

**Agronomy Facts No. 32**  
**Revised January 2001**

**2000 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 2000 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 newly released public variety MD 4900 (Maryland) as well as experimental lines from Maryland (MD 94-5332, MD 94-5396, MD 94-5463, MD 95-5260, MD 95-5358, MD 96-5275, MD 96-5472, MD 96-5502, MD 96-5696, MD 96-5722), North Carolina (N 94-546), Tennessee (TN 93-87, TN 93-99, TN 94-213), and Virginia (V 92-0254, V 95-0016) were included in the 2000 tests. The suppliers of private varieties are listed in Table 1.

The Maryland tests are designed to evaluate varieties at several planting dates and on various soil types within the soybean production areas of the state. Recommended cultural practices were followed in the establishment of each test. Tillage, row spacing, seeding rates, and plot length varied between tests and locations as shown in Table 2. Seed yield was determined on center rows of each plot, and plots were trimmed to a uniform length just prior to harvest. Each plot was replicated three times in each test and location. Seed moisture was determined on each plot at harvest and seed yield was adjusted to a 13% moisture level. Plant height and lodging were determined at maturity when 95% of the pods on each variety had attained their mature color. The number of seeds per pound was determined from 100-seed weights made on each plot. The appearance of the seed from each plot was given a score from 1 (best) to 5 (worst) based on the amount of wrinkled or cracked seed coats present.

The 2000 growing season was very favorable for soybean production across the state. The monthly rainfall for each location is shown in Table 3. Rainfall was plentiful and well distributed throughout the growing season at each location and resulted in excellent plant growth. Seed yields in the 2000 tests are among the highest ever recorded in the state variety tests. Scattered frost during the weeks of October 9 and 24 affected maturity of varieties at Clarksville, Keedysville, Queenstown (Double Crop), and Quantico (Double Crop).

Results of the 2000 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 Queenstown for the standard varieties and at Quantico for the Roundup Ready varieties.

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

The performance of a variety for several years or at several locations in the same year gives a better indication of its yield potential and agronomic characteristics than do data from a single year. As an aid in assessing the performance of individual varieties in the test, a relative yield value was calculated. Tables 8 and 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. 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 Maryland Cropping Systems webpage:

<http://www.agnr.umd.edu/users/nrsl/crops>

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Table 1. Suppliers of private soybean varieties tested in 2000.

Supplier	Brand	Herbicide Reaction	Entry
Agway Farm Seeds Tully, NY 13159	AGWAY	Roundup Ready	APK404NRR, APK436NRR, APK448NRR, APK471NRR
Clark Seeds, Inc. Kenton, DE 19955	CLARKS	Roundup Ready	CL44RR, CL47NRR, CL48RR
Delta & Pine Land Co. Centre, AL 35960	DELTAPINE	Roundup Ready Standard	DP4344RR, DP4690RR DP4748S
Garst Seed Co. Providence Forge, VA 23140	GARST	Roundup Ready Standard	D399RR/N, D437RR/N D385, D4882
	AGRIPRO	Roundup Ready	AP4319RR/N
Hoffman Seeds, Inc. Landisville, PA 17538	NK	Roundup Ready	X039R, S42-M1, S46-G2, S46-W8
Mid-Atlantic Seeds York, PA 17403	MID ATLANTIC	Roundup Ready  Standard	MA3720RR, MA4001RR, MA4211nRR, MA4220RR, MA4520RR, MA5000RR MA3420, MA3555, MA3822, MA3901, MA4010-STS, MA4311n
Monsanto Company Dekalb, IL 60115	ASGROW	Roundup Ready	AG3702, AG3901, AG4101, AG4301, AG4403, AG4602, AG4902
	DEKALB	Roundup Ready	CX391RR, CX444cRR, CX480cRR, DKB38-51, DKB44-51
Royster-Clarke, Inc. Mt. Sterling. OH 43143	VIGORO	Roundup Ready Standard	V450NRR, V492NRR V410SCN
Southern States Cooperative, Inc. Richmond, VA 26234	S.STATES	Roundup Ready	RT386, RT3799N, RT3975, RT446N, RT4098, RT4495N, RT4980, RT517N, RT557N, XRT5399
		Standard	SS381-STS, SS3896-STS, SS3971, SS439, SS493, SS4299N, SS4483N-STS, SS4899, SS4985-STS, XP47576-STS, XP47583-STS, XP5409N
UniSouth Genetics, Inc. Nashville, TN 37211	USG	Roundup Ready	7398nRR, 7449nRR, 7459RR, 7478nRR, 7489RR, 7499nRR, 7509nRR, EXP510NRR

Table 2. The 2000 soybean variety test plot information.

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

Tests: Roundup Ready Maturity Groups III, IV, and IV-S  
Planting Date: June 15  
Row Spacing: 24 inches  
Soil Type: Swanpon-Funkstown silt loam  
Soil Test: pH 6.5, P Index- Excess, K Index- Excess  
Previous Crop: Wheat  
Fertilizer: None  
Lime: None  
Herbicide: 1 qt/A Roundup Ultra on June 8 and July 3  
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 30  
Row Spacing: 24 inches  
Soil Type: Delanco silt loam  
Soil Test: pH 6.4, P Index- Optimum, K Index- Excessive  
Previous Crop: Corn  
Fertilizer: None  
Lime: None  
Herbicide: 1 qt/A Roundup Ultra on August 4  
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 30  
Row Spacing: 24 inches  
Soil Type: Evesboro silt loam  
Soil Test: pH 6.4, P Index- Optimum, 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)

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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 8  
Row Spacing: 24 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 6.5, P Index- Optimum, K Index- Optimum  
Previous Crop: Corn  
Fertilizer: None  
Lime: None  
Herbicide: PPI: 5.1 oz/A Canopy XL + 1 pt/A Dual Magnum  
Plots: 4 rows, 20 ft long  
Seeding Rate: 6.5 seeds/ft  
Tillage: Conventional

Tests: Full Season Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V  
Planting Date: June 9  
Row Spacing: 24 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 5.7, P Index- Excess, K Index- Optimum  
Previous Crop: Corn  
Fertilizer: None  
Lime: None  
Herbicide: 1 qt/A Roundup Ultra on July 6  
Plots: 4 rows, 20 ft long  
Seeding Rate: 6.5 seeds/ft  
Tillage: Conventional

Tests: Double Crop Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V  
Planting Date: July 6  
Row Spacing: 7.5 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 6.3, P Index- Excess, K Index- Excess  
Previous Crop: Wheat  
Fertilizer: None  
Lime: None  
Herbicide: 1 qt/A Roundup Ultra on August 8  
Plots: 7 rows, 25 ft long  
Seeding Rate: 3.5 seeds/ft  
Tillage: None

Table 2. (Continued)

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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 1  
Row Spacing: 24 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 6.2, P Index- Optimum, K Index- Optimum  
Previous Crop: Grain sorghum  
Fertilizer: 200 lbs/A of 0-16-38  
Lime: None  
Herbicide: 1.6 pt/A Dual 8E, 13 oz/A Lorox DF, 3 oz/A Canopy  
Plots: 4 rows, 20 ft long  
Seeding Rate: 6.5 seeds/ft  
Tillage: Conventional

Tests: Full Season Roundup Ready Varieties Maturity Groups III, IV, IV-S, and V  
Planting Date: June 2  
Row Spacing: 20 inches  
Soil Type: Mattapex silt loam  
Soil Test: pH 6.3, P Index- Excess, K Index- Optimum  
Previous Crop: No-till  
corn  
Fertilizer: 200 lbs/A of 0-15-40  
Lime: None  
Herbicide: Early preemergence: 1qt/A Roundup Ultra, 12oz/A 2,4-D, 1 pt/A Dual 8E  
Post emergence: 1 qt/A Roundup Ultra on July 2  
Plots: 4 rows, 20 ft long  
Seeding Rate: 6.5 seeds/ft  
Tillage: None

Tests: Double Crop Standard Varieties Maturity Groups III, IV, IV-S, and V  
Planting Date: July 10  
Row Spacing: 20 inches  
Soil Type: Mattapex silt loam  
Soil Test: pH 6.3, P Index- Optimum, 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)

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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: July 10  
 Row Spacing: 20 inches  
 Soil Type: Mattapex silt loam  
 Soil Test: pH 6.3, P Index- Optimum, K Index- Optimum  
 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 August 10  
 Plots: 4 rows, 20 ft long  
 Seeding Rate: 8 seeds/ft  
 Tillage: None

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

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Location	May	June	July	Aug.	Sept.	Oct.	Season
Keedysville	2.30	4.06	6.67	2.90	5.36	0.40	21.69
Clarksville	2.94	3.22	3.89	2.63	6.13	0.28	19.09
Queenstown	3.99	3.82	6.81	2.85	4.72	0.35	22.54
Quantico	2.15	5.90	5.02	3.88	3.41	0.10	20.46

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

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
PUBLIC - IA 3010	66.7	FROST	1.2	28	1.0	2761
PUBLIC - MACON	65.9	FROST	1.5	30	1.0	2216
GARST - D385	64.8	FROST	1.3	29	1.0	2573
PUBLIC - CROTON 3.9	64.0	FROST	3.0	35	1.0	2581
MID ATLANTIC - MA3420	64.0	FROST	2.2	31	1.0	2554
S.STATES - SS3896-STS	63.9	FROST	3.2	33	1.0	2365
S.STATES - SS3971	62.9	FROST	2.8	34	1.0	3116
MID ATLANTIC - MA3555	62.5	FROST	1.3	31	1.0	2669
PUBLIC - GENERAL	62.3	FROST	1.5	31	1.0	2444
S.STATES - SS381-STS	61.6	FROST	3.5	37	1.0	3310
MID ATLANTIC - MA3822	60.2	FROST	2.2	34	1.0	2973
MID ATLANTIC - MA3901	59.7	FROST	2.5	35	1.0	3093
PUBLIC - BASS	56.8	FROST	3.2	35	1.0	3276
<b>Mean</b>	<b>62.7</b>	<b>-</b>	<b>2.3</b>	<b>33</b>	<b>1.0</b>	<b>2764</b>
<b>LSD (0.20)</b>	<b>3.0</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>NS</b>	<b>194</b>
<b>CV (%)</b>	<b>4.4</b>					
<b>MATURITY GROUP IV</b>						
PUBLIC - LS93-0375	64.9	FROST	1.5	33	1.0	2643
EXPERIMENTAL - MD 94-5463	64.4	FROST	2.2	33	1.0	2342
MID ATLANTIC - MA4010-STS	63.8	FROST	3.3	33	1.0	2891
PUBLIC - CORSICA	63.1	FROST	2.3	34	1.0	2745
PUBLIC - HS93-4118	62.1	FROST	3.2	34	1.0	3052
EXPERIMENTAL - MD 96-5722	61.5	FROST	3.0	37	1.0	2668
MID ATLANTIC - MA4311n	60.2	FROST	2.8	40	1.0	2841
S.STATES - SS4483N-STS	59.1	FROST	2.8	40	1.0	2986
S.STATES - SS439	58.2	FROST	2.7	40	1.0	2632
VIGORO - V410SCN	56.2	FROST	2.0	38	1.0	3192
EXPERIMENTAL - MD 95-5358	56.0	FROST	3.3	38	1.3	2479
PUBLIC - STRESSLAND	55.1	FROST	3.3	40	1.0	2985
S.STATES - SS4299N	52.5	FROST	3.2	37	1.0	2967
PUBLIC - LS92-4173	50.5	FROST	3.3	38	1.0	3020
<b>Mean</b>	<b>59.1</b>	<b>-</b>	<b>2.8</b>	<b>37</b>	<b>1.0</b>	<b>2817</b>
<b>LSD (0.20)</b>	<b>3.6</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>0.1</b>	<b>94</b>
<b>CV (%)</b>	<b>5.6</b>					

Table 4. (Continued) Clarksville - Standard Soybean Varieties

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
GARST - D4882	61.0	FROST	3.3	40	1.0	2941
DELTAPINE - DP4748S	60.1	FROST	3.5	39	1.0	2872
EXPERIMENTAL - MD 94-5332	59.0	FROST	3.3	34	1.0	2967
PUBLIC - KS 4694	56.8	FROST	2.7	35	1.0	2806
PUBLIC - CHESAPEAKE	50.8	FROST	3.7	36	1.0	3324
EXPERIMENTAL - MD 96-5472	50.7	FROST	3.8	36	1.0	2827
S.STATES - SS493	50.5	FROST	2.5	40	1.0	3664
EXPERIMENTAL - MD 96-5696	48.5	FROST	2.8	32	1.0	3761
S.STATES - SS4899	45.1	FROST	3.7	40	1.0	3517
EXPERIMENTAL - MD 94-5396	43.1	FROST	3.5	36	1.0	4217
PUBLIC - MD 4900	42.8	FROST	4.0	29	1.0	4341
PUBLIC - MANOKIN	39.6	FROST	4.0	34	1.0	4525
EXPERIMENTAL - MD 96-5275	39.3	FROST	3.8	29	1.0	4719
S.STATES - SS4985-STS	37.7	FROST	4.0	36	1.0	4149
EXPERIMENTAL - TN 93-87	26.8	FROST	4.0	40	1.0	4790
<b>Mean</b>	<b>47.4</b>	<b>-</b>	<b>3.5</b>	<b>36</b>	<b>1.0</b>	<b>3695</b>
<b>LSD (0.20)</b>	<b>2.3</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>NS</b>	<b>173</b>
<b>CV (%)</b>	<b>4.6</b>					

\*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.

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
MID ATLANTIC - MA3901	69.1	10-05	2.0	40	1.0	2992
PUBLIC - CROTON 3.9	68.0	10-03	2.3	38	1.0	2717
GARST - D385	67.4	10-03	1.7	34	1.0	2583
S.STATES - SS381-STS	67.0	10-06	3.3	41	1.0	2766
PUBLIC - MACON	67.0	10-04	2.0	35	1.0	2484
PUBLIC - IA 3010	66.9	9-30	1.2	29	1.0	2998
S.STATES - SS3971	65.8	10-05	2.7	40	1.0	3006
MID ATLANTIC - MA3555	65.5	10-04	1.7	32	1.0	2664
MID ATLANTIC - MA3420	64.9	10-04	2.5	36	1.0	2576
PUBLIC - GENERAL	64.6	10-03	1.8	35	1.0	2678
PUBLIC - BASS	64.3	10-04	2.2	38	1.0	2866
S.STATES - SS3896-STS	62.9	10-03	2.8	34	1.0	2355
MID ATLANTIC - MA3822	62.8	10-04	2.0	39	1.0	2623
<b>Mean</b>	<b>65.9</b>	<b>-</b>	<b>2.2</b>	<b>36</b>	<b>1.0</b>	<b>2716</b>
<b>LSD (0.20)</b>	<b>NS</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>NS</b>	<b>83</b>
<b>CV (%)</b>	<b>6.3</b>					
<b>MATURITY GROUP IV</b>						
PUBLIC - STRESSLAND	69.2	10-06	3.3	41	1.0	2896
S.STATES - SS439	66.3	10-05	2.8	40	1.0	2522
EXPERIMENTAL - MD 96-5722	65.9	10-06	3.3	41	1.0	2474
PUBLIC - HS93-4118	64.8	10-05	2.0	35	1.0	3111
S.STATES - SS4483N-STS	63.4	10-13	3.3	43	1.0	2615
EXPERIMENTAL - MD 95-5358	62.6	10-07	3.5	40	1.0	2392
MID ATLANTIC - MA4311n	62.3	10-13	2.8	43	1.0	2841
EXPERIMENTAL - MD 94-5463	60.9	10-04	2.7	35	1.0	2418
PUBLIC - LS93-0375	60.9	10-06	2.7	37	1.0	2549
MID ATLANTIC - MA4010-STS	60.7	10-05	2.3	36	1.0	2909
S.STATES - SS4299N	59.9	10-08	2.7	41	1.0	2700
PUBLIC - CORSICA	59.4	10-03	2.2	34	1.0	2903
VIGORO - V410SCN	57.8	10-08	2.5	40	1.0	2936
PUBLIC - LS92-4173	55.6	10-11	3.5	39	1.0	2829
<b>Mean</b>	<b>62.1</b>	<b>-</b>	<b>2.8</b>	<b>39</b>	<b>1.0</b>	<b>2721</b>
<b>LSD (0.20)</b>	<b>4.8</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>NS</b>	<b>90</b>
<b>CV (%)</b>	<b>7.2</b>					

Table 5. (Continued) Queenstown - Standard Soybean Varieties

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
S.STATES - SS4985-ST5	68.9	10-20	3.7	39	1.0	3054
GARST - D4882	67.6	10-11	3.5	39	1.0	3089
DELTAPINE - DP4748S	64.5	10-16	3.5	42	1.0	2745
EXPERIMENTAL - MD 94-5396	63.3	10-17	3.2	35	1.0	3296
S.STATES - SS493	63.2	10-13	2.8	42	1.0	2995
EXPERIMENTAL - MD 94-5332	62.9	10-17	2.7	35	1.0	2356
EXPERIMENTAL - TN 93-87	62.3	10-19	3.5	40	1.0	3266
EXPERIMENTAL - MD 96-5275	62.0	10-17	3.5	33	1.0	3404
S.STATES - SS4899	61.7	10-17	3.3	44	1.0	2461
PUBLIC - KS 4694	59.3	10-15	3.3	39	1.0	2554
PUBLIC - MD 4900	59.2	10-17	3.3	27	1.0	2988
EXPERIMENTAL - MD 96-5696	57.6	10-14	2.8	36	1.0	3053
PUBLIC - MANOKIN	56.0	10-16	3.7	35	1.0	3313
PUBLIC - CHESAPEAKE	51.9	10-16	3.5	37	1.0	3321
EXPERIMENTAL - MD 96-5472	50.3	10-16	3.8	36	1.0	2582
<b>Mean</b>	<b>60.7</b>	<b>-</b>	<b>3.3</b>	<b>37</b>	<b>1.0</b>	<b>2965</b>
<b>LSD (0.20)</b>	<b>4.8</b>	<b>-</b>	<b>0.2</b>	<b>3</b>	<b>NS</b>	<b>127</b>
<b>CV (%)</b>	<b>7.4</b>					
<b>MATURITY GROUP V</b>						
PUBLIC - HOLLADAY	59.1	10-17	3.7	33	1.0	2890
S.STATES - XP47576-ST5	58.0	10-31	3.7	43	1.0	2767
S.STATES - XP5409N	57.8	10-24	3.0	38	1.0	2945
EXPERIMENTAL - V 95-0016	57.2	10-25	3.8	34	1.0	3438
PUBLIC - CLIFFORD	56.1	10-19	3.8	35	1.0	2684
PUBLIC - ACCOMAC	54.9	10-26	4.0	40	1.0	3312
EXPERIMENTAL - V 92-0254	54.7	10-26	3.5	38	1.0	3075
PUBLIC - DELSOY 5710	54.1	10-31	3.5	40	1.0	2954
PUBLIC - ESSEX	53.9	10-17	3.7	29	1.0	3273
EXPERIMENTAL - TN 93-99	53.4	10-26	3.3	39	1.0	3077
EXPERIMENTAL - MD 95-5260	52.6	10-18	3.3	37	1.0	3130
EXPERIMENTAL - N 94-546	52.2	10-26	3.7	37	1.0	2738
PUBLIC - HUTCHESON	50.9	10-25	3.7	38	1.0	3161
PUBLIC - FOWLER	50.5	10-25	3.8	38	1.0	3045
EXPERIMENTAL - TN 94-213	50.1	10-22	3.2	36	1.0	3328
PUBLIC - WICOMICO	50.0	10-18	4.0	36	1.0	2939
PUBLIC - ANAND	49.2	10-24	3.3	35	1.2	2789
EXPERIMENTAL - MD 96-5502	46.7	10-21	3.5	40	1.0	3012
S.STATES - XP47583-ST5	45.6	10-22	3.5	47	1.0	3263
<b>Mean</b>	<b>53.0</b>	<b>-</b>	<b>3.6</b>	<b>37</b>	<b>1.0</b>	<b>3043</b>
<b>LSD (0.20)</b>	<b>5.1</b>	<b>-</b>	<b>0.2</b>	<b>2</b>	<b>NS</b>	<b>131</b>
<b>CV (%)</b>	<b>9.0</b>					

\*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 at Quantico in a full-season planting.

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
S.STATES - SS3971	63.4	9-29	2.0	34	1.0	2897
MID ATLANTIC - MA3901	63.3	10-01	2.5	39	1.0	2986
MID ATLANTIC - MA3555	59.1	9-27	1.8	29	1.0	2668
MID ATLANTIC - MA3822	58.9	9-28	2.0	32	1.3	2628
S.STATES - SS381-STS	58.1	9-30	3.0	36	1.0	2691
PUBLIC - MACON	57.7	9-25	1.3	29	1.0	2478
PUBLIC - IA 3010	54.8	9-20	1.0	27	1.7	2953
S.STATES - SS3896-STS	54.5	9-24	2.0	31	1.2	2254
PUBLIC - BASS	54.5	9-28	2.7	36	1.0	2824
PUBLIC - GENERAL	53.9	9-23	1.3	30	1.0	2596
GARST - D385	52.1	9-23	2.0	30	1.3	2605
PUBLIC - CROTON 3.9	51.5	9-26	2.2	35	1.3	2880
MID ATLANTIC - MA3420	51.2	9-23	1.8	30	1.0	2706
<b>Mean</b>	<b>56.4</b>	<b>-</b>	<b>2.0</b>	<b>32</b>	<b>1.1</b>	<b>2705</b>
<b>LSD (0.20)</b>	<b>NS</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>0.2</b>	<b>106</b>
<b>CV (%)</b>	<b>12.0</b>					
<b>MATURITY GROUP IV</b>						
PUBLIC - HS93-4118	65.4	9-28	2.5	36	1.0	2781
S.STATES - SS4483N-STS	63.8	10-05	2.7	43	1.2	2679
MID ATLANTIC - MA4311n	63.5	10-06	2.3	42	1.7	2717
EXPERIMENTAL - MD 95-5358	62.0	10-02	3.5	43	2.0	2192
EXPERIMENTAL - MD 96-5722	61.8	10-06	2.5	43	1.5	2249
PUBLIC - LS92-4173	60.2	10-06	3.2	41	1.2	2705
VIGORO - V410SCN	59.7	10-03	1.7	40	1.0	2772
PUBLIC - LS93-0375	59.0	10-01	1.8	38	1.2	2592
S.STATES - SS4299N	58.7	10-03	2.3	38	1.0	2664
PUBLIC - STRESSLAND	56.0	10-02	3.0	41	1.0	3011
EXPERIMENTAL - MD 94-5463	55.4	9-29	2.0	36	1.8	2292
MID ATLANTIC - MA4010-STS	54.6	9-29	2.0	35	1.0	2774
S.STATES - SS439	52.4	10-01	2.5	42	1.0	2526
PUBLIC - CORSICA	50.0	9-25	1.8	35	1.0	2680
<b>Mean</b>	<b>58.8</b>	<b>-</b>	<b>2.4</b>	<b>39</b>	<b>1.3</b>	<b>2617</b>
<b>LSD (0.20)</b>	<b>4.8</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>0.2</b>	<b>68</b>
<b>CV (%)</b>	<b>7.7</b>					

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

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
GARST - D4882	71.6	10-06	2.8	42	1.0	2700
PUBLIC - KS 4694	68.5	10-09	2.2	40	1.0	2485
PUBLIC - MD 4900	68.2	10-13	3.5	30	1.0	2841
DELTAPINE - DP4748S	68.0	10-12	3.2	48	1.0	2563
PUBLIC - MANOKIN	67.0	10-11	3.5	38	1.0	3362
S.STATES - SS4985-ST5	66.4	10-16	4.0	39	1.0	2785
EXPERIMENTAL - MD 94-5396	64.1	10-16	3.0	37	1.0	3173
EXPERIMENTAL - MD 96-5275	63.5	10-12	3.2	33	1.0	3289
EXPERIMENTAL - MD 96-5696	61.5	10-06	2.5	35	1.0	2987
PUBLIC - CHESAPEAKE	61.3	10-09	3.3	39	1.0	2945
S.STATES - SS4899	61.2	10-10	3.2	44	1.0	2642
EXPERIMENTAL - MD 94-5332	60.8	10-13	2.3	35	1.0	2257
EXPERIMENTAL - TN 93-87	59.9	10-12	3.8	39	1.0	3526
S.STATES - SS493	59.1	10-06	1.8	44	1.0	2878
EXPERIMENTAL - MD 96-5472	56.2	10-09	4.2	35	1.0	2438
<b>Mean</b>	<b>63.8</b>	<b>-</b>	<b>3.1</b>	<b>39</b>	<b>1.0</b>	<b>2858</b>
<b>LSD (0.20)</b>	<b>5.0</b>	<b>-</b>	<b>0.4</b>	<b>3</b>	<b>NS</b>	<b>95</b>
<b>CV (%)</b>	<b>7.3</b>					
<b>MATURITY GROUP V</b>						
PUBLIC - CLIFFORD	66.3	10-18	3.2	38	1.0	2650
EXPERIMENTAL - V 95-0016	65.0	10-19	3.5	36	1.0	3429
EXPERIMENTAL - V 92-0254	64.8	10-21	3.7	36	1.0	3087
PUBLIC - ANAND	63.8	10-18	3.2	35	1.0	2738
EXPERIMENTAL - TN 93-99	62.6	10-20	3.8	36	1.0	2865
PUBLIC - HOLLADAY	62.4	10-15	3.3	33	1.0	3181
PUBLIC - WICOMICO	61.9	10-17	3.3	37	1.0	2980
S.STATES - XP5409N	61.1	10-18	3.2	40	1.0	2952
PUBLIC - DELSOY 5710	61.0	10-22	3.7	44	1.0	3068
EXPERIMENTAL - MD 96-5502	59.9	10-17	3.5	37	1.0	2921
EXPERIMENTAL - MD 95-5260	59.2	10-17	3.7	36	1.0	3052
PUBLIC - HUTCHESON	59.1	10-21	3.3	34	1.0	2952
EXPERIMENTAL - TN 94-213	58.7	10-19	2.7	38	1.0	3257
EXPERIMENTAL - N 94-546	56.5	10-18	3.5	37	1.0	2871
PUBLIC - ACCOMAC	55.0	10-21	3.5	47	1.0	3241
PUBLIC - FOWLER	54.5	10-19	3.7	40	1.0	2805
PUBLIC - ESSEX	54.2	10-14	3.5	34	1.0	2900
S.STATES - XP47576-ST5	51.6	10-23	3.5	44	1.0	2549
S.STATES - XP47583-ST5	50.4	10-19	3.0	51	1.0	3025
<b>Mean</b>	<b>59.4</b>	<b>-</b>	<b>3.4</b>	<b>38</b>	<b>1</b>	<b>2975</b>
<b>LSD (0.20)</b>	<b>NS</b>	<b>-</b>	<b>0.2</b>	<b>3</b>	<b>NS</b>	<b>134</b>
<b>CV (%)</b>	<b>11.7</b>					

\*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 planted at Quantico in a double-cropped planting.

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
S.STATES - SS381-STS	59.2	10-26	1.8	27	1.0	3233
MID ATLANTIC - MA3555	51.5	10-25	1.2	23	1.3	2719
PUBLIC - MACON	50.1	10-22	1.2	21	1.0	2603
PUBLIC - GENERAL	49.5	10-24	1.2	22	1.0	2623
MID ATLANTIC - MA3420	49.4	10-26	1.0	22	1.0	2675
GARST - D385	49.3	10-24	1.0	21	1.3	2640
PUBLIC - IA 3010	49.0	10-20	1.0	17	1.7	2783
S.STATES - SS3971	48.2	10-26	1.0	24	1.0	3279
MID ATLANTIC - MA3822	48.0	10-26	1.7	24	1.5	3007
PUBLIC - BASS	44.7	10-24	1.3	23	1.0	3413
S.STATES - SS3896-STS	44.3	10-26	1.2	21	1.0	2401
PUBLIC - CROTON 3.9	44.2	10-26	1.7	25	1.7	2859
MID ATLANTIC - MA3901	43.6	10-25	1.2	23	1.0	3297
<b>Mean</b>	<b>48.5</b>	<b>-</b>	<b>1.3</b>	<b>23</b>	<b>1.2</b>	<b>2887</b>
<b>LSD (0.20)</b>	<b>4.5</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>0.2</b>	<b>87</b>
<b>CV (%)</b>	<b>8.7</b>					
<b>MATURITY GROUP IV</b>						
PUBLIC - STRESSLAND	59.8	10-30	1.5	28	1.0	3020
PUBLIC - CORSICA	59.1	10-27	1.0	21	1.0	2582
EXPERIMENTAL - MD 95-5358	56.1	10-28	1.2	25	1.0	2563
MID ATLANTIC - MA4311n	54.1	10-30	1.0	23	1.0	2862
PUBLIC - HS93-4118	53.8	10-27	1.3	24	1.0	2812
MID ATLANTIC - MA4010-STS	53.0	10-30	1.3	25	1.0	3035
S.STATES - SS439	52.9	10-30	1.3	27	1.0	2617
EXPERIMENTAL - MD 96-5722	51.6	10-28	1.0	24	1.0	2426
PUBLIC - LS92-4173	50.7	10-30	1.8	27	1.0	3089
S.STATES - SS4299N	50.7	10-31	1.3	25	1.0	2733
S.STATES - SS4483N-STS	49.3	11-01	1.3	27	1.0	2757
PUBLIC - LS93-0375	49.2	10-29	1.0	23	1.0	2703
EXPERIMENTAL - MD 94-5463	49.2	10-27	1.2	21	1.0	2312
VIGORO - V410SCN	46.7	10-30	1.0	25	1.0	2878
<b>Mean</b>	<b>52.6</b>	<b>-</b>	<b>1.2</b>	<b>25</b>	<b>1.0</b>	<b>2742</b>
<b>LSD (0.20)</b>	<b>5.7</b>	<b>-</b>	<b>0.2</b>	<b>1</b>	<b>NS</b>	<b>143</b>
<b>CV (%)</b>	<b>10.1</b>					

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

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
EXPERIMENTAL - MD 94-5332	57.3	FROST	2.2	27	1.2	2343
EXPERIMENTAL - TN 93-87	57.2	FROST	2.2	28	1.0	3387
GARST - D4882	57.1	FROST	1.7	27	1.0	3024
S.STATES - SS4899	56.5	FROST	1.8	26	1.0	3100
S.STATES - SS4985-ST5	55.2	FROST	2.2	30	1.0	2985
EXPERIMENTAL - MD 96-5472	55.1	FROST	1.5	28	1.2	2663
EXPERIMENTAL - MD 96-5696	54.5	FROST	1.7	27	1.0	3385
PUBLIC - CHESAPEAKE	53.8	FROST	2.0	25	1.2	3370
PUBLIC - MD 4900	53.6	FROST	1.7	25	1.0	3371
S.STATES - SS493	52.8	FROST	2.0	30	1.0	3371
PUBLIC - KS 4694	52.3	FROST	1.2	25	1.0	2545
EXPERIMENTAL - MD 94-5396	51.1	FROST	2.3	29	1.0	3249
DELTAPINE - DP4748S	51.0	FROST	1.7	27	1.0	2873
EXPERIMENTAL - MD 96-5275	47.0	FROST	1.5	27	1.0	3631
PUBLIC - MANOKIN	45.5	FROST	3.0	28	1.0	3381
<b>Mean</b>	<b>53.3</b>	<b>-</b>	<b>1.9</b>	<b>27</b>	<b>1.0</b>	<b>3112</b>
<b>LSD (0.20)</b>	<b>4.8</b>	<b>-</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>93</b>
<b>CV (%)</b>	<b>8.5</b>					
<b>MATURITY GROUP V</b>						
EXPERIMENTAL - MD 95-5260	57.6	FROST	2.0	26	1.0	3311
EXPERIMENTAL - V 95-0016	56.6	FROST	2.3	26	1.0	3612
PUBLIC - ANAND	56.1	FROST	1.0	26	1.0	3189
S.STATES - XP47583-ST5	55.0	FROST	2.3	34	1.0	3352
PUBLIC - HUTCHESON	54.5	FROST	2.2	25	1.0	3227
PUBLIC - WICOMICO	54.3	FROST	3.0	29	1.0	3011
PUBLIC - ESSEX	54.2	FROST	1.3	24	1.0	3350
PUBLIC - CLIFFORD	54.0	FROST	2.5	26	1.0	2747
EXPERIMENTAL - MD 96-5502	53.3	FROST	1.3	25	1.0	3203
EXPERIMENTAL - N 94-546	53.1	FROST	2.3	24	1.0	2960
PUBLIC - HOLLADAY	52.7	FROST	1.2	22	1.0	3403
S.STATES - XP5409N	52.6	FROST	2.2	26	1.0	3094
EXPERIMENTAL - TN 93-99	52.4	FROST	2.5	26	1.0	3173
EXPERIMENTAL - TN 94-213	52.0	FROST	1.2	22	1.0	3503
PUBLIC - FOWLER	51.7	FROST	2.5	27	1.0	3463
EXPERIMENTAL - V 92-0254	50.6	FROST	2.0	25	1.0	3445
PUBLIC - ACCOMAC	49.9	FROST	2.8	31	1.0	3445
S.STATES - XP47576-ST5	47.8	FROST	2.2	27	1.0	3052
PUBLIC - DELSOY 5710	43.9	FROST	3.0	30	1.0	3801
<b>Mean</b>	<b>52.8</b>	<b>-</b>	<b>2.1</b>	<b>26</b>	<b>1.0</b>	<b>3281</b>
<b>LSD (0.20)</b>	<b>3.8</b>	<b>-</b>	<b>0.6</b>	<b>3</b>	<b>NS</b>	<b>94</b>
<b>CV (%)</b>	<b>6.7</b>					

\*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 2000.

BRAND - ENTRY	Clarksville	Queenstown	Quantic	
			Full Season	Double Crop
<b>MATURITY GROUP III</b>				
	<b>Relative Yield, % of Mean</b>			
PUBLIC - BASS	91	98	97	92
PUBLIC - CROTON 3.9	102*	103	91	91
GARST - D385	103*	102	92	102
PUBLIC - GENERAL	99	98	95	102
PUBLIC - IA 3010	106*	101	97	101
PUBLIC - MACON	105*	102	102	103
MID ATLANTIC - MA3420	102*	98	91	102
MID ATLANTIC - MA3555	100	99	105	106
MID ATLANTIC - MA3822	96	95	104	99
MID ATLANTIC - MA3901	95	105*	112*	90
S.STATES - SS381-STS	98	102	103	122*
S.STATES - SS3896-STS	102*	95	97	91
S.STATES - SS3971	100	100	112*	99
<b>Location/Group Mean Yield</b>	<b>62.7</b>	<b>65.9</b>	<b>56.4</b>	<b>48.5</b>
<b>MATURITY GROUP IV</b>				
PUBLIC - CORSICA	107*	96	85	112*
PUBLIC - HS93-4118	105*	104*	111*	102
PUBLIC - LS92-4173	85	90	102	96
PUBLIC - LS93-0375	110*	98	100	94
MID ATLANTIC - MA4010-STS	108*	98	93	101
MID ATLANTIC - MA4311n	102	100	108*	103
EXPERIMENTAL - MD 94-5463	109*	98	94	93
EXPERIMENTAL - MD 95-5358	95	101	105*	107*
EXPERIMENTAL - MD 96-5722	104*	106*	105*	98
VIGORO - V410SCN	95	93	102	89
S.STATES - SS439	99	107*	89	101
S.STATES - SS4299N	89	96	100	96
S.STATES - SS4483N-STS	100	102	108*	94
PUBLIC - STRESSLAND	93	112*	95	114*
<b>Location/Group Mean Yield</b>	<b>59.1</b>	<b>62.1</b>	<b>58.8</b>	<b>52.6</b>
<b>MATURITY GROUP IV-S</b>				
PUBLIC - CHESAPEAKE	107	85	96	101*
DELTAPINE - DP4748S	127*	106*	107*	96
GARST - D4882	129*	111*	112*	107*
PUBLIC - KS 4694	120	98	107*	98

Table 8. (Continued) Relative Yields, Standard Varieties

BRAND - ENTRY	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
<b>MATURITY GROUP IV-S (Con't.)</b>				
	<b>Relative Yield, % of Mean</b>			
PUBLIC - MANOKIN	84	92	105*	85
PUBLIC - MD 4900	90	98	107*	101*
EXPERIMENTAL - MD 94-5332	125*	104	95	108*
EXPERIMENTAL - MD 94-5396	91	104	100	96
EXPERIMENTAL - MD 96-5275	83	102	99	88
EXPERIMENTAL - MD 96-5472	107	83	88	103*
EXPERIMENTAL - MD 96-5696	102	95	96	102*
S.STATES - SS493	107	104	93	99*
S.STATES - SS4899	95	102	96	106*
S.STATES - SS4985-STS	80	114*	104	104*
EXPERIMENTAL - TN 93-87	57	103	94	107*
<b>Location/Group Mean Yield</b>	<b>47.4</b>	<b>60.7</b>	<b>63.8</b>	<b>53.3</b>
<b>MATURITY GROUP V</b>				
PUBLIC - ACCOMAC	-	104*	93	95
PUBLIC - ANAND	-	93	107	106*
PUBLIC - CLIFFORD	-	106*	112*	102*
PUBLIC - DELSOY 5710	-	102*	103	83
PUBLIC - ESSEX	-	102	91	103*
PUBLIC - FOWLER	-	95	92	98
PUBLIC - HOLLADAY	-	112*	105	100
PUBLIC - HUTCHESON	-	96	99	103*
EXPERIMENTAL - MD 95-5260	-	99	100	109*
EXPERIMENTAL - MD 96-5502	-	88	101	101
EXPERIMENTAL - N 94-546	-	98	95	100
S.STATES - XP5409N	-	109*	103	100
S.STATES - XP47576-STS	-	109*	87	91
S.STATES - XP47583-STS	-	86	85	104*
EXPERIMENTAL - TN 93-99	-	101	105	99
EXPERIMENTAL - TN 94-213	-	95	99	99
EXPERIMENTAL - V 92-0254	-	103*	109	96
EXPERIMENTAL - V 95-0016	-	108*	110	107*
PUBLIC - WICOMICO	-	94	104	103*
<b>Location/Group Mean Yield</b>	<b>-</b>	<b>53.0</b>	<b>59.4</b>	<b>52.8</b>

\*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, 1999-2000.

BRAND - ENTRY	Queenstown		Quantico	
	Clarksville	Full Season	Full Season	Double Crop
<b>MATURITY GROUP III</b>		<b>Yield, Bu/A</b>		
PUBLIC - BASS	57.3	60.1	50.4	42.3
PUBLIC - CROTON 3.9	62.3	57.2	46.7	46.7
PUBLIC - GENERAL	61.0	61.7	50.1	49.2
PUBLIC - IA 3010	65.6	60.7	49.0	47.9
PUBLIC - MACON	65.2	61.9	51.1	49.0
MID ATLANTIC - MA3901	60.8	58.2	52.6	40.2
S. STATES - SS381-STS	59.4	62.8	52.4	53.8
<b>MATURITY GROUP IV</b>				
PUBLIC - CORSICA	61.2	57.3	48.5	54.2
PUBLIC - HS 93-4118	63.0	60.1	57.9	53.0
PUBLIC - LS 92-4173	54.8	54.4	52.5	48.2
PUBLIC - LS 93-0375	62.4	57.7	52.3	49.5
EXPERIMENTAL - MD 94-5463	65.7	59.0	48.9	51.2
EXPERIMENTAL - MD 95-5358	57.5	60.1	51.0	51.6
S. STATES - SS439	60.7	64.8	50.2	52.2
PUBLIC - STRESSLAND	59.8	64.4	50.9	56.3
<b>MATURITY GROUP IV-S</b>				
PUBLIC - CHESAPEAKE	49.1	52.4	51.9	50.5
PUBLIC - KS 4694	57.0	56.3	56.6	47.3
PUBLIC - MANOKIN	44.5	52.0	57.1	43.5
PUBLIC - MD 4900	46.9	55.1	59.4	52.2
EXPERIMENTAL - MD 94-5332	55.7	59.6	55.6	52.8
EXPERIMENTAL - MD 94-5396	44.9	58.5	58.5	48.9
EXPERIMENTAL - MD 96-5696	48.4	56.9	55.0	51.1
S. STATES - SS493	50.5	58.7	50.7	48.6
S. STATES - SS4985-STS	44.8	59.1	59.6	51.9
<b>MATURITY GROUP V</b>				
PUBLIC - ACCOMAC	-	54.3	51.5	43.0
PUBLIC - ANAND	-	49.5	56.9	48.7
PUBLIC - CLIFFORD	-	51.0	58.0	49.5
PUBLIC - DELSOY 5710	-	50.2	56.2	39.3
PUBLIC - ESSEX	-	50.7	49.5	49.4
PUBLIC - FOWLER	-	49.4	50.9	42.6
PUBLIC - HOLLADAY	-	54.6	53.4	50.0
PUBLIC - HUTCHESON	-	50.3	53.1	48.4
EXPERIMENTAL - MD 95-5260	-	51.4	53.5	49.4
EXPERIMENTAL - V 92-0254	-	52.3	56.4	46.4
PUBLIC - WICOMICO	-	45.9	54.3	48.1

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

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
S.STATES - RT3799N	61.3	10-16	2.8	37	1.0	2604
DEKALB - DKB38-51	61.1	10-16	3.2	37	1.0	2725
NK - X039R	61.0	10-15	3.5	36	1.0	2296
S.STATES - RT386	60.8	10-19	3.5	40	1.0	2700
USG - 7398nRR	60.5	10-16	3.3	40	1.0	2865
S.STATES - RT3975	59.9	10-15	3.7	38	1.0	2763
ASGROW - AG3901	59.2	10-17	3.5	36	1.0	2814
DEKALB - CX391RR	58.5	10-18	2.2	36	1.0	2648
GARST - D399RR/N	58.1	10-16	3.5	39	1.0	2773
ASGROW - AG3702	55.7	10-12	2.8	33	1.0	2906
MID ATLANTIC - MA3720RR	54.5	10-19	3.7	38	1.0	3522
<b>Mean</b>	<b>59.3</b>	<b>-</b>	<b>3.3</b>	<b>37</b>	<b>1.0</b>	<b>2787</b>
<b>LSD (0.20)</b>	<b>3.3</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>NS</b>	<b>167</b>
<b>CV (%)</b>	<b>5.1</b>					
<b>MATURITY GROUP IV</b>						
DEKALB - DKB44-51	62.2	10-19	3.2	40	1.0	3038
USG - 7459RR	60.3	10-17	3.5	41	1.0	2848
ASGROW - AG4403	59.5	10-20	3.3	42	1.0	3067
DEKALB - CX444cRR	59.3	FROST	3.3	40	1.0	2867
MID ATLANTIC - MA4211nRR	59.1	10-18	3.2	35	1.0	3175
AGRIPRO - AP4319RR/N	57.9	10-19	3.3	40	1.0	2766
S.STATES - RT4098	57.6	10-17	2.7	37	1.0	2806
VIGORO - V450NRR	56.9	FROST	3.2	42	1.0	2808
MID ATLANTIC - MA4520RR	56.5	10-19	3.7	36	1.0	3018
ASGROW - AG4301	56.0	10-18	3.5	35	1.0	2426
NK - S42-M1	54.9	10-16	3.7	41	1.0	2859
MID ATLANTIC - MA4220RR	54.5	10-16	3.2	40	1.0	3174
ASGROW - AG4101	54.4	FROST	3.5	40	1.0	2775
USG - 7449nRR	53.9	FROST	3.5	40	1.0	2242
MID ATLANTIC - MA4001RR	53.7	10-17	3.5	41	1.0	3011
S.STATES - RT446N	53.2	10-19	3.2	39	1.0	2588
GARST - D437RR/N	52.7	FROST	3.3	41	1.0	2629
AGWAY - APK404NRR	52.5	10-16	3.5	41	1.0	3038
CLARKS - CL44RR	52.3	FROST	3.5	42	1.0	3227
AGWAY - APK448NRR	52.3	FROST	3.3	43	1.0	2684
DELTAPINE - DP4344RR	52.1	FROST	3.8	44	1.0	2637
S.STATES - RT4495N	52.1	10-17	2.0	36	1.0	2627
AGWAY - APK436NRR	50.4	FROST	3.5	43	1.0	2862
<b>Mean</b>	<b>55.4</b>	<b>-</b>	<b>3.3</b>	<b>40</b>	<b>1.0</b>	<b>2834</b>
<b>LSD (0.20)</b>	<b>3.7</b>	<b>-</b>	<b>0.3</b>	<b>1</b>	<b>NS</b>	<b>81</b>
<b>CV (%)</b>	<b>6.4</b>					

Table 10. (Continued) Keedysville - Roundup Ready Varieties

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
S.STATES - RT4980	62.2	FROST	3.7	39	1.0	2614
CLARKS - CL48RR	61.4	FROST	3.5	38	1.0	2728
USG - 7489RR	61.2	FROST	3.5	41	1.0	2669
USG - 7499nRR	60.5	FROST	3.3	39	1.0	2674
DELTAPINE - DP4690RR	59.8	FROST	3.5	40	1.0	2716
ASGROW - AG4602	59.0	FROST	3.5	37	1.0	2476
CLARKS - CL47NRR	58.6	FROST	3.5	38	1.0	2818
DEKALB - CX480cRR	57.9	FROST	3.2	39	1.0	2829
AGWAY - APK471NRR	54.6	FROST	3.3	38	1.0	2842
USG - 7478nRR	54.3	FROST	3.5	44	1.0	2895
VIGORO - V492NRR	53.9	FROST	3.8	45	1.0	2833
ASGROW - AG4902	53.8	FROST	3.2	38	1.0	2706
NK - S46-W8	53.2	FROST	3.8	43	1.0	3135
NK - S46-G2	52.5	FROST	3.7	40	1.0	3116
<b>Mean</b>	<b>57.3</b>	<b>-</b>	<b>3.5</b>	<b>40</b>	<b>1.0</b>	<b>2789</b>
<b>LSD (0.20)</b>	<b>3.4</b>	<b>-</b>	<b>0.2</b>	<b>3</b>	<b>NS</b>	<b>134</b>
<b>CV (%)</b>	<b>5.6</b>					

\*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.

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
NK - X039R	59.7	FROST	1.0	31	1.0	2427
ASGROW - AG3702	58.8	FROST	1.0	31	1.0	2885
DEKALB - DKB38-51	58.5	FROST	1.0	32	1.0	2861
DEKALB - CX391RR	57.0	FROST	1.0	33	1.0	2923
USG - 7398nRR	57.0	FROST	1.8	38	1.0	3151
GARST - D399RR/N	56.9	FROST	1.3	36	1.0	3124
S.STATES - RT3975	56.1	FROST	1.8	34	1.0	2872
ASGROW - AG3901	56.0	FROST	2.0	35	1.0	3065
MID ATLANTIC - MA3720RR	55.1	FROST	1.2	34	1.0	3183
S.STATES - RT3799N	54.6	FROST	1.0	32	1.0	2854
S.STATES - RT386	53.9	FROST	2.7	38	1.0	3075
<b>Mean</b>	<b>56.8</b>	<b>-</b>	<b>1.5</b>	<b>34</b>	<b>1.0</b>	<b>2957</b>
<b>LSD (0.20)</b>	<b>2.0</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>NS</b>	<b>81</b>
<b>CV (%)</b>	<b>3.3</b>					
<b>MATURITY GROUP IV</b>						
ASGROW - AG4301	60.2	FROST	1.8	36	1.2	2623
MID ATLANTIC - MA4211nRR	59.3	FROST	2.0	33	1.0	3473
S.STATES - RT4098	59.0	FROST	1.7	34	1.0	3076
S.STATES - RT4495N	58.8	FROST	1.5	32	1.0	2709
DEKALB - CX444cRR	58.2	FROST	2.5	36	1.0	3221
MID ATLANTIC - MA4520RR	58.1	FROST	1.5	34	1.0	3173
ASGROW - AG4101	57.5	FROST	3.3	38	1.0	3146
AGWAY - APK404NRR	57.0	FROST	2.5	38	1.0	3136
NK - S42-M1	57.0	FROST	3.3	39	1.0	3249
MID ATLANTIC - MA4220RR	56.3	FROST	2.0	36	1.0	3263
DEKALB - DKB44-51	56.1	FROST	1.8	35	1.0	3585
ASGROW - AG4403	56.1	FROST	2.5	35	1.0	3570
AGWAY - APK448NRR	55.9	FROST	3.0	38	1.0	2914
AGRIPRO - AP4319RR/N	55.9	FROST	2.0	37	1.0	2989
USG - 7459RR	55.7	FROST	3.3	37	1.0	3412
AGWAY - APK436NRR	55.7	FROST	2.8	37	1.0	2966
MID ATLANTIC - MA4001RR	55.1	FROST	3.2	37	1.0	3482
S.STATES - RT446N	53.6	FROST	2.3	36	1.0	2966
GARST - D437RR/N	52.0	FROST	3.0	39	1.0	3011
USG - 7449nRR	51.5	FROST	3.3	38	1.0	2837
DELTAPINE - DP4344RR	51.0	FROST	3.5	40	1.0	2806
CLARKS - CL44RR	50.2	FROST	3.0	40	1.7	3758
VIGORO - V450NRR	48.7	FROST	2.7	40	1.0	3162
<b>Mean</b>	<b>55.6</b>	<b>-</b>	<b>2.6</b>	<b>37</b>	<b>1.0</b>	<b>3153</b>
<b>LSD (0.20)</b>	<b>3.5</b>	<b>-</b>	<b>0.4</b>	<b>1</b>	<b>NS</b>	<b>122</b>
<b>CV (%)</b>	<b>5.9</b>					

Table 11. (Continued) Clarksville - Roundup Ready Varieties

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
USG - 7489RR	57.7	FROST	3.5	39	1.0	3143
CLARKS - CL48RR	53.1	FROST	3.3	39	1.0	3264
AGWAY - APK471NRR	52.5	FROST	3.0	38	1.0	3136
ASGROW - AG4902	50.8	FROST	2.7	36	1.0	3245
CLARKS - CL47NRR	50.7	FROST	2.8	37	1.0	3225
S.STATES - RT4980	50.0	FROST	3.5	38	1.0	3217
DEKALB - CX480cRR	49.9	FROST	3.0	38	1.0	3242
DELTAPINE - DP4690RR	49.9	FROST	3.5	38	1.0	3220
ASGROW - AG4602	49.7	FROST	3.5	37	1.0	3173
USG - 7499nRR	49.5	FROST	3.2	37	1.0	3129
USG - 7478nRR	48.4	FROST	3.0	44	1.0	3336
NK - S46-W8	47.8	FROST	3.5	42	1.0	3235
NK - S46-G2	46.8	FROST	3.2	40	1.0	3227
VIGORO - V492NRR	43.3	FROST	3.5	41	1.0	3241
<b>Mean</b>	<b>50.0</b>	<b>-</b>	<b>3.2</b>	<b>39</b>	<b>1.0</b>	<b>3217</b>
<b>LSD (0.20)</b>	<b>3.4</b>	<b>-</b>	<b>0.2</b>	<b>1</b>	<b>NS</b>	<b>NS</b>
<b>CV (%)</b>	<b>6.3</b>					

\*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 at Queenstown in a full-season planting.

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
ASGROW - AG3702	76.3	10-06	2.8	36	1.0	2544
ASGROW - AG3901	75.6	10-12	3.8	39	1.0	2812
DEKALB - DKB38-51	74.4	10-06	2.5	38	1.0	2712
USG - 7398nRR	73.2	10-07	3.3	41	1.0	2744
S.STATES - RT386	73.1	10-13	3.5	44	1.0	2488
MID ATLANTIC - MA3720RR	71.8	10-11	3.3	40	1.0	2653
NK - X039R	71.0	10-09	3.7	37	1.0	2367
GARST - D399RR/N	70.4	10-10	3.3	40	1.0	2700
DEKALB - CX391RR	68.7	10-11	3.3	38	1.0	2430
S.STATES - RT3975	67.9	10-09	3.5	42	1.0	2589
S.STATES - RT3799N	66.7	10-06	3.0	37	1.0	2461
<b>Mean</b>	<b>71.7</b>	<b>-</b>	<b>3.3</b>	<b>40</b>	<b>1.0</b>	<b>2599</b>
<b>LSD (0.20)</b>	<b>NS</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>NS</b>	<b>69</b>
<b>CV (%)</b>	<b>6.5</b>					
<b>MATURITY GROUP IV</b>						
S.STATES - RT4098	78.3	10-09	3.0	38	1.0	2674
ASGROW - AG4403	78.3	10-10	3.5	39	1.0	2835
ASGROW - AG4301	76.5	10-13	2.5	38	1.0	2211
USG - 7459RR	75.8	10-12	3.5	39	1.0	2690
VIGORO - V450NRR	75.6	10-18	3.3	41	1.0	2443
MID ATLANTIC -MA4211nRR	74.7	10-09	3.2	37	1.0	2889
AGWAY - APK404NRR	74.4	10-09	3.0	38	1.0	2795
DEKALB - DKB44-51	74.2	10-11	3.2	38	1.0	2808
USG - 7449nRR	73.8	10-16	3.7	42	1.0	1984
AGRIPRO - AP4319RR/N	72.7	10-16	3.2	38	1.0	2363
NK - S42-M1	71.9	10-09	3.5	42	1.0	2738
AGWAY - APK448NRR	71.8	10-14	3.3	42	1.0	2541
ASGROW - AG4101	70.9	10-15	3.7	40	1.0	2595
AGWAY - APK436NRR	70.7	10-18	3.5	41	1.0	2426
DEKALB - CX444cRR	70.3	10-11	3.0	36	1.0	2684
GARST - D437RR/N	69.6	10-18	3.3	42	1.0	2443
S.STATES - RT4495N	69.4	10-10	2.5	38	1.0	2468
MID ATLANTIC - MA4520RR	68.8	10-13	3.5	37	1.0	2659
CLARKS - CL44RR	68.6	10-14	3.5	43	1.0	2965
MID ATLANTIC - MA4220RR	68.6	10-06	2.5	38	1.0	2890
S.STATES - RT446N	67.1	10-13	3.2	40	1.0	2458
DELTAPINE - DP4344RR	67.0	10-17	3.5	44	1.0	2608
MID ATLANTIC - MA4001RR	66.5	10-07	3.5	42	1.0	3129
<b>Mean</b>	<b>72.0</b>	<b>-</b>	<b>3.2</b>	<b>40</b>	<b>1.0</b>	<b>2622</b>
<b>LSD (0.20)</b>	<b>4.2</b>	<b>-</b>	<b>0.2</b>	<b>2</b>	<b>NS</b>	<b>79</b>
<b>CV (%)</b>	<b>5.5</b>					

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

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
S.STATES - RT4980	79.3	10-18	4.0	40	1.0	2607
USG - 7489RR	73.1	10-17	4.0	42	1.0	2530
CLARKS - CL48RR	69.4	10-17	3.7	43	1.0	2628
DELTAPINE - DP4690RR	67.4	10-17	3.7	39	1.0	2592
ASGROW - AG4902	66.7	10-19	3.3	37	1.0	2563
NK - S46-W8	66.3	10-16	3.7	38	1.0	2807
CLARKS - CL47NRR	65.2	10-17	3.3	39	1.0	2670
AGWAY - APK471NRR	64.0	10-17	3.3	39	1.0	2705
ASGROW - AG4602	63.3	10-16	3.3	36	1.0	2395
DEKALB - CX480cRR	62.7	10-18	3.2	37	1.0	2675
NK - S46-G2	62.7	10-17	3.3	41	1.0	2705
USG - 7478nRR	60.8	10-16	3.7	47	1.0	2860
USG - 7499nRR	60.2	10-17	3.7	41	1.0	2658
VIGORO - V492NRR	58.0	10-18	3.5	45	1.0	2461
<b>Mean</b>	<b>65.6</b>	<b>-</b>	<b>3.5</b>	<b>40</b>	<b>1.0</b>	<b>2633</b>
<b>LSD (0.20)</b>	<b>5.6</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>NS</b>	<b>87</b>
<b>CV (%)</b>	<b>8.0</b>					
<b>MATURITY GROUP V</b>						
S.STATES - XRT5399	65.2	10-25	3.5	42	1.0	2813
USG - 7509nRR	64.2	10-22	3.5	44	1.0	2257
USG - EXP510NRR	63.1	10-25	3.2	40	1.0	2892
S.STATES - RT557N	61.3	10-29	3.5	46	1.0	2835
S.STATES - RT517N	57.9	10-22	3.5	41	1.0	2722
MID ATLANTIC - MA5000RR	54.4	10-18	3.2	44	1.0	4213
<b>Mean</b>	<b>61.0</b>	<b>-</b>	<b>3.4</b>	<b>43</b>	<b>1.0</b>	<b>2955</b>
<b>LSD (0.20)</b>	<b>NS</b>	<b>-</b>	<b>0.2</b>	<b>3</b>	<b>NS</b>	<b>297</b>
<b>CV (%)</b>	<b>10.1</b>					

\*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 planted at Queenstown in a double-cropped planting.

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
GARST - D399RR/N	54.6	10-23	2.7	34	1.0	3227
ASGROW - AG3702	52.9	10-21	1.8	30	1.0	2973
DEKALB - DKB38-51	52.6	10-22	2.0	28	1.0	3053
MID ATLANTIC - MA3720RR	52.3	10-25	2.8	32	1.0	3572
NK - X039R	51.9	10-21	2.3	30	1.0	2706
DEKALB - CX391RR	51.5	10-24	1.5	29	1.0	3025
S.STATES - RT386	51.4	10-25	3.0	38	1.0	2817
ASGROW - AG3901	50.3	10-24	2.3	29	1.0	3452
USG - 7398nRR	49.8	10-23	2.3	32	1.0	3379
S.STATES - RT3975	49.4	10-23	2.3	33	1.0	3222
S.STATES - RT3799N	45.9	10-22	1.8	31	1.0	2929
<b>Mean</b>	<b>51.1</b>	<b>-</b>	<b>2.3</b>	<b>32</b>	<b>1.0</b>	<b>3131</b>
<b>LSD (0.20)</b>	<b>2.8</b>	<b>-</b>	<b>0.4</b>	<b>3</b>	<b>NS</b>	<b>129</b>
<b>CV (%)</b>	<b>5.0</b>					
<b>MATURITY GROUP IV</b>						
USG - 7449nRR	56.2	11-03	3.0	34	1.3	2623
ASGROW - AG4403	55.4	10-26	1.8	32	1.0	3509
DEKALB - DKB44-51	54.1	10-24	1.7	30	1.0	3554
VIGORO - V450NRR	52.4	11-03	2.2	36	1.0	2841
MID ATLANTIC -MA4211nRR	52.4	10-23	1.7	29	1.0	3678
AGWAY - APK436NRR	52.0	11-01	2.3	35	1.0	2908
USG - 7459RR	51.9	10-28	3.2	32	1.0	3423
S.STATES - RT4098	51.9	10-22	1.5	31	1.0	3244
AGRIPRO - AP4319RR/N	51.5	11-02	1.8	32	1.5	2929
AGWAY - APK448NRR	51.3	10-30	2.5	34	1.0	2900
ASGROW - AG4101	49.6	11-03	3.2	35	1.0	3249
GARST - D437RR/N	49.3	10-30	2.5	33	1.0	3080
DELTAPINE - DP4344RR	49.0	11-02	3.0	40	1.0	2830
DEKALB - CX444cRR	48.5	10-25	1.5	33	1.0	3234
ASGROW - AG4301	47.5	10-25	1.5	32	1.0	2674
MID ATLANTIC - MA4001RR	47.4	10-22	2.8	33	1.0	3751
AGWAY - APK404NRR	47.3	10-20	2.2	33	1.0	3700
CLARKS - CL44RR	46.7	10-29	2.5	35	2.3	3669
NK - S42-M1	45.8	10-22	3.0	35	1.0	3552
MID ATLANTIC - MA4220RR	45.8	10-19	1.7	31	1.0	3586
S.STATES - RT4495N	45.1	10-25	1.5	28	1.0	2939
MID ATLANTIC - MA4520RR	43.4	10-28	1.5	31	1.0	3405
S.STATES - RT446N	42.9	10-24	1.8	33	1.0	3092
<b>Mean</b>	<b>49.4</b>	<b>-</b>	<b>2.2</b>	<b>33</b>	<b>1.1</b>	<b>3233</b>
<b>LSD (0.20)</b>	<b>3.1</b>	<b>-</b>	<b>0.3</b>	<b>3</b>	<b>0.1</b>	<b>159</b>
<b>CV (%)</b>	<b>5.9</b>					

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

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
USG - 7489RR	52.8	FROST	2.3	30	1.0	3269
DELTAPINE - DP4690RR	52.3	FROST	2.5	30	1.0	3255
S.STATES - RT4980	51.8	FROST	2.2	28	1.0	3183
ASGROW - AG4602	51.0	FROST	2.3	30	1.2	3082
CLARKS - CL48RR	50.9	FROST	2.5	30	1.0	3268
ASGROW - AG4902	50.7	FROST	1.7	26	1.0	3100
USG - 7499nRR	49.9	FROST	2.0	32	1.0	3217
CLARKS - CL47NRR	48.7	FROST	2.0	33	1.0	3172
DEKALB - CX480cRR	47.7	FROST	2.0	30	1.0	3232
VIGORO - V492NRR	47.4	FROST	2.3	33	1.0	3100
NK - S46-W8	47.3	FROST	1.8	32	1.0	3337
AGWAY - APK471NRR	46.3	FROST	1.5	28	1.0	3270
USG - 7478nRR	45.0	FROST	1.8	30	1.0	3337
NK - S46-G2	41.6	FROST	2.0	31	1.0	3651
<b>Mean</b>	<b>48.8</b>	<b>-</b>	<b>2.1</b>	<b>30</b>	<b>1.0</b>	<b>3248</b>
<b>LSD (0.20)</b>	<b>2.8</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>NS</b>	<b>116</b>
<b>CV (%)</b>	<b>5.3</b>					
<b>MATURITY GROUP V</b>						
USG - EXP510NRR	49.5	FROST	2.2	32	1.0	3463
USG - 7509nRR	43.9	FROST	1.8	29	1.0	2922
S.STATES - XRT5399	43.7	FROST	2.3	31	1.0	3651
S.STATES - RT557N	42.8	FROST	2.0	29	1.0	3308
MID ATLANTIC - MA5000RR	42.2	FROST	1.5	28	1.0	4336
S.STATES - RT517N	38.0	FROST	1.5	24	1.0	3266
<b>Mean</b>	<b>43.3</b>	<b>-</b>	<b>1.9</b>	<b>29</b>	<b>1.0</b>	<b>3491</b>
<b>LSD (0.20)</b>	<b>2.4</b>	<b>-</b>	<b>0.4</b>	<b>3</b>	<b>NS</b>	<b>168</b>
<b>CV (%)</b>	<b>4.9</b>					

\*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 at Quantico in a full-season planting.

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP III</b>						
NK - X039R	77.1	10-07	2.8	37	1.0	2203
DEKALB - DKB38-51	75.9	10-05	2.2	37	1.0	2824
MID ATLANTIC - MA3720RR	71.9	10-07	3.3	41	1.0	3060
DEKALB - CX391RR	69.3	10-08	2.7	38	1.0	2507
ASGROW - AG3702	69.1	10-04	2.3	38	1.0	2636
S.STATES - RT3975	68.9	10-08	3.0	43	1.0	2720
S.STATES - RT3799N	68.6	10-05	2.2	39	1.0	2494
USG - 7398nRR	68.2	10-05	3.0	41	1.0	2842
GARST - D399RR/N	67.8	10-05	2.8	42	1.0	2978
S.STATES - RT386	66.9	10-09	3.2	43	1.0	2594
ASGROW - AG3901	66.8	10-08	3.3	37	1.0	3015
<b>Mean</b>	<b>69.9</b>	<b>-</b>	<b>2.8</b>	<b>40</b>	<b>1.0</b>	<b>2732</b>
<b>LSD (0.20)</b>	<b>3.7</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>NS</b>	<b>92</b>
<b>CV (%)</b>	<b>4.9</b>					
<b>MATURITY GROUP IV</b>						
USG - 7449nRR	81.3	10-14	3.8	44	1.8	2062
ASGROW - AG4101	78.2	10-14	3.5	47	1.7	2643
AGRIPRO - AP4319RR/N	76.9	10-16	2.5	43	1.5	2528
DEKALB - CX444cRR	76.4	10-09	2.0	41	1.0	2755
VIGORO - V450NRR	75.4	10-16	3.0	42	1.0	2687
ASGROW - AG4301	75.4	10-11	2.8	43	1.8	2389
ASGROW - AG4403	75.1	10-09	3.3	43	1.0	2927
S.STATES - RT4098	74.3	10-06	2.2	40	1.2	2959
USG - 7459RR	73.9	10-10	3.5	42	1.0	2892
DEKALB - DKB44-51	73.7	10-09	2.5	42	1.0	2999
MID ATLANTIC - MA4001RR	72.8	10-05	3.3	43	1.3	3296
MID ATLANTIC -MA4211nRR	72.5	10-07	2.2	40	1.0	3152
CLARKS - CL44RR	72.5	10-10	3.2	44	2.7	3102
DELTAPINE - DP4344RR	71.7	10-15	3.5	42	1.0	2658
MID ATLANTIC - MA4520RR	71.5	10-10	2.3	34	1.0	2966
AGWAY - APK436NRR	70.3	10-14	3.0	44	1.0	2563
GARST - D437RR/N	69.5	10-16	3.0	46	1.2	2502
NK - S42-M1	69.1	10-09	3.2	44	1.3	2849
AGWAY - APK404NRR	67.9	10-05	2.7	41	1.0	3058
S.STATES - RT446N	67.5	10-11	3.0	44	1.0	2608
AGWAY - APK448NRR	66.8	10-11	3.2	44	1.0	2682
S.STATES - RT4495N	65.3	10-09	2.0	39	1.0	2722
MID ATLANTIC - MA4220RR	65.1	10-05	2.2	39	1.2	3123
<b>Mean</b>	<b>72.3</b>	<b>-</b>	<b>2.9</b>	<b>42</b>	<b>1.2</b>	<b>2788</b>
<b>LSD (0.20)</b>	<b>4.6</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>0.2</b>	<b>94</b>
<b>CV (%)</b>	<b>5.9</b>					

Table 14. (Continued) Quantico - Full Season, Roundup Ready Varieties

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
CLARKS - CL48RR	81.8	10-12	3.5	43	1.0	2663
USG - 7489RR	77.5	10-12	3.5	46	1.0	2696
DELTAPINE - DP4690RR	76.8	10-12	3.5	41	1.0	2739
NK - S46-W8	76.1	10-11	3.2	44	1.3	2843
ASGROW - AG4602	74.4	10-15	3.3	43	1.8	2367
ASGROW - AG4902	72.7	10-19	2.3	42	1.3	2757
CLARKS - CL47NRR	72.3	10-16	2.8	41	1.0	2891
S.STATES - RT4980	70.9	10-12	3.7	44	1.0	2733
DEKALB - CX480cRR	70.8	10-14	2.7	38	1.0	2972
USG - 7478nRR	70.7	10-14	3.3	47	1.5	2849
USG - 7499nRR	69.5	10-18	3.0	38	1.0	2825
AGWAY - APK471NRR	68.8	10-16	2.8	40	1.0	2896
NK - S46-G2	68.7	10-13	2.5	44	1.0	2853
VIGORO - V492NRR	67.3	10-14	3.0	50	1.2	2638
<b>Mean</b>	<b>72.7</b>	<b>-</b>	<b>3.1</b>	<b>43</b>	<b>1.2</b>	<b>2766</b>
<b>LSD (0.20)</b>	<b>4.7</b>	<b>-</b>	<b>0.3</b>	<b>3</b>	<b>0.2</b>	<b>68</b>
<b>CV (%)</b>	<b>6.0</b>					
<b>MATURITY GROUP V</b>						
USG - EXP510NRR	71.4	10-22	2.3	39	1.0	2837
USG - 7509nRR	67.0	10-20	2.7	44	1.0	2458
S.STATES - RT557N	64.1	10-24	3.2	41	1.0	2905
S.STATES - XRT5399	62.6	10-22	4.0	42	1.0	2790
S.STATES - RT517N	60.1	10-19	3.5	46	1.0	2588
MID ATLANTIC - MA5000RR	52.7	10-17	2.7	44	1.0	3737
<b>Mean</b>	<b>63.0</b>	<b>-</b>	<b>3.1</b>	<b>43</b>	<b>1.0</b>	<b>2886</b>
<b>LSD (0.20)</b>	<b>6.6</b>	<b>-</b>	<b>0.3</b>	<b>NS</b>	<b>NS</b>	<b>137</b>
<b>CV (%)</b>	<b>9.3</b>					

\*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 planted at Quantico in a double-cropped planting.

BRAND - ENTRY	Yield, Bu/A	Maturity Date	Lodging Score*	Height, Inches	Seed Quality*	Seeds/ Pound
<b>MATURITY GROUP III</b>						
NK - X039R	58.2	10-24	1.0	24	1.7	2530
DEKALB - CX391RR	55.9	10-29	1.0	26	1.0	2928
S.STATES - RT386	55.8	10-29	1.5	29	1.5	3018
DEKALB - DKB38-51	55.7	10-24	1.0	24	1.8	3027
S.STATES - RT3799N	55.2	10-26	1.0	26	2.0	2744
MID ATLANTIC - MA3720RR	54.3	10-28	1.0	24	3.0	3411
USG - 7398nRR	53.8	10-26	1.5	30	1.7	3320
S.STATES - RT3975	53.3	10-28	1.0	28	1.7	3089
GARST - D399RR/N	53.0	10-24	1.7	30	1.3	3369
ASGROW - AG3901	51.7	10-26	1.2	27	1.0	3241
ASGROW - AG3702	49.4	10-23	1.0	23	1.0	3024
<b>Mean</b>	<b>54.3</b>	<b>-</b>	<b>1.2</b>	<b>27</b>	<b>1.6</b>	<b>3079</b>
<b>LSD (0.20)</b>	<b>3.3</b>	<b>-</b>	<b>0.2</b>	<b>1</b>	<b>0.3</b>	<b>74</b>
<b>CV (%)</b>	<b>5.7</b>					
<b>MATURITY GROUP IV</b>						
GARST - D437RR/N	56.3	10-31	1.7	32	1.0	2766
VIGORO - V450NRR	56.1	11-02	1.8	30	1.0	2755
DEKALB - CX444cRR	53.9	10-31	1.3	29	1.0	2953
AGWAY - APK436NRR	53.9	10-30	1.5	31	1.0	2891
USG - 7459RR	53.6	10-27	2.0	31	1.0	3233
DEKALB - DKB44-51	53.4	10-28	1.2	28	1.0	3422
USG - 7449nRR	52.9	10-31	2.3	34	1.0	2462
AGRIPRO - AP4319RR/N	52.7	10-30	1.3	32	1.0	2835
ASGROW - AG4403	52.4	10-28	1.0	28	1.0	3402
S.STATES - RT446N	51.5	10-30	1.2	29	1.0	2917
CLARKS - CL44RR	51.2	10-31	2.0	34	1.0	3377
AGWAY - APK448NRR	51.1	10-30	1.3	30	1.0	2859
ASGROW - AG4101	50.9	10-31	1.8	33	1.0	3018
DELTAPINE - DP4344RR	50.3	11-01	2.2	29	1.0	2847
S.STATES - RT4495N	49.9	10-29	1.0	25	1.0	2722
AGWAY - APK404NRR	49.8	10-26	1.7	32	1.0	3303
MID ATLANTIC - MA4001RR	49.7	10-27	1.8	31	1.0	3409
MID ATLANTIC - MA4520RR	48.8	10-30	1.3	26	1.0	3004
MID ATLANTIC - MA4220RR	48.1	10-27	1.2	29	1.0	3287
S.STATES - RT4098	47.6	10-27	1.0	25	1.0	3038
ASGROW - AG4301	46.4	11-01	1.2	29	1.0	2520
NK - S42-M1	45.2	10-27	1.3	30	1.0	3296
MID ATLANTIC -MA4211nRR	44.8	10-28	1.0	26	1.0	3372
<b>Mean</b>	<b>50.9</b>	<b>-</b>	<b>1.5</b>	<b>30</b>	<b>1.0</b>	<b>3030</b>
<b>LSD (0.20)</b>	<b>3.5</b>	<b>-</b>	<b>0.3</b>	<b>2</b>	<b>NS</b>	<b>77</b>
<b>CV (%)</b>	<b>6.5</b>					

Table 15. (Continued) Quantico - Double Crop, Roundup Ready Varieties

<b>BRAND - ENTRY</b>	<b>Yield, Bu/A</b>	<b>Maturity Date</b>	<b>Lodging Score*</b>	<b>Height, Inches</b>	<b>Seed Quality*</b>	<b>Seeds/ Pound</b>
<b>MATURITY GROUP IV-S</b>						
CLARKS - CL48RR	58.3	FROST	1.7	31	1.0	3152
USG - 7499nRR	57.1	FROST	1.3	28	1.0	3087
S.STATES - RT4980	56.9	FROST	1.7	30	1.0	3032
DELTAPINE - DP4690RR	55.5	FROST	1.3	30	1.0	3209
USG - 7489RR	55.2	FROST	1.8	32	1.0	3130
ASGROW - AG4602	54.5	FROST	1.3	30	1.0	2883
DEKALB - CX480cRR	54.4	FROST	1.2	27	1.0	3040
NK - S46-G2	54.1	FROST	1.2	32	1.0	3129
NK - S46-W8	52.8	FROST	1.2	30	1.0	3397
ASGROW - AG4902	51.9	FROST	1.0	26	1.0	2978
AGWAY - APK471NRR	51.7	FROST	1.2	29	1.0	3117
VIGORO - V492NRR	51.4	FROST	1.7	33	1.0	2983
USG - 7478nRR	51.3	FROST	1.5	32	1.0	3287
CLARKS - CL47NRR	51.2	FROST	1.2	27	1.0	3107
<b>Mean</b>	<b>54.0</b>	<b>-</b>	<b>1.4</b>	<b>30</b>	<b>1.0</b>	<b>3109</b>
<b>LSD (0.20)</b>	<b>NS</b>	<b>-</b>	<b>0.3</b>	<b>3</b>	<b>NS</b>	<b>92</b>
<b>CV (%)</b>	<b>7.1</b>					
<b>MATURITY GROUP V</b>						
USG - 7509nRR	54.3	FROST	1.5	29	1.0	2755
MID ATLANTIC - MA5000RR	48.8	FROST	1.5	31	1.0	3994
USG - EXP510NRR	47.9	FROST	2.2	32	1.0	3240
S.STATES - RT517N	47.0	FROST	2.5	32	1.0	2889
S.STATES - XRT5399	38.8	FROST	3.5	30	1.0	3394
S.STATES - RT557N	36.7	FROST	3.2	35	1.0	3052
<b>Mean</b>	<b>45.6</b>	<b>-</b>	<b>2.4</b>	<b>32</b>	<b>1.0</b>	<b>3221</b>
<b>LSD (0.20)</b>	<b>6.0</b>	<b>-</b>	<b>0.4</b>	<b>2</b>	<b>NS</b>	<b>145</b>
<b>CV (%)</b>	<b>11.8</b>					

\*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 yield of all varieties in that maturity group at each location in 2000.

BRAND - ENTRY	Keedys- ville	Clarks- Ville	Queenstown		Quantico	
			Full Season	Double Crop	Full Season	Double Crop
<b>MATURITY GROUP III</b>			<b>Relative Yield, % of Mean</b>			
ASGROW - AG3702	94	104*	106*	103*	99	91
ASGROW - AG3901	100*	99	105	98	96	95
DEKALB - CX391RR	99*	100	96	101	99	103*
DEKALB - DKB38-51	103*	103*	104	103*	109*	103*
GARST - D399RR/N	98*	100	98	107*	97	98
MID ATLANTIC - MA3720RR	92	97	100	102*	103	100
NK - X039R	103*	105*	99	102*	110*	107*
S.STATES - RT386	103*	95	102	101	96	103*
S.STATES - RT3799N	103*	96	93	90	98	102*
S.STATES - RT3975	101*	99	95	97	99	98
USG - 7398nRR	102*	100	102	97	98	99
<b>Location/Group Mean Yield</b>	<b>59.3</b>	<b>56.8</b>	<b>71.7</b>	<b>51.1</b>	<b>69.9</b>	<b>54.3</b>
<b>MATURITY GROUP IV</b>						
AGRIPRO - AP4319RR/N	104	101	101	104	106*	104
AGWAY - APK404NRR	95	103*	103*	96	94	98
AGWAY - APK436NRR	91	100	98	105	97	106*
AGWAY - APK448NRR	94	101	100	104	92	100
ASGROW - AG4101	98	103*	99	100	108*	100
ASGROW - AG4301	101	108*	106*	96	104	91
ASGROW - AG4403	107*	101	109*	112*	104	103
CLARKS - CL44RR	94	90	95	95	100	101
DEKALB - CX444cRR	107*	105*	98	98	106	106*
DEKALB - DKB44-51	112*	101	103*	110*	102	105*
DELTAPINE - DP4344RR	94	92	93	99	99	99
GARST - D437RR/N	95	94	97	100	96	111*
MID ATLANTIC - MA4001RR	97	99	92	96	101	98
MID ATLANTIC - MA4211nRR	107*	107*	104*	106	100	88
MID ATLANTIC - MA4220RR	98	101	95	93	90	94
MID ATLANTIC - MA4520RR	102	105*	96	88	99	96
NK - S42-M1	99	102*	100	93	96	89
VIGORO - V450NRR	103	88	105*	106	104	110*
S.STATES - RT446N	96	96	93	87	93	101
S.STATES - RT4098	104	106*	109*	105	103	94
S.STATES - RT4495N	94	106*	96	91	90	98
USG - 7449nRR	97	93	102	114*	112*	104*
USG - 7459RR	109*	100	105*	105	102	105*
<b>Location/Group Mean Yield</b>	<b>55.4</b>	<b>55.6</b>	<b>72.0</b>	<b>49.4</b>	<b>72.3</b>	<b>50.9</b>

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

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			Full Season	Double Crop	Full Season	Double Crop
<b>MATURITY GROUP IV-S</b>			<b>Relative Yield, % of Mean</b>			
AGWAY - APK471NRR	95	105	98	95	95	96
ASGROW - AG4602	103*	99	96	105*	102	101
ASGROW - AG4902	94	102	102	104*	100	96
CLARKS - CL47NRR	102	101	99	100	99	95
CLARKS - CL48RR	107*	106	106	104*	113*	108*
DEKALB - CX480cRR	101	100	96	98	97	101
DELTAPINE - DP4690RR	104*	100	103	107*	106	103
NK - S46-G2	92	94	96	85	95	100
NK - S46-W8	93	96	101	97	105	98
VIGORO - V492NRR	94	87	88	97	93	95
S.STATES - RT4980	109*	100	121*	106*	98	105
USG - 7478nRR	95	97	93	92	97	95
USG - 7489RR	107*	115*	111	108*	107*	102
USG - 7499nRR	106*	99	92	102	96	106
<b>Location/Group Mean Yield</b>	<b>57.3</b>	<b>50.0</b>	<b>65.6</b>	<b>48.8</b>	<b>72.7</b>	<b>54.0</b>
<b>MATURITY GROUP V</b>						
MID ATLANTIC - MA5000RR	-	-	89	97	84	107*
S.STATES - RT517N	-	-	95	88	95	103
S.STATES - RT557N	-	-	101	99	102	80
S.STATES - XRT5399	-	-	107*	101	99	85
USG - 7509nRR	-	-	105	101	106*	119*
USG - EXP510NRR	-	-	103	114*	113*	105
<b>Location/Group Mean Yield</b>	<b>-</b>	<b>-</b>	<b>61.0</b>	<b>43.3</b>	<b>63.0</b>	<b>45.6</b>

\*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 locations in Maryland, 1999-2000.

BRAND - ENTRY	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			Full Season	Double Crop	Full Season	Double Crop
<b>MATURITY GROUP III</b>			<b>Yield, Bu/A</b>			
DEKALB - CX391RR	53.7	51.8	66.5	51.2	64.8	53.4
GARST - D399RR/N	51.6	53.0	63.6	50.9	60.9	50.1
S. STATES - RT386	57.6	50.3	66.3	50.7	63.2	52.9
S. STATES - RT3975	54.0	53.5	64.0	49.7	61.7	51.6
USG - 7398nRR	55.6	53.3	66.9	48.2	59.4	50.2
<b>MATURITY GROUP IV</b>						
AGWAY - APK404NRR	52.0	52.5	68.7	46.5	62.7	47.8
AGWAY - APK436NRR	48.0	52.3	66.9	49.1	61.4	50.1
AGWAY - APK448NRR	49.6	54.0	63.9	48.0	62.1	47.9
CLARKS - CL44RR	52.5	51.8	62.4	46.8	65.4	49.1
DEKALB - CX444cRR	56.5	52.9	65.4	47.9	67.3	50.6
DELTAPINE - DP4344RR	53.1	51.5	64.9	48.5	64.4	49.1
GARST - D437RR/N	52.5	49.7	63.0	49.4	61.6	52.9
MID ATLANTIC - MA4001RR	50.6	49.8	57.9	46.6	64.1	47.8
NK - S42-M1	50.3	53.5	63.5	47.4	61.4	47.1
S. STATES - RT446N	54.3	52.1	59.6	42.8	61.3	47.1
S. STATES - RT4495N	51.8	49.6	61.1	44.7	61.0	47.1
USG - 7449nRR	54.9	48.8	65.4	50.6	70.8	49.0
USG - 7459RR	54.7	51.0	68.8	48.5	67.5	49.3
<b>MATURITY GROUP IV-S</b>						
AGWAY - APK471NRR	51.1	50.7	62.1	47.1	63.1	49.8
CLARKS - CL48RR	57.6	51.8	62.9	47.7	71.0	51.4
DELTAPINE - DP4690RR	58.9	51.3	63.9	50.6	66.1	52.2
NK - S46-W8	51.1	49.5	57.5	47.8	65.0	50.6
USG - 7478nRR	51.2	48.1	58.4	45.4	62.4	48.5
USG - 7489RR	55.3	54.2	66.5	50.0	68.7	51.2
USG - 7499nRR	55.3	49.7	59.3	47.1	64.5	50.7
<b>MATURITY GROUP V</b>						
S. STATES - RT517N	-	-	59.4	41.2	60.5	45.7
USG - 7509nRR	-	-	61.6	43.7	63.0	48.9