

Agronomy Facts No. 32
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2001 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 2001 test included Roundup Ready and standard varieties of public and private brands available to Maryland farmers. In addition, promising new varieties and advanced breeding lines are tested to compare their performance to that of widely grown varieties. Experimental lines from Maryland (MD 94-5332, MD 95-5358, MD 96-5275, MD 96-5696, MD 96-5722, MD 97-5905, MD 97-6065, MD 97-6156, MD 97-6491, MD 97-6590, MD 99-0099-1, MD 99-0165-3, MD 99-0198-3, MD 99-0687-3, MD 99-1098-2, MD 99-1281-3, MD 99-1353-1, MD 99-1396-3), Tennessee (TN 96-58), and Virginia (V 95-0016) were included in the 2001 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.

The 2001 growing season was generally favorable for soybean production in most areas of the state. The monthly rainfall for each location is shown in Table 3. Rainfall was more plentiful early in the growing season at all locations except Keedysville, which was the driest location. Rainfall amounts were greatly reduced in September and October at all locations. An early frost on October 9 affected maturity and yields of the latest maturing entries at each location especially in the double-cropped tests at Queenstown and Quantico.

Results of the 2001 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 yield was at Quantico for both the standard varieties and the Roundup Ready varieties. Note that the standard varieties at Quantico were planted in conventionally tilled soil while the Roundup Ready varieties were planted with no tillage, 13 days earlier.

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 new webpage:

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

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Table 1. Suppliers of private soybean varieties tested in 2001.

Supplier	Brand	Herbicide Reaction	Entry
Agway Farm Seeds Tully, NY 13159	AGWAY	Roundup Ready	APK397RR, APK470NRR, APK471NRR, APK507NRR
Campbell Seed, Inc. Tipton, IN 46072	CAMPBELL	Roundup Ready	390RR, 412RR
Clark Seeds, Inc. Kenton, DE 19955	CLARKS	Roundup Ready	CL42RR, CL48RR
Delta & Pine Land Co. Centre, AL 35960	DPL	Roundup Ready Standard	DP4344RR, DP4690RR DP4748S
Garst Seed Co. Slater, IA 50244	AGRIPRO	Roundup Ready	4004RR/N, 4512RR/N
Hoffman Seeds, Inc. Landisville, PA 17538	NK	Roundup Ready	R366, S39-Q4, S46-W8
Mid-Atlantic Seeds York, PA 17402	MID ATLANTIC	Roundup Ready Standard	MA3688RR, MA3888RR, MA3955RR, MA4001RR, MA4211RR, MA4355RR MA3901, MA4010-ST5
Monsanto Dekalb, IL 60115	ASGROW DEKALB	Roundup Ready Roundup Ready	AG3902, AG3903, AG4403 DKB38-51, DKB38-52, DKB40-51, DKB44-51, DKB45-51
Royster-Clark, Inc. Mt. Sterling, OH 43143	VIGORO	Roundup Ready	V382NRR, V422NRR, V442NRR, V450NRR, V462NRS, V472NRR, V512NRR
Schillinger Seed Queenstown, MD 21658	SCHILLINGER	Roundup Ready	371.RC, 381.RC, 401.RC, 431.RSC, 451.RCF, 481.RCS
Southern States Cooperative, Inc. Richmond, VA 26234	S. STATES	Roundup Ready Standard	RT386, RT3799N, RT3975, RT446N, RT4098, RT4495N, RT4980, RT517N, RT5001N SS381-ST5, SS439, SS4483N-ST5, SS5200-ST5
UniSouth Genetics, Inc. Nashville, TN 37211	USG	Roundup Ready	7398nRR, EXP440, 7449nRR, 7459RR, 7478nRR, 7489RR, 7509nRR, 7522nRR, 7528RR

Table 2. The 2001 soybean variety test plot information.

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

Tests: Roundup Ready Maturity Groups III,IV, and IV-S
Planting Date: June 19
Row Spacing: 24 inches
Soil Type: Swanpon-Funkstown silt loam
Soil Test: pH 7.2, P Index- Excessive, K Index- Excessive
Previous Crop: Corn
Fertilizer: None
Lime: 1 ton/A on March 1, 2001
Herbicide: 1 qt/A Roundup Ultra on June 21
Plots: 4 rows, 20 ft long
Seeding Rate: 6.5 seeds/ft
Tillage: Conventional

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

Tests: Roundup Ready Maturity Groups III,IV, and IV-S
Planting Date: June 19
Row Spacing: 24 inches
Soil Type: Delanco silt loam
Soil Test: pH 6.5, P Index- Excessive, K Index- Excessive
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 28 oz/A Roundup Ultra Max on July 31
Plots: 4 rows, 20 ft long
Seeding Rate: 6.5 seeds/ft
Tillage: Conventional

Tests: Standard Varieties Maturity Groups III, IV, and IV-S
Planting Date: June 19
Row Spacing: 24 inches
Soil Type: Delanco silt loam
Soil Test: pH 6.5, P Index- Excessive, K Index- Excessive
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 2.5 pts/A Broadstrike + Dual
Plots: 4 rows, 20 ft long
Seeding Rate: 6.5 seeds/ft
Tillage: Conventional

Table 2. (Continued)

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

Tests: Full Season Standard Varieties Maturity Groups III, IV, IV-S, and V
Planting Date: June 12
Row Spacing: 24 inches
Soil Type: Matapeake silt loam
Soil Test: pH 6.3, P Index- Optimum, K Index- Optimum
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 1 pt/A Dual, 5 oz/A Canopy XL
Plots: 4 rows, 20 ft long
Seeding Rate: 6.5 seeds/ft except Maturity Group V entries = 6 seeds/ft
Tillage: Conventional

Tests: Full Season Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V
Planting Date: June 6
Row Spacing: 24 inches
Soil Type: Matapeake silt loam
Soil Test: pH 5.7, P Index- Excessive, K Index- Optimum
Previous Crop: Soybeans
Fertilizer: None
Lime: None
Herbicide: 1 qt/A Roundup Ultra Max on July 13
Plots: 4 rows, 20 ft long
Seeding Rate: 6.5 seeds/ft except Maturity Group V entries = 6 seeds/ft
Tillage: Conventional

Tests: Double Crop Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V
Planting Date: July 3
Row Spacing: 7.5 inches
Soil Type: Matapeake silt loam
Soil Test: pH 6.6, P Index- Optimum, K Index- Optimum
Previous Crop: Wheat
Fertilizer: None
Lime: None
Herbicide: 1 qt/A Roundup Ultra Max on Aug. 1
Plots: 7 rows, 25 ft long
Seeding Rate: 3 seeds/ft
Tillage: None

Table 2 (Continued)

LOWER EASTERN SHORE RESEARCH AND 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 13
Row Spacing: 24 inches
Soil Type: Mattapex silt loam
Soil Test: pH 6.4, P Index- Medium, K Index- Optimum
Previous Crop: Minimum tillage corn
Fertilizer: 558 lbs/A of 3-7-11
Lime: None
Herbicide: Preemergence: 1.6 pt/A Dual 8E, 13 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 ft long
Seeding Rate: 6.5 seeds/ft except Maturity Group V entries = 6 seeds/ft
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 6.1, P Index- Optimum, K Index- Optimum
Previous Crop: No-tillage corn
Fertilizer: 500 lbs/A of 2-4-12
Lime: None
Herbicide: Early preemergence: 1 qt/A Roundup Ultra, 12 oz/A 2,4-D + 1 pt/A Dual 8E
Post emergence: 1 qt/A Roundup Ultra on June 29
Plots: 4 rows, 20 ft long
Seeding Rate: 6.5 seeds/ft except Maturity Group V entries = 6 seeds/ft
Tillage: None

Tests: Double Crop Standard Varieties Maturity Groups III, IV, IV-S, and V
Planting Date: June 28
Row Spacing: 20 inches
Soil Type: Mattapex silt loam
Soil Test: pH 6.1, P Index- Excessive, K Index- Optimum
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, 5 oz/A Canopy, 8 oz/A 2,4-DB
Post emergence: 1.5 pt/A Storm, 1 oz/A 2,4-DB, 3 oz/A Blazer + surfactant
Plots: 4 rows, 20 ft long
Seeding Rate: 8 seeds/ft
Tillage: None

Table 2. (Continued)

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 28
 Row Spacing: 20 inches
 Soil Type: Mattapex silt loam
 Soil Test: pH 6.1, P Index-Excessive, K Index-Optimum
 Previous Crop: Winter Barley
 Fertilizer: None on soybeans
 Lime: None on soybeans
 Herbicide: Preemergence: 1qt/A Roundup Ultra, 8 oz/A 2,4-DB
 Post emergence: 1 qt/A Roundup Ultra on Aug. 10
 Plots: 4 rows, 20 ft long
 Seeding Rate: 8 seeds/ft
 Tillage: None

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

Location	May	June	July	Aug.	Sept.	Oct.	Season
Keedysville	1.70	4.21	2.12	3.74	1.85	0.62	14.24
Clarksville	3.56	7.66	1.86	4.11	2.01	0.74	19.94
Queenstown	5.02	5.06	7.52	5.98	0.88	0.49	24.95
Quantico	7.77	4.21	4.87	5.12	2.71	1.18	25.86

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						
S.STATES - SS381-ST5	54.8	10-11	2.0	35	1.0	3390
MID ATLANTIC - MA3901	52.6	10-10	1.5	32	1.0	3463
PUBLIC - MACON	47.1	10-06	1.2	28	1.0	3169
PUBLIC - IA 3010	46.7	10-04	1.0	23	1.5	3658
PUBLIC - GENERAL	45.1	10-04	1.0	27	1.0	3212
Mean	49.2	-	1.3	29	1.1	3378
LSD (0.20)	4.1	-	0.3	2	0.3	171
CV (%)	7.4					
MATURITY GROUP IV						
MID ATLANTIC - MA4010-ST5	57.1	10-10	1.3	33	1.0	3322
S.STATES - SS439	55.7	10-12	2.0	41	1.0	2958
PUBLIC - STRESSLAND	53.7	10-12	1.7	38	1.0	3464
EXPERIMENTAL - MD 96-5722	52.0	10-11	1.5	34	1.0	2916
PUBLIC - HS 93-4118	49.8	10-10	1.3	30	1.0	3339
S.STATES - SS4483N-ST5	49.4	10-12	1.7	37	1.0	3440
EXPERIMENTAL - MD 95-5358	46.7	10-09	1.8	33	1.0	3088
PUBLIC - CORSICA	42.5	10-07	1.2	29	1.0	3274
PUBLIC - LS 93-0375	41.5	10-10	1.0	31	1.0	2989
EXPERIMENTAL - MD 97-6156	40.8	10-09	2.2	34	1.0	3173
Mean	48.9	-	1.6	34	1.0	3196
LSD (0.20)	NS	-	0.4	4	NS	286
CV (%)	16.5					
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 97-6491	58.2	10-15	1.3	36	1.0	2916
PUBLIC - KS 4694	57.1	10-15	1.0	32	1.0	3075
EXPERIMENTAL - MD 97-5905	56.5	10-15	2.2	42	1.0	3526
DPL - DP4748S	54.8	10-16	2.3	42	1.0	3131
EXPERIMENTAL - MD 96-5696	44.6	FROST	1.0	31	1.0	3572
EXPERIMENTAL - MD 94-5332	39.9	FROST	2.5	38	1.0	3002
PUBLIC - MD 4900	39.6	FROST	1.7	32	1.7	4023
EXPERIMENTAL - MD 96-5275	33.1	FROST	3.3	37	1.0	4192
PUBLIC - MANOKIN	26.2	FROST	3.5	38	3.0	4405
Mean	45.6	-	2.1	36	1.3	3538
LSD (0.20)	4.3	-	0.3	3	0.4	170
CV (%)	8.7					

*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 - MACON	58.6	10-01	1.5	29	1.0	2807
PUBLIC - GENERAL	58.5	10-02	1.2	29	1.0	2939
PUBLIC - IA 3010	57.1	09-29	1.0	24	2.0	3473
S.STATES - SS381-STS	55.7	10-03	2.0	35	1.0	3429
MID ATLANTIC - MA3901	53.9	10-02	1.2	29	1.0	3709
Mean	56.8	-	1.4	29	1.2	3271
LSD (0.20)	NS	-	0.2	2	NS	66
CV (%)	6.9					
MATURITY GROUP IV						
EXPERIMENTAL - MD 96-5722	61.2	10-05	2.5	36	1.0	2705
EXPERIMENTAL - MD 97-6156	60.7	10-06	3.0	35	1.0	2734
PUBLIC - HS 93-4118	60.6	10-03	1.5	32	1.0	3228
PUBLIC - CORSICA	60.3	10-03	1.3	28	1.8	2911
MID ATLANTIC - MA4010-STS	59.7	10-03	1.3	32	1.0	3103
PUBLIC - LS 93-0375	59.6	10-03	1.8	32	1.0	2841
S.STATES - SS439	58.5	10-06	2.0	39	1.0	2871
PUBLIC - STRESSLAND	58.4	10-06	3.2	37	1.0	3574
S.STATES - SS4483N-STS	57.7	10-08	2.2	39	1.0	3187
EXPERIMENTAL - MD 95-5358	53.7	10-03	1.8	34	1.8	2585
Mean	59.0	-	2.1	34	1.2	2974
LSD (0.20)	NS	-	0.6	2	0.1	77
CV (%)	7.5					
MATURITY GROUP IV-S						
EXPERIMENTAL - MD 97-6491	60.6	10-07	2.0	36	1.0	3045
DPL - DP4748S	60.3	10-13	3.5	40	1.0	3059
EXPERIMENTAL - MD 94-5332	58.6	10-15	2.0	30	1.0	2553
PUBLIC - MD 4900	54.7	10-15	1.7	25	1.0	3439
EXPERIMENTAL - MD 96-5696	54.6	10-11	2.3	33	1.0	3599
PUBLIC - KS 4694	53.5	10-10	2.7	36	1.0	3100
EXPERIMENTAL - MD 97-5905	53.5	10-08	2.5	35	1.0	3492
EXPERIMENTAL - MD 96-5275	53.3	10-15	2.7	30	1.0	3535
PUBLIC - MANOKIN	47.2	10-15	3.7	32	1.0	3771
Mean	55.1	-	2.6	33	1.0	3288
LSD (0.20)	3.7	-	0.4	2	NS	152
CV (%)	6.2					

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 - MD 97-6065	53.3	10-16	3.3	30	1.0	3652
PUBLIC - ESSEX	52.7	10-15	2.3	30	1.0	3749
EXPERIMENTAL - TN 96-58	52.3	10-18	3.3	37	1.0	3765
PUBLIC - CLIFFORD	50.5	10-18	3.5	34	1.0	3121
EXPERIMENTAL - V 95-0016	49.5	10-19	3.2	31	1.0	4000
EXPERIMENTAL - MD 97-6590	48.6	10-16	3.3	35	1.0	2970
PUBLIC - HUTCHESON	48.4	10-19	2.7	32	1.0	3265
PUBLIC - HOLLADAY	43.5	10-16	3.5	29	1.5	3770
S.STATES - SS5200-STS	43.2	10-17	3.2	48	1.0	3591
PUBLIC - WICOMICO	40.0	10-17	3.8	33	1.0	3676
Mean	48.2	-	3.2	34	1.1	3556
LSD (0.20)	3.5	-	0.4	3	NS	124
CV (%)	6.6					

*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 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						
S.STATES - SS381-ST5	59.3	10-06	2.7	36	1.0	3614
PUBLIC - GENERAL	57.2	10-02	1.0	28	1.0	3115
PUBLIC - MACON	57.0	10-05	1.8	28	1.0	2928
PUBLIC - IA 3010	54.8	09-29	1.0	22	1.0	3482
MID ATLANTIC - MA3901	52.3	10-04	1.5	28	1.0	3796
Mean	56.1	-	1.6	29	1.0	3387
LSD (0.20)	NS	-	0.4	2	NS	196
CV (%)	9.1					
MATURITY GROUP IV						
S.STATES - SS4483N-ST5	65.8	10-09	2.0	39	1.0	3379
PUBLIC - LS 93-0375	65.8	10-08	1.7	32	1.0	3160
EXPERIMENTAL -MD 96-5722	64.5	10-07	2.7	37	1.0	2943
PUBLIC - HS 93-4118	60.9	10-06	2.0	29	1.0	3320
PUBLIC - CORSICA	58.9	10-05	2.2	30	1.0	3167
PUBLIC - STRESSLAND	58.7	10-09	2.5	38	1.0	3819
EXPERIMENTAL - MD 95-5358	58.6	10-06	2.8	37	1.0	2854
MID ATLANTIC - MA4010-ST5	58.6	10-06	2.2	33	1.0	3232
S.STATES - SS439	56.4	10-06	2.0	38	1.0	3210
EXPERIMENTAL - MD 97-6156	55.7	10-07	3.5	36	1.0	2951
Mean	60.4	-	2.4	35	1.0	3203
LSD (0.20)	3.0	-	0.4	1	NS	114
CV (%)	4.5					
MATURITY GROUP IV-S						
DPL - DP4748S	65.7	10-12	3.5	41	1.0	3087
PUBLIC - KS 4694	61.4	10-09	2.8	34	1.0	3053
EXPERIMENTAL - MD 97-5905	60.3	10-10	3.2	37	1.0	3544
EXPERIMENTAL - MD 94-5332	60.2	10-16	2.0	31	1.0	2633
EXPERIMENTAL - MD 96-5696	59.5	10-11	2.5	33	1.0	3690
EXPERIMENTAL - MD 97-6491	58.9	10-08	2.7	38	1.0	3282
PUBLIC - MD 4900	57.9	10-14	2.3	27	1.0	3492
EXPERIMENTAL - MD 96-5275	52.7	10-16	3.0	31	1.0	3611
PUBLIC - MANOKIN	48.9	10-16	4.0	31	1.0	3411
Mean	58.4	-	2.9	34	1.0	3311
LSD (0.20)	2.3	-	0.2	2	NS	191
CV (%)	3.7					

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	60.5	10-14	3.0	31	1.0	3630
PUBLIC - CLIFFORD	58.5	10-17	3.5	32	1.0	3072
EXPERIMENTAL - MD 97-6590	56.9	10-17	3.2	35	1.0	3096
EXPERIMENTAL - TN 96-58	55.9	10-19	3.5	37	1.0	3669
EXPERIMENTAL - MD 97-6065	55.4	10-17	3.3	36	1.0	3562
PUBLIC - ESSEX	53.4	10-14	2.8	30	1.0	3718
S.STATES - SS5200-STS	52.5	10-18	3.3	45	1.0	3454
EXPERIMENTAL - V 95-0016	51.6	FROST	3.5	36	1.0	4418
PUBLIC - HUTCHESON	50.9	10-17	3.5	32	1.0	3375
PUBLIC - WICOMICO	46.2	10-18	4.0	34	1.0	3527
Mean	54.2	-	3.4	35	1.0	3552
LSD (0.20)	4.6	-	0.3	2	NS	199
CV (%)	7.8					

*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 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						
MID ATLANTIC - MA3901	65.8	10-15	2.0	26	1.0	3611
PUBLIC - IA 3010	62.1	10-13	1.7	25	1.0	2992
PUBLIC - GENERAL	59.8	10-15	2.3	26	1.0	2809
PUBLIC - MACON	59.3	10-14	2.2	27	1.0	2803
S.STATES - SS381-ST5	52.8	10-16	3.3	34	1.0	3481
Mean	60.0	-	2.3	28	1.0	3139
LSD (0.20)	2.6	-	0.4	4	NS	129
CV (%)	3.8					
MATURITY GROUP IV						
EXPERIMENTAL - MD 96-5722	60.2	10-17	3.3	36	1.3	2623
PUBLIC - HS 93-4118	57.1	10-17	3.2	28	1.0	3033
PUBLIC - STRESSLAND	57.1	10-17	3.3	33	1.0	3396
PUBLIC - LS 93-0375	55.5	10-17	2.0	30	1.0	2766
MID ATLANTIC - MA4010-ST5	55.5	10-15	2.7	28	1.0	3086
PUBLIC - CORSICA	54.3	10-15	2.7	30	1.0	2895
EXPERIMENTAL - MD 97-6156	53.9	10-15	3.3	30	1.0	2993
S.STATES - SS4483N-ST5	50.6	10-17	2.3	32	1.0	3407
S.STATES - SS439	47.5	10-16	2.7	29	1.0	2898
EXPERIMENTAL - MD 95-5358	46.9	10-15	2.7	30	2.0	2648
Mean	53.9	-	2.8	30	1.1	2974
LSD (0.20)	6.0	-	0.4	4	0.1	95
CV (%)	10.2					
MATURITY GROUP IV-S						
PUBLIC - KS 4694	55.4	10-17	3.3	33	1.0	2854
EXPERIMENTAL - MD 97-5905	52.6	10-18	3.0	31	1.0	3558
EXPERIMENTAL - MD 96-5696	51.6	FROST	2.8	28	1.0	3922
DPL - DP4748S	50.9	FROST	3.3	36	1.0	3342
EXPERIMENTAL - MD 97-6491	50.6	10-17	2.5	32	1.0	2998
EXPERIMENTAL - MD 94-5332	48.7	FROST	3.3	35	1.0	3032
PUBLIC - MD 4900	44.8	FROST	3.5	23	1.0	4248
EXPERIMENTAL - MD 96-5275	42.5	FROST	3.5	31	1.0	4492
PUBLIC - MANOKIN	42.1	FROST	4.0	28	1.0	4679
Mean	48.8	-	3.3	31	1.0	3680
LSD (0.20)	3.7	-	0.3	4	NS	146
CV (%)	6.9					

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 - TN 96-58	49.4	FROST	3.5	31	1.0	4462
PUBLIC - CLIFFORD	44.7	FROST	3.5	33	1.0	3619
PUBLIC - HOLLADAY	44.5	FROST	3.5	29	1.0	4215
EXPERIMENTAL - MD 97-6590	43.0	FROST	3.2	34	1.0	3700
EXPERIMENTAL - V 95-0016	41.7	FROST	3.3	35	1.0	5134
PUBLIC - ESSEX	41.2	FROST	3.2	30	1.0	4322
PUBLIC - WICOMICO	40.8	FROST	3.5	34	1.0	4569
S.STATES - SS5200-STS	39.8	FROST	3.2	39	1.0	4126
PUBLIC - HUTCHESON	37.1	FROST	3.5	33	1.0	4163
EXPERIMENTAL - MD 97-6065	36.7	FROST	3.3	32	1.0	4852
Mean	41.9	-	3.4	33	1.0	4316
LSD (0.20)	NS	-	0.2	4	NS	263
CV (%)	13.0					

*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 8. Relative yields of standard soybean varieties compared to the mean yield of all varieties in that maturity group at each location in 2001.

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III				
	Relative Yield, % of Mean			
PUBLIC - GENERAL	92	103	102	100
PUBLIC - IA 3010	95	101	98	103
PUBLIC - MACON	96	103*	102	99
MID ATLANTIC - MA3901	107*	95	93	110*
S.STATES - SS381-ST5	111*	98	106*	88
Location/Group Mean Yield	49.2	56.8	56.1	60.0
MATURITY GROUP IV				
PUBLIC - CORSICA	87	102	98	101*
PUBLIC - HS 93-4118	102	103	101	106*
PUBLIC - LS 93-0375	85	101	109*	103*
EXPERIMENTAL - MD 95-5358	96	91	97	87
EXPERIMENTAL - MD 96-5722	106	104*	107*	112*
EXPERIMENTAL - MD 97-6156	83	103	92	100
PUBLIC - STRESSLAND	110	99	97	106*
MID ATLANTIC - MA4010-ST5	117*	101	97	103*
S.STATES - SS439	114	99	93	88
S.STATES - SS4483N-ST5	101	98	109*	94
Location/Group Mean Yield	48.9	59.0	60.4	53.9
MATURITY GROUP IV-S				
DPL - DP4748S	120*	109*	113*	104
PUBLIC - KS 4694	125*	97	105	113*
PUBLIC - MANOKIN	57	86	84	86
PUBLIC - MD 4900	87	99	99	92
EXPERIMENTAL - MD 94-5332	88	106*	103	100
EXPERIMENTAL - MD 96-5275	73	97	90	87
EXPERIMENTAL - MD 96-5696	98	99	102	106
EXPERIMENTAL - MD 97-5905	124*	97	103	108*
EXPERIMENTAL - MD 97-6491	128*	110*	101	104
Location/Group Mean Yield	45.6	55.1	58.4	48.8

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 - CLIFFORD	-	105*	108*	107
PUBLIC - ESSEX	-	109*	99	98
PUBLIC - HOLLADAY	-	90	112*	106
PUBLIC - HUTCHESON	-	101	94	89
EXPERIMENTAL - MD 97-6065	-	111*	102	88
EXPERIMENTAL - MD 97-6590	-	101	105*	103
S.STATES - SS5200-STS	-	90	97	95
EXPERIMENTAL - TN 96-58	-	109*	103*	118*
EXPERIMENTAL - V 95-0016	-	103	95	99
PUBLIC - WICOMICO	-	83	85	97
Location/Group Mean Yield	-	48.2	54.2	41.9

*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, 2000-2001.

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III				
	Seed Yield, Bu/A			
PUBLIC - GENERAL	53.7	61.6	55.6	54.7
PUBLIC - IA 3010	56.7	62.0	54.8	55.6
PUBLIC - MACON	56.5	62.8	57.4	54.7
MID ATLANTIC - MA3901	56.2	61.5	57.8	54.7
S.STATES - SS381-STS	58.2	61.4	58.7	56.0
MATURITY GROUP IV				
PUBLIC - CORSICA	52.8	59.9	54.5	56.7
PUBLIC - HS 93-4118	56.0	62.7	63.2	55.5
PUBLIC - LS 93-0375	53.2	60.3	62.4	52.4
EXPERIMENTAL - MD 95-5358	51.4	58.2	60.3	51.5
EXPERIMENTAL - MD 96-5722	56.8	63.6	63.2	55.9
PUBLIC - STRESSLAND	54.4	63.8	57.4	58.5
MID ATLANTIC - MA4010-STS	60.5	60.2	56.6	54.3
S.STATES - SS439	57.0	62.4	54.4	50.2
S.STATES - SS4483N-STS	54.3	60.6	64.8	50.0
MATURITY GROUP IV-S				
DPL - DP4748S	57.5	62.4	66.9	51.0
PUBLIC - KS 4694	57.0	56.4	65.0	53.9
PUBLIC - MANOKIN	32.9	51.6	58.0	43.8
PUBLIC - MD 4900	41.2	57.0	63.1	49.2
EXPERIMENTAL - MD 94-5332	49.5	60.8	60.5	53.0
EXPERIMENTAL - MD 96-5275	36.2	57.7	58.1	44.8
EXPERIMENTAL - MD 96-5696	46.6	56.1	60.5	53.1
MATURITY GROUP V				
PUBLIC - CLIFFORD	-	53.3	62.4	49.4
PUBLIC - ESSEX	-	53.3	53.8	47.7
PUBLIC - HOLLADAY	-	51.3	61.5	48.6
PUBLIC - HUTCHESON	-	49.7	55.0	45.8
S.STATES - SS5200-STS	-	44.4	51.5	47.4
EXPERIMENTAL - V 95-0016	-	53.4	58.3	49.2
PUBLIC - WICOMICO	-	45.0	54.1	47.6

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						
AGWAY - APK397RR	37.1	NO DATA	1.0	24	1.0	3828
DEKALB - DKB38-51	37.1	-	1.0	23	1.0	3835
VIGORO - V382NRR	36.3	-	1.0	26	1.0	4598
NK - S39-Q4	35.0	-	1.0	23	1.0	3321
MID ATLANTIC - MA3955RR	35.0	-	1.0	22	1.0	3824
ASGROW - AG3903	34.4	-	1.0	25	1.0	4044
S.STATES - RT3799N	34.0	-	1.0	24	1.5	3678
DEKALB - DKB38-52	33.8	-	1.0	21	1.2	4407
NK - R366	33.6	-	1.0	23	1.0	3913
USG - 7398nRR	33.5	-	1.2	29	1.0	4200
SCHILLINGER - 381.RC	33.0	-	1.0	24	1.0	4299
SCHILLINGER - 371.RC	32.6	-	1.0	21	1.0	3395
MID ATLANTIC - MA3888RR	32.6	-	1.0	21	1.0	3890
ASGROW - AG3902	32.2	-	1.0	25	1.0	4037
S.STATES - RT386	32.1	-	1.0	26	1.0	3857
MID ATLANTIC - MA3688RR	31.3	-	1.0	20	1.2	3650
S.STATES - RT3975	30.7	-	1.0	25	1.0	4113
	Mean	33.8	-	1.0	24	1.0
	LSD (0.20)	NS	-	NS	3	0.1
	CV (%)	13.3				
MATURITY GROUP IV						
VIGORO - V450NRR	37.9	NO DATA	1.0	27	1.0	3602
USG - 7459RR	34.0	-	1.2	25	1.0	4217
EXPERIMENTAL - MD 99-0198-3	33.8	-	1.0	28	1.0	4004
DEKALB - DKB45-51	33.4	-	1.0	24	1.0	3888
ASGROW - AG4403	33.3	-	1.0	25	1.0	4450
DEKALB - DKB40-51	32.9	-	1.0	26	1.0	3857
AGRIPRO - 4512RR/N	32.6	-	1.0	27	1.0	4398
SCHILLINGER - 451.RCF	31.3	-	1.0	25	1.0	4200
EXPERIMENTAL - MD 99-0099-1	30.9	-	1.0	27	1.0	4180
SCHILLINGER - 401.RC	30.8	-	1.0	20	1.0	3753
DEKALB - DKB44-51	30.7	-	1.0	24	1.0	4329
S.STATES - RT4495N	30.3	-	1.0	19	1.0	3377
AGRIPRO - 4004RR/N	30.1	-	1.0	27	1.0	4552
EXPERIMENTAL - MD 99-0165-3	30.1	-	1.0	27	1.0	4041
DPL - DP4344RR	30.1	-	1.5	31	1.0	3791
S.STATES - RT4098	29.6	-	1.0	22	1.0	4349
NK - S46-W8	29.6	-	1.2	27	1.0	4032
VIGORO - V422NRR	29.5	-	1.0	22	1.0	4726
AGWAY - APK470NRR	29.3	-	1.0	28	1.0	4336

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 Continued						
USG - 7449nRR	29.2	NO DATA	1.2	23	1.0	3080
S.STATES - RT446N	29.1	-	1.0	24	1.0	3802
VIGORO - V442NRR	29.0	-	1.0	23	1.0	4247
MID ATLANTIC - MA4355RR	28.5	-	1.0	23	1.0	4348
SCHILLINGER - 431.RSC	28.4	-	1.0	20	1.0	3889
USG - EXP440	27.3	-	1.0	22	1.0	4295
CLARKS - CL42RR	27.3	-	1.0	24	1.0	4846
MID ATLANTIC - MA4211RR	27.1	-	1.0	21	1.0	4741
MID ATLANTIC - MA4001RR	24.1	-	1.0	24	1.0	4217
Mean	30.4	-	1.0	25	1.0	4127
LSD (0.20)	NS	-	0.1	3	NS	146
CV (%)	14.8					
MATURITY GROUP IV-S						
VIGORO - V462NRS	31.6	NO DATA	1.0	23	1.0	3424
CLARKS - CL48RR	30.0	-	1.0	23	1.0	3914
SCHILLINGER - 481.RCS	28.2	-	1.0	25	1.0	3874
DPL - DP4690RR	28.0	-	1.0	22	1.0	3984
VIGORO - V472NRR	27.3	-	1.0	23	1.0	3775
S.STATES - RT4980	26.2	-	1.0	20	1.0	3812
USG - 7489RR	26.1	-	1.0	22	1.0	3688
AGWAY - APK471NRR	25.5	-	1.0	20	1.0	3816
EXPERIMENTAL - MD 99-1098-2	24.8	-	1.0	21	1.0	4616
USG - 7478nRR	23.1	-	1.0	24	1.0	4280
EXPERIMENTAL - MD 99-1281-3	20.6	-	1.0	29	1.0	4843
EXPERIMENTAL - MD 99-1353-1	15.9	-	1.0	22	1.0	4883
Mean	25.6	-	1.0	23	1.0	4076
LSD (0.20)	4.1	-	NS	2	NS	165
CV (%)	15.0					

*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 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						
MID ATLANTIC - MA3688RR	53.7	10-09	1.0	28	1.3	3310
DEKALB - DKB38-52	53.4	10-07	1.0	27	1.0	3754
MID ATLANTIC - MA3955RR	51.1	10-07	1.2	28	1.0	3579
NK - S39-Q4	50.5	10-09	1.0	28	1.0	2901
DEKALB - DKB38-51	50.3	10-08	1.0	27	1.0	3499
USG - 7398nRR	50.2	10-10	1.3	34	1.0	3866
VIGORO - V382NRR	50.1	10-09	1.3	33	1.0	4082
ASGROW - AG3902	50.0	10-08	1.3	30	1.0	3825
AGWAY - APK397RR	49.4	10-10	1.3	29	1.0	3530
SCHILLINGER - 371.RC	48.5	10-09	1.0	25	1.0	3180
MID ATLANTIC - MA3888RR	48.2	10-07	1.2	24	1.3	3877
S.STATES - RT3799N	45.5	10-09	1.0	26	1.8	3595
SCHILLINGER - 381.RC	44.7	10-08	1.3	30	1.0	4280
NK - R366	43.6	10-07	1.0	29	1.0	3684
S.STATES - RT386	43.2	10-09	1.2	31	1.0	3730
ASGROW - AG3903	42.6	10-06	1.2	29	1.0	3924
S.STATES - RT3975	42.5	10-07	1.0	29	1.0	3732
Mean	48.1	-	1.1	29	1.1	3668
LSD (0.20)	NS	-	NS	3	0.2	245
CV (%)	12.5					
MATURITY GROUP IV						
EXPERIMENTAL - MD 99-0198-3	53.6	10-11	1.8	35	1.0	3492
S.STATES - RT446N	51.1	10-11	1.0	31	1.0	3559
DPL - DP4344RR	51.0	10-13	2.0	37	1.0	3220
USG - EXP440	50.9	10-11	1.2	31	1.0	3970
DEKALB - DKB45-51	50.5	10-11	1.2	34	1.0	3434
VIGORO - V450NRR	50.3	10-13	1.7	35	1.0	3185
EXPERIMENTAL - MD 99-0165-3	49.8	10-08	1.7	33	1.0	3591
AGRIPRO - 4004RR/N	49.5	10-09	1.5	37	1.0	3661
AGRIPRO - 4512RR/N	48.7	10-12	1.2	30	1.0	3797
S.STATES - RT4098	48.4	10-09	1.2	29	1.0	3874
AGWAY - APK470NRR	47.0	10-13	2.0	39	1.0	3633
SCHILLINGER - 431.RSC	46.9	10-13	1.0	28	1.0	3523
DEKALB - DKB44-51	46.5	10-09	1.2	30	1.0	4179
MID ATLANTIC - MA4355RR	46.5	10-09	1.3	31	1.0	4186
MID ATLANTIC - MA4211RR	46.3	10-08	1.0	32	1.0	4259
DEKALB - DKB40-51	45.7	10-09	1.0	27	1.0	3392
EXPERIMENTAL - MD 99-0099-1	45.6	10-08	1.8	34	1.0	3551
S.STATES - RT4495N	45.5	10-10	1.0	26	1.0	3251
USG - 7459RR	44.5	10-13	1.5	33	1.0	3831

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 Continued						
NK - S46-W8	44.5	10-13	1.2	31	1.0	3605
CLARKS - CL42RR	44.3	10-11	1.2	31	1.0	4124
ASGROW - AG4403	44.1	10-09	1.3	31	1.0	4075
VIGORO - V422NRR	43.7	10-11	1.0	28	1.0	4305
MID ATLANTIC - MA4001RR	43.5	10-07	1.5	34	1.0	3995
SCHILLINGER - 401.RC	42.8	10-08	1.0	27	1.0	3551
VIGORO - V442NRR	42.3	10-10	1.3	32	1.0	3982
USG - 7449nRR	41.6	10-10	1.7	32	1.0	3307
SCHILLINGER - 451.RCF	40.1	10-09	1.0	29	1.0	4251
Mean	46.6	-	1.3	32	1.0	3742
LSD (0.20)	5.0	-	0.4	3	NS	232
CV (%)	10.1					
MATURITY GROUP IV-S						
USG - 7489RR	52.0	10-15	1.3	34	1.0	3355
SCHILLINGER - 481.RCS	51.5	10-15	1.8	34	1.0	3493
S.STATES - RT4980	51.0	10-14	1.7	33	1.0	3405
VIGORO - V462NRS	50.5	10-16	1.3	32	1.0	3205
VIGORO - V472NRR	49.6	10-15	1.5	33	1.0	3353
AGWAY - APK471NRR	48.6	10-13	1.5	31	1.0	3548
DPL - DP4690RR	48.1	10-14	1.3	34	1.0	3554
USG - 7478nRR	46.7	10-13	1.3	35	1.0	3857
CLARKS - CL48RR	46.6	10-15	1.5	32	1.0	3536
EXPERIMENTAL - MD 99-1098-2	46.1	FROST	1.7	29	1.0	3968
EXPERIMENTAL - MD 99-1281-3	36.1	FROST	2.3	37	1.0	4629
EXPERIMENTAL - MD 99-1353-1	33.6	FROST	2.5	33	1.0	4599
Mean	46.7	-	1.7	33	1.0	3708
LSD (0.20)	4.6	-	0.6	3	NS	189
CV (%)	9.2					

*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						
NK - S39-Q4	65.0	10-02	1.3	26	1.0	3007
SCHILLINGER - 371.RC	62.7	10-02	1.3	26	1.0	3110
USG - 7398nRR	61.9	10-02	1.5	32	1.0	3675
S.STATES - RT3799N	60.5	09-30	1.3	26	1.8	3183
AGWAY - APK397RR	59.1	10-04	1.7	30	1.0	3490
ASGROW - AG3903	58.8	10-01	1.8	30	1.0	3615
MID ATLANTIC - MA3955RR	58.6	10-01	1.7	29	1.2	3439
S.STATES - RT386	58.2	10-03	1.8	30	1.0	3394
DEKALB - DKB38-51	58.2	09-30	1.7	26	1.0	3642
MID ATLANTIC - MA3888RR	58.0	10-02	1.2	25	1.0	3642
ASGROW - AG3902	56.8	09-29	1.2	27	1.0	3503
SCHILLINGER - 381.RC	56.2	10-01	1.3	29	1.0	4052
S.STATES - RT3975	56.1	10-01	1.2	30	1.0	3634
VIGORO - V382NRR	55.5	09-30	1.2	29	1.0	3991
DEKALB - DKB38-52	55.2	09-29	1.2	25	1.0	3933
NK - R366	54.8	10-01	1.3	29	1.0	3491
MID ATLANTIC - MA3688RR	51.4	09-29	1.3	25	1.3	3058
	Mean	-	1.4	28	1.1	3521
	LSD (0.20)	-	0.3	2	0.1	129
	CV (%)	6.7				
MATURITY GROUP IV						
VIGORO - V422NRR	69.9	10-07	1.7	32	1.0	4210
USG - EXP440	69.8	10-08	2.3	37	1.0	3603
ASGROW - AG4403	65.7	10-07	1.7	33	1.0	3858
VIGORO - V442NRR	65.5	10-08	1.8	35	1.0	3639
MID ATLANTIC - MA4355RR	64.8	10-08	1.7	35	1.0	3759
SCHILLINGER - 431.RSC	64.5	10-06	2.0	28	1.0	3773
DEKALB - DKB44-51	63.9	10-08	1.7	33	1.0	3888
EXPERIMENTAL - MD 99-0165-3	63.8	10-05	2.2	33	1.0	3482
EXPERIMENTAL - MD 99-0198-3	63.7	10-06	2.2	36	1.0	3555
SCHILLINGER - 451.RCF	63.1	10-07	1.8	32	1.0	3751
CLARKS - CL42RR	62.5	10-07	1.8	33	1.0	4104
DEKALB - DKB45-51	61.2	10-07	1.7	33	1.0	3459
AGRIPRO - 4512RR/N	60.8	10-06	1.7	30	1.0	3782
MID ATLANTIC - MA4211RR	60.6	10-07	2.0	36	1.0	4139
DPL - DP4344RR	60.1	10-10	3.0	36	1.0	3437
DEKALB - DKB40-51	59.7	10-05	1.3	31	1.2	3356
SCHILLINGER - 401.RC	59.2	10-05	1.5	30	1.3	3447
USG - 7459RR	59.1	10-08	2.2	32	1.5	3728
AGWAY - APK470NRR	58.9	10-08	1.7	32	1.0	3825

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 Continued						
EXPERIMENTAL - MD 99-0099-1	58.7	10-05	2.3	35	1.5	3551
NK - S46-W8	58.2	10-07	1.8	33	1.0	3746
S.STATES - RT4495N	57.9	10-06	1.3	29	1.0	3212
AGRIPRO - 4004RR/N	57.8	10-03	1.7	31	1.0	3728
VIGORO - V450NRR	57.7	10-08	1.8	35	1.0	3319
S.STATES - RT4098	57.0	10-05	1.8	32	1.0	3565
S.STATES - RT446N	56.9	10-07	2.2	38	1.0	3264
USG - 7449nRR	55.3	10-08	3.0	33	1.0	3051
MID ATLANTIC - MA4001RR	53.0	10-02	2.7	33	1.0	3952
Mean	61.0	-	1.9	33	1.1	3649
LSD (0.20)	5.6	-	0.4	3	0.1	194
CV (%)	8.7					
MATURITY GROUP IV-S						
VIGORO - V462NRS	70.7	10-09	2.3	32	1.2	3431
DPL - DP4690RR	70.0	10-09	1.7	32	1.0	3451
USG - 7489RR	69.8	10-12	1.8	35	1.0	3394
EXPERIMENTAL - MD 99-1098-2	68.3	10-12	1.5	23	1.0	3934
EXPERIMENTAL - MD 99-1353-1	66.5	10-12	1.3	29	1.0	4200
VIGORO - V472NRR	64.2	10-12	2.2	35	1.0	3360
CLARKS - CL48RR	63.9	10-10	2.0	33	1.3	3466
EXPERIMENTAL - MD 99-1281-3	61.2	10-13	1.8	29	1.0	4004
AGWAY - APK471NRR	60.9	10-09	1.8	34	1.0	3611
S.STATES - RT4980	60.7	10-10	1.7	34	1.2	3562
SCHILLINGER - 481.RCS	59.7	10-11	2.2	35	1.0	3472
USG - 7478nRR	56.7	10-08	2.0	36	1.2	3751
Mean	64.4	-	1.9	32	1.1	3636
LSD (0.20)	5.1	-	0.3	2	NS	129
CV (%)	7.3					
MATURITY GROUP V						
USG - 7509nRR	67.0	10-16	1.8	37	1.0	3107
VIGORO - V512NRR	63.8	10-15	2.0	37	1.0	3307
USG - 7528RR	60.9	10-15	1.7	27	1.0	3477
AGWAY - APK507NRR	60.5	10-16	2.0	40	1.0	4015
EXPERIMENTAL - MD 99-1396-3	57.0	10-15	3.0	35	1.0	4138
S.STATES - RT517N	55.5	10-16	1.8	29	1.0	3155
EXPERIMENTAL - MD 99-0687-3	52.6	10-16	2.2	28	1.0	3419
S.STATES - RT5001N	51.1	10-15	1.8	32	1.0	3554
USG - 7522nRR	49.0	10-15	2.2	31	1.0	3691
Mean	57.5	-	2.1	33	1.0	3540
LSD (0.20)	6.1	-	0.6	4	NS	164
CV (%)	9.7					

*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						
S.STATES - RT3975	57.2	10-15	1.8	37	1.0	3226
NK - S39-Q4	56.3	10-15	1.3	31	1.0	2881
CAMPBELL - 390RR	56.2	10-17	1.0	30	1.0	3046
ASGROW - AG3902	55.9	10-17	1.7	31	1.0	3662
MID ATLANTIC - MA3955RR	55.2	10-17	1.7	30	1.0	2959
ASGROW - AG3903	55.1	10-16	1.8	33	1.0	3428
VIGORO - V382NRR	55.1	10-17	1.7	33	1.0	3782
USG - 7398nRR	54.6	10-17	1.8	37	1.0	3430
AGWAY - APK397RR	53.0	10-17	1.7	31	1.0	3187
NK - R366	52.9	10-17	1.5	32	1.0	3094
S.STATES - RT3799N	52.4	10-15	1.7	32	1.0	3066
SCHILLINGER - 381.RC	51.7	10-17	1.8	32	1.0	3911
S.STATES - RT386	50.1	10-16	2.5	35	1.0	3386
DEKALB - DKB38-52	49.6	10-15	1.3	28	1.0	3639
MID ATLANTIC - MA3688RR	48.7	10-16	1.2	28	1.0	3292
SCHILLINGER - 371.RC	48.2	10-17	1.0	27	1.0	3007
DEKALB - DKB38-51	47.3	10-17	1.2	27	1.0	3353
MID ATLANTIC - MA3888RR	45.0	10-16	1.5	26	1.0	3474
Mean	52.5	-	1.6	31	1.0	3323
LSD (0.20)	3.2	-	0.3	3	NS	100
CV (%)	5.8					
MATURITY GROUP IV						
VIGORO - V450NRR	59.6	10-21	2.2	34	1.0	3145
DPL - DP4344RR	58.5	10-20	3.2	38	1.0	3196
ASGROW - AG4403	57.8	10-18	2.2	35	1.0	3613
VIGORO - V442NRR	57.6	10-18	2.0	34	1.0	3554
USG - 7459RR	57.6	10-18	3.2	37	1.0	3421
S.STATES - RT4098	57.5	10-17	1.5	33	1.0	3244
DEKALB - DKB44-51	57.1	10-16	2.2	35	1.0	3553
CLARKS - CL42RR	56.9	10-17	1.7	34	1.0	3563
MID ATLANTIC - MA4355RR	56.7	10-16	2.5	35	1.0	3499
DEKALB - DKB45-51	56.5	10-18	2.2	38	1.0	2983
SCHILLINGER - 431.RSC	56.3	10-16	1.7	34	1.0	3463
MID ATLANTIC - MA4211RR	56.3	10-17	2.0	34	1.0	3608
USG - 7449nRR	56.1	10-18	3.2	38	1.0	2696
CAMPBELL - 412RR	55.8	10-16	1.5	36	1.0	3473
EXPERIMENTAL - MD 99-0165-3	55.8	10-18	1.8	34	1.0	3320
USG - EXP440	55.4	10-17	2.7	36	1.0	3564
AGRIPRO - 4004RR/N	55.2	10-17	1.8	37	1.0	3386
SCHILLINGER - 451.RCF	54.9	10-16	2.2	35	1.0	3612
S.STATES - RT4495N	54.8	10-17	1.5	32	1.0	2886
DEKALB - DKB40-51	53.4	10-16	1.5	32	1.2	3299
SCHILLINGER - 401.RC	53.1	10-16	1.7	32	1.3	3295

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 Continued						
EXPERIMENTAL - MD 99-0099-1	52.8	10-17	1.8	36	1.3	3203
EXPERIMENTAL - MD 99-0198-3	52.7	10-18	2.2	37	1.0	3372
AGRIPRO - 4512RR/N	52.4	10-18	1.8	34	1.0	3519
S.STATES - RT446N	51.3	10-17	2.3	36	1.0	3196
NK - S46-W8	49.9	10-19	2.3	38	1.0	3612
VIGORO - V422NRR	49.5	10-18	1.7	29	1.0	3681
AGWAY - APK470NRR	49.1	10-17	2.2	41	1.0	3582
MID ATLANTIC - MA4001RR	48.4	10-15	2.8	37	1.0	3612
Mean	54.8	-	2.1	35	1.0	3385
LSD (0.20)	3.7	-	0.5	3	0.1	109
CV (%)	6.5					
MATURITY GROUP IV-S						
CLARKS - CL48RR	56.1	10-19	3.3	38	1.0	3476
DPL - DP4690RR	53.4	10-19	3.2	38	1.0	3412
USG - 7489RR	53.4	10-19	3.3	40	1.0	3528
VIGORO - V472NRR	51.7	10-21	2.8	36	1.0	3594
S.STATES - RT4980	50.6	10-20	3.3	37	1.0	3372
AGWAY - APK471NRR	48.4	10-21	2.8	36	1.0	3572
SCHILLINGER - 481.RCS	46.5	FROST	2.5	34	1.0	3630
USG - 7478nRR	46.2	10-19	2.8	40	1.0	3741
VIGORO - V462NRS	45.1	FROST	3.2	36	1.0	3659
EXPERIMENTAL - MD 99-1098-2	44.7	FROST	3.5	33	1.0	4348
EXPERIMENTAL - MD 99-1281-3	41.1	FROST	3.3	36	1.0	4609
EXPERIMENTAL - MD 99-1353-1	40.7	FROST	3.5	35	1.0	4682
Mean	48.2	-	3.1	37	1.0	3802
LSD (0.20)	2.9	-	0.3	2	NS	129
CV (%)	5.7					
MATURITY GROUP V						
EXPERIMENTAL - MD 99-0687-3	45.9	FROST	3.2	38	1.0	3726
S.STATES - RT517N	45.6	FROST	3.2	41	1.0	3567
USG - 7509nRR	45.5	FROST	2.0	41	1.0	3422
USG - 7528RR	43.9	FROST	3.5	43	1.0	3621
AGWAY - APK507NRR	43.2	FROST	2.0	34	1.0	4762
EXPERIMENTAL - MD 99-1396-3	41.8	FROST	3.2	41	1.0	4709
USG - 7522nRR	40.6	FROST	2.5	40	1.0	4173
VIGORO - V512NRR	39.8	FROST	3.0	42	1.0	3866
S.STATES - RT5001N	39.0	FROST	3.0	46	1.0	4030
Mean	42.8	-	2.8	41	1.0	3986
LSD (0.20)	3.8	-	0.3	3	NS	224
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 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						
NK - S39-Q4	78.3	10-08	1.3	34	1.0	2690
ASGROW - AG3902	77.5	10-08	2.3	37	1.0	3044
MID ATLANTIC - MA3888RR	75.1	10-08	1.8	34	1.0	3434
AGWAY - APK397RR	74.5	10-09	2.2	36	1.0	3033
SCHILLINGER - 371.RC	74.4	10-08	1.3	35	1.0	3001
DEKALB - DKB38-51	72.5	10-07	1.3	32	1.0	3245
S.STATES - RT3799N	72.2	10-06	1.7	35	1.0	2959
MID ATLANTIC - MA3688RR	71.0	10-05	1.5	35	1.0	3193
MID ATLANTIC - MA3955RR	71.0	10-06	1.7	34	1.0	3071
SCHILLINGER - 381.RC	69.6	10-06	2.8	38	1.0	3479
DEKALB - DKB38-52	69.1	10-04	1.2	31	1.0	3475
S.STATES - RT3975	69.0	10-06	2.0	38	1.0	2975
S.STATES - RT386	68.6	10-08	3.2	41	1.0	2984
VIGORO - V382NRR	68.3	10-05	2.3	36	1.0	3764
NK - R366	65.3	10-04	1.7	35	1.0	3124
ASGROW - AG3903	64.3	10-08	1.5	38	1.0	3454
USG - 7398nRR	62.8	10-05	2.2	38	1.0	3372
Mean	70.8	-	1.9	36	1.0	3194
LSD (0.20)	4.0	-	0.4	2	NS	149
CV (%)	5.3					
MATURITY GROUP IV						
SCHILLINGER - 431.RSC	79.1	10-08	1.7	37	1.0	3225
MID ATLANTIC - MA4355RR	76.4	10-10	2.3	39	1.0	3420
USG - 7459RR	75.5	10-09	2.8	39	1.0	3345
DEKALB - DKB45-51	75.3	10-10	3.0	39	1.0	2842
VIGORO - V442NRR	75.3	10-09	2.2	39	1.0	3679
USG - EXP440	74.9	10-10	2.3	41	1.0	3613
DEKALB - DKB40-51	74.7	10-08	1.5	33	1.0	3099
SCHILLINGER - 451.RCF	74.5	10-10	2.2	38	1.0	3693
EXPERIMENTAL - MD 99-0198-3	74.3	10-09	3.5	39	1.0	3250
DEKALB - DKB44-51	74.2	10-10	1.8	37	1.0	3668
VIGORO - V422NRR	73.4	10-09	1.8	36	1.0	3866
AGRIPRO - 4512RR/N	73.2	10-09	1.8	37	1.0	3814
EXPERIMENTAL - MD 99-0165-3	72.7	10-08	2.8	35	1.0	3486
CLARKS - CL42RR	72.6	10-07	2.3	41	1.0	3522
ASGROW - AG4403	72.4	10-08	2.2	39	1.0	3698
VIGORO - V450NRR	71.8	10-12	3.2	36	1.0	3182
S.STATES - RT4098	71.7	10-07	2.0	36	1.0	3225
MID ATLANTIC - MA4211RR	70.9	10-08	1.8	40	1.0	3682
SCHILLINGER - 401.RC	70.3	10-07	1.7	32	1.0	3244
USG - 7449nRR	70.0	10-11	3.3	38	1.0	2697
NK - S46-W8	69.7	10-11	2.7	39	1.0	3363
S.STATES - RT4495N	68.1	10-08	1.5	34	1.0	2909

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 Continued						
DPL - DP4344RR	67.4	10-12	3.3	41	1.0	3304
MID ATLANTIC - MA4001RR	67.1	10-05	3.2	37	1.0	3604
EXPERIMENTAL - MD 99-0099-1	65.6	10-06	3.2	43	1.0	3003
AGWAY - APK470NRR	65.5	10-10	3.2	45	1.0	3600
AGRIPRO - 4004RR/N	65.3	10-05	2.0	35	1.0	3235
S.STATES - RT446N	64.2	10-09	2.3	37	1.0	3203
Mean	71.6	-	2.4	38	1.0	3374
LSD (0.20)	5.3	-	0.4	2	NS	131
CV (%)	6.9					
MATURITY GROUP IV-S						
USG - 7489RR	78.6	10-13	2.7	39	1.0	3296
S.STATES - RT4980	78.3	10-12	2.7	40	1.0	3181
AGWAY - APK471NRR	78.3	10-13	2.2	41	1.0	3203
DPL - DP4690RR	78.1	10-13	2.5	38	1.0	3217
VIGORO - V462NRS	76.3	10-11	2.3	39	1.0	3220
VIGORO - V472NRR	75.3	10-14	2.7	38	1.0	3394
EXPERIMENTAL - MD 99-1098-2	73.9	10-16	2.0	30	1.0	3564
CLARKS - CL48RR	73.5	10-13	2.5	38	1.0	3298
SCHILLINGER - 481.RCS	71.6	10-14	2.8	40	1.0	3225
EXPERIMENTAL - MD 99-1353-1	66.2	10-16	3.0	36	1.0	3913
USG - 7478nRR	64.0	10-10	2.8	42	1.0	3774
EXPERIMENTAL - MD 99-1281-3	60.5	10-16	3.5	37	1.0	3878
Mean	72.9	-	2.6	38	1.0	3430
LSD (0.20)	4.4	-	0.4	2	NS	102
CV (%)	5.6					
MATURITY GROUP V						
USG - 7509nRR	71.2	10-17	2.7	44	1.0	2853
EXPERIMENTAL - MD 99-0687-3	70.1	10-17	2.2	31	1.0	3219
USG - 7522nRR	67.2	10-17	2.5	37	1.0	3603
VIGORO - V512NRR	66.2	10-17	2.8	37	1.0	3490
USG - 7528RR	65.4	10-17	3.5	34	1.0	3294
AGWAY - APK507NRR	64.2	10-17	2.0	42	1.0	4342
S.STATES - RT5001N	62.3	10-17	3.3	41	1.0	3516
EXPERIMENTAL - MD 99-1396-3	61.5	10-17	2.3	32	1.0	4395
S.STATES - RT517N	61.4	10-17	2.3	34	1.0	3067
Mean	65.5	-	2.6	37	1.0	3531
LSD (0.20)	4.3	-	0.4	3	NS	152
CV (%)	6.0					

*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 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 - AG3903	59.1	10-16	2.5	32	1.0	3591
S.STATES - RT3799N	59.0	10-16	2.5	33	1.0	3082
CAMPBELL - 390RR	57.4	10-15	2.7	33	1.0	3100
AGWAY - APK397RR	57.0	10-16	3.0	31	1.0	3100
ASGROW - AG3902	56.6	10-16	2.8	34	1.0	3456
DEKALB - DKB38-51	55.2	10-16	2.2	30	1.0	3165
DEKALB - DKB38-52	55.1	10-14	2.2	29	1.0	3567
MID ATLANTIC - MA3688RR	54.5	10-15	2.5	29	1.0	3202
SCHILLINGER - 381.RC	54.3	10-15	3.0	32	1.0	4018
NK - S39-Q4	54.2	10-16	2.3	32	1.0	2908
MID ATLANTIC - MA3955RR	53.2	10-16	2.8	31	1.0	3054
SCHILLINGER - 371.RC	52.0	10-16	1.5	27	1.0	2999
NK - R366	51.8	10-15	2.3	31	1.0	3287
S.STATES - RT3975	51.0	10-16	3.3	35	1.0	3303
MID ATLANTIC - MA3888RR	50.2	10-16	1.8	28	1.0	3507
USG - 7398nRR	49.0	10-16	3.2	35	1.0	3545
VIGORO - V382NRR	48.5	10-15	3.0	31	1.0	4188
S.STATES - RT386	46.8	10-16	3.3	35	1.0	3489
Mean	53.6	-	2.6	32	1.0	3365
LSD (0.20)	3.0	-	0.4	2	NS	86
CV (%)	5.2					
MATURITY GROUP IV						
MID ATLANTIC - MA4211RR	58.8	10-16	2.7	35	1.0	3650
EXPERIMENTAL - MD 99-0198-3	57.7	10-18	3.5	38	1.0	3835
SCHILLINGER - 401.RC	57.2	10-15	2.5	34	1.0	3320
DEKALB - DKB40-51	57.2	10-15	2.3	32	1.0	3319
EXPERIMENTAL - MD 99-0165-3	56.9	10-15	3.5	34	1.0	3378
VIGORO - V450NRR	56.3	10-19	3.5	37	1.0	3248
CAMPBELL - 412RR	55.9	10-15	2.5	30	1.0	3718
VIGORO - V422NRR	55.5	10-17	2.2	33	1.0	3355
MID ATLANTIC - MA4355RR	55.4	10-17	2.8	34	1.0	3649
DEKALB - DKB44-51	55.4	10-17	3.2	36	1.0	3498
ASGROW - AG4403	55.0	10-17	2.8	34	1.0	3649
S.STATES - RT4495N	54.9	10-18	3.0	33	1.0	2847
MID ATLANTIC - MA4001RR	54.7	10-15	3.5	39	1.0	3691
EXPERIMENTAL - MD 99-0099-1	54.3	10-15	3.5	36	1.0	3336
USG - 7449nRR	54.2	10-18	3.5	36	1.0	3176
CLARKS - CL42RR	54.1	10-16	2.8	37	1.0	3712
VIGORO - V442NRR	53.9	10-17	3.0	33	1.0	3689
DEKALB - DKB45-51	53.9	10-17	3.3	38	1.0	3082
AGWAY - APK470NRR	53.7	10-17	2.7	34	1.0	3443
AGRIPRO - 4512RR/N	53.3	10-17	2.7	32	1.0	3642
SCHILLINGER - 451.RCF	53.3	10-16	3.2	33	1.0	3562

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 Continued						
DPL - DP4344RR	53.0	10-19	3.5	43	1.0	3202
AGRIPRO - 4004RR/N	52.9	10-15	3.0	37	1.0	3634
S.STATES - RT4098	52.6	10-16	2.7	31	1.0	3483
SCHILLINGER - 431.RSC	52.2	10-17	3.0	33	1.0	3455
USG - EXP440	52.2	10-17	3.5	35	1.0	3584
S.STATES - RT446N	51.9	10-18	2.7	36	1.0	3264
USG - 7459RR	51.8	10-17	3.7	37	1.0	3503
NK - S46-W8	51.3	10-17	3.5	36	1.0	3517
Mean	54.5	-	3.0	35	1.0	3464
LSD (0.20)	3.6	-	0.5	3	NS	194
CV (%)	6.3					
MATURITY GROUP IV-S						
S.STATES - RT4980	54.6	FROST	3.5	39	1.0	3428
USG - 7489RR	54.0	FROST	3.8	36	1.0	3500
USG - 7478nRR	52.1	10-17	3.2	38	1.0	3649
VIGORO - V472NRR	51.9	10-19	3.3	37	1.0	3945
DPL - DP4690RR	50.7	FROST	3.5	38	1.0	3516
VIGORO - V462NRS	50.6	FROST	3.5	36	1.0	3397
SCHILLINGER - 481.RCS	50.0	FROST	3.5	35	1.0	3517
AGWAY - APK471NRR	48.9	10-18	3.0	37	1.0	3640
EXPERIMENTAL - MD 99-1281-3	47.5	FROST	3.8	36	1.0	4952
CLARKS - CL48RR	46.9	FROST	3.7	38	1.0	3573
EXPERIMENTAL - MD 99-1353-1	46.0	FROST	3.7	34	1.0	4896
EXPERIMENTAL - MD 99-1098-2	44.1	FROST	3.8	34	1.0	4419
Mean	49.8	-	3.5	37	1.0	3869
LSD (0.20)	3.8	-	0.3	2	NS	315
CV (%)	7.1					
MATURITY GROUP V						
AGWAY - APK507NRR	49.9	FROST	2.7	32	1.0	4057
EXPERIMENTAL - MD 99-0687-3	49.6	FROST	3.5	38	1.0	3878
USG - 7509nRR	49.3	FROST	3.2	36	1.0	3464
VIGORO - V512NRR	46.3	FROST	3.5	40	1.0	3824
USG - 7528RR	45.4	FROST	3.5	38	1.0	3913
S.STATES - RT5001N	45.0	FROST	3.5	40	1.0	4315
S.STATES - RT517N	42.2	FROST	3.5	36	1.0	3629
USG - 7522nRR	42.1	FROST	3.5	38	1.0	4003
EXPERIMENTAL - MD 99-1396-3	41.6	FROST	3.3	37	1.0	4696
Mean	45.7	-	3.4	37	1.0	3976
LSD (0.20)	4.2	-	0.3	NS	NS	473
CV (%)	8.4					

*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 2001.

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quanticco	
			FS	DC	FS	DC
MATURITY GROUP III						
	Relative Yield, % of Mean					
AGWAY - APK397RR	110*	103	102	101	105*	106*
ASGROW - AG3902	95	104	98	106*	109*	106*
ASGROW - AG3903	102	89	101	105*	91	110*
CAMPBELL - 390RR	-	-	-	107*	-	107*
DEKALB - DKB38-51	110*	105	100	90	102	103
DEKALB - DKB38-52	100	111	95	95	98	103
MID ATLANTIC - MA3688RR	93	112*	89	93	100	102
MID ATLANTIC - MA3888RR	96	100	100	86	106*	94
MID ATLANTIC - MA3955RR	103	106	101	105*	100	99
NK - R366	100	91	94	101	92	97
NK - S39-Q4	104	105	112*	107*	111*	101
SCHILLINGER - 371.RC	97	101	108*	92	105*	97
SCHILLINGER - 381.RC	98	93	97	99	98	101
S.STATES - RT386	95	90	100	95	97	87
S.STATES - RT3799N	101	95	104	100	102	110*
S.STATES - RT3975	91	88	97	109*	97	95
USG - 7398nRR	99	104	107*	104*	89	91
VIGORO - V382NRR	107	104	96	105*	96	91
Location/Group Mean Yield	33.8	48.1	58.0	52.5	70.8	53.6
MATURITY GROUP IV						
AGRIPRO - 4004RR/N	99	106*	95	101	91	97
AGRIPRO - 4512RR/N	107	105*	100	96	102	98
AGWAY - APK470NRR	96	101	97	90	92	99
ASGROW - AG4403	110	95	108*	105*	101	101
CAMPBELL - 412RR	-	-	-	102	-	103*
CLARKS - CL42RR	90	95	103	104*	101	99
DEKALB - DKB40-51	108	98	98	97	104*	105*
DEKALB - DKB44-51	101	100	105	104*	104*	102*
DEKALB - DKB45-51	110	108*	100	103*	105*	99
DPL - DP4344RR	99	109*	98	107*	94	97
MID ATLANTIC - MA4001RR	79	93	87	88	94	100
MID ATLANTIC - MA4211RR	89	99	99	103*	99	108*
MID ATLANTIC - MA4355RR	94	100	106*	103*	107*	102*
NK - S46-W8	97	95	95	91	97	94
SCHILLINGER - 401.RC	101	92	97	97	98	105*
SCHILLINGER - 431.RSC	93	101	106*	103*	110*	96
SCHILLINGER - 451.RCF	103	86	103	100	104*	98
S.STATES - RT446N	96	110*	93	94	90	95
S.STATES - RT4098	97	104	93	105*	100	97
S.STATES - RT4495N	100	98	95	100	95	101
USG - EXP440	90	109*	114*	101	105*	96

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

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
MATURITY GROUP IV Continued			Relative Yield, % of Mean			
USG - 7449nRR	96	89	91	102*	98	100
USG - 7459RR	112	96	97	105*	105*	95
VIGORO - V422NRR	97	94	115*	90	102	102*
VIGORO - V442NRR	96	91	107*	105*	105*	99
VIGORO - V450NRR	125*	108*	95	109*	100	103*
EXPERIMENTAL - MD 99-0099-1	102	98	96	96	92	100
EXPERIMENTAL - MD 99-0165-3	99	107*	105	102	101	104*
EXPERIMENTAL - MD 99-0198-3	111	115*	104	96	104*	106*
Location/Group Mean Yield	30.4	46.6	61.0	54.8	71.6	54.5
MATURITY GROUP IV-S						
AGWAY - APK471NRR	100	104*	95	100	107*	98
CLARKS - CL48RR	117*	100	99	116*	101	94
DPL - DP4690RR	109*	103*	109*	111*	107*	102
SCHILLINGER - 481.RCS	110*	110*	93	96	98	100
S.STATES - RT4980	102	109*	94	105	107*	110*
USG - 7478nRR	90	100	88	96	88	105*
USG - 7489RR	102	111*	108*	111*	108*	108*
VIGORO - V462NRS	123*	108*	110*	94	105*	102
VIGORO - V472NRR	107	106*	100	107	103*	104*
EXPERIMENTAL - MD 99-1098-2	97	99	106*	93	101	89
EXPERIMENTAL - MD 99-1281-3	80	77	95	85	83	95
EXPERIMENTAL - MD 99-1353-1	62	72	103*	84	91	92
Location/Group Mean Yield	25.6	46.7	64.4	48.2	72.9	49.8
MATURITY GROUP V						
AGWAY APK507NRR	-	-	105	101*	98	109*
S.ST. RT517N	-	-	97	107*	94	92
S.ST. RT5001N	-	-	89	91	95	99
USG 7509nRR	-	-	117*	106*	109*	108*
USG 7522nRR	-	-	85	95	103*	92
USG 7528RR	-	-	106*	102*	100	99
VIGORO V512NRR	-	-	111*	93	101	101*
MD 99-0687-3	-	-	91	107*	107*	109*
MD 99-1396-3	-	-	99	98	94	91
Location/Group Mean Yield	-	-	57.5	42.8	65.5	45.7

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 years of Roundup Ready soybean varieties grown at four Maryland locations, 2000-2001.

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
MATURITY GROUP III			Seed Yield, Bu/A			
DEKALB - DKB38-51	49.1	54.4	66.3	50.0	74.2	55.5
NK - S39-Q4	48.0	55.1	68.0	54.1	77.7	56.2
S.STATES - RT386	46.5	48.6	65.7	50.8	67.8	51.3
S.STATES - RT3799N	47.7	50.1	63.6	49.2	70.4	57.1
S.STATES - RT3975	45.3	49.3	62.0	53.3	69.0	52.2
USG - 7398nRR	47.0	53.6	67.6	52.2	65.5	51.4
MATURITY GROUP IV						
ASGROW - AG4403	46.4	50.1	72.0	56.6	73.8	53.7
DEKALB - DKB44-51	46.5	51.3	69.1	55.6	74.0	54.4
DPL - DP4344RR	41.1	51.0	63.6	53.8	69.6	51.7
MID ATLANTIC - MA4001RR	38.9	49.3	59.8	47.9	70.0	52.2
MID ATLANTIC - MA4211RR	43.1	52.8	67.7	54.4	71.7	51.8
NK - S46-W8	41.4	46.2	62.3	48.6	72.9	52.1
S.STATES - RT446N	41.2	52.4	62.0	47.1	65.9	51.7
S.STATES - RT4098	43.6	53.7	67.7	54.7	73.0	50.1
S.STATES - RT4495N	41.2	52.2	63.7	50.0	66.7	52.4
USG - 7449nRR	41.6	46.6	64.6	56.2	75.7	53.6
USG - 7459RR	47.2	50.1	67.5	54.8	74.7	52.7
MATURITY GROUP IV-S						
AGWAY - APK471NRR	40.1	50.6	62.5	47.4	73.6	50.3
CLARKS - CL48RR	45.7	49.9	66.7	53.5	77.7	52.6
DPL - DP4690RR	43.9	49.0	68.7	52.9	77.5	53.1
S.STATES - RT4980	44.2	50.5	70.0	51.2	74.6	55.8
USG - 7478nRR	38.7	47.6	58.8	45.6	67.4	51.7
USG - 7489RR	43.7	54.9	71.5	53.1	78.1	54.6
MATURITY GROUP V						
S.STATES - RT517N	-	-	56.7	41.8	60.8	44.6
USG - 7509nRR	-	-	65.6	44.7	69.1	51.8

FS= Full Season, DC= Double Crop

Table 18. Seed protein content of standard soybean varieties grown at three Maryland locations, 2001

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III		Protein, %		
PUBLIC - GENERAL	40.8	42.7	40.6	39.5
PUBLIC - IA 3010	37.3	39.5	38.6	36.7
PUBLIC - MACON	39.7	41.1	40.0	38.5
MID ATLANTIC - MA3901	39.4	41.2	39.5	39.2
S.STATES - SS381-STS	38.7	41.8	40.8	39.3
MATURITY GROUP IV				
PUBLIC - CORSICA	39.9	42.1	41.2	40.0
PUBLIC - HS 93-4118	39.3	41.0	39.7	37.8
PUBLIC - LS 93-0375	39.9	42.1	40.3	40.0
EXPERIMENTAL - MD 95-5358	38.5	41.6	39.7	39.1
EXPERIMENTAL - MD 96-5722	38.4	41.7	40.5	39.3
EXPERIMENTAL - MD97-6156	39.6	42.0	40.3	40.5
PUBLIC - STRESSLAND	40.2	43.9	41.6	40.9
MID ATLANTIC - MA4010-STS	38.0	41.2	40.3	40.0
S.STATES - SS439	38.8	41.4	40.7	40.3
S.STATES - SS4483N-STS	39.9	42.5	40.5	39.6
MATURITY GROUP IV-S				
DPL - DP4748S	36.5	41.2	39.6	38.3
PUBLIC - KS 4694	37.5	41.1	39.8	39.7
PUBLIC - MANOKIN	32.7	40.5	38.1	36.6
PUBLIC - MD 4900	34.3	39.1	38.7	35.9
EXPERIMENTAL - MD 94-5332	37.1	40.8	38.9	39.0
EXPERIMENTAL - MD 96-5275	36.2	41.6	40.1	38.2
EXPERIMENTAL - MD 96-5696	38.8	42.1	40.9	39.9
EXPERIMENTAL - MD 97-5905	34.8	40.6	39.1	37.7
EXPERIMENTAL - MD 97-6491	41.1	42.9	42.0	41.8
MATURITY GROUP V				
PUBLIC - CLIFFORD	-	40.5	39.2	38.8
PUBLIC - ESSEX	-	42.3	42.6	41.2
PUBLIC - HOLLADAY	-	39.4	37.4	38.4
PUBLIC - HUTCHESON	-	40.5	39.8	39.8
EXPERIMENTAL - MD 97-6065	-	39.1	37.7	36.4
EXPERIMENTAL - MD 97-6590	-	40.8	40.3	39.3
S.STATES - SS5200-STS	-	41.5	39.9	39.9
EXPERIMENTAL - TN 96-58	-	41.1	40.3	39.6
EXPERIMENTAL - V 95-0016	-	40.4	38.1	37.7
PUBLIC - WICOMICO	-	43.0	41.0	39.3

Table 19. Seed oil content of standard soybean varieties grown at three Maryland locations, 2001.

BRAND – ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
MATURITY GROUP III				
			Oil, %	
PUBLIC – GENERAL	20.2	20.5	21.0	20.9
PUBLIC - IA 3010	20.6	20.8	20.4	20.9
PUBLIC – MACON	20.5	20.8	21.3	20.8
MID ATLANTIC - MA3901	20.2	20.5	20.4	21.4
S.STATES - SS381-STS	19.7	19.9	19.9	18.7
MATURITY GROUP IV				
PUBLIC – CORSICA	19.8	20.2	20.1	20.6
PUBLIC - HS 93-4118	19.1	20.0	19.9	19.6
PUBLIC - LS 93-0375	19.6	20.2	20.5	20.2
EXPERIMENTAL - MD 95-5358	19.3	20.0	20.2	19.5
EXPERIMENTAL - MD 96-5722	20.1	19.9	20.1	19.9
EXPERIMENTAL - MD97-6156	19.8	19.9	21.1	20.1
PUBLIC – STRESSLAND	20.2	19.4	19.6	20.0
MID ATLANTIC - MA4010-STS	20.6	20.4	20.1	21.0
S.STATES - SS439	20.5	21.0	21.0	19.9
S.STATES - SS4483N-STS	20.3	20.0	20.7	20.5
MATURITY GROUP IV-S				
DPL - DP4748S	20.2	20.3	20.7	19.8
PUBLIC - KS 4694	20.4	19.5	20.4	20.5
PUBLIC - MANOKIN	18.7	18.5	19.7	18.6
PUBLIC - MD 4900	18.7	19.1	20.1	18.4
EXPERIMENTAL - MD 94-5332	19.1	20.5	20.5	18.9
EXPERIMENTAL - MD 96-5275	19.3	20.2	19.1	18.1
EXPERIMENTAL - MD 96-5696	19.4	19.2	19.5	20.1
EXPERIMENTAL - MD 97-5905	21.6	19.6	20.0	20.1
EXPERIMENTAL - MD 97-6491	20.0	19.2	20.0	19.1
MATURITY GROUP V				
PUBLIC - CLIFFORD	-	19.1	19.4	17.9
PUBLIC - ESSEX	-	18.7	18.9	17.8
PUBLIC - HOLLADAY	-	18.6	20.1	18.3
PUBLIC - HUTCHESON	-	20.1	20.4	18.7
EXPERIMENTAL - MD 97-6065	-	19.0	19.6	17.1
EXPERIMENTAL - MD 97-6590	-	18.4	18.5	16.6
S.STATES - SS5200-STS	-	18.4	19.3	17.4
EXPERIMENTAL - TN 96-58	-	18.9	19.4	18.6
EXPERIMENTAL - V 95-0016	-	18.1	19.1	17.2
PUBLIC - WICOMICO	-	17.5	18.1	18.0

Table 20. Protein content of Roundup Ready soybean varieties grown at four Maryland locations, 2001.

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
MATURITY GROUP III			Protein, %			
AGWAY - APK397RR	38.5	39.5	40.0	39.7	39.3	39.3
ASGROW - AG3902	38.9	40.2	41.0	39.0	41.6	39.6
ASGROW - AG3903	38.3	40.0	40.2	40.4	41.0	39.6
CAMPBELL - 390RR	-	-	-	40.3	-	39.2
DEKALB - DKB38-51	39.1	39.9	39.9	40.1	40.4	39.5
DEKALB - DKB38-52	37.2	38.9	39.4	38.5	39.9	38.4
MID ATLANTIC - MA3688RR	39.8	39.8	42.1	40.4	41.0	39.7
MID ATLANTIC - MA3888RR	38.6	39.2	40.4	39.7	39.4	38.8
MID ATLANTIC - MA3955RR	39.5	39.9	40.7	40.0	39.7	39.2
NK - R366	40.0	40.9	41.3	40.4	40.1	39.5
NK - S39-Q4	38.9	39.2	40.7	39.9	40.2	39.5
SCHILLINGER - 371.RC	38.5	39.9	41.1	39.7	39.7	39.4
SCHILLINGER - 381.RC	37.8	40.0	40.3	39.8	39.5	38.7
S.STATES - RT386	38.6	39.6	41.5	40.1	41.0	40.5
S.STATES - RT3799N	37.4	37.0	40.4	39.1	39.4	38.0
S.STATES - RT3975	40.6	41.1	42.0	41.8	42.3	41.1
USG - 7398nRR	40.4	39.7	42.1	41.4	41.4	41.1
VIGORO - V382NRR	38.5	39.0	40.2	40.3	39.4	38.4
MATURITY GROUP IV						
AGRIPRO - 4004RR/N	40.2	41.1	41.6	41.4	41.4	40.4
AGRIPRO - 4512RR/N	36.4	37.4	38.6	39.0	38.1	38.8
AGWAY - APK470NRR	38.6	39.1	41.2	40.6	40.1	38.8
ASGROW - AG4403	36.9	38.5	39.7	39.2	39.1	39.3
CAMPBELL - 412RR	-	-	-	39.6	-	39.8
CLARKS - CL42RR	37.9	39.4	40.9	40.4	40.8	40.1
DEKALB - DKB40-51	37.8	39.3	40.1	39.1	39.5	39.4
DEKALB - DKB44-51	36.4	38.8	39.0	39.2	38.4	39.0
DEKALB - DKB45-51	38.9	39.8	40.9	40.6	41.3	40.5
DPL - DP4344RR	37.4	38.4	40.8	40.9	40.3	40.8
MID ATLANTIC - MA4001RR	39.0	39.4	40.4	40.1	41.0	39.8
MID ATLANTIC - MA4211RR	38.0	40.0	40.2	40.5	40.8	40.2
MID ATLANTIC - MA4355RR	36.2	38.2	38.6	38.5	38.5	39.0
NK - S46-W8	37.2	39.0	40.9	40.4	40.9	40.6
SCHILLINGER - 401.RC	37.9	40.1	39.7	39.0	38.9	39.0
SCHILLINGER - 431.RSC	37.3	38.9	39.7	39.4	40.3	39.6
SCHILLINGER - 451.RCF	36.5	39.2	39.0	39.4	38.3	39.2
S.STATES - RT446N	39.7	40.8	42.6	41.2	41.2	40.2
S.STATES - RT4098	38.9	39.6	39.8	39.1	39.6	39.0
S.STATES - RT4495N	39.9	41.0	41.4	40.9	41.4	39.8
USG - EXP440	36.3	37.5	39.1	39.3	37.8	39.2
USG - 7449nRR	37.2	39.4	40.4	39.7	38.8	39.6

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

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantic	
			FS	DC	FS	DC
MATURITY GROUP IV Continued			Protein, %			
USG - 7459RR	37.2	37.0	39.9	39.8	38.5	39.1
VIGORO - V422NRR	37.1	39.0	39.8	40.2	39.2	39.3
VIGORO - V442NRR	35.7	37.8	38.6	39.0	38.5	38.5
VIGORO - V450NRR	37.1	38.9	40.7	39.7	40.1	40.4
EXPERIMENTAL - MD 99-0099-1	38.8	41.5	41.2	40.4	41.5	40.9
EXPERIMENTAL - MD 99-0165-3	38.1	39.3	40.6	40.0	40.2	39.6
EXPERIMENTAL - MD 99-0198-3	37.8	39.9	41.4	40.7	40.9	40.8
MATURITY GROUP IV-S						
AGWAY - APK471NRR	37.6	37.2	39.8	40.4	38.8	39.4
CLARKS - CL48RR	35.0	37.3	38.5	39.3	38.3	39.0
DPL - DP4690RR	35.5	37.7	40.1	39.8	38.6	39.9
SCHILLINGER - 481.RCS	36.9	38.8	39.3	39.4	39.3	39.7
S.STATES - RT4980	35.4	37.4	39.2	39.1	37.9	39.4
USG - 7478nRR	38.6	38.6	41.2	40.6	40.2	41.3
USG - 7489RR	34.7	36.6	38.3	39.4	38.6	39.1
VIGORO - V462NRS	37.3	37.9	39.5	39.8	40.3	40.3
VIGORO - V472NRR	37.2	38.1	39.6	39.8	39.4	39.9
EXPERIMENTAL - MD 99-1098-2	33.4	36.1	38.2	38.9	36.6	38.1
EXPERIMENTAL - MD 99-1281-3	32.3	33.0	38.3	38.8	36.7	37.0
EXPERIMENTAL - MD 99-1353-1	34.0	35.5	39.1	39.3	37.5	37.8
MATURITY GROUP V						
AGWAY - APK507NRR	-	-	39.5	38.7	37.3	40.5
S.STATES - RT517N	-	-	41.4	39.3	40.4	39.7
S.STATES - RT5001N	-	-	42.2	41.0	40.8	40.1
USG - 7509nRR	-	-	39.5	39.8	39.5	40.9
USG - 7522nRR	-	-	41.8	39.7	40.7	40.9
USG - 7528RR	-	-	39.2	38.6	39.3	38.6
VIGORO - V512NRR	-	-	42.1	41.3	40.5	41.1
EXPERIMENTAL - MD 99-0687-3	-	-	40.5	38.8	39.4	38.9
EXPERIMENTAL - MD 99-1396-3	-	-	40.4	38.3	38.4	40.5

FS= Full Season, DC= Double Crop

Table 21. Oil content of Roundup Ready soybean varieties grown at four Maryland locations, 2001.

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
MATURITY GROUP III			Oil, %			
AGWAY - APK397RR	20.4	19.8	20.1	19.6	20.1	20.1
ASGROW - AG3902	21.0	19.9	20.4	19.5	19.6	20.4
ASGROW - AG3903	20.9	19.9	20.7	18.3	19.7	19.2
CAMPBELL - 390RR	-	-	-	19.7	-	20.5
DEKALB - DKB38-51	21.2	19.7	20.8	20.0	21.1	21.4
DEKALB - DKB38-52	22.4	20.9	21.4	19.8	20.6	21.2
MID ATLANTIC - MA3688RR	20.1	19.7	19.8	18.6	20.4	20.4
MID ATLANTIC - MA3888RR	20.3	19.5	19.8	18.9	20.5	20.2
MID ATLANTIC - MA3955RR	20.8	20.1	20.9	20.5	20.7	20.1
NK - R366	20.8	19.6	20.4	18.8	20.6	20.3
NK - S39-Q4	20.8	20.1	20.6	20.0	20.7	19.9
SCHILLINGER - 371.RC	21.6	20.3	21.1	19.7	20.6	20.1
SCHILLINGER - 381.RC	21.9	19.4	20.2	18.7	20.5	20.2
S.STATES - RT386	22.3	20.9	20.9	20.1	21.8	20.1
S.STATES - RT3799N	21.9	21.1	21.4	20.1	20.7	20.3
S.STATES - RT3975	21.1	19.5	20.4	18.9	20.7	19.6
USG - 7398nRR	20.5	20.5	20.5	19.6	20.8	19.8
VIGORO - V382NRR	21.0	19.8	20.2	18.6	20.6	19.7
MATURITY GROUP IV						
AGRIPRO - 4004RR/N	20.4	20.6	20.4	19.4	20.7	20.1
AGRIPRO - 4512RR/N	21.5	20.9	21.3	19.6	21.2	20.6
AGWAY - APK470NRR	20.4	20.5	19.8	19.1	19.9	20.4
ASGROW - AG4403	21.4	20.1	20.5	19.8	21.1	20.2
CAMPBELL - 412RR	-	-	-	19.4	-	20.4
CLARKS - CL42RR	21.0	20.2	19.0	19.2	20.3	19.5
DEKALB - DKB40-51	21.5	20.0	21.0	19.8	21.1	20.4
DEKALB - DKB44-51	21.7	19.9	21.0	20.1	21.5	20.2
DEKALB - DKB45-51	21.6	20.5	20.6	19.9	20.4	20.3
DPL - DP4344RR	20.9	20.2	19.2	19.4	20.0	20.2
MID ATLANTIC - MA4001RR	21.1	20.3	20.7	20.3	20.3	19.9
MID ATLANTIC - MA4211RR	20.7	19.2	19.5	18.8	19.8	19.6
MID ATLANTIC - MA4355RR	22.2	20.3	20.7	20.2	21.5	20.5
NK - S46-W8	20.8	19.1	19.6	19.1	19.5	19.5
SCHILLINGER - 401.RC	22.0	19.7	20.5	20.2	21.0	20.5
SCHILLINGER - 431.RSC	21.4	19.9	20.4	19.3	20.8	20.2
SCHILLINGER - 451.RCF	21.7	19.6	21.2	20.1	21.3	20.4
S.STATES - RT446N	20.4	18.7	19.2	19.8	20.0	19.4
S.STATES - RT4098	21.2	20.1	22.0	20.0	21.5	20.7
S.STATES - RT4495N	21.6	20.4	20.7	20.0	20.5	20.1
USG - EXP440	21.6	20.7	21.2	19.7	21.6	20.6

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

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
MATURITY GROUP IV Continued			Oil, %			
USG - 7449nRR	21.9	20.0	20.8	20.0	21.6	20.2
USG - 7459RR	21.3	21.3	20.9	20.2	21.3	20.4
VIGORO - V422NRR	21.1	19.6	19.5	19.4	20.5	19.9
VIGORO - V442NRR	22.1	20.4	20.9	19.8	21.3	20.6
VIGORO - V450NRR	21.2	20.0	20.6	18.9	20.4	19.3
EXPERIMENTAL - MD 99-0099-1	19.9	18.2	20.1	18.0	21.5	19.9
EXPERIMENTAL - MD 99-0165-3	21.8	20.6	22.0	20.0	21.1	20.8
EXPERIMENTAL - MD 99-0198-3	20.5	19.6	19.2	18.9	20.1	18.3
MATURITY GROUP IV-S						
AGWAY - APK471NRR	21.2	20.4	20.6	20.7	20.1	19.7
CLARKS - CL48RR	22.0	20.8	21.1	19.6	20.9	20.4
DPL - DP4690RR	21.9	20.8	20.8	19.6	21.2	20.5
SCHILLINGER - 481.RCS	21.2	19.9	20.6	19.7	20.3	19.4
S.STATES - RT4980	21.5	20.6	20.7	19.8	21.5	20.7
USG - 7478nRR	20.9	20.4	19.2	18.2	19.5	19.1
USG - 7489RR	22.2	20.7	20.7	19.8	21.2	21.0
VIGORO - V462NRS	22.0	20.6	21.5	19.6	22.4	19.7
VIGORO - V472NRR	21.2	20.6	20.4	18.7	20.7	19.5
EXPERIMENTAL - MD 99-1098-2	18.9	18.4	19.5	16.4	19.8	17.6
EXPERIMENTAL - MD 99-1281-3	18.4	18.0	18.6	16.3	18.7	17.0
EXPERIMENTAL - MD 99-1353-1	19.6	18.9	19.6	16.7	19.8	18.1
MATURITY GROUP V						
AGWAY - APK507NRR	-	-	19.9	19.1	20.8	19.1
S.STATES - RT517N	-	-	18.7	18.0	19.4	17.1
S.STATES - RT5001N	-	-	18.2	15.7	19.0	16.6
USG - 7509nRR	-	-	19.9	18.9	20.5	18.6
USG - 7522nRR	-	-	17.7	16.3	18.2	16.8
USG - 7528RR	-	-	19.9	17.9	20.8	19.3
VIGORO - V512NRR	-	-	18.0	16.4	18.8	16.6
EXPERIMENTAL - MD 99-0687-3	-	-	19.1	17.7	19.7	18.7
EXPERIMENTAL - MD 99-1396-3	-	-	17.6	16.2	18.5	17.8

FS= Full Season, DC= Double Crop