.0	-	0.3	2	0.1	108
CV (%)	4.6					

Table 12. (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							
SCHILLINGER - 465.RC	89.1	10-07	2.5	37	1.5	3117	
ASGROW - AG4903	85.1	10-09	3.2	39	1.0	3143	
CLARKS - CL482NRR	85.0	10-07	3.5	38	1.2	2796	
HISOY - 472NRR	84.3	10-08	3.5	40	1.3	2853	
DEKALB - DKB46-51	84.3	10-08	3.5	40	1.0	3027	
S.STATES - RT 4810N	83.3	10-10	3.3	39	1.0	3125	
EXPERIMENTAL - MD 99-1353-2RR	83.0	10-11	3.5	34	1.0	3834	
VIGORO - V47N3RR	82.7	10-08	3.3	37	1.0	3137	
ASGROW - AG4801	82.6	10-07	3.2	38	1.5	2776	
S.STATES - RT 4980	82.6	10-08	3.5	40	1.0	3011	
USG - 7484nRR	82.5	10-09	3.7	41	1.0	3264	
CLARKS - CL48RR	82.2	10-09	3.5	40	1.0	2915	
VIGORO - V48N5RR	81.6	10-10	3.2	41	1.3	2525	
SCHILLINGER - 495.RC	79.5	10-11	3.5	40	1.2	2711	
USG - 7489RR	75.8	10-09	3.5	41	1.0	2911	
USG - 7482nRR	75.5	10-09	3.5	41	1.2	2873	
EXPERIMENTAL - MD 99-1098-2RR	75.3	10-11	2.2	28	1.3	3652	
D&PL - DP4724RR	75.2	10-09	3.5	38	1.0	2889	
USG - 7499nRR	73.3	10-10	3.3	40	1.0	3095	
ASGROW - AG4603	66.5	10-07	3.3	38	1.5	2983	
	Mean	80.5	-	3.3	38	1.2	3032
	LSD (0.20)	NS	-	0.2	2	0.2	92
	CV (%)	11.2					
MATURITY GROUP V							
USG - 7504nRR	54.2	10-10	3.5	39	1.5	3079	
USG - 510nRR	52.4	10-15	3.5	37	1.0	3289	
VIGORO - EX650024	52.1	10-20	2.3	35	1.0	3073	
EXPERIMENTAL - MD 99-0687-3RR	50.3	10-13	3.3	36	1.5	3116	
S.STATES - RT 5001N	49.9	10-14	3.5	42	1.0	3172	
USG - 7514nRR	49.1	10-17	3.5	40	1.0	3430	
S.STATES - RT 5130N	48.6	10-14	3.5	39	1.2	2727	
EXPERIMENTAL - MD 99-1411-1RR	47.9	10-19	2.5	34	1.2	4162	
EXPERIMENTAL - MD 01-273RR	44.5	10-16	3.0	31	1.0	3582	
	Mean	49.9	-	3.2	37	1.1	3292
	LSD (0.20)	2.5	-	0.2	3	0.1	87
	CV (%)	4.5					

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

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

Table 13. 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						
SEEDWAY - SG 3640	55.9	10-16	2.8	32	1.2	2878
SEEDWAY - SG 3905	54.4	10-20	3.0	33	1.5	2378
ASGROW - AG3905	53.6	10-19	2.5	34	1.3	2678
TA SEEDS - TS 3999R	53.0	10-16	2.2	31	1.0	2719
USG - 7393nRR	51.2	10-20	2.8	30	1.5	2615
VIGORO - V38N5RS	51.2	10-19	2.3	30	1.2	3575
S.STATES - RT 3550N	50.7	10-17	2.2	27	1.0	2902
HISOY - 371NRR	50.2	10-16	2.5	31	1.0	3531
VIGORO - V39N4RR	49.3	10-18	3.2	33	1.0	2561
VIGORO - V38N4RR	48.2	10-19	2.5	34	1.0	2893
SEEDWAY - SG 3705	47.9	10-16	2.5	30	1.0	3698
SCHILLINGER - 393.RCP	46.5	10-17	3.2	36	1.0	2904
S.STATES - RT 3940N	45.3	10-17	2.7	33	1.2	2648
S.STATES - RT 3850N	44.0	10-17	2.3	31	1.0	3104
S.STATES - RT 3802N	43.6	10-15	3.2	38	1.0	3104
S.STATES - RT 3975	42.8	10-15	2.8	38	1.0	3272
NK - S37-N4	41.9	10-17	2.3	33	1.7	3209
Mean	48.8	-	2.6	33	1.1	2980
LSD (0.20)	4.1	-	0.5	3	0.2	142
CV (%)	7.9					
MATURITY GROUP IV						
ASGROW - AG4502	55.0	10-24	2.2	33	1.0	2738
NK - S43-B1	54.1	10-22	2.2	32	1.2	2956
D&PL - DP4331RR	53.7	10-20	2.3	34	1.0	3363
TA SEEDS - TS 4159R	53.1	10-23	2.0	31	1.0	2668
S.STATES - RT 4440N	52.5	10-23	2.3	32	1.0	3492
HISOY - 432NRR	52.1	10-22	2.5	33	1.0	3313
SCHILLINGER - 415RCP	51.9	10-26	2.7	35	1.0	3256
USG - 7423nRS	51.5	10-25	2.0	25	1.2	2467
DOEBLERS - 4236RR	51.4	10-19	2.0	32	1.5	2836
S.STATES - RT 4230N	50.9	10-22	2.8	34	1.0	2877
USG - 7440nRR	50.7	10-23	2.2	30	1.0	3336
USG - 7443nRR	50.3	10-26	2.8	35	1.0	2972
S.STATES - RT 4098	48.8	10-18	2.5	33	1.0	3226
USG - 7403nRR	48.4	10-21	2.0	29	1.0	2883
ASGROW - AG4201	48.0	10-23	3.0	35	1.0	3018
DOEBLERS - 4435RR	47.8	10-21	2.3	34	1.0	3344
D&PL - DP4546RR	46.8	10-24	3.2	33	1.0	2895
S.STATES - RT 4502N	46.0	10-24	2.5	36	1.0	3296
SEEDWAY - SG 4460	44.1	10-21	2.8	35	1.0	3457
NK - S40-R9	41.8	10-19	2.8	36	1.0	3328
Mean	49.9	-	2.5	33	1.0	3086
LSD (0.20)	3.2	-	0.4	4	0.1	107
CV (%)	6.1					

Table 13. (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						
EXPERIMENTAL - MD 99-1098-2RR	53.1	10-27	3.0	32	1.0	3378
VIGORO - V48N5RR	53.1	10-27	3.0	36	1.0	2413
ASGROW - AG4903	52.5	10-25	2.7	36	1.0	2916
SCHILLINGER - 495.RC	51.6	10-27	2.8	36	1.0	2831
S.STATES - RT 4980	51.3	10-24	3.2	37	1.0	2984
ASGROW - AG4801	51.1	10-24	2.2	35	1.0	2958
S.STATES - RT 4810N	51.1	10-25	3.2	39	1.0	3031
USG - 7489RR	50.8	10-25	3.5	38	1.0	2922
SCHILLINGER - 465.RC	50.3	10-25	2.7	36	1.5	3086
ASGROW - AG4603	50.3	10-25	2.5	37	1.0	3034
CLARKS - CL48RR	48.3	10-24	3.2	36	1.0	2935
VIGORO - V47N3RR	48.3	10-25	2.8	36	1.0	3254
USG - 7482nRR	47.7	10-25	3.2	37	1.0	2878
D&PL - DP4724RR	47.5	10-26	3.5	36	1.0	3007
HISOY - 472NRR	45.8	10-24	3.3	34	1.0	3133
USG - 7484nRR	45.7	10-24	3.3	32	1.0	3145
USG - 7499nRR	44.2	10-26	3.2	36	1.0	3093
CLARKS - CL482NRR	44.0	10-24	3.5	37	1.0	3084
DEKALB - DKB46-51	43.9	10-26	3.0	35	1.2	3226
EXPERIMENTAL - MD 99-1353-2RR	43.7	10-26	3.3	32	1.0	3600
Mean	48.7	-	3.1	36	1.0	3045
LSD (0.20)	4.5	-	0.3	3	0.1	146
CV (%)	8.6					
MATURITY GROUP V						
EXPERIMENTAL - MD 99-1411-1RR	47.4	11-03	3.2	32	1.0	3829
USG - 7504nRR	47.0	11-01	3.5	34	1.0	3099
USG - 510nRR	45.1	11-04	3.2	37	1.0	3137
EXPERIMENTAL - MD 99-0687-3RR	44.2	10-31	3.7	36	1.0	2965
EXPERIMENTAL - MD 01-273RR	42.3	11-03	3.7	33	1.0	3526
VIGORO - EX650024	42.1	11-04	2.8	33	1.0	3145
USG - 7514nRR	41.3	11-04	3.8	37	1.0	3416
S.STATES - RT 5001N	40.4	11-03	3.7	39	1.0	3031
S.STATES - RT 5130N	36.8	11-03	3.7	38	1.0	2654
Mean	43.0	-	3.5	35	1.0	3200
LSD (0.20)	3.6	-	0.4	3	NS	118
CV (%)	7.6					

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

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

Table 14. 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						
TA SEEDS - TS 3999R	65.7	10-05	2.0	37	1.8	2507
ASGROW - AG3905	64.5	10-07	2.0	40	1.3	2604
SEEDWAY - SG 3705	63.7	10-05	2.0	34	1.5	3031
S.STATES - RT 3940N	63.3	10-06	3.0	39	2.5	2140
VIGORO - V38N4RR	62.8	10-06	3.2	39	2.5	2618
SEEDWAY - SG 3905	62.5	10-07	2.5	41	2.2	2183
SEEDWAY - SG 3640	61.5	10-04	2.0	39	1.7	2792
S.STATES - RT 3550N	60.3	10-01	2.3	37	3.0	2320
HISOY - 371NRR	60.3	10-04	2.2	40	1.5	2914
SCHILLINGER - 393.RCP	60.2	10-07	3.0	38	2.5	2687
VIGORO - V39N4RR	60.0	10-07	3.0	39	2.3	2241
S.STATES - RT 3802N	59.9	09-30	3.3	44	2.0	2766
USG - 7393nRR	59.7	10-07	3.0	38	2.0	2218
VIGORO - V38N5RS	58.8	10-04	2.2	34	1.7	2940
S.STATES - RT 3975	58.4	10-04	3.0	43	2.5	2663
NK - S37-N4	57.8	10-06	2.3	39	3.0	2947
S.STATES - RT 3850N	57.0	10-05	2.3	36	1.5	2761
	Mean	-	2.5	39	2.1	2608
	LSD (0.20)	-	0.3	2	0.2	88
	CV (%)	8.4				
MATURITY GROUP IV						
USG - 7423nRS	77.4	10-08	2.0	37	2.0	2264
HISOY - 432NRR	74.1	10-10	3.3	42	1.2	2954
S.STATES - RT 4440N	74.0	10-08	3.5	43	1.2	2914
USG - 7443nRR	73.5	10-10	2.3	39	1.5	2744
USG - 7440nRR	72.5	10-10	3.2	44	1.0	2995
S.STATES - RT 4230N	72.4	10-10	2.3	39	1.7	2674
SCHILLINGER - 415RCP	72.0	10-07	3.2	44	1.3	3018
D&PL - DP4331RR	69.8	10-07	2.7	40	1.5	3004
TA SEEDS - TS 4159R	69.7	10-08	1.5	35	1.8	2511
ASGROW - AG4201	69.3	10-09	3.3	42	2.0	2563
USG - 7403nRR	68.9	10-08	1.5	34	1.8	2578
NK - S40-R9	68.4	10-08	2.8	41	1.7	2658
DOEBLERS - 4435RR	68.3	10-10	3.0	43	1.5	2948
NK - S43-B1	67.0	10-08	2.2	39	2.2	2946
DOEBLERS - 4236RR	66.8	10-08	1.5	34	2.2	2525
SEEDWAY - SG 4460	66.3	10-08	3.0	39	1.5	2980
ASGROW - AG4502	65.4	10-10	2.2	39	1.8	2525
S.STATES - RT 4098	63.7	10-07	2.3	38	2.2	2713
S.STATES - RT 4502N	63.5	10-07	2.3	44	1.5	2783
D&PL - DP4546RR	56.6	10-10	3.3	45	1.2	2603
	Mean	-	2.6	40	1.6	2745
	LSD (0.20)	-	0.3	2	0.3	89
	CV (%)	6.0				

Table 14. (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							
SCHILLINGER - 495.RC	73.4	10-17	2.8	45	1.5	2488	
S.STATES - RT 4980	72.0	10-16	3.5	45	1.5	2597	
VIGORO - V48N5RR	71.2	10-15	2.8	39	1.5	2456	
VIGORO - V47N3RR	68.5	10-17	3.5	39	1.8	2681	
ASGROW - AG4903	67.2	10-16	2.7	40	1.3	2775	
EXPERIMENTAL - MD 99-1098-2RR	67.2	10-18	2.0	31	1.5	3360	
ASGROW - AG4801	66.7	10-16	1.8	38	2.0	2690	
USG - 7484nRR	65.3	10-14	3.7	39	1.5	2859	
USG - 7482nRR	65.0	10-14	3.5	41	1.5	2638	
HISOY - 472NRR	64.4	10-15	3.5	40	1.8	2695	
USG - 7489RR	64.4	10-15	3.3	42	1.5	2607	
SCHILLINGER - 465.RC	64.2	10-16	2.0	42	1.5	2808	
CLARKS - CL48RR	63.9	10-16	3.3	42	1.7	2584	
CLARKS - CL482NRR	63.8	10-14	3.5	39	1.7	2630	
ASGROW - AG4603	62.2	10-16	3.0	39	1.7	2722	
DEKALB - DKB46-51	62.1	10-17	3.5	39	2.3	2662	
EXPERIMENTAL - MD 99-1353-2RR	61.4	10-15	3.5	37	1.3	3414	
S.STATES - RT 4810N	61.0	10-16	2.7	44	1.5	2773	
USG - 7499nRR	60.7	10-17	3.2	43	1.5	2779	
D&PL - DP4724RR	57.3	10-17	3.5	39	1.5	2755	
	Mean	65.1	-	3.1	40	1.6	2749
	LSD (0.20)	4.4	-	0.3	2	0.2	99
	CV (%)	6.3					
MATURITY GROUP V							
USG - 7504nRR	68.3	10-18	3.5	40	1.5	2762	
USG - 7514nRR	66.9	10-23	3.5	40	1.0	3065	
EXPERIMENTAL - MD 99-0687-3RR	64.5	10-18	3.5	37	1.5	2879	
USG - 510nRR	63.7	10-23	2.8	42	1.0	3137	
S.STATES - RT 5130N	61.2	10-21	3.5	46	1.5	2569	
VIGORO - EX650024	60.2	10-26	1.8	38	1.0	2835	
EXPERIMENTAL - MD 01-273RR	55.8	10-26	2.3	33	1.0	3320	
EXPERIMENTAL - MD 99-1411-1RR	55.4	10-26	1.8	35	1.3	3752	
S.STATES - RT 5001N	54.8	10-21	3.5	43	1.5	3143	
	Mean	61.2	-	2.9	39	1.3	3051
	LSD (0.20)	5.7	-	0.3	4	0.1	88
	CV (%)	8.5					

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

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

Table 15. 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						
ASGROW - AG3905	58.6	10-16	2.0	28	1.3	2452
VIGORO - V38N4RR	58.2	10-15	3.0	30	1.5	2733
SEEDWAY - SG 3705	57.9	10-15	1.5	26	1.5	3290
SEEDWAY - SG 3640	57.4	10-13	1.3	27	1.2	2915
TA SEEDS - TS 3999R	57.3	10-17	1.8	29	1.3	2607
SEEDWAY - SG 3905	57.0	10-16	3.2	28	1.5	2365
VIGORO - V39N4RR	56.1	10-15	2.8	30	1.5	2388
VIGORO - V38N5RS	56.0	10-14	1.7	26	1.3	3402
SCHILLINGER - 393.RCP	56.0	10-15	3.0	30	1.3	2685
HISOY - 371NRR	55.4	10-14	2.0	29	1.0	3553
S.STATES - RT 3975	54.6	10-16	3.0	33	1.0	2932
S.STATES - RT 3940N	54.5	10-16	3.3	29	1.3	2375
USG - 7393nRR	53.8	10-17	3.2	29	1.2	2292
S.STATES - RT 3550N	51.5	10-12	3.2	29	1.5	2761
NK - S37-N4	51.3	10-16	2.0	30	1.7	2746
S.STATES - RT 3802N	49.8	10-13	3.3	32	1.5	2876
S.STATES - RT 3850N	49.6	10-14	2.5	27	1.3	2841
	Mean	-	2.5	29	1.4	2777
	LSD (0.20)	-	0.3	2	0.2	86
	CV (%)	4.7				
MATURITY GROUP IV						
D&PL - DP4331RR	61.1	10-19	2.3	31	1.0	3129
USG - 7423nRS	60.9	10-20	1.5	29	1.5	2167
USG - 7440nRR	59.9	10-22	2.8	32	1.2	3072
USG - 7443nRR	59.6	10-21	2.5	30	1.2	2680
SCHILLINGER - 415RCP	59.1	10-21	3.2	36	1.0	3116
HISOY - 432NRR	58.7	10-21	2.8	34	1.0	3131
S.STATES - RT 4230N	58.7	10-19	3.0	30	1.3	2592
USG - 7403nRR	58.6	10-19	1.0	29	1.5	2549
DOEBLERS - 4236RR	58.4	10-18	1.2	29	1.5	2578
ASGROW - AG4502	58.0	10-22	2.5	30	1.0	2587
SEEDWAY - SG 4460	57.5	10-22	2.7	32	1.2	2777
S.STATES - RT 4440N	57.2	10-22	2.7	34	1.0	3051
NK - S40-R9	56.9	10-20	3.0	32	1.5	2807
TA SEEDS - TS 4159R	56.3	10-20	1.0	27	1.5	2280
NK - S43-B1	56.3	10-18	2.3	30	1.5	2897
DOEBLERS - 4435RR	56.1	10-21	2.5	32	1.0	3038
S.STATES - RT 4098	55.9	10-17	2.7	29	1.2	2972
ASGROW - AG4201	54.6	10-21	3.0	31	1.5	2719
S.STATES - RT 4502N	53.0	10-21	2.8	34	1.2	2848
D&PL - DP4546RR	49.5	10-22	3.5	32	1.2	2691
	Mean	-	2.5	31	1.2	2784
	LSD (0.20)	-	0.3	2	0.2	87
	CV (%)	4.5				

Table 15. (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							
ASGROW - AG4801	59.0	10-27	1.8	29	1.3	2736	
VIGORO - V47N3RR	56.5	10-26	2.3	28	1.2	2860	
SCHILLINGER - 495.RC	56.2	10-27	3.2	34	1.0	2643	
USG - 7482nRR	55.8	10-26	3.2	31	1.0	2711	
DEKALB - DKB46-51	55.5	10-26	3.0	31	1.5	2860	
ASGROW - AG4903	53.8	10-27	2.8	31	1.2	2703	
ASGROW - AG4603	52.9	10-27	2.7	32	1.2	2952	
USG - 7489RR	52.6	10-27	3.5	33	1.5	2757	
S.STATES - RT 4980	52.5	10-27	3.5	33	1.2	2761	
VIGORO - V48N5RR	52.2	10-28	3.5	30	1.2	2445	
S.STATES - RT 4810N	51.8	10-26	3.0	33	1.0	2907	
EXPERIMENTAL - MD 99-1098-2RR	51.8	10-29	3.0	26	1.2	3321	
USG - 7499nRR	51.4	10-28	3.0	32	1.2	2902	
D&PL - DP4724RR	51.3	10-28	2.8	32	1.2	2778	
EXPERIMENTAL - MD 99-1353-2RR	51.1	10-27	3.3	26	1.2	3689	
HISOY - 472NRR	50.9	10-26	3.2	29	1.5	2847	
CLARKS - CL48RR	50.5	10-28	3.3	34	1.5	2755	
CLARKS - CL482NRR	50.4	10-26	3.5	30	1.7	2798	
USG - 7484nRR	50.1	10-25	3.7	32	1.2	2843	
SCHILLINGER - 465.RC	49.0	10-24	2.5	30	1.2	3060	
	Mean	52.8	-	3.0	31	1.2	2866
	LSD (0.20)	3.6	-	0.3	2	0.2	96
	CV (%)	6.5					
MATURITY GROUP V							
VIGORO - EX650024	57.6	11-04	2.3	30	1.0	2898	
USG - 7514nRR	52.8	11-03	3.8	37	1.0	3121	
EXPERIMENTAL - MD 99-1411-1RR	51.4	11-02	2.8	31	1.0	3573	
USG - 7504nRR	50.8	10-28	3.2	31	1.0	2760	
EXPERIMENTAL - MD 99-0687-3RR	49.5	10-29	3.5	29	1.0	3033	
USG - 510nRR	47.3	11-03	3.3	37	1.0	2960	
EXPERIMENTAL - MD 01-273RR	45.2	11-01	3.8	29	1.0	3582	
S.STATES - RT 5130N	43.5	11-03	3.0	32	1.0	2582	
S.STATES - RT 5001N	42.7	11-03	3.3	37	1.0	2927	
	Mean	49.0	-	3.2	33	1.0	3049
	LSD (0.20)	3.7	-	0.3	3	NS	82
	CV (%)	7.0					

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

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

Table 16. Relative yields of Roundup Ready soybean varieties compared to the mean of all varieties in that maturity group at each location in 2004.

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
MATURITY GROUP III						
	Relative Yield, % of Mean					
ASGROW - AG3905	94	100	102	110*	106	106*
HISOY - 371NRR	108*	117*	98	103	99	101
NK - S37-N4	106*	94	97	86	95	93
SCHILLINGER - 393.RCP	98	100	105*	95	99	102*
SEEDWAY - SG 3640	93	105	106*	115*	101	104*
SEEDWAY - SG 3705	103*	105	91	98	104	105*
SEEDWAY - SG 3905	98	96	104	111*	103	104*
S.STATES - RT 3550N	110*	97	104	104	99	94
S.STATES - RT 3802N	88	86	92	89	98	90
S.STATES - RT 3850N	80	104	83	90	93	90
S.STATES - RT 3940N	102*	100	104	93	104	99
S.STATES - RT 3975	103*	94	99	88	96	99
TA SEEDS - TS 3999R	96	109	110*	109*	108*	104*
USG - 7393nRR	108*	97	108*	105	98	98
VIGORO - V38N4RR	100*	96	101	99	103	106*
VIGORO - V38N5RS	104*	104	91	105	96	102*
VIGORO - V39N4RR	107*	97	105*	101	98	102*
Location/Group Mean Yield	49.9	56.9	60.2	48.8	61.0	55.0
MATURITY GROUP IV						
ASGROW - AG4201	97	100	102	96	101	95
ASGROW - AG4502	100	104	103	110*	95	101
D&PL - DP4331RR	111	104	105	108*	101	107*
D&PL - DP4546RR	91	83	89	94	82	86
DOEBLERS - 4236RR	106	111*	104	103	97	102*
DOEBLERS - 4435RR	95	96	106	96	99	98
HISOY - 432NRR	95	98	101	104*	107*	102*
NK - S40-R9	103	91	97	84	99	99
NK - S43-B1	103	95	102	108*	97	98
SCHILLINGER - 415RCP	92	99	94	104*	104	103*
SEEDWAY - SG 4460	102	94	88	88	96	100
S.STATES - RT 4098	102	97	101	98	92	98
S.STATES - RT 4230N	85	104	98	102	105	102*
S.STATES - RT 4440N	87	102	96	105*	107*	100
S.STATES - RT 4502N	99	88	89	92	92	93
TA SEEDS - TS 4159R	109	114*	104	106*	101	98
USG - 7403nRR	91	108*	97	97	100	102*
USG - 7423nRS	114*	106*	113*	103	112*	106*
USG - 7440nRR	108	96	99	102	105	105*
USG - 7443nRR	112	109*	112*	101	106*	104*
Location/Group Mean Yield	49.4	54.8	61.2	49.9	69.0	57.3

Table 16. (Continued) Relative Yields - Roundup Ready Soybean Varieties

BRAND - ENTRY	Keedys-	Clarks-	Queenstown		Quantic	
	ville	ville	FS	DC	FS	DC
MATURITY GROUP IV-S	Relative Yield, % of Mean					
ASGROW - AG4603	106*	96	83	103*	96	100
ASGROW - AG4801	104*	112*	103	105*	102	112*
ASGROW - AG4903	98	108*	106	108*	103	102
CLARKS - CL48RR	98	102	102	99	98	96
CLARKS - CL482NRR	87	105*	106	90	98	95
DEKALB - DKB46-51	99	108*	105	90	95	105*
D&PL - DP4724RR	110*	99	93	98	88	97
HISOY - 472NRR	102	102	105	94	99	96
EXPERIMENTAL - MD 99-1098-2RR	102	81	93	109*	103	98
EXPERIMENTAL - MD 99-1353-2RR	92	74	103	90	94	97
SCHILLINGER - 465.RC	104*	99	111*	103*	99	93
SCHILLINGER - 495.RC	106*	100	99	106*	113*	106*
S.STATES - RT 4810N	90	103*	104	105*	94	98
S.STATES - RT 4980	94	99	103	105*	111*	100
USG - 7482nRR	100	101	94	98	100	106*
USG - 7484nRR	102	99	102	94	100	95
USG - 7499nRR	110*	105*	91	91	93	97
USG - 7489RR	98	106*	94	104*	99	100
VIGORO - V47N3RR	105*	103*	103	99	105	107*
VIGORO - V48N5RR	90	99	101	109*	109*	99
Location/Group Mean Yield	48.1	56.1	80.5	48.7	65.1	52.8
MATURITY GROUP V						
EXPERIMENTAL - MD 99-0687-3RR	-	-	101	103*	105*	101
EXPERIMENTAL - MD 99-1411-1RR	-	-	96	110*	91	105
S.STATES - RT 5001N	-	-	100	94	89	87
S.STATES - RT 5130N	-	-	97	86	100	89
USG - 510nRR	-	-	105*	105*	104*	96
USG - 7504nRR	-	-	109*	109*	112*	104
USG - 7514nRR	-	-	98	96	109*	108
VIGORO - EX650024	-	-	104*	98	98	118*
EXPERIMENTAL - MD 01-273RR	-	-	89	98	91	92
Location/Group Mean Yield	-	-	49.9	43.0	61.2	49.0

FS=Full Season, DC=Double Crop

*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 17. Two-year average yields of Roundup Ready soybean varieties grown at four Maryland locations, 2003-2004.

BRAND - ENTRY	Keedys-	Clarks-	Queenstown		Quantico	
	ville	ville	FS	DC	FS	DC
MATURITY GROUP III			Seed Yield, Bu/A			
ASGROW - AG3905	48.2	50.0	54.0	48.7	67.9	52.1
NK - S37-N4	55.2	49.8	52.2	41.2	61.1	46.8
SCHILLINGER - 393.RCP	52.9	51.9	55.9	45.4	63.6	53.2
SEEDWAY - SG 3905	52.3	51.9	54.6	49.4	64.6	53.2
S.STATES - RT 3802N	46.0	44.9	50.2	39.5	62.3	47.0
S.STATES - RT 3975	47.9	46.8	53.9	42.3	60.6	50.4
USG - 7393nRR	55.0	50.9	55.5	48.4	63.9	51.2
VIGORO - V38N4RR	52.4	49.8	55.2	45.4	64.4	50.7
VIGORO - V39N4RR	54.5	50.7	55.8	47.5	61.8	51.6
MATURITY GROUP IV						
ASGROW - AG4201	50.7	50.5	57.6	45.9	65.4	49.4
ASGROW - AG4502	52.1	51.8	57.1	49.5	63.7	54.7
NK - S40-R9	52.9	47.9	54.2	44.3	67.0	50.5
NK - S43-B1	48.9	49.4	57.2	50.1	62.6	50.0
S.STATES - RT 4098	51.7	50.2	54.6	46.7	64.3	50.4
S.STATES - RT 4230N	46.9	51.3	56.8	47.2	68.6	53.0
S.STATES - RT 4502N	48.1	45.1	51.4	42.1	61.8	47.9
USG - 7403nRR	48.9	53.1	54.2	46.3	65.6	54.1
USG - 7423nRS	52.2	51.2	61.4	48.7	70.6	52.4
USG - 7440nRR	49.9	47.9	57.3	46.7	69.7	55.2
MATURITY GROUP IV-S						
ASGROW - AG4603	48.2	49.6	56.1	46.1	60.4	48.9
CLARKS - CL48RR	49.1	51.5	67.9	45.1	65.1	51.6
DEKALB - DKB46-51	49.3	52.9	67.3	43.6	61.7	51.1
EXPERIMENTAL - MD 99-1098-2RR	43.9	43.3	63.2	46.6	64.5	50.8
EXPERIMENTAL - MD 99-1353-2RR	37.3	38.8	63.6	41.9	58.6	47.4
S.STATES - RT 4810N	42.9	50.6	65.8	45.9	58.4	48.8
S.STATES - RT 4980	48.3	50.4	67.0	49.1	66.7	49.5
USG - 7482nRR	48.3	50.9	60.8	42.0	61.7	49.6
USG - 7499nRR	47.8	52.2	63.0	46.5	62.8	50.5
USG - 7489RR	48.9	50.6	62.1	43.9	62.2	53.0
VIGORO - V47N3RR	51.2	51.4	65.6	44.2	62.1	55.4
MATURITY GROUP V						
EXPERIMENTAL - MD 99-0687-3RR	-	-	47.7	43.8	62.6	46.1
EXPERIMENTAL - MD 99-1411-1RR	-	-	48.4	43.6	55.7	46.9
S.STATES - RT 5001N	-	-	46.9	39.1	57.9	40.4
USG - 510nRR	-	-	49.9	43.6	60.9	45.7
EXPERIMENTAL - MD 01-273RR	-	-	42.6	36.1	51.8	39.8

FS=Full Season, DC=Double Crop

Table 18. Seed protein content of standard soybean varieties grown at three Maryland locations, 2004.

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III		Protein, %		
PUBLIC - APEX	40.8	39.7	40.6	40.4
PUBLIC - GENERAL	43.3	42.5	43.0	42.4
PUBLIC - IA 3023	41.2	39.9	39.2	40.9
PUBLIC - IA 3017	43.9	43.0	41.4	42.0
PUBLIC - IA 3018	41.7	41.1	40.5	40.5
PUBLIC - IA 3019	41.9	40.1	40.9	40.8
PUBLIC - MACON	42.2	41.4	41.7	41.9
MATURITY GROUP IV				
PUBLIC - CORSICA	42.7	43.1	42.9	42.6
PUBLIC - HS 93-4118	41.0	40.9	40.4	40.9
PUBLIC - LN 97-15076	41.5	41.9	42.1	43.6
EXPERIMENTAL - MD 96-5722	43.1	42.4	42.1	42.6
EXPERIMENTAL - MD 99-173-11	41.7	43.2	41.2	43.3
VIGORO - V435 SCN	41.5	41.5	45.6	41.4
PUBLIC - STRESSLAND	43.2	44.3	43.2	43.6
MATURITY GROUP IV-S				
PUBLIC - KS 4602N	42.2	42.0	42.0	42.4
PUBLIC - MANOKIN	40.3	40.9	41.8	40.8
PUBLIC - MD 4900	40.2	39.6	38.5	39.4
EXPERIMENTAL - MD 96-5275	40.6	42.0	41.5	40.9
EXPERIMENTAL - MD 97-6491	43.6	45.1	43.8	43.2
EXPERIMENTAL - MD 00-5020	40.8	41.7	41.4	42.1
EXPERIMENTAL - MD 00-5024	39.9	42.2	41.2	41.7
EXPERIMENTAL - MD 00-5326	41.9	42.8	42.7	40.9
EXPERIMENTAL - MD 00-6599	43.5	43.2	43.7	44.5
EXPERIMENTAL - MD 00-6605	42.9	42.7	43.2	44.7
EXPERIMENTAL - MD 00-6612	42.6	44.5	43.5	44.4
USG - 5002T	40.4	41.1	41.1	41.4

Table 18. (Continued) Seed Protein Content, Standard Soybean Varieties

BRAND - ENTRY	Clarksville	Queenstown	Quantic	
			Full Season	Double Crop
MATURITY GROUP V			Protein, %	
PUBLIC - ESSEX	-	43.6	43.3	42.3
PUBLIC - HOLLADAY	-	41.1	38.4	40.4
PUBLIC - HUTCHESON	-	42.4	40.3	40.6
PUBLIC - KS 5502N	-	41.3	37.7	39.9
EXPERIMENTAL - MD 99-5433-6	-	41.9	43.0	43.8
EXPERIMENTAL - MD 99-5458-18	-	42.6	41.9	42.6
EXPERIMENTAL - MD 99-5464-12	-	41.7	41.9	42.5
EXPERIMENTAL - MD 99-6701-9	-	42.4	42.4	42.5
EXPERIMENTAL - MD 99-6226	-	40.9	40.9	41.5
EXPERIMENTAL - MD 00-6015	-	39.9	39.1	39.8
PUBLIC - OZARK	-	40.9	41.4	39.8
PUBLIC - TEEJAY	-	41.9	40.7	40.8
USG - 5601T	-	42.8	41.5	41.3
EXPERIMENTAL - V98-2711	-	41.8	41.1	41.1

Table 19. Seed oil content of standard soybean varieties grown at three Maryland locations, 2004.

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III		Oil, %		
PUBLIC - APEX	21.7	21.3	21.8	21.5
PUBLIC - GENERAL	21.5	20.8	21.0	21.0
PUBLIC - IA 3023	22.4	21.9	22.6	21.1
PUBLIC - IA 3017	19.2	20.9	21.5	20.1
PUBLIC - IA 3018	22.1	21.6	23.0	21.0
PUBLIC - IA 3019	20.9	22.0	22.1	21.3
PUBLIC - MACON	20.4	20.8	21.2	20.3
MATURITY GROUP IV				
PUBLIC - CORSICA	20.8	21.1	21.4	21.1
PUBLIC - HS 93-4118	21.9	20.6	21.0	20.5
PUBLIC - LN 97-15076	21.2	21.6	20.4	20.3
EXPERIMENTAL - MD 96-5722	19.9	20.7	20.9	20.2
EXPERIMENTAL - MD 99-173-11	21.0	21.0	21.8	20.2
VIGORO - V435 SCN	21.0	20.9	23.8	20.4
PUBLIC - STRESSLAND	20.2	20.6	21.4	20.0
MATURITY GROUP IV-S				
PUBLIC - KS 4602N	21.2	21.9	20.7	20.8
PUBLIC - MANOKIN	20.8	20.7	20.2	20.4
PUBLIC - MD 4900	20.8	20.7	21.8	20.6
EXPERIMENTAL - MD 96-5275	20.4	19.9	20.5	20.4
EXPERIMENTAL - MD 97-6491	19.7	18.6	20.5	20.3
EXPERIMENTAL - MD 00-5020	20.7	20.2	21.6	19.1
EXPERIMENTAL - MD 00-5024	20.6	20.7	21.2	19.8
EXPERIMENTAL - MD 00-5326	21.4	20.7	20.5	21.9
EXPERIMENTAL - MD 00-6599	20.8	19.9	21.0	18.8
EXPERIMENTAL - MD 00-6605	19.9	20.5	19.7	18.4
EXPERIMENTAL - MD 00-6612	21.2	19.9	20.5	18.3
USG - 5002T	20.1	19.8	20.6	20.7

Table 19. (Continued) Seed Oil Content, Standard Soybean Varieties

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP V			Oil, %	
PUBLIC - ESSEX	-	20.2	19.2	20.5
PUBLIC - HOLLADAY	-	21.3	21.6	20.8
PUBLIC - HUTCHESON	-	21.4	21.1	21.9
PUBLIC - KS 5502N	-	20.4	20.5	19.9
EXPERIMENTAL - MD 99-5433-6	-	19.7	19.8	17.8
EXPERIMENTAL - MD 99-5458-18	-	18.0	19.0	17.8
EXPERIMENTAL - MD 99-5464-12	-	19.7	19.1	18.2
EXPERIMENTAL - MD 99-6701-9	-	19.6	20.2	19.2
EXPERIMENTAL - MD 99-6226	-	20.7	22.7	20.2
EXPERIMENTAL - MD 00-6015	-	20.8	21.5	20.4
PUBLIC - OZARK	-	20.5	20.6	19.3
PUBLIC - TEEJAY	-	21.1	21.2	20.3
USG - 5601T	-	19.5	19.6	20.0
EXPERIMENTAL - V98-2711	-	20.3	20.0	20.2

Table 20. Seed protein content of Roundup Ready soybean varieties grown at four Maryland locations, 2004.

BRAND - ENTRY	Keedys-	Clarks-	Queenstown		Quantico	
	ville	ville	FS	DC	FS	DC
MATURITY GROUP III			Protein, %			
ASGROW - AG3905	41.6	42.3	41.9	41.7	41.5	41.9
HISOY - 371NRR	42.3	43.8	42.9	43.1	43.2	43.2
NK - S37-N4	40.9	43.8	42.4	43.6	42.9	43.8
SCHILLINGER - 393.RCP	41.2	42.3	40.9	41.1	41.1	41.4
SEEDWAY - SG 3640	44.5	44.6	43.2	43.6	43.1	44.0
SEEDWAY - SG 3705	41.7	41.9	40.7	41.1	40.9	40.0
SEEDWAY - SG 3905	41.0	42.8	41.0	41.9	40.5	40.3
S.STATES - RT 3550N	43.3	43.3	42.3	42.1	43.2	42.9
S.STATES - RT 3802N	44.1	44.7	41.9	44.0	41.9	43.9
S.STATES - RT 3850N	39.6	41.8	40.1	40.9	40.4	40.5
S.STATES - RT 3940N	41.3	42.3	41.1	42.4	41.0	40.3
S.STATES - RT 3975	41.4	43.4	42.3	44.2	42.5	43.6
TA SEEDS - TS 3999R	41.3	41.9	40.9	42.9	40.8	40.9
USG - 7393nRR	41.6	42.7	41.0	41.8	41.5	40.3
VIGORO - V38N4RR	42.2	42.0	40.3	41.1	40.9	40.8
VIGORO - V38N5RS	40.0	41.7	40.6	40.3	40.9	40.3
VIGORO - V39N4RR	40.6	42.3	40.2	42.0	40.4	40.9
MATURITY GROUP IV						
ASGROW - AG4201	42.5	41.9	40.8	41.8	41.5	41.9
ASGROW - AG4502	41.6	43.2	42.1	42.0	42.5	42.3
D&PL - DP4331RR	39.2	41.9	39.9	40.6	40.4	40.4
D&PL - DP4546RR	41.0	42.8	42.2	41.1	42.4	41.5
DOEBLERS - 4236RR	43.4	44.0	40.8	42.0	41.6	42.4
DOEBLERS - 4435RR	39.3	41.3	39.8	40.4	40.9	40.3
HISOY - 432NRR	38.8	41.2	40.1	40.0	40.6	40.1
NK - S40-R9	42.1	41.9	40.9	42.2	41.4	41.5
NK - S43-B1	40.7	42.3	39.9	41.0	40.6	41.8
SCHILLINGER - 415RCP	39.3	41.3	40.3	40.4	40.6	40.3
SEEDWAY - SG 4460	41.2	42.4	40.8	41.6	41.1	40.8
S.STATES - RT 4098	41.3	41.2	39.8	41.2	41.0	40.9
S.STATES - RT 4230N	41.2	42.4	40.5	41.4	41.4	41.2
S.STATES - RT 4440N	38.3	41.5	40.8	39.7	40.3	40.0
S.STATES - RT 4502N	43.0	42.7	41.1	41.7	41.8	41.5
TA SEEDS - TS 4159R	41.6	42.6	41.4	41.9	41.0	41.5
USG - 7403nRR	42.5	43.4	41.6	42.5	41.3	41.6
USG - 7423nRS	40.8	42.0	40.3	40.6	40.5	40.4
USG - 7440nRR	39.6	41.3	40.5	39.2	40.6	40.7
USG - 7443nRR	42.3	42.7	41.8	42.1	40.6	41.1

Table 20. (Continued) Seed Protein Content - Roundup Ready Soybean Varieties

BRAND - ENTRY	Keedys-	Clarks-	Queenstown		Quantico	
	ville	ville	FS	DC	FS	DC
MATURITY GROUP IV-S			Protein, %			
ASGROW - AG4603	39.7	41.1	40.1	40.1	40.9	40.3
ASGROW - AG4801	40.0	42.7	41.3	40.7	40.8	40.7
ASGROW - AG4903	39.9	41.4	40.4	39.8	40.6	40.5
CLARKS - CL48RR	40.3	41.2	41.3	40.5	41.3	40.3
CLARKS - CL482NRR	42.2	43.3	41.9	41.1	42.3	42.5
DEKALB - DKB46-51	41.2	42.6	42.4	42.4	42.8	42.9
D&PL - DP4724RR	41.5	43.1	42.3	41.7	43.3	42.3
HISOY - 472NRR	41.0	43.8	42.2	41.7	43.0	42.0
EXPERIMENTAL - MD 99-1098-2RR	39.4	40.8	38.9	39.4	38.9	39.2
EXPERIMENTAL - MD 99-1353-2RR	39.8	40.7	40.6	40.0	40.5	40.5
SCHILLINGER - 465.RC	40.7	42.5	41.4	41.4	42.1	41.7
SCHILLINGER - 495.RC	40.6	42.3	41.5	41.4	42.7	41.9
S.STATES - RT 4810N	39.8	42.2	40.1	41.0	41.9	41.4
S.STATES - RT 4980	40.5	40.4	40.8	40.4	40.8	40.7
USG - 7482nRR	40.4	43.0	42.3	41.7	42.3	42.2
USG - 7484nRR	40.3	42.2	41.4	40.5	41.1	40.8
USG - 7499nRR	39.9	42.6	40.8	40.8	41.8	41.6
USG - 7489RR	39.9	41.0	40.7	40.5	40.9	41.1
VIGORO - V47N3RR	41.0	42.3	41.7	41.6	42.5	42.1
VIGORO - V48N5RR	40.8	41.8	41.4	41.1	40.9	40.9
MATURITY GROUP V						
EXPERIMENTAL - MD 99-0687-3RR	-	-	41.2	41.0	41.6	41.9
EXPERIMENTAL - MD 99-1411-1RR	-	-	39.8	39.1	40.0	39.8
S.STATES - RT 5001N	-	-	42.8	41.9	42.9	43.8
S.STATES - RT 5130N	-	-	42.2	41.8	43.1	42.9
USG - 510nRR	-	-	41.4	40.9	41.9	41.1
USG - 7504nRR	-	-	41.0	40.8	42.0	40.9
USG - 7514nRR	-	-	41.0	41.7	42.2	42.3
VIGORO - EX650024	-	-	41.4	41.7	41.9	41.7
EXPERIMENTAL - MD 01-273RR	-	-	42.7	42.7	42.1	43.0

FS= Full Season, DC= Double Crop

Table 21. Seed oil content of Roundup Ready soybean varieties grown at four Maryland locations, 2004.

BRAND - ENTRY	Keedys-	Clarks-	Queenstown		Quantico	
	ville	ville	FS	DC	FS	DC
MATURITY GROUP III			Oil, %			
ASGROW - AG3905	20.2	19.7	20.4	19.7	20.6	21.0
HISOY - 371NRR	19.6	19.2	19.4	19.1	20.4	20.6
NK - S37-N4	20.8	19.0	18.9	18.0	19.6	19.6
SCHILLINGER - 393.RCP	21.5	20.7	21.3	20.1	21.2	22.2
SEEDWAY - SG 3640	18.4	18.7	18.3	19.0	19.2	19.0
SEEDWAY - SG 3705	20.5	19.9	20.4	20.0	20.9	20.8
SEEDWAY - SG 3905	22.0	20.6	21.3	21.0	22.0	22.2
S.STATES - RT 3550N	19.8	19.3	20.3	19.9	20.0	20.5
S.STATES - RT 3802N	19.0	19.9	20.3	19.0	20.9	20.0
S.STATES - RT 3850N	21.3	21.0	20.5	20.5	21.6	21.4
S.STATES - RT 3940N	21.3	20.7	21.0	20.2	21.9	21.7
S.STATES - RT 3975	21.3	19.8	20.4	18.9	20.5	20.0
TA SEEDS - TS 3999R	20.3	20.2	20.2	19.8	21.1	21.3
USG - 7393nRR	21.3	20.0	21.9	21.0	21.6	21.6
VIGORO - V38N4RR	20.2	21.4	20.5	21.2	21.5	21.4
VIGORO - V38N5RS	20.5	20.0	19.8	20.2	20.1	21.4
VIGORO - V39N4RR	22.1	20.9	21.4	20.1	21.6	22.2
MATURITY GROUP IV						
ASGROW - AG4201	20.0	20.3	20.5	20.4	20.8	20.8
ASGROW - AG4502	19.7	20.0	20.2	19.8	20.7	20.5
D&PL - DP4331RR	21.5	20.5	21.2	20.5	21.6	21.6
D&PL - DP4546RR	21.4	19.6	19.9	20.9	20.6	21.5
DOEBLERS - 4236RR	20.0	19.8	20.3	20.8	21.4	21.2
DOEBLERS - 4435RR	21.7	20.7	20.7	21.2	21.5	21.5
HISOY - 432NRR	21.5	20.5	21.2	20.7	21.4	21.7
NK - S40-R9	20.0	20.5	20.8	19.6	20.4	20.8
NK - S43-B1	19.7	19.3	19.2	19.4	20.2	20.0
SCHILLINGER - 415RCP	21.1	20.4	19.9	20.9	21.5	21.3
SEEDWAY - SG 4460	20.6	20.5	20.5	20.0	21.2	21.3
S.STATES - RT 4098	22.5	21.5	21.7	21.0	21.5	21.4
S.STATES - RT 4230N	21.2	20.1	20.9	20.0	21.0	21.1
S.STATES - RT 4440N	21.6	20.5	21.3	20.1	21.7	21.4
S.STATES - RT 4502N	20.0	20.2	20.4	19.8	21.0	20.6
TA SEEDS - TS 4159R	20.3	20.5	20.7	20.5	21.3	21.6
USG - 7403nRR	20.7	19.5	20.9	19.5	21.1	21.4
USG - 7423nRS	20.3	20.6	21.1	20.6	21.4	21.1
USG - 7440nRR	21.1	20.0	21.4	21.2	22.0	21.3
USG - 7443nRR	19.6	20.4	20.3	19.8	21.0	21.5

Table 21. (Continued) Seed Oil Content - Roundup Ready Soybean Varieties

BRAND - ENTRY	Keedys-	Clarks-	Queenstown		Quantic	
	ville	ville	FS	DC	FS	DC
MATURITY GROUP IV-S			Oil, %			
ASGROW - AG4603	20.3	20.0	21.1	20.3	20.6	20.7
ASGROW - AG4801	21.8	20.4	21.1	20.9	21.2	21.3
ASGROW - AG4903	21.5	20.6	20.5	20.7	20.7	20.0
CLARKS - CL48RR	21.5	21.7	21.6	20.7	21.3	21.2
CLARKS - CL482NRR	20.6	20.0	20.5	20.5	21.1	20.0
DEKALB - DKB46-51	20.5	19.8	19.3	19.6	19.9	19.4
D&PL - DP4724RR	20.5	20.1	20.4	20.2	19.6	20.6
HISOY - 472NRR	21.5	19.7	19.7	20.6	20.7	20.3
EXPERIMENTAL - MD 99-1098-2RR	19.9	19.6	20.5	20.4	20.8	20.2
EXPERIMENTAL - MD 99-1353-2RR	21.2	20.7	20.2	20.1	20.5	20.6
SCHILLINGER - 465.RC	21.2	20.3	20.6	20.5	20.7	21.1
SCHILLINGER - 495.RC	21.1	20.2	20.5	20.8	20.3	21.1
S.STATES - RT 4810N	21.4	19.8	20.3	20.3	20.4	20.7
S.STATES - RT 4980	21.4	21.2	21.5	21.3	22.1	21.5
USG - 7482nRR	21.3	20.3	19.6	21.0	20.3	21.1
USG - 7484nRR	21.1	20.6	19.5	20.5	20.2	21.1
USG - 7499nRR	21.4	19.5	20.3	20.4	20.2	20.8
USG - 7489RR	21.0	21.1	21.4	21.2	21.2	21.5
VIGORO - V47N3RR	21.3	19.9	19.9	19.8	20.0	20.4
VIGORO - V48N5RR	21.9	20.5	20.9	20.7	21.1	21.5
MATURITY GROUP V						
EXPERIMENTAL - MD 99-0687-3RR	-	-	20.3	20.0	20.6	20.1
EXPERIMENTAL - MD 99-1411-1RR	-	-	18.1	20.0	20.1	19.8
S.STATES - RT 5001N	-	-	18.8	19.6	19.4	18.8
S.STATES - RT 5130N	-	-	18.7	19.3	19.7	18.5
USG - 510nRR	-	-	19.7	20.0	19.5	19.5
USG - 7504nRR	-	-	20.5	20.4	20.4	21.0
USG - 7514nRR	-	-	20.2	20.1	19.7	20.1
VIGORO - EX650024	-	-	20.5	20.0	20.1	20.2
EXPERIMENTAL - MD 01-273RR	-	-	18.7	18.3	19.1	18.4

FS= Full Season, DC= Double Crop