



# Information

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

**Agronomy Facts No. 32**  
**Revised January 2013**

## **2012 MARYLAND SOYBEAN VARIETY TESTS**

Maryland soybean variety tests are conducted each year by the Maryland Agricultural Experiment Station, Department of Plant Science and Landscape Architecture, to provide soybean growers with the latest information on agronomic performance of soybean varieties. Varieties are tested by maturity group as designated by the releasing organization. Varieties of Maturity Groups 3, 4, and 5 are included in the tests because they are best adapted for production in Maryland. Late maturing varieties in Maturity Group 4 were evaluated separately from the other varieties in Maturity Group 4 and are listed as "4s" in the data tables. Entries in the 2012 test included Roundup Ready and standard varieties of public and private brands. In addition, promising new varieties and advanced breeding lines are tested to compare their performance to that of previously released varieties. Experimental lines and recent releases from Arkansas (Osage), Illinois (LD 00-3309, LD 00-2817P), Iowa (IA 3024, IA 4005), Maryland (MD 99-6226, MD 01-5866, MD 03-5453, MD 03-6420, MD 05-5468, MD 06-5356, MD 0607WN 38, MD 0708WN 55, MD 0708WN 120, MD 0708WN 157, MD 0809WN 69, MD 0809WN 100, MD 09-5194, MD 09-5801), Tennessee (Tn 09-008, Tn 09-029, 5002T), and Virginia (Glenn) were included in the 2012 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 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 2012 growing season was generally dry in most areas of the state from late May through July with only Keedysville being the exception. Significant increases in rainfall in August at Queenstown and Quantico and statewide in October contributed to higher than expected yields. Scattered light frost across the state on October 13 impacted the maturity date for later maturing varieties in the double-crop tests as noted in the data tables. Monthly rainfall amounts for May through October for the test locations are shown in Table 3.

Results of the 2012 tests are reported in Tables 4-7 for the non-Roundup Ready varieties and in Tables 9-14 for the Roundup Ready varieties. In each of these tables, varieties within maturity groups are listed in order of yield, highest to lowest. This year one Roundup Ready variety which had previously performed well in Maryland was included in each maturity group of the non-Roundup Ready variety tests for relative yield comparisons. The highest overall test location mean yields were at Clarksville for both the non-Roundup Ready and 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 or location. As an aid in assessing the performance of individual varieties in the test, a relative yield value was calculated. Tables 8 and 15 summarize the relative yields of the non-Roundup Ready and Roundup Ready varieties, respectively, by expressing their yields as a percentage of the mean yield of all varieties in that maturity group at each location. Therefore, a variety with a relative yield that is consistently greater than 100 is a variety that consistently yields higher than the mean yield of all varieties in that maturity group. In Tables 8 and 15, the relative yields of those varieties with an asterisk are not statistically different from the highest yielding variety in that maturity group in those tests where a significant difference between varieties was observed in the statistical analyses.

Two-year average yields of non-Roundup Ready and Roundup Ready varieties previously entered in the 2011 tests are shown in the data tables. The 2011 location average yield for each maturity group and the 2011 LSD value are included in the data tables to compare variety yield differences in both years. The multiple-year data provide additional information on a variety's yielding ability. The information provided here should be used as a guide and growers should select a variety with great care based on personal experience as well as other available information.

Prepared by: W.J. Kenworthy and N. Hailegiorgies, Department of Plant Science and Landscape Architecture

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#### Additional information:

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

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Table 1. Suppliers of private entries tested in 2012.

Company	Brand	Herbicide Reaction*	Entry
Bayer CropScience Dewitt, AR 72042	BAYER HBK	RR	R4924, R5425
		RR2Y	RY4620, RY4721, RY5221
		RR2Y	RY5421, RY5521
Crop Production Services East Aurora, NY 14052	DYNA-GRO	RR	39D48
		RR2Y	S38RY63, 37RY39, S39RY33, 39RY43
		RR2Y	37RY47, SX12245R
		RR2Y/STS	S44RS93, S48RS53
Doebler's PA Hybrids, Inc. Jersey Shore, PA 17740	DOEBLERS RPM	RR	DB3312RR,DB3512RR,DB3809RR,DB4512RR
Hubner Seed West Lebanon, IN 47991	HUBNER	RR2Y	H34-12R2, H36-12R2, H58-12R2
		RR2Y/STS	H46-01R2/STS, H48-12R2/STS
Growmark FS Milford, DE 19963	HISOY	RR2Y	HS38A02, HS39A03, HS39A14, HS41A02
		RR2Y	HS42A12, HS45A14
		RR2Y/STS	HS47T12
Mid-Atlantic Seeds, Inc. York, PA 17402	MID ATLANTIC	RR	MAS3599RR, MAS4666NRR
		RR/STS	MAS4399NRR/STS
		RR2Y	MAS3511RR2,MAS3802RR2,MAS3900NRR2
		RR2Y	MAS4200RR2
		RR2Y/STS	MAS3933NRR2/STS, MAS4504NRR2/STS
Southern States Cooperative, Inc. Richmond, VA 23230	S.STATES	RR2Y	SS3811NR2, SS3910NR2, SS4312NR2
		RR2Y	SS4412NR2, SS4510NR2, SS4917NR2
		RR2Y/STS	SS4700R2STS
T.A. Seeds Avis, PA 17721	TA SEEDS	RR/STS	TS3989RS, TS4299RS, TS4729RS
		RR2Y	TS3839R2, TS4339R2, TS4939R2
UniSouth Genetics, Inc. Dickson, TN 37055	USG	RR	73H77, 74B58, 74H81
		RR/STS	74E88, 7495nRS
		RR2Y	74F12R,74D32R,74A69R,74A92R,74B42R
		RR2Y/STS	74A79R
		STS	74D42S STS

\*RR and RR2Y= Roundup Ready and Roundup Ready 2, respectively  
STS= Sulfonylurea tolerant

Table 2. The 2012 soybean variety test plot information.

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

Tests: Roundup Ready Varieties Maturity Groups 3, 4, 4s  
Planting Date: June 8  
Row Spacing: 24 inches  
Soil Type: Hagerstown silt loam  
Soil Test: pH 6.4, P 40 (M), K 118 (M)  
Previous Crop: Corn  
Fertilizer: None  
Lime: None  
Herbicide: 1 Qt/A Gramoxone SL + Cloak 5 Oz/A (June 11)  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot  
Tillage: Conventional

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

Tests: Non-Roundup Ready Varieties Maturity Group 3, 4, 4s  
Planting Date: June 7  
Row Spacing: 24 inches  
Soil Type: Delanco silt loam  
Soil Test: pH 6.5, P 49, K 297  
Previous Crop: Corn  
Fertilizer: None  
Lime: None  
Herbicide: Preemerge: 6 Oz/A Canopy XL, 16 Oz/A Outlook (June 8)  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot  
Tillage: Conventional

Tests: Roundup Ready Varieties Maturity Groups 3, 4, 4s  
Planting Date: June 7  
Row Spacing: 24 inches  
Soil Type: Delanco silt loam  
Soil Test: pH 6.5, P 49, K 297  
Previous Crop: Corn  
Fertilizer: None  
Lime: None  
Herbicide: 32 Oz/A Roundup Power Max (July 11)  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot  
Tillage: Conventional

Table 2. (Continued) Plot Information

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

Tests: Full Season Non-RR Varieties Maturity Groups 3, 4, 4s, 5  
Planting Date: May 24  
Row Spacing: 24 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 5.8, P Index- 56, K Index- 101  
Previous Crop: Corn  
Fertilizer: None  
Lime: None  
Herbicide: Preemergence:6.5 Oz/A Authority First + 2 Pt/A Medal II  
Insecticide: 6.4 Oz/A Sniper for spider mites (July 22)  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot except Maturity Group 5 entries= 6 seeds/foot  
Tillage: Conventional

Tests: Full Season Roundup Ready Varieties Maturity Groups 3, 4, 4s, 5  
Planting Date: May 24  
Row Spacing: 24 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 5.8, P Index- 56, K Index- 101  
Previous Crop: Corn  
Fertilizer: None added  
Lime: None  
Herbicide: Post: 1.5 Qt/A Honcho Plus (July 13)  
Insecticide: 6.4 Oz/A Sniper for spider mites (July 22)  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot except Maturity Group 5 entries= 6 seeds/foot  
Tillage: Conventional

Tests: Double Crop Roundup Ready Varieties Maturity Groups 3, 4, 4s, 5  
Planting Date: July 6  
Row Spacing: 7.5 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 6.2, P Index- 56, K Index- 39  
Previous Crop: Wheat  
Fertilizer: None on soybeans  
Lime: None  
Herbicide: Preplant:1 Qt/A Honcho Plus &Liberty,1Pt/A Medal II,4Pt/100 gal Request  
Post: 1.5 Qt/A Honcho Plus (August 15)  
Insecticide: 6.4 Oz/A Sniper for spider mites (July 22)  
Plots: 7 rows, 25 feet long  
Seeding Rate: 3 seeds/foot  
Tillage: None

Table 2. (Continued) Plot Information

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

Tests: Full Season Non-RR Varieties Maturity Groups 3, 4, 4s, 5  
Planting Date: May 25  
Row Spacing: 24 inches  
Soil Type: Mattapex silt loam  
Soil Test: pH 6.2, P sat ratio- 14, K ppm- 131  
Previous Crop: Corn  
Fertilizer: 250 lbs/A 05-05-25 + 10 S + 0.5 B  
Lime: None  
Herbicide: Preemergence: 1.3Pt/A Dual II Magnum + 1 Pt/A Linex  
Post: 20 Oz/A Ultra Blazer+1 Pt/A Basagran+ 2 Oz/A 2,4-DB+ 4 Oz/A 820 Surfactant  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot except Maturity Group 5 entries= 6 seeds/foot  
Tillage: Conventional

Tests: Full Season Roundup Ready Varieties Maturity Groups 3, 4, 4s, 5  
Planting Date: May 25  
Row Spacing: 20 inches  
Soil Type: Nassawango silt loam  
Soil Test: pH 6.4, P sat ratio- 9, K ppm-139  
Previous Crop: No Tillage Corn  
Fertilizer: 250 lbs/A of 05-05-25 +10 (S) + 0.5 (B)  
Lime: None  
Herbicide: Preemergence:1.5 Pt/A Roundup + 1 Pt/A Dual II Magnum  
Post: 1.5 Pt/A Roundup+8 Oz/A Dual II Magnum+2 Oz/A 2,4-DB (June 26)  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot  
Tillage: None

Tests: Double Crop Non-RR Varieties Maturity Groups 3, 4, 4s, 5  
Planting Date: July 3  
Row Spacing: 15 inches  
Soil Type: Nassawango silt loam  
Soil Test: pH 5.8, P sat ratio- 21, K ppm- 116  
Previous Crop: Barley  
Fertilizer: None on soybeans  
Lime: None  
Herbicide: 1 Pt/A Storm + 1 Oz/A 2,4-DB, 10 Oz/A 820 Surfactant  
Plots: 5 rows, 20 feet long  
Seeding Rate: 6 seeds/foot  
Tillage: None

Table 2. (Continued) Plot Information

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

Tests:	Double Crop Roundup Ready Varieties Maturity Groups 3, 4, 4s, 5
Planting Date:	July 3
Row Spacing:	15 inches
Soil Type:	Nassawango silt loam
Soil Test:	pH 5.8, P sat ratio- 21, K ppm- 116
Previous Crop:	Barley
Fertilizer:	None on soybeans
Lime:	None
Herbicide:	1.5 Qt/A Roundup + 8 Oz/A Dual II Magnum + 2 Oz/A 2,4DB (July 26) 1 Qt/A Roundup (August 22)
Plots:	5 rows, 20 feet long
Seeding Rate:	6 seeds/foot
Tillage:	None

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

Location	May	June	July	Aug.	Sept.	Oct.	Total
Keedysville	9.39	3.86	4.56	3.30	3.53	6.27	30.91
Clarksville	3.39	2.46	4.50	3.00	2.54	10.37	26.26
Queenstown	1.97	4.03	2.78	11.29	2.60	11.19	33.86
Quantico	1.25	1.57	2.75	5.91	7.90	10.45	29.83



Table 4. Performance of non-Roundup Ready soybean varieties planted at Clarksville.

Brand - Entry	Seed Yield, Bu/A			2012		
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 3</b>					
PUBLIC - IA 3024	72.5	51.2	61.9	9-30	37	3.5
DYNA-GRO - 37RY39 (RR CHECK)	65.9	-	-	10-06	45	3.0
PUBLIC - MACON	63.4	46.5	55.0	10-05	41	2.7
EXPERIMENTAL - MD 03-5453	62.4	37.8	50.1	10-03	38	2.8
EXPERIMENTAL - MD 0708WN 55	60.7	48.3	54.5	10-04	41	2.7
<b>Mean</b>	<b>65.0</b>	<b>44.2</b>	<b>54.6</b>	-	<b>40</b>	<b>2.9</b>
<b>LSD 0.20</b>	<b>5.0</b>	<b>4.4</b>	-	-	<b>2</b>	<b>0.4</b>
<b>CV, %</b>	<b>6.8</b>	<b>9.1</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
PUBLIC - IA 4005	70.6	58.0	64.3	10-09	41	2.0
S.STATES - SS4510NR2 (RR CHECK)	65.6	-	-	10-14	46	3.5
PUBLIC - LD 00-3309	65.1	51.5	58.3	10-04	41	2.8
PUBLIC - MONOCACY	64.6	47.6	56.1	10-10	46	3.0
PUBLIC - LD 00-2817P	64.4	50.7	57.5	10-11	43	3.3
USG -74D42S STS	61.8	-	-	10-08	41	2.5
EXPERIMENTAL - MD 0708WN 120	61.2	47.7	54.5	10-05	43	3.8
EXPERIMENTAL - MD 0809WN 100	55.9	49.7	52.8	10-06	40	2.8
EXPERIMENTAL - MD 0809WN 69	55.8	46.6	51.2	10-12	42	4.0
EXPERIMENTAL - MD 09-5194	50.1	-	-	10-12	37	4.0
<b>Mean</b>	<b>61.5</b>	<b>48.0</b>	<b>54.8</b>	-	<b>42</b>	<b>3.2</b>
<b>LSD 0.20</b>	<b>4.7</b>	<b>3.8</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.1</b>	<b>7.3</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
S.STATES - SS4700R2STS (RR CHECK)	67.4	-	-	10-14	45	3.2
EXPERIMENTAL - MD 03-6420	59.7	47.4	53.5	10-15	48	3.5
PUBLIC - KS 4602N	58.6	46.6	52.6	10-11	45	2.3
EXPERIMENTAL - MD 01-5866	55.4	49.6	52.5	10-14	40	3.5
EXPERIMENTAL - Tn 09-029	53.2	-	-	10-18	41	3.3
EXPERIMENTAL - MD 0708WN 157	52.2	42.1	47.2	10-18	47	3.3
EXPERIMENTAL - MD 06-5356	51.6	49.6	50.6	10-17	48	3.5
PUBLIC - MANOKIN	48.9	46.9	47.9	10-17	43	4.2
EXPERIMENTAL - MD 09-5801	40.5	-	-	10-05	43	4.0
<b>Mean</b>	<b>54.2</b>	<b>47.2</b>	<b>50.7</b>	-	<b>45</b>	<b>3.4</b>
<b>LSD 0.20</b>	<b>5.5</b>	<b>3.0</b>	-	-	<b>2</b>	<b>0.2</b>
<b>CV, %</b>	<b>9.3</b>	<b>6.0</b>	-	-	-	-

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

Table 5. Performance of non-Roundup Ready soybean varieties planted at Queenstown.

Brand - Entry	2012					
	Seed Yield, Bu/A			Maturity	Height,	Lodging
	2012	2011	2-Year	Date	Inches	Score*
<b>MATURITY GROUP 3</b>						
PUBLIC - MACON	45.0	35.4	40.2	9-27	31	1.5
DYNA-GRO - 37RY39 (RR CHECK)	44.0	-	-	9-28	31	1.2
EXPERIMENTAL - MD 0708WN 55	38.6	40.3	39.4	9-23	25	1.0
PUBLIC - IA 3024	38.1	32.2	35.2	9-23	28	1.2
EXPERIMENTAL - MD 03-5453	32.5	32.8	32.7	9-23	26	1.2
<b>Mean</b>	<b>39.6</b>	<b>38.5</b>	<b>39.1</b>	-	<b>28</b>	<b>1.2</b>
<b>LSD 0.20</b>	<b>3.4</b>	<b>7.0</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.6</b>	<b>16.6</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
S.STATES - SS4510NR2 (RR CHECK)	52.8	-	-	10-11	34	1.8
EXPERIMENTAL - MD 09-5194	49.8	-	-	10-11	27	1.7
USG -74D42S STS	49.2	-	-	10-11	28	1.5
EXPERIMENTAL - MD 0809WN 69	49.1	41.1	45.1	10-11	33	2.2
PUBLIC - LD 00-3309	48.3	51.1	49.7	9-30	28	1.3
PUBLIC - LD 00-2817P	47.5	59.8	53.6	10-08	30	1.5
PUBLIC - IA 4005	46.6	48.0	47.3	10-07	27	1.3
PUBLIC - MONOCACY	45.1	40.7	42.9	10-11	33	1.7
EXPERIMENTAL - MD 0708WN 120	44.4	52.6	48.5	10-04	29	1.7
EXPERIMENTAL - MD 0809WN 100	44.3	43.1	43.7	10-08	28	1.5
<b>Mean</b>	<b>47.7</b>	<b>46.1</b>	<b>46.9</b>	-	<b>30</b>	<b>1.6</b>
<b>LSD 0.20</b>	<b>NS</b>	<b>6.2</b>	-	-	<b>3</b>	<b>0.3</b>
<b>CV, %</b>	<b>10.0</b>	<b>12.7</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
S.STATES - SS4700R2STS (RR CHECK)	55.3	-	-	10-13	30	1.0
PUBLIC - MANOKIN	50.4	48.3	49.3	10-11	27	2.7
EXPERIMENTAL - MD 0708WN 157	50.3	46.2	48.2	10-11	32	1.0
EXPERIMENTAL - MD 06-5356	48.4	49.2	48.8	10-08	32	1.0
EXPERIMENTAL - MD 01-5866	48.0	53.4	50.7	10-12	29	1.0
EXPERIMENTAL - Tn 09-029	47.0	-	-	10-14	27	1.0
EXPERIMENTAL - MD 03-6420	45.1	48.0	46.6	10-11	35	1.2
EXPERIMENTAL - MD 09-5801	45.1	-	-	10-10	30	1.0
PUBLIC - KS 4602N	44.5	50.9	47.7	10-09	35	1.5
<b>Mean</b>	<b>48.2</b>	<b>47.5</b>	<b>47.9</b>	-	<b>31</b>	<b>1.3</b>
<b>LSD 0.20</b>	<b>4.5</b>	<b>5.5</b>	-	-	<b>2</b>	<b>0.1</b>
<b>CV, %</b>	<b>8.6</b>	<b>10.8</b>	-	-	-	-

Table 5. (Continued) Queenstown - Non-Roundup Ready Soybean Varieties

Brand - Entry	Seed Yield, Bu/A			2012			
				Maturity	Height,	Lodging	
	2012	2011	2-Year	Date	Inches	Score*	
<b>MATURITY GROUP 5</b>							
PUBLIC - 5002T	68.7	49.2	59.0	10-15	29	1.8	
EXPERIMENTAL - MD 05-5468	67.7	41.5	54.6	10-18	35	2.3	
PUBLIC - OSAGE	67.6	48.3	58.0	10-18	29	1.2	
EXPERIMENTAL - MD 99-6226	66.3	45.8	56.1	10-15	28	1.2	
EXPERIMENTAL - Tn 09-008	64.9	-	-	10-21	31	1.5	
PUBLIC - GLENN	62.7	45.0	53.8	10-17	31	2.0	
PUBLIC - HUTCHESON	61.9	40.7	51.3	10-20	33	2.2	
BAYER HBK - RY5221 (RR CHECK)	61.1	-	-	10-21	41	2.7	
PUBLIC - ESSEX	59.8	39.2	49.5	10-14	30	1.7	
EXPERIMENTAL - MD 0607WN 38	50.3	42.1	46.2	10-14	32	2.0	
	<b>Mean</b>	<b>63.1</b>	<b>41.3</b>	<b>52.2</b>	-	<b>32</b>	<b>1.9</b>
	<b>LSD 0.20</b>	<b>5.0</b>	<b>5.3</b>	-	-	<b>2</b>	<b>0.4</b>
	<b>CV, %</b>	<b>7.3</b>	<b>12.1</b>	-	-	-	-

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

Table 6. Performance of non-Roundup Ready soybean varieties planted full season at Quantico.

Brand - Entry	2012					
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*
	2012	2011	2-Year			
<b>MATURITY GROUP 3</b>						
DYNA-GRO - 37RY39 (RR CHECK)	55.1	-	-	10-06	29	1.8
PUBLIC - MACON	48.3	38.2	43.2	10-04	25	1.8
EXPERIMENTAL - MD 0708WN 55	46.9	44.4	45.6	9-29	25	1.7
EXPERIMENTAL - MD 03-5453	46.2	44.9	45.5	9-29	24	1.8
PUBLIC - IA 3024	43.3	33.5	38.4	9-27	24	1.3
<b>Mean</b>	<b>47.9</b>	<b>42.1</b>	<b>45.0</b>	-	<b>25</b>	<b>1.7</b>
<b>LSD 0.20</b>	<b>NS</b>	<b>NS</b>	-	-	<b>2</b>	<b>NS</b>
<b>CV, %</b>	<b>13.5</b>	<b>17.6</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
PUBLIC - LD 00-2817P	54.3	53.9	54.1	10-10	27	1.5
S.STATES - SS4510NR2 (RR CHECK)	53.4	-	-	10-13	30	1.8
EXPERIMENTAL - MD 0809WN 100	52.9	47.0	50.0	10-06	25	1.8
USG -74D42S STS	51.6	-	-	10-12	26	1.5
EXPERIMENTAL - MD 0809WN 69	50.2	48.4	49.3	10-12	29	1.8
PUBLIC - MONOCACY	48.9	49.8	49.4	10-11	28	1.8
EXPERIMENTAL - MD 0708WN 120	48.8	53.4	51.1	10-05	25	1.8
PUBLIC - IA 4005	48.6	35.8	42.2	10-06	24	1.3
PUBLIC - LD 00-3309	47.1	60.8	53.9	10-04	27	1.5
EXPERIMENTAL - MD 09-5194	45.6	-	-	10-12	23	1.3
<b>Mean</b>	<b>50.1</b>	<b>47.3</b>	<b>48.7</b>	-	<b>26</b>	<b>1.6</b>
<b>LSD 0.20</b>	<b>4.2</b>	<b>8.6</b>	-	-	<b>3</b>	<b>NS</b>
<b>CV, %</b>	<b>7.7</b>	<b>17.1</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
S.STATES - SS4700R2STS (RR CHECK)	56.0	-	-	10-16	25	2.2
EXPERIMENTAL - MD 0708WN 157	55.6	54.5	55.1	10-20	35	3.2
EXPERIMENTAL - MD 06-5356	55.5	46.7	51.1	10-17	31	2.8
EXPERIMENTAL - MD 01-5866	54.1	52.7	53.4	10-15	22	2.3
EXPERIMENTAL - Tn 09-029	53.8	-	-	10-16	24	2.3
PUBLIC - MANOKIN	53.0	54.9	54.0	10-16	25	3.7
PUBLIC - KS 4602N	50.3	46.6	48.4	10-13	29	2.7
EXPERIMENTAL - MD 03-6420	48.4	50.9	49.7	10-16	30	3.7
EXPERIMENTAL - MD 09-5801	47.8	-	-	10-12	28	3.0
<b>Mean</b>	<b>52.7</b>	<b>50.4</b>	<b>51.6</b>	-	<b>28</b>	<b>2.9</b>
<b>LSD 0.20</b>	<b>4.8</b>	<b>6.2</b>	-	-	<b>4</b>	<b>0.4</b>
<b>CV, %</b>	<b>8.4</b>	<b>11.7</b>	-	-	-	-

Table 6. (Continued) Quantico - Full Season, Non-Roundup Ready Soybean Varieties

Brand - Entry	Seed Yield, Bu/A			2012			
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*	
	<b>MATURITY GROUP 5</b>						
PUBLIC - 5002T	65.3	52.1	58.7	10-17	24	2.7	
EXPERIMENTAL - Tn 09-008	60.5	-	-	10-20	27	2.5	
EXPERIMENTAL - MD 99-6226	58.6	51.9	55.2	10-17	23	2.0	
PUBLIC - GLENN	58.5	54.5	56.5	10-18	23	2.5	
PUBLIC - OSAGE	57.1	56.2	56.7	10-19	25	2.2	
EXPERIMENTAL - MD 0607WN 38	56.3	46.6	51.5	10-19	30	3.2	
EXPERIMENTAL - MD 05-5468	54.9	43.8	49.4	10-18	25	3.2	
BAYER HBK - RY5221 (RR CHECK)	54.2	-	-	10-19	34	3.5	
PUBLIC - HUTCHESON	52.2	50.6	51.4	10-19	26	3.0	
PUBLIC - ESSEX	50.7	43.7	47.2	10-17	23	2.5	
	<b>Mean</b>	<b>56.8</b>	<b>47.4</b>	<b>52.1</b>	-	<b>26</b>	<b>2.7</b>
	<b>LSD 0.20</b>	<b>3.1</b>	<b>5.6</b>	-	-	<b>3</b>	<b>0.4</b>
	<b>CV, %</b>	<b>5.1</b>	<b>11.1</b>	-	-	-	-

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

Table 7. Performance of non-Roundup Ready soybean varieties double cropped at Quantico.

Brand - Entry	2012					
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*
	2012	2011	2-Year			
<b>MATURITY GROUP 3</b>						
PUBLIC - MACON	41.8	47.0	44.4	10-18	25	2.8
PUBLIC - IA 3024	40.3	46.4	43.4	10-16	23	2.3
DYNA-GRO - 37RY39 (RR CHECK)	36.9	-	-	10-18	23	2.5
EXPERIMENTAL - MD 03-5453	35.7	43.5	39.6	10-19	22	2.2
EXPERIMENTAL - MD 0708WN 55	26.2	45.8	36.0	10-15	19	2.5
<b>Mean</b>	<b>36.2</b>	<b>46.6</b>	<b>41.4</b>	-	<b>23</b>	<b>2.5</b>
<b>LSD 0.20</b>	<b>5.1</b>	<b>4.3</b>	-	-	<b>3</b>	<b>0.2</b>
<b>CV, %</b>	<b>12.4</b>	<b>8.5</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
PUBLIC - LD 00-2817P	46.1	59.1	52.6	FROST	23	2.0
EXPERIMENTAL - MD 0809WN 69	41.1	52.7	46.9	FROST	25	2.0
PUBLIC - MONOCACY	40.0	52.1	46.1	FROST	29	2.3
S.STATES - SS4510NR2 (RR CHECK)	40.0	-	-	FROST	25	2.2
EXPERIMENTAL - MD 0708WN 120	38.2	54.3	46.2	FROST	24	2.3
USG -74D42S STS	37.2	-	-	FROST	23	2.2
EXPERIMENTAL - MD 0809WN 100	36.7	54.6	45.7	FROST	23	2.0
PUBLIC - IA 4005	36.4	54.8	45.6	FROST	23	1.8
PUBLIC - LD 00-3309	34.2	49.8	42.0	FROST	22	2.0
EXPERIMENTAL - MD 09-5194	33.0	-	-	FROST	25	3.0
<b>Mean</b>	<b>38.3</b>	<b>53.3</b>	<b>45.8</b>	-	<b>24</b>	<b>2.2</b>
<b>LSD 0.20</b>	<b>3.0</b>	<b>NS</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.2</b>	<b>9.0</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
EXPERIMENTAL - MD 01-5866	49.6	57.6	53.6	FROST	25	2.8
EXPERIMENTAL - MD 06-5356	47.0	51.1	49.1	FROST	30	2.5
S.STATES - SS4700R2STS (RR CHECK)	47.0	-	-	FROST	25	2.2
EXPERIMENTAL - MD 03-6420	45.0	50.1	47.6	FROST	29	2.7
EXPERIMENTAL - MD 0708WN 157	42.1	54.9	48.5	FROST	32	2.7
PUBLIC - MANOKIN	42.0	51.3	46.7	FROST	28	3.3
PUBLIC - KS 4602N	41.0	49.4	45.2	FROST	27	2.2
EXPERIMENTAL - MD 09-5801	40.7	-	-	FROST	24	2.5
EXPERIMENTAL - Tn 09-029	38.6	-	-	FROST	28	2.3
<b>Mean</b>	<b>43.7</b>	<b>54.8</b>	<b>49.3</b>	-	<b>28</b>	<b>2.6</b>
<b>LSD 0.20</b>	<b>NS</b>	<b>5.2</b>	-	-	<b>3</b>	<b>0.3</b>
<b>CV, %</b>	<b>13.4</b>	<b>8.9</b>	-	-	-	-

Table 7. (Continued) Quantico - Double Cropped, Non-Roundup Ready Soybean Varieties

Brand - Entry	Seed Yield, Bu/A			2012		
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 5</b>					
EXPERIMENTAL - MD 05-5468	50.9	54.7	52.8	FROST	29	2.3
EXPERIMENTAL - MD 99-6226	48.4	54.8	51.6	FROST	25	2.0
PUBLIC - OSAGE	47.6	59.6	53.6	FROST	26	2.2
PUBLIC - ESSEX	47.5	49.1	48.3	FROST	26	2.5
EXPERIMENTAL - Tn 09-008	44.8	-	-	FROST	30	2.0
PUBLIC - 5002T	42.6	57.6	50.1	FROST	25	2.5
PUBLIC - HUTCHESON	41.0	52.8	46.9	FROST	27	2.8
PUBLIC - GLENN	39.2	55.5	47.4	FROST	25	2.2
BAYER HBK - RY5221 (RR CHECK)	38.9	-	-	FROST	29	2.7
EXPERIMENTAL - MD 0607WN 38	37.3	49.7	43.5	FROST	30	3.0
<b>Mean</b>	<b>43.8</b>	<b>50.1</b>	<b>47.0</b>	-	<b>27</b>	<b>2.4</b>
<b>LSD 0.20</b>	<b>4.0</b>	<b>5.3</b>	-	-	<b>NS</b>	<b>0.3</b>
<b>CV, %</b>	<b>8.4</b>	<b>9.8</b>	-	-	-	-

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

Table 8. Relative yields of non-Roundup Ready soybean varieties compared to the mean of all varieties in that maturity group at each location in 2012.

Brand - Entry	Clarksville	Queenstown	Quantico	
			Full Season	Double Crop
<b>MATURITY GROUP 3</b>				
PUBLIC - IA 3024	112*	96	90	111*
PUBLIC - MACON	98	114*	101	115*
EXPERIMENTAL - MD 03-5453	96	82	96	99
EXPERIMENTAL - MD 0708WN 55	93	97	98	72
DYNA-GRO - 37RY39 (RR CHECK)	101	111*	115*	102*
<b>Location/Group Mean Yield</b>	<b>65.0</b>	<b>39.6</b>	<b>47.9ns</b>	<b>36.2</b>
<b>MATURITY GROUP 4</b>				
PUBLIC - IA 4005	115*	98	97	95
PUBLIC - LD 00-2817P	105	100	108*	120*
PUBLIC - LD 00-3309	106	101	94	89
PUBLIC - MONOCACY	105	95	98	105
EXPERIMENTAL - MD 0708WN 120	100	93	97	100
EXPERIMENTAL - MD 0809WN 69	91	103	100*	107
EXPERIMENTAL - MD 0809WN 100	91	93	106*	96
EXPERIMENTAL - MD 09-5194	82	104	91	86
USG -74D42S STS	101	103	103*	97
S.STATES - SS4510NR2 (RR CHECK)	107	111*	107*	104
<b>Location/Group Mean Yield</b>	<b>61.5</b>	<b>47.7ns</b>	<b>50.1</b>	<b>38.3</b>
<b>MATURITY GROUP 4s</b>				
PUBLIC - KS 4602N	108	92	95	94
PUBLIC - MANOKIN	90	104	101*	96
EXPERIMENTAL - MD 01-5866	102	100	103*	114*
EXPERIMENTAL - MD 03-6420	110	94	92	103
EXPERIMENTAL - MD 06-5356	95	100	105*	108
EXPERIMENTAL - MD 0708WN 157	96	104	106*	96
EXPERIMENTAL - MD 09-5801	75	94	91	93
EXPERIMENTAL - Tn 09-029	98	98	102*	88
S.STATES - SS4700R2STS (RR CHECK)	124*	115*	106*	107
<b>Location/Group Mean Yield</b>	<b>54.2</b>	<b>48.2</b>	<b>52.7</b>	<b>43.7ns</b>



Table 8. (Continued) Relative Yields, Non-Roundup Ready Soybean Varieties

Brand - Entry	Clarksville	Queenstown	Quantic	
			Full Season	Double Crop
<b>MATURITY GROUP 5</b>				
PUBLIC - ESSEX	-	95	89	108*
PUBLIC - GLENN	-	99	103	90
PUBLIC - HUTCHESON	-	98	92	94
EXPERIMENTAL - MD 99-6226	-	105*	103	111*
EXPERIMENTAL - MD 05-5468	-	107*	97	116*
EXPERIMENTAL - MD 0607WN 38	-	80	99	85
PUBLIC - OSAGE	-	107*	101	109*
PUBLIC - 5002T	-	109*	115*	97
EXPERIMENTAL - Tn 09-008	-	103*	106	102
BAYER HBK - RY5221 (RR CHECK)	-	97	95	89
<b>Location/Group Mean Yield</b>	-	<b>63.1</b>	<b>56.8</b>	<b>43.8</b>

ns=no significant differences among entries in this group

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

Actual 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. Performance of Roundup Ready soybean varieties planted at Keedysville.

Brand - Entry	2012					
	Seed Yield, Bu/A			Height, Inches	Lodging Score*	
	2012	2011	2-Year			
<b>MATURITY GROUP 3</b>						
DYNA-GRO - 37RY39	74.6	49.9	62.2	34	2.2	
HUBNER - H34-12R2	73.8	-	-	33	1.7	
TA SEEDS - TS3989RS	73.6	53.7	63.6	36	1.8	
USG - 73H77	73.3	54.7	64.0	36	3.0	
MID ATL - MAS 3511RR2	72.2	50.7	61.5	35	2.0	
HISOY - HS39A14	70.3	-	-	32	2.0	
DYNA-GRO - S39RY33	70.1	-	-	37	2.0	
TA SEEDS - TS3839R2	70.1	-	-	31	2.0	
HISOY - HS38A02	70.0	49.0	59.5	33	2.0	
MID ATL - MAS 3933NRR2/STS	69.6	-	-	35	2.3	
MID ATL - MAS 3900NRR2	69.5	-	-	29	1.2	
DOEBLERS RPM - DB3512RR	68.5	-	-	33	1.0	
S.STATES - SS3910NR2	68.2	52.9	60.6	35	2.2	
MID ATL - MAS 3802RR2	67.9	-	-	35	2.0	
DOEBLERS RPM - DB3809RR	67.9	47.3	57.6	35	2.2	
HISOY - HS39A03	65.9	47.4	56.7	34	2.3	
DYNA-GRO - S38RY63	65.4	-	-	33	1.3	
HUBNER - H36-12R2	63.8	51.7	57.8	31	1.8	
MID ATL - MAS 3599RR	63.2	43.3	53.2	37	2.0	
DOEBLERS RPM - DB3312RR	62.8	-	-	35	2.3	
S.STATES - SS3811NR2	62.4	50.2	56.3	37	2.0	
	<b>Mean</b>	<b>68.7</b>	<b>49.9</b>	<b>59.3</b>	<b>34</b>	<b>2.0</b>
	<b>LSD 0.20</b>	<b>NS</b>	<b>5.3</b>	<b>-</b>	<b>3</b>	<b>0.6</b>
	<b>CV, %</b>	<b>10.3</b>	<b>9.9</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>MATURITY GROUP 4</b>						
DYNA-GRO - 39RY43	75.9	60.8	68.4	35	1.5	
HISOY - HS45A14	75.3	-	-	37	1.7	
HISOY - HS42A12	74.4	-	-	35	1.7	
MID ATL - MAS 4399NRR/STS	73.5	57.5	65.5	39	3.5	
S.STATES - SS4412NR2	72.4	-	-	34	1.7	
HISOY - HS41A02	72.2	63.0	67.6	39	2.3	
DOEBLERS RPM - DB4512RR	71.3	-	-	34	1.2	
TA SEEDS - TS4299RS	71.2	58.2	64.7	35	2.2	
TA SEEDS - TS4339R2	70.4	-	-	35	1.5	
USG - 74B58	69.8	61.6	65.7	31	1.0	
DYNA-GRO - S44RS93	69.1	-	-	33	1.3	
S.STATES - SS4312NR2	69.1	62.4	65.7	31	1.0	
USG - 74D32R	68.8	-	-	34	2.5	

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

Brand - Entry	2012					
	Seed Yield, Bu/A			Height, Inches	Lodging Score*	
	2012	2011	2-Year			
<b>MATURITY GROUP 4 (Continued)</b>						
MID ATL - MAS 4200RR2	68.3	-	-	34	3.0	
USG - 74F12R	67.9	-	-	37	2.2	
USG - 74B42R	64.1	-	-	31	1.0	
MID ATL - MAS 4504NRR2/STS	63.5	57.0	60.3	38	1.7	
S.STATES - SS4510NR2	63.5	65.3	64.4	35	1.7	
DYNA-GRO - SX12245R	63.2	-	-	35	1.3	
	<b>Mean</b>	<b>69.7</b>	<b>61.1</b>	<b>65.4</b>	<b>35</b>	<b>1.8</b>
	<b>LSD 0.20</b>	<b>5.8</b>	<b>4.6</b>	<b>-</b>	<b>3</b>	<b>0.6</b>
	<b>CV, %</b>	<b>7.8</b>	<b>7.1</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>MATURITY GROUP 4s</b>						
S.STATES - SS4700R2STS	70.7	61.1	65.9	35	2.0	
TA SEEDS - TS4939R2	67.6	-	-	35	1.7	
DYNA-GRO - S48RS53	65.6	-	-	40	1.8	
HUBNER - H48-12R2/STS	64.6	-	-	37	1.5	
BAYER HBK - RY4721	63.1	-	-	39	1.7	
BAYER HBK - RY4620	63.0	-	-	31	1.2	
DYNA-GRO - 37RY47	61.4	57.9	59.6	35	1.5	
HUBNER - H46-01R2/STS	60.0	60.1	60.1	29	1.2	
USG - 74A79R	59.9	58.5	59.2	31	1.3	
DYNA-GRO - 39D48	59.8	59.3	59.6	36	1.3	
TA SEEDS - TS4729RS	59.5	-	-	30	1.0	
MID ATL - MAS 4666NRR	59.5	55.3	57.4	37	1.7	
BAYER HBK - R4924	59.4	-	-	41	1.8	
USG - 74A69R	59.1	60.7	59.9	30	1.3	
HISOY - HS47T12	58.4	-	-	37	1.3	
USG - 74A92R	57.4	-	-	35	1.3	
USG - 74E88	57.3	53.4	55.3	39	2.3	
USG - 7495nRS	57.0	-	-	39	2.3	
USG - 74H81	57.0	56.3	56.6	36	1.7	
S.STATES - SS4917NR2	55.0	-	-	32	1.0	
	<b>Mean</b>	<b>60.8</b>	<b>56.2</b>	<b>58.5</b>	<b>35</b>	<b>1.5</b>
	<b>LSD 0.20</b>	<b>NS</b>	<b>4.0</b>	<b>-</b>	<b>3</b>	<b>0.5</b>
	<b>CV, %</b>	<b>12.7</b>	<b>6.7</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

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

Brand – Entry	Seed Yield, Bu/A			2012			
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*	
	<b>MATURITY GROUP 3</b>						
MID ATL - MAS 3511RR2	76.0	57.4	66.7	10-08	47	3.5	
MID ATL - MAS 3933NRR2/STS	75.7	-	-	10-09	45	3.2	
DOEBLERS RPM - DB3512RR	75.3	-	-	10-05	44	2.5	
MID ATL - MAS 3900NRR2	75.3	-	-	10-07	45	3.0	
DOEBLERS RPM - DB3809RR	74.3	53.3	63.8	10-07	44	3.5	
TA SEEDS - TS3839R2	74.3	-	-	10-04	41	3.3	
HUBNER - H34-12R2	73.6	-	-	10-05	44	2.8	
S.STATES - SS3811NR2	72.0	52.2	62.1	10-07	47	2.8	
DYNA-GRO - 37RY39	71.0	53.8	62.4	10-07	45	3.5	
HISOY - HS39A03	70.9	55.9	63.4	10-08	43	3.2	
S.STATES - SS3910NR2	70.9	51.0	60.9	10-08	45	3.3	
MID ATL - MAS 3802RR2	69.0	-	-	10-09	48	3.0	
HISOY - HS39A14	68.8	-	-	10-06	43	3.3	
HUBNER - H36-12R2	68.2	57.1	62.6	10-06	44	2.8	
HISOY - HS38A02	68.1	47.0	57.5	10-07	45	2.8	
DYNA-GRO - S39RY33	67.3	-	-	10-09	46	3.3	
MID ATL - MAS 3599RR	66.7	48.3	57.5	10-05	45	3.2	
USG - 73H77	65.9	49.0	57.4	10-06	44	3.5	
DOEBLERS RPM - DB3312RR	64.8	-	-	10-04	46	3.0	
TA SEEDS - TS3989RS	64.8	51.6	58.2	10-08	45	3.2	
DYNA-GRO - S38RY63	60.7	-	-	10-08	46	2.2	
	<b>Mean</b>	<b>70.2</b>	<b>51.2</b>	<b>60.7</b>	<b>-</b>	<b>45</b>	<b>3.1</b>
	<b>LSD 0.20</b>	<b>5.7</b>	<b>6.6</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>0.3</b>
	<b>CV, %</b>	<b>7.6</b>	<b>12.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>MATURITY GROUP 4</b>							
DOEBLERS RPM - DB4512RR	68.6	-	-	10-09	46	2.3	
HISOY - HS45A14	66.9	-	-	10-13	46	2.7	
MID ATL - MAS 4200RR2	66.1	-	-	10-04	44	3.2	
USG - 74B42R	65.2	-	-	10-06	45	2.0	
DYNA-GRO - SX12245R	64.9	-	-	10-14	49	2.5	
S.STATES - SS4312NR2	64.4	60.3	62.4	10-07	44	2.2	
USG - 74B58	64.2	61.6	62.9	10-06	43	2.0	
USG - 74F12R	64.1	-	-	10-06	45	3.5	
HISOY - HS42A12	64.0	-	-	10-07	45	2.5	
TA SEEDS - TS4339R2	63.8	-	-	10-11	47	2.2	
TA SEEDS - TS4299RS	63.1	57.3	60.2	10-05	44	2.5	
HISOY - HS41A02	62.2	53.9	58.0	10-08	45	3.2	
DYNA-GRO - S44RS93	62.1	-	-	10-07	42	2.3	

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

Brand – Entry	2012					
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*
	2012	2011	2-Year			
<b>MATURITY GROUP 4 (Continued)</b>						
S.STATES - SS4510NR2	61.8	60.4	61.1	10-13	47	3.3
USG - 74D32R	61.0	-	-	10-06	45	3.5
DYNA-GRO - 39RY43	60.9	53.3	57.1	10-08	45	2.2
MID ATL - MAS 4504NRR2/STS	58.5	49.7	54.1	10-12	49	2.5
S.STATES - SS4412NR2	57.1	-	-	10-05	41	2.2
MID ATL - MAS 4399NRR/STS	55.8	52.9	54.4	10-11	45	3.2
<b>Mean</b>	<b>62.9</b>	<b>56.0</b>	<b>59.5</b>	-	<b>45</b>	<b>2.6</b>
<b>LSD 0.20</b>	<b>4.2</b>	<b>4.6</b>	-	-	<b>1</b>	<b>0.3</b>
<b>CV, %</b>	<b>6.4</b>	<b>7.8</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
HUBNER - H48-12R2/STS	74.2	-	-	10-15	47	3.0
HISOY - HS47T12	71.6	-	-	10-19	51	3.2
BAYER HBK - RY4721	71.0	-	-	10-16	50	3.3
USG - 74A92R	70.5	-	-	10-16	47	2.8
USG - 74A79R	70.3	57.9	64.1	10-16	45	3.0
DYNA-GRO - 37RY47	70.0	57.8	63.9	10-14	45	3.0
MID ATL - MAS 4666NRR	69.5	54.1	61.8	10-15	49	3.2
BAYER HBK - RY4620	69.4	-	-	10-17	46	3.0
USG - 74A69R	69.1	58.5	63.8	10-14	45	3.2
DYNA-GRO - S48RS53	68.9	-	-	10-18	50	3.3
S.STATES - SS4917NR2	67.1	-	-	10-17	46	3.0
DYNA-GRO - 39D48	66.8	52.6	59.7	10-15	47	3.2
TA SEEDS - TS4729RS	66.8	-	-	10-14	41	2.3
USG - 74H81	66.7	54.1	60.4	10-14	47	3.5
HUBNER - H46-01R2/STS	63.5	55.9	59.7	10-15	45	2.8
S.STATES - SS4700R2STS	62.6	56.0	59.3	10-15	46	3.5
USG - 7495nRS	60.7	-	-	10-17	47	3.3
TA SEEDS - TS4939R2	59.2	-	-	10-15	47	2.2
USG - 74E88	59.1	45.3	52.2	10-17	48	3.2
BAYER HBK - R4924	57.3	-	-	10-18	50	3.7
<b>Mean</b>	<b>66.7</b>	<b>54.1</b>	<b>60.4</b>	-	<b>47</b>	<b>3.1</b>
<b>LSD 0.20</b>	<b>5.4</b>	<b>4.2</b>	-	-	<b>1</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.5</b>	<b>7.3</b>	-	-	-	-

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

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

Brand – Entry	2012						
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*	
	2012	2011	2-Year				
<b>MATURITY GROUP 3</b>							
USG - 73H77	68.3	54.9	61.6	10-07	35	2.0	
S.STATES - SS3910NR2	66.2	53.2	59.7	10-08	37	3.0	
MID ATL - MAS 3900NRR2	66.0	-	-	10-08	32	1.5	
DYNA-GRO - 37RY39	65.7	55.3	60.5	10-06	35	2.2	
HISOY - HS38A02	65.2	58.5	61.9	10-08	36	2.0	
DOEBLERS RPM - DB3512RR	62.7	-	-	10-06	33	2.3	
DOEBLERS RPM - DB3809RR	62.6	51.3	57.0	10-06	35	2.2	
HUBNER - H36-12R2	61.9	52.0	56.9	10-06	33	1.5	
TA SEEDS - TS3839R2	61.7	-	-	10-08	30	1.7	
DOEBLERS RPM - DB3312RR	61.5	-	-	10-01	35	2.3	
HISOY - HS39A03	61.5	56.0	58.7	10-08	32	1.8	
HUBNER - H34-12R2	60.8	-	-	10-06	30	1.5	
TA SEEDS - TS3989RS	60.7	53.1	56.9	10-07	35	2.2	
MID ATL - MAS 3933NRR2/STS	59.3	-	-	10-06	35	2.2	
MID ATL - MAS 3599RR	55.4	50.5	53.0	10-02	35	1.5	
HISOY - HS39A14	54.2	-	-	10-05	30	1.2	
DYNA-GRO - S38RY63	54.1	-	-	10-06	34	1.2	
DYNA-GRO - S39RY33	53.4	-	-	10-06	35	1.7	
MID ATL - MAS 3511RR2	53.2	51.4	52.3	10-07	32	1.8	
MID ATL - MAS 3802RR2	53.2	-	-	10-09	35	1.8	
S.STATES - SS3811NR2	51.5	51.4	51.4	10-08	33	1.7	
	<b>Mean</b>	<b>60.0</b>	<b>52.3</b>	<b>56.2</b>	<b>-</b>	<b>34</b>	<b>1.9</b>
	<b>LSD 0.20</b>	<b>8.2</b>	<b>5.3</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>0.6</b>
	<b>CV, %</b>	<b>12.8</b>	<b>9.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>MATURITY GROUP 4</b>							
HISOY - HS45A14	65.0	-	-	10-11	36	2.0	
MID ATL - MAS 4504NRR2/STS	61.8	56.3	59.0	10-12	38	2.0	
USG - 74B58	58.7	59.8	59.2	10-11	28	1.5	
TA SEEDS - TS4299RS	57.5	51.5	54.5	10-08	31	1.7	
DYNA-GRO - S44RS93	57.4	-	-	10-11	29	1.3	
S.STATES - SS4510NR2	56.4	59.0	57.7	10-11	33	1.8	
USG - 74D32R	54.7	-	-	10-08	27	1.7	
HISOY - HS41A02	54.5	57.3	55.9	10-10	33	2.0	
USG - 74F12R	54.2	-	-	10-08	35	2.7	
DYNA-GRO - 39RY43	54.2	59.8	57.0	10-10	29	1.3	
DYNA-GRO - SX12245R	51.1	-	-	10-12	38	1.7	
MID ATL - MAS 4399NRR/STS	50.7	59.3	55.0	10-11	31	1.7	
DOEBLERS RPM - DB4512RR	50.3	-	-	10-10	30	1.5	

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

Brand – Entry	2012					
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*
	2012	2011	2-Year			
<b>MATURITY GROUP 4 (Continued)</b>						
MID ATL - MAS 4200RR2	49.9	-	-	10-09	29	1.5
USG - 74B42R	48.7	-	-	10-09	27	1.2
TA SEEDS - TS4339R2	47.4	-	-	10-11	31	1.3
HISOY - HS42A12	45.8	-	-	10-10	25	1.3
S.STATES - SS4412NR2	44.5	-	-	10-10	27	1.3
S.STATES - SS4312NR2	43.3	58.0	50.6	10-10	27	1.3
<b>Mean</b>	<b>52.9</b>	<b>57.1</b>	<b>55.0</b>	-	<b>31</b>	<b>1.6</b>
<b>LSD 0.20</b>	<b>8.9</b>	<b>4.0</b>	-	-	<b>3</b>	<b>0.3</b>
<b>CV, %</b>	<b>15.8</b>	<b>6.5</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
TA SEEDS - TS4939R2	55.0	-	-	10-13	31	1.5
HISOY - HS47T12	52.8	-	-	10-15	32	1.0
DYNA-GRO - 37RY47	52.5	56.3	54.4	10-12	30	1.0
USG - 74H81	51.0	56.8	53.9	10-12	31	1.0
DYNA-GRO - S48RS53	50.8	-	-	10-14	31	1.0
USG - 7495nRS	50.0	-	-	10-13	33	1.8
S.STATES - SS4917NR2	49.7	-	-	10-15	29	1.0
MID ATL - MAS 4666NRR	49.0	54.6	51.8	10-17	33	1.0
S.STATES - SS4700R2STS	48.3	62.0	55.1	10-13	28	1.0
USG - 74A79R	47.7	58.4	53.0	10-14	27	1.3
USG - 74A69R	46.3	57.0	51.7	10-14	27	1.2
DYNA-GRO - 39D48	46.3	55.4	50.8	10-10	29	1.0
HUBNER - H46-01R2/STS	45.7	54.2	50.0	10-11	26	1.0
USG - 74E88	45.1	54.7	49.9	10-13	29	1.0
BAYER HBK - RY4721	44.5	-	-	10-13	31	1.0
USG - 74A92R	43.5	-	-	10-15	29	1.0
BAYER HBK - R4924	43.1	-	-	10-11	35	1.3
BAYER HBK - RY4620	41.3	-	-	10-13	27	1.0
HUBNER - H48-12R2/STS	41.2	-	-	10-14	29	1.3
TA SEEDS - TS4729RS	40.6	-	-	10-11	24	1.0
<b>Mean</b>	<b>47.2</b>	<b>56.1</b>	<b>51.7</b>	-	<b>30</b>	<b>1.1</b>
<b>LSD 0.20</b>	<b>6.1</b>	<b>4.1</b>	-	-	<b>3</b>	<b>0.2</b>
<b>CV, %</b>	<b>12.2</b>	<b>6.9</b>	-	-	-	-

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

Brand – Entry	Seed Yield, Bu/A			Maturity Date	2012	
	2012	2011	2-Year		Height, Inches	Lodging Score*
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5421	54.0	-	-	10-19	31	1.8
BAYER HBK - RY5221	51.5	-	-	10-19	38	2.2
BAYER HBK - R5425	48.8	-	-	10-23	39	1.7
BAYER HBK - RY5521	48.2	-	-	10-23	33	1.7
HUBNER - H5812R2	45.3	-	-	10-21	34	1.7
<b>Mean</b>	<b>49.6</b>	-	-	-	<b>35</b>	<b>1.8</b>
<b>LSD 0.20</b>	<b>NS</b>	-	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>8.4</b>	-	-	-	-	-

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



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

Brand – Entry	2012						
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*	
	2012	2011	2-Year				
<b>MATURITY GROUP 3</b>							
USG - 73H77	55.8	56.3	56.0	10-20	28	2.8	
MID ATL - MAS3933NRR2/STS	53.6	-	-	10-19	27	2.2	
HISOY - HS39A03	53.1	54.1	53.6	10-20	24	2.7	
DYNA-GRO - S39RY33	52.7	-	-	10-18	26	2.5	
DOEBLERS RPM - DB3512RR	51.3	-	-	10-19	27	2.7	
MID ATL - MAS 3900NRR2	51.3	-	-	10-19	24	2.3	
HISOY - HS38A02	50.1	54.7	52.4	10-19	24	2.7	
HUBNER - H34-12R2	50.1	-	-	10-15	24	2.3	
S.STATES - SS3910NR2	50.0	49.8	49.9	10-21	29	3.0	
TA SEEDS - TS3989RS	49.3	56.6	52.9	10-21	29	2.3	
MID ATL - MAS 3802RR2	49.1	-	-	10-17	26	2.8	
MID ATL - MAS 3511RR2	48.6	53.0	50.8	10-19	25	2.7	
DOEBLERS RPM - DB3809RR	48.5	54.1	51.3	10-19	26	2.3	
TA SEEDS - TS3839R2	48.4	-	-	10-18	27	3.0	
DYNA-GRO - 37RY39	47.4	57.6	52.5	10-16	27	3.0	
S.STATES - SS3811NR2	47.3	49.9	48.6	10-18	29	2.8	
HISOY - HS39A14	46.5	-	-	10-18	25	2.2	
HUBNER - H36-12R2	45.2	45.3	45.3	10-15	22	3.0	
DOEBLERS RPM - DB3312RR	43.3	-	-	10-14	25	3.0	
DYNA-GRO - S38RY63	42.3	-	-	10-19	28	2.3	
MID ATL - MAS 3599RR	42.0	47.8	44.9	10-16	27	2.7	
	<b>Mean</b>	<b>48.9</b>	<b>52.7</b>	<b>50.8</b>	-	<b>26</b>	<b>2.6</b>
	<b>LSD 0.20</b>	<b>3.4</b>	<b>4.0</b>	-	-	<b>2</b>	<b>0.4</b>
	<b>CV, %</b>	<b>6.6</b>	<b>7.1</b>	-	-	-	-
<b>MATURITY GROUP 4</b>							
DYNA-GRO - S44RS93	57.9	-	-	10-26	27	2.2	
USG - 74D32R	57.5	-	-	10-25	29	2.7	
HISOY - HS41A02	56.5	50.1	53.3	10-26	33	2.5	
HISOY - HS45A14	56.0	-	-	10-26	31	2.7	
DYNA-GRO - 39RY43	55.6	56.9	56.3	10-26	27	2.2	
MID ATL - MAS 4200RR2	55.4	-	-	10-25	32	2.7	
USG - 74F12R	55.3	-	-	10-24	33	3.0	
S.STATES - SS4412NR2	55.2	-	-	10-26	26	2.2	
HISOY - HS42A12	53.9	-	-	10-26	28	2.2	
USG - 74B42R	53.7	-	-	10-24	27	2.5	
TA SEEDS - TS4339R2	52.8	-	-	10-26	28	2.2	
DOEBLERS RPM - DB4512RR	52.3	-	-	10-26	29	2.5	
MID ATL - MAS4504NRR2/STS	52.3	53.1	52.7	10-27	33	2.2	

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

Brand – Entry	2012					
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*
	2012	2011	2-Year			
<b>MATURITY GROUP 4 (Continued)</b>						
MID ATL - MAS 4399NRR/STS	52.0	54.8	53.4	10-27	31	2.5
S.STATES - SS4510NR2	51.8	57.2	54.5	10-26	33	3.0
TA SEEDS - TS4299RS	51.4	47.9	49.7	10-24	29	2.3
DYNA-GRO - SX12245R	51.1	-	-	10-26	33	2.3
USG - 74B58	50.4	57.1	53.8	10-27	29	2.3
S.STATES - SS4312NR2	47.8	55.3	51.6	10-25	26	2.5
<b>Mean</b>	<b>53.6</b>	<b>52.5</b>	<b>53.1</b>	-	<b>30</b>	<b>2.4</b>
<b>LSD 0.20</b>	<b>2.3</b>	<b>3.3</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>4.1</b>	<b>6.0</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
HUBNER - H48-12R2/STS	56.4	-	-	FROST	33	2.8
USG - 74A69R	53.8	49.5	51.7	FROST	28	2.5
TA SEEDS - TS4939R2	52.6	-	-	FROST	31	2.2
USG - 74A92R	51.6	-	-	FROST	31	2.5
TA SEEDS - TS4729RS	51.2	-	-	FROST	25	2.0
S.STATES - SS4700R2STS	51.1	54.2	52.6	FROST	29	2.2
MID ATL - MAS 4666NRR	50.4	47.1	48.7	FROST	31	2.3
HISOY - HS47T12	49.3	-	-	FROST	30	2.0
BAYER HBK - RY4721	48.4	-	-	FROST	31	2.7
S.STATES - SS4917NR2	48.2	-	-	FROST	30	2.2
BAYER HBK - RY4620	48.0	-	-	FROST	29	2.3
USG - 74E88	47.8	47.3	47.6	FROST	28	2.3
USG - 74H81	47.7	53.0	50.4	FROST	32	2.7
HUBNER - H46-01R2/STS	47.1	53.9	50.5	FROST	29	2.2
DYNA-GRO - 39D48	46.7	53.1	49.9	FROST	30	2.5
USG - 74A79R	46.6	55.8	51.2	FROST	27	2.5
DYNA-GRO - S48RS53	46.0	-	-	FROST	31	2.0
DYNA-GRO - 37RY47	45.8	53.9	49.9	FROST	28	2.0
USG - 7495nRS	45.0	-	-	FROST	33	3.0
BAYER HBK - R4924	43.2	-	-	FROST	35	3.0
<b>Mean</b>	<b>48.9</b>	<b>51.7</b>	<b>50.3</b>	-	<b>30</b>	<b>2.4</b>
<b>LSD 0.20</b>	<b>3.4</b>	<b>3.5</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>6.5</b>	<b>6.3</b>	-	-	-	-

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

Brand – Entry	Seed Yield, Bu/A			Maturity Date	2012	
	2012	2011	2-Year		Height, Inches	Lodging Score*
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5421	43.9	-	-	FROST	27	2.7
BAYER HBK - RY5221	42.6	-	-	FROST	33	2.3
BAYER HBK - RY5521	41.4	-	-	FROST	29	2.0
HUBNER - H58-12R2	39.1	-	-	FROST	31	2.2
BAYER HBK - R5425	37.9	-	-	FROST	33	2.0
<b>Mean</b>	<b>41.0</b>	-	-	-	<b>31</b>	<b>2.2</b>
<b>LSD 0.20</b>	<b>2.9</b>	-	-	-	<b>2</b>	<b>0.2</b>
<b>CV, %</b>	<b>6.4</b>	-	-	-	-	-

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

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

Brand – Entry	Seed Yield, Bu/A			2012			
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*	
	<b>MATURITY GROUP 3</b>						
MID ATL - MAS 3511RR2	53.6	56.1	54.9	10-12	28	1.7	
HISOY - HS38A02	52.9	49.7	51.3	10-13	27	2.0	
MID ATL - MAS 3900NRR2	52.5	-	-	10-13	25	1.5	
S.STATES - SS3910NR2	52.1	58.8	55.4	10-13	31	2.0	
MID ATL - MAS 3599RR	51.8	55.8	53.8	10-10	29	1.7	
DOEBLERS RPM - DB3512RR	49.6	-	-	10-10	26	1.5	
HUBNER - H36-12R2	49.5	50.3	49.9	10-11	26	1.5	
DOEBLERS RPM - DB3809RR	48.5	52.6	50.6	10-12	28	1.7	
DYNA-GRO - S39RY33	48.4	-	-	10-12	27	1.8	
TA SEEDS - TS3839R2	47.3	-	-	10-10	24	1.5	
DYNA-GRO - 37RY39	46.3	54.5	50.4	10-11	27	1.5	
S.STATES - SS3811NR2	46.3	51.8	49.0	10-12	26	1.5	
HUBNER - H34-12R2	46.2	-	-	10-09	26	1.2	
MID ATL - MAS3933NRR2/STS	46.0	-	-	10-14	26	2.0	
DYNA-GRO - S38RY63	46.0	-	-	10-13	27	1.3	
USG - 73H77	45.8	51.2	48.5	10-12	28	1.7	
TA SEEDS - TS3989RS	45.3	52.8	49.1	10-12	28	1.5	
HISOY - HS39A14	45.2	-	-	10-09	26	1.3	
DOEBLERS RPM - DB3312RR	45.0	-	-	10-08	29	1.5	
MID ATL - MAS 3802RR2	44.8	-	-	10-12	27	1.7	
HISOY - HS39A03	40.9	54.0	47.5	10-11	24	1.2	
	<b>Mean</b>	<b>47.8</b>	<b>52.2</b>	<b>50.0</b>	-	<b>27</b>	<b>1.6</b>
	<b>LSD 0.20</b>	<b>NS</b>	<b>NS</b>	-	-	<b>2</b>	<b>0.3</b>
	<b>CV, %</b>	<b>11.9</b>	<b>9.4</b>	-	-	-	-
<b>MATURITY GROUP 4</b>							
USG - 74D32R	54.6	-	-	10-15	27	1.2	
DYNA-GRO - 39RY43	54.0	59.0	56.5	10-15	25	1.5	
HISOY - HS45A14	53.9	-	-	10-15	29	1.0	
MID ATL - MAS 4399NRR/STS	53.2	56.7	54.9	10-15	31	1.5	
TA SEEDS - TS4299RS	51.1	54.1	52.6	10-12	26	1.0	
S.STATES - SS4510NR2	50.9	65.9	58.4	10-15	28	1.2	
S.STATES - SS4312NR2	50.7	58.0	54.4	10-14	25	1.5	
USG - 74F12R	50.5	-	-	10-14	30	1.5	
MID ATL - MAS 4200RR2	50.4	-	-	10-15	29	1.2	
MID ATL - MAS4504NRR2/STS	50.3	54.2	52.2	10-15	32	1.0	
DYNA-GRO - SX12245R	49.4	-	-	10-16	31	1.0	
USG - 74B42R	49.2	-	-	10-13	25	1.0	
HISOY - HS41A02	49.2	60.4	54.8	10-14	29	1.3	

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

Brand – Entry	Seed Yield, Bu/A			2012		
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP 4 (Continued)</b>						
DYNA-GRO - S44RS93	48.5	-	-	10-15	26	1.0
HISOY - HS42A12	48.3	-	-	10-14	25	1.3
USG - 74B58	47.7	61.7	54.7	10-14	25	1.0
TA SEEDS - TS4339R2	47.5	-	-	10-14	29	1.0
S.STATES - SS4412NR2	46.7	-	-	10-15	24	1.0
DOEBLERS RPM - DB4512RR	44.2	-	-	10-13	26	1.2
<b>Mean</b>	<b>50.0</b>	<b>59.8</b>	<b>54.9</b>	-	<b>27</b>	<b>1.2</b>
<b>LSD 0.20</b>	<b>NS</b>	<b>5.4</b>	-	-	<b>2</b>	<b>0.2</b>
<b>CV, %</b>	<b>9.0</b>	<b>8.5</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
USG - 74A69R	67.1	50.7	58.9	10-17	29	2.7
USG - 74A79R	66.0	61.2	63.6	10-20	30	2.3
HUBNER - H46-01R2/STS	64.8	61.4	63.1	10-18	27	2.3
USG - 74H81	63.0	60.2	61.6	10-16	34	3.3
MID ATL - MAS 4666NRR	62.9	58.4	60.7	10-20	32	2.3
DYNA-GRO - 37RY47	62.4	54.7	58.6	10-17	27	2.3
TA SEEDS - TS4729RS	62.3	-	-	10-18	26	2.0
USG - 74A92R	62.1	-	-	10-20	32	3.3
S.STATES - SS4700R2STS	62.0	63.4	62.7	10-18	27	2.3
S.STATES - SS4917NR2	61.9	-	-	10-20	31	2.2
HUBNER - H48-12R2/STS	61.3	-	-	10-16	31	2.8
DYNA-GRO - S48RS53	60.9	-	-	10-21	32	2.3
DYNA-GRO - 39D48	58.7	49.0	53.8	10-17	33	2.8
HISOY - HS47T12	58.6	-	-	10-21	32	2.5
USG - 7495nRS	58.4	-	-	10-21	34	3.8
TA SEEDS - TS4939R2	58.3	-	-	10-17	29	1.0
USG - 74E88	57.6	49.7	53.6	10-18	32	2.8
BAYER HBK - RY4721	56.8	-	-	10-18	31	2.8
BAYER HBK - RY4620	55.4	-	-	10-19	28	2.3
BAYER HBK - R4924	54.8	-	-	10-20	33	3.3
<b>Mean</b>	<b>60.8</b>	<b>57.0</b>	<b>58.9</b>	-	<b>30</b>	<b>2.6</b>
<b>LSD 0.20</b>	<b>NS</b>	<b>6.6</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>8.5</b>	<b>10.8</b>	-	-	-	-

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

Brand – Entry	Seed Yield, Bu/A			2012		
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5421	59.1	-	-	FROST	29	2.5
HUBNER - H58-12R2	58.4	-	-	FROST	25	2.2
BAYER HBK - RY5221	57.7	-	-	FROST	33	3.3
BAYER HBK - RY5521	57.3	-	-	FROST	30	2.0
BAYER HBK - R5425	53.5	-	-	FROST	36	2.3
Mean	<b>57.2</b>	-	-	-	<b>31</b>	<b>2.5</b>
LSD 0.20	<b>3.2</b>	-	-	-	<b>3</b>	<b>0.2</b>
CV, %	<b>5.0</b>	-	-	-	-	-

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

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

Brand – Entry	Seed Yield, Bu/A			2012		
	2012	2011	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 3</b>					
MID ATL - MAS3933NRR2/STS	46.0	-	-	10-21	27	3.7
TA SEEDS - TS3839R2	45.6	-	-	10-18	24	3.5
S.STATES - SS3910NR2	42.9	45.3	44.1	10-21	26	3.5
HUBNER - H36-12R2	42.2	53.4	47.8	10-18	23	3.2
DYNA-GRO - 37RY39	42.2	54.6	48.4	10-18	24	3.7
DYNA-GRO - S39RY33	42.1	-	-	10-19	23	3.8
USG - 73H77	41.9	55.0	48.4	10-21	25	4.0
DOEBLERS RPM - DB3809RR	40.4	54.9	47.7	10-19	24	3.3
MID ATL - MAS 3511RR2	40.2	54.0	47.1	10-20	24	3.8
TA SEEDS - TS3989RS	39.9	50.5	45.2	10-20	27	3.5
HISOY - HS39A14	39.2	-	-	10-18	25	4.0
HISOY - HS38A02	39.0	51.5	45.3	10-20	23	3.7
HISOY - HS39A03	38.8	52.0	45.4	10-22	23	3.7
MID ATL - MAS 3802RR2	38.6	-	-	10-21	29	3.7
DYNA-GRO - S38RY63	36.1	-	-	10-18	25	3.7
MID ATL - MAS 3900NRR2	35.9	-	-	10-21	23	3.3
HUBNER - H34-12R2	35.3	-	-	10-17	20	3.2
DOEBLERS RPM - DB3312RR	35.0	-	-	10-18	25	3.7
DOEBLERS RPM - DB3512RR	34.2	-	-	10-18	23	3.7
MID ATL - MAS 3599RR	33.8	43.5	38.7	10-19	26	3.7
S.STATES - SS3811NR2	32.4	52.9	42.7	10-18	25	3.7
<b>Mean</b>	<b>39.1</b>	<b>51.7</b>	<b>45.4</b>	-	<b>24</b>	<b>3.6</b>
<b>LSD 0.20</b>	<b>5.1</b>	<b>5.8</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>12.3</b>	<b>10.6</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
USG - 74D32R	55.7	-	-	FROST	27	3.3
MID ATL - MAS 4200RR2	51.0	-	-	FROST	25	3.3
MID ATL - MAS 4399NRR/STS	48.6	55.7	52.2	FROST	29	3.5
HISOY - HS41A02	48.3	51.5	49.9	FROST	28	3.3
HISOY - HS45A14	47.8	-	-	FROST	26	3.3
USG - 74B58	47.5	53.1	50.3	FROST	23	3.2
S.STATES - SS4510NR2	46.8	57.0	51.9	FROST	29	3.2
DOEBLERS RPM - DB4512RR	46.7	-	-	FROST	28	3.3
TA SEEDS - TS4339R2	46.3	-	-	FROST	24	3.3
USG - 74F12R	46.2	-	-	FROST	29	3.7
MID ATL - MAS4504NRR2/STS	45.0	60.1	52.6	FROST	29	3.0
USG - 74B42R	44.5	-	-	FROST	25	3.5
DYNA-GRO - 39RY43	43.5	53.1	48.3	FROST	23	2.8

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

Brand – Entry	2012					
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*
	2012	2011	2-Year			
<b>MATURITY GROUP 4 (Continued)</b>						
TA SEEDS - TS4299RS	42.5	57.6	50.1	FROST	26	3.3
HISOY - HS42A12	41.6	-	-	FROST	25	3.3
S.STATES - SS4312NR2	41.1	59.4	50.3	FROST	26	3.3
DYNA-GRO - SX12245R	40.6	-	-	FROST	26	3.0
DYNA-GRO - S44RS93	37.9	-	-	FROST	23	3.7
S.STATES - SS4412NR2	35.7	-	-	FROST	24	3.3
<b>Mean</b>	<b>45.1</b>	<b>55.4</b>	<b>50.3</b>	-	<b>26</b>	<b>3.3</b>
<b>LSD 0.20</b>	<b>4.6</b>	<b>5.1</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>9.5</b>	<b>8.7</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
USG - 74A79R	57.5	61.1	59.3	FROST	25	3.0
HUBNER - H46-01R2/STS	53.3	63.3	58.3	FROST	26	2.7
USG - 74H81	53.0	60.0	56.5	FROST	25	3.2
USG - 74A69R	52.3	59.4	55.8	FROST	25	2.8
HUBNER - H48-12R2/STS	52.1	-	-	FROST	28	3.0
DYNA-GRO - S48RS53	51.2	-	-	FROST	27	2.2
MID ATL - MAS 4666NRR	50.6	54.9	52.7	FROST	29	2.5
USG - 74A92R	50.0	-	-	FROST	29	2.8
USG - 74E88	49.0	49.6	49.3	FROST	29	3.0
S.STATES - SS4700R2STS	48.8	59.1	54.0	FROST	25	2.5
BAYER HBK - R4924	48.8	-	-	FROST	31	3.2
BAYER HBK - RY4620	48.6	-	-	FROST	23	2.7
USG - 7495nRS	48.5	-	-	FROST	29	3.2
DYNA-GRO - 39D48	47.0	56.0	51.5	FROST	27	3.2
HISOY - HS47T12	45.7	-	-	FROST	27	2.7
DYNA-GRO - 37RY47	45.5	60.2	52.8	FROST	23	1.8
TA SEEDS - TS4939R2	45.3	-	-	FROST	27	3.2
BAYER HBK - RY4721	43.7	-	-	FROST	29	3.2
S.STATES - SS4917NR2	43.0	-	-	FROST	24	2.8
TA SEEDS - TS4729RS	42.5	-	-	FROST	19	1.8
<b>Mean</b>	<b>48.8</b>	<b>57.3</b>	<b>53.1</b>	-	<b>26</b>	<b>2.8</b>
<b>LSD 0.20</b>	<b>5.0</b>	<b>5.9</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>9.5</b>	<b>9.7</b>	-	-	-	-



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

Brand – Entry	2012					
	Seed Yield, Bu/A			Maturity Date	Height, Inches	Lodging Score*
	2012	2011	2-Year			
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5521	45.9	-	-	FROST	31	2.0
BAYER HBK - RY5421	45.7	-	-	FROST	29	2.3
BAYER HBK - RY5221	43.7	-	-	FROST	29	3.0
HUBNER - H58-12R2	43.4	-	-	FROST	29	2.8
BAYER HBK - R5425	40.4	-	-	FROST	31	2.8
<b>Mean</b>	<b>43.8</b>	-	-	-	<b>30</b>	<b>2.6</b>
<b>LSD 0.20</b>	<b>4.5</b>	-	-	-	<b>1</b>	<b>NS</b>
<b>CV, %</b>	<b>9.0</b>	-	-	-	-	-

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

Table 15. Relative yields of Roundup Ready soybean varieties compared to the mean of all varieties in that maturity group at each location in 2012.

Brand - Entry	Keedys-ville	Clarks-ville	Queenstown		Quantic	
			FS	DC	FS	DC
<b>MATURITY GROUP 3</b>						
DYNA-GRO - S38RY63	95	87	90	87	96	92
DYNA-GRO - 37RY39	109*	101*	110*	97	97	108*
DYNA-GRO - S39RY33	102	96	89	108*	101	108*
HISOY - HS38A02	102	97	109*	102	111	100
HISOY - HS39A03	96	101*	103*	109*	86	99
HISOY - HS39A14	102	98	90	95	94	100
HUBNER - H34-12R2	107	105*	101*	102	97	90
HUBNER - H36-12R2	93	97	103*	92	104	108*
MID ATL - MAS 3511RR2	105	108*	89	99	112*	103
MID ATL - MAS 3599RR	92	95	92	86	108	87
MID ATL - MAS 3802RR2	99	98	89	100	94	99
MID ATL - MAS 3900NRR2	101	107*	110*	105	110	92
MID ATL - MAS3933NRR2/STS	101	108*	99	110*	96	118*
DOEBLERS RPM - DB3312RR	91	92	103*	89	94	89
DOEBLERS RPM - DB3512RR	100	107*	105*	105	104	87
DOEBLERS RPM - DB3809RR	99	106*	104*	99	102	103
S.STATES - SS3811NR2	91	103*	86	97	97	83
S.STATES - SS3910NR2	99	101*	110*	102	109	110*
TA SEEDS - TS3839R2	102	106*	103*	99	99	117*
TA SEEDS - TS3989RS	107	92	101*	101	95	102
USG - 73H77	107	94	114*	114*	96	107*
<b>Location/Group Mean Yield</b>	<b>68.7ns</b>	<b>70.2</b>	<b>60.0</b>	<b>48.9</b>	<b>47.8ns</b>	<b>39.1</b>
<b>MATURITY GROUP 4</b>						
DYNA-GRO - 39RY43	109*	97	102	104*	108	96
DYNA-GRO - S44RS93	99	99	109*	108*	97	84
DYNA-GRO - SX12245R	91	103*	97	95	99	90
HISOY - HS41A02	104*	99	103	105*	98	107
HISOY - HS42A12	107*	102	87	101	97	92
HISOY - HS45A14	108*	106*	123*	104*	108	106
MID ATL - MAS 4200RR2	98	105*	94	103	101	113
MID ATL - MAS 4399NRR/STS	105*	89	96	97	106	108
MID ATL - MAS4504NRR2/STS	91	93	117*	98	101	100
DOEBLERS RPM - DB4512RR	102*	109*	95	98	88	103
S.STATES - SS4312NR2	99	102*	82	89	101	91
S.STATES - SS4412NR2	104*	91	84	103	93	79
S.STATES - SS4510NR2	91	98	107*	97	102	104

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

Brand - Entry	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
<b>MATURITY GROUP 4 (Continued)</b>						
TA SEEDS - TS4299RS	102*	100	109*	96	102	94
TA SEEDS - TS4339R2	101*	101	90	99	95	103
USG - 74F12R	97	102	102	103	101	102
USG - 74B42R	92	104*	92	100	98	99
USG - 74D32R	99	97	103	107*	109*	124*
USG - 74B58	100	102	111*	94	95	105
<b>Location/Group Mean Yield</b>	<b>69.7</b>	<b>62.9</b>	<b>52.9</b>	<b>53.6</b>	<b>50.0ns</b>	<b>45.1</b>
<b>MATURITY GROUP 4s</b>						
DYNA-GRO - 37RY47	101	105*	111*	94	103	93
DYNA-GRO - 39D48	98	100	98	96	96	96
DYNA-GRO - S48RS53	108	103*	108*	94	100	105
BAYER HBK - RY4620	104	104*	88	98	91	100
BAYER HBK - RY4721	104	106*	94	99	93	90
BAYER HBK - R4924	98	86	91	88	90	100
HISOY - HS47T12	96	107*	112*	101	96	94
HUBNER - H46-01R2/STS	99	95	97	96	107	109*
HUBNER - H48-12R2/STS	106	111*	87	115*	101	107
MID ATL - MAS 4666NRR	98	104*	104*	103	104	104
S.STATES - SS4700R2STS	116*	94	102	104	102	100
S.STATES - SS4917NR2	90	101	105*	99	102	88
TA SEEDS - TS4729RS	98	100	86	105	102	87
TA SEEDS - TS4939R2	111	89	117*	108	96	93
USG - 74A69R	97	104*	98	110*	110*	107
USG - 74A79R	98	105*	101	95	108	118*
USG - 74E88	94	89	96	98	95	100
USG - 74H81	94	100	108*	98	104	109*
USG - 74A92R	94	106*	92	106	102	103
USG - 7495nRS	94	91	106	92	96	99
<b>Location/Group Mean Yield</b>	<b>60.8ns</b>	<b>66.7</b>	<b>47.2</b>	<b>48.9</b>	<b>60.8ns</b>	<b>48.8</b>

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

Brand - Entry	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5221	-	-	104	104*	101*	100*
BAYER HBK - RY5421	-	-	109*	107*	103*	104*
BAYER HBK - R5425	-	-	98	92	93	92
BAYER HBK - RY5521	-	-	97	101*	100*	105*
HUBNER - H58-12R2	-	-	91	95	102*	99*
<b>Location/Group Mean Yield</b>	-	-	<b>49.6ns</b>	<b>41.0</b>	<b>57.2</b>	<b>43.8</b>

FS=Full Season, DC=Double Crop

ns=no significant differences among entries in this group

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

Actual 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.