



# Information

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

**Agronomy Facts No. 32**  
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## **2013 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 (relative maturities of 4.6 to 4.9) were evaluated separately from the other varieties in Maturity Group 4 and are listed as “4s” in the data tables. All entries in the 2013 test are tolerant to Roundup herbicide. Entries with STS in their names also have tolerance to the sulfonylurea herbicides. The brands and suppliers of the entries in this year’s test 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 2013 growing season was generally one of favorable temperatures and soil moisture in most areas of the state. Rainfall during June and July was above average at Quantico and Queenstown. The wet soil conditions resulted in the appearance of *Phytophthora* disease symptoms on several entries in both the full-season and double-crop tests at Quantico. Timely rainfall across the state in September and October resulted in good yields for both full-season and double-crop plantings. Scattered frost across the state in late October impacted the maturity date for the Maturity Group 5 varieties in the double-crop tests at Quantico and Queenstown. Monthly rainfall amounts for May through October for the test locations are shown in Table 3.

Results of the 2013 tests are reported in Tables 4-9. In each of these tables, varieties within maturity groups are listed in order of yield, highest to lowest. The highest overall test location mean yields were at Keedysville for the full-season tests (63.6 Bu/A) and Quantico for the double-crop tests (61.9 Bu/A).

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. Table 10 summarizes the relative yields of the varieties 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 Table 10, 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 varieties previously entered in the 2012 tests are shown in the data tables. The 2012 location average yield for each maturity group and the 2012 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. Seed brands and companies represented in the 2013 Maryland soybean variety test.

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Brand	Company Address
BAYER HBK	Bayer Crop Science, 1502 Clarksville Drive, Scotland Neck, NC 27874
DOEBLERS RPM	Doebler PA Hybrids, Inc., 202 Tiadaghton Avenue, Jersey Shore, PA 17740
DYNA-GRO	Dyna-Gro Seed, 1140 Sweet Road, East Aurora, NY 14052
HISOY	Growmark FS, 308 N.E. Front Street, Milford, DE 19963
HUBNER	Hubner Seed, 10280 W. State Road 28, West Lebanon, IN 47991
MID ATLANTIC	Mid-Atlantic Seeds, 204 St. Charles Way, York, PA 17402
MYCOGEN	Mycogen Seeds, 9330 Zionsville Road, Indianapolis, IN 46268
SOUTHERN STATES	Southern States Coop, Inc., 6606 West Broad Street, Richmond, VA 23230
TA SEEDS	T.A. Seeds, P.O. Box 300, Avis, PA 17721
USG	UniSouth Genetics, Inc., 3205-C Highway 46 S, Dickson, TN 37055

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Table 2. The 2013 soybean variety test plot information

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

Tests: Maturity Groups 3, 4, and 4s  
Planting Date: May 29  
Row Spacing: 24 inches  
Soil Type: Hagerstown silt loam  
Soil Test: pH 6.7, P 124 (H), K 149 (G)  
Previous Crop: Grass  
Fertilizer: None  
Lime: None  
Herbicide: 22 Oz/A Roundup Power Max + 5 Oz/A Cloak (May 30)  
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: Maturity Group 3, 4, and 4s  
Planting Date: May 30  
Row Spacing: 24 inches  
Soil Type: Delanco silt loam  
Soil Test: pH 6.6, P 56, K 210  
Previous Crop: Corn  
Fertilizer: 200 Lbs/A 5-14-40  
Lime: None  
Herbicide: 1 Qt/A Roundup Power Max (July 9)  
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, Maturity Groups 3, 4, 4s, and 5  
Planting Date: May 22  
Row Spacing: 24 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 5.9, P Index- 127, K Index- 51  
Previous Crop: Corn  
Fertilizer: 0-0-120 + 25 S  
Lime: None  
Herbicide: Pre: 6.45 Oz/A Authority First +2 Pt/A Medal II (May 21)  
Post: 1.5 Qt/A Gly Star Plus (July 30)  
Insecticide: None  
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, Maturity Groups 3, 4, 4s, and 5  
Planting Date: July 9  
Row Spacing: 7.5 inches  
Soil Type: Matapeake silt loam  
Soil Test: pH 6.3, P Index- 64, K Index- 120  
Previous Crop: Wheat  
Fertilizer: None on soybeans  
Lime: None  
Herbicide: Post: 1.5 Qt/A Gly Star Plus (July 25)  
Insecticide: None  
Plots: 7 rows, 25 feet long  
Seeding Rate: 3 seeds/foot  
Tillage: None

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

Tests: Full Season, Maturity Groups 3, 4, 4s, and 5  
Planting Date: May 22  
Row Spacing: 20 inches  
Soil Type: Nassawango silt loam  
Soil Test: pH 6.2, P sat ratio- 11, K ppm- 137  
Previous Crop: No Tillage Corn  
Fertilizer: 250 Lbs/A 05-05-30  
Lime: None  
Herbicide: Preemerge: 1.5 Pt/A Roundup + 1 Pt/A Dual II Magnum  
Post: 1.5 Pt/A Roundup+1 Pt/A Dual II Magnum+ 2 Oz/A 2,4-DB (July 16)  
Plots: 4 rows, 20 feet long  
Seeding Rate: 6.5 seeds/foot except Maturity Group 5 entries= 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, Maturity Groups 3, 4, 4s, and 5
Planting Date:	June 26
Row Spacing:	20 inches
Soil Type:	Nassawango silt loam
Soil Test:	pH 5.9, P sat ratio- 16, K ppm- 129
Previous Crop:	Barley
Fertilizer:	None on soybeans
Lime:	None
Herbicide:	1.5 Qt/A Roundup + 1 Pt/A Dual II Magnum + 2 Oz/A 2,4DB (August 5)
Plots:	4 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	2.72	3.51	1.76	3.12	1.23	5.46	17.80
Clarksville	3.53	5.00	3.70	2.91	1.28	4.20	20.62
Queenstown	1.92	9.80	5.04	2.42	1.32	4.29	24.79
Quantico	2.16	6.62	5.29	4.34	1.39	5.02	24.82

Table 4. Performance of soybean varieties planted at Keedysville.

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Height, Inches	Lodging Score*	
	<b>MATURITY GROUP 3</b>					
HISOY - HS39A22	69.6	-	-	37	1.2	
MID ATL - MA3802nRR2	67.9	67.9	67.9	39	2.0	
HISOY - HS38A02	67.6	70.0	68.8	36	1.5	
HUBNER - H34-11R2	67.6	-	-	33	1.3	
MID ATL - MA3689nRR	67.1	-	-	39	2.3	
MYCOGEN - 5N385R2	66.8	-	-	37	2.0	
MID ATL - MA3511RR2	66.4	72.2	69.3	37	2.0	
DYNA-GRO - S38RY84	66.0	-	-	33	1.3	
DOEBLERS RPM - DB3513RR	66.0	-	-	33	1.2	
S.STATES - SS3801NR2	65.8	-	-	33	1.7	
HISOY - HS39A14	65.5	70.3	67.9	36	1.7	
DOEBLERS RPM - DB3813RR	65.2	-	-	32	1.7	
USG - 73P93R	64.8	-	-	36	1.5	
S.STATES - SS3813NR2	64.8	-	-	32	1.5	
DOEBLERS RPM - DB3312RR	64.6	62.8	63.7	39	1.3	
DYNA-GRO - S39RY33	64.4	70.1	67.3	37	1.8	
HUBNER - H37-14R2STS	63.8	-	-	39	1.3	
MID ATL - MA3889nRR2	62.4	-	-	39	2.0	
MID ATL - MA3933nRR2/STS	59.5	69.6	64.6	37	2.3	
TA SEEDS - TS3849R2S	59.4	-	-	36	1.8	
	<b>Mean</b>	<b>65.3</b>	<b>68.7</b>	<b>67.0</b>	<b>36</b>	<b>1.7</b>
	<b>LSD 0.20</b>	<b>3.5</b>	<b>ns</b>	<b>-</b>	<b>2</b>	<b>0.4</b>
	<b>CV,%</b>	<b>5.1</b>	<b>10.3</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>MATURITY GROUP 4</b>						
S.STATES - SS4312NR2	72.1	69.1	70.6	38	2.2	
HISOY - HS42A12	69.4	74.4	71.9	37	1.7	
MYCOGEN - 5N431R2	69.3	-	-	37	1.7	
DOEBLERS RPM - DB4512RR	69.2	71.3	70.3	39	1.8	
HUBNER - H42-13R2	69.1	-	-	37	2.0	
HUBNER - H40-13R2	67.7	-	-	38	1.5	
USG - 74B42R	66.5	64.1	66.3	37	1.8	
USG - 74B58	66.0	69.8	67.9	39	2.5	
HISOY - HS44T14	65.3	-	-	41	2.0	
USG - 74F12R	64.8	67.9	66.4	40	3.7	
USG - 74A27	64.3	-	-	36	1.5	
DYNA-GRO - 39RY43	64.0	75.9	70	39	1.7	
HUBNER - H44-14R2STS	64.0	-	-	41	1.7	
USG - 74A33R	63.9	-	-	37	2.7	
DYNA-GRO - 31RY45	63.7	-	-	42	2.2	
DOEBLERS RPM - DB4013RR	63.1	-	-	40	1.8	
S.STATES - SS4412NR2	62.6	72.4	67.5	37	2.2	
HISOY - HS45A14	62.1	75.3	68.7	42	3.2	



Table 4. (Continued) Keedysville

Brand - Entry	Seed Yield, Bu/A			2013	
	2013	2012	2-Year	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 4 (Continued)</b>				
S.STATES - SS4510NR2	61.4	63.5	62.5	44	2.2
USG - 74D32R	61.3	68.8	65.1	38	3.7
DYNA-GRO - S44RS93	60.2	69.1	64.7	37	1.7
MID ATL - MA4504nRR/STS	57.4	63.5	60.5	42	2.5
MID ATL - MA4399nRR/STS	57.2	73.5	65.4	41	3.0
<b>Mean</b>	<b>64.6</b>	<b>69.7</b>	<b>67.2</b>	<b>39</b>	<b>2.2</b>
<b>LSD 0.20</b>	<b>4.1</b>	<b>5.8</b>	-	<b>2</b>	<b>0.5</b>
<b>CV,%</b>	<b>5.9</b>	<b>7.8</b>	-	-	-
<b>MATURITY GROUP 4s</b>					
DYNA-GRO - 37RY47	66.4	61.4	63.9	38	2.0
MYCOGEN - 5N478R2	65.6	-	-	45	2.8
DYNA-GRO - SX13346R	64.8	-	-	37	2.5
MID ATL - MA4802nRR/STS	63.6	-	-	43	2.3
HISOY - HS49T14	63.6	-	-	41	2.3
BAYER HBK - RY4620	63.5	63.0	63.3	38	1.7
S.STATES - SS4700R2-STS	62.8	70.7	66.8	41	2.5
BAYER HBK - RY4721	62.2	63.1	62.7	43	2.3
HUBNER - H48-13R2STS	61.6	-	-	46	2.2
DYNA-GRO - S48RS53	61.6	65.6	63.6	45	2.3
USG - 74A69R	61.1	59.1	60.1	40	2.0
S.STATES - SS4913NR2	60.6	-	-	45	1.7
USG - 74A79R	59.1	59.9	59.5	40	2.3
HISOY - HS47T12	56.1	58.4	57.3	46	2.3
USG - 7495nRS	56.0	57.0	56.5	43	3.3
S.STATES - SS4917NR2	54.4	55.0	54.7	41	1.7
USG - 74E88	52.9	57.3	55.1	41	1.7
<b>Mean</b>	<b>60.9</b>	<b>60.8</b>	<b>60.9</b>	<b>42</b>	<b>2.2</b>
<b>LSD 0.20</b>	<b>3.5</b>	<b>ns</b>	-	<b>2</b>	<b>0.6</b>
<b>CV,%</b>	<b>5.4</b>	<b>12.7</b>	-	-	-

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

Table 5. Performance of soybean varieties planted at Clarksville.

Brand – Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 3</b>					
HISOY - HS39A22	63.9	-	-	10-05	43	2.5
USG - 73P93R	63.4	-	-	10-05	44	2.5
HISOY - HS38A02	62.5	68.1	65.3	10-05	46	2.8
MYCOGEN - 5N385R2	61.1	-	-	10-03	43	2.8
HUBNER - H37-14R2STS	59.2	-	-	10-02	43	2.5
MID ATL - MA3689nRR	58.8	-	-	10-02	43	2.7
MID ATL - MA3889nRR2	58.6	-	-	10-05	46	3.0
DYNA-GRO - S38RY84	57.9	-	-	10-01	41	2.8
HUBNER - H34-11R2	57.7	-	-	9-29	41	2.5
S.STATES - SS3813NR2	57.0	-	-	10-05	40	3.0
DOEBLERS RPM - DB3312RR	56.0	64.8	60.4	9-26	46	2.8
S.STATES - SS3801NR2	55.7	-	-	9-30	41	2.7
DOEBLERS RPM - DB3513RR	54.5	-	-	9-28	41	2.5
DYNA-GRO - S39RY33	53.9	67.3	60.6	10-05	47	3.3
MID ATL - MA3511RR2	53.8	76.0	64.9	10-01	47	3.0
DOEBLERS RPM - DB3813RR	52.9	-	-	9-29	42	2.7
MID ATL - MA3802nRR2	52.2	69.0	60.6	10-05	49	2.8
TA SEEDS - TS3849R2S	51.4	-	-	10-02	42	2.7
MID ATL - MA3933nRR2/STS	49.9	75.7	62.8	10-07	46	3.0
HISOY - HS39A14	48.5	68.8	58.7	10-02	45	3.0
<b>Mean</b>	<b>56.5</b>	<b>70.2</b>	<b>63.4</b>	-	<b>44</b>	<b>2.8</b>
<b>LSD 0.20</b>	<b>4.4</b>	<b>5.7</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.3</b>	<b>7.6</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
DYNA-GRO - 39RY43	67.6	60.9	64.3	10-11	44	2.8
S.STATES - SS4312NR2	66.1	64.4	65.3	10-09	43	3.0
USG - 74B58	65.5	64.2	64.9	10-09	41	2.8
HUBNER - H40-13R2	65.3	-	-	10-05	43	2.5
HUBNER - H42-13R2	64.4	-	-	10-06	41	2.8
HISOY - HS42A12	62.6	64.0	63.3	10-09	42	2.7
HISOY - HS44T14	61.7	-	-	10-06	45	2.8
S.STATES - SS4510NR2	61.6	61.8	61.7	10-11	50	3.5
S.STATES - SS4412NR2	61.4	57.1	59.3	10-10	41	3.2
HUBNER - H44-14R2STS	61.3	-	-	10-11	44	2.8
DOEBLERS RPM - DB4512RR	61.0	68.6	64.8	10-09	45	3.2
USG - 74A33R	60.9	-	-	10-13	40	3.5
DOEBLERS RPM - DB4013RR	60.7	-	-	10-05	45	2.8
HISOY - HS45A14	60.6	66.9	63.8	10-12	45	3.5
USG - 74A27	60.0	-	-	10-07	41	2.5
MID ATL - MA4504nRR/STS	59.1	58.5	58.8	10-13	51	3.5
DYNA-GRO - 31RY45	57.6	-	-	10-12	45	3.5
MYCOGEN - 5N431R2	57.3	-	-	10-09	42	2.5

Table 5. (Continued) Clarksville

Brand – Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP 4 (Continued)</b>						
USG - 74B42R	57.1	65.2	61.2	10-09	43	2.8
USG - 74D32R	56.8	61.0	58.9	10-10	48	4.0
USG - 74F12R	56.8	64.1	60.5	10-12	47	3.8
DYNA-GRO - S44RS93	56.3	62.1	59.2	10-07	40	2.7
MID ATL - MA4399nRR/STS	55.8	55.8	55.8	10-11	43	3.5
<b>Mean</b>	<b>60.8</b>	<b>62.9</b>	<b>61.9</b>	-	<b>44</b>	<b>3.1</b>
<b>LSD 0.20</b>	<b>4.7</b>	<b>4.2</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.3</b>	<b>6.4</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
HISOY - HS49T14	65.3	-	-	10-10	44	3.0
DYNA-GRO - S48RS53	56.2	68.9	62.6	10-11	51	3.5
USG - 74A69R	55.3	69.1	62.2	10-07	42	2.8
S.STATES - SS4913NR2	55.0	-	-	10-11	46	3.2
USG - 7495nRS	55.0	60.7	57.9	10-12	45	3.8
S.STATES - SS4917NR2	54.5	67.1	60.8	10-10	45	2.8
MYCOGEN - 5N478R2	53.8	-	-	10-09	49	3.5
HUBNER - H48-13R2STS	53.6	-	-	10-12	50	3.5
BAYER HBK - RY4620	51.5	69.4	60.5	10-09	43	3.2
DYNA-GRO - SX13346R	51.3	-	-	10-05	41	2.3
HISOY - HS47T12	50.4	71.6	61.0	10-11	48	3.5
USG - 74A79R	49.8	70.3	60.1	10-07	42	3.2
BAYER HBK - RY4721	49.5	71.0	60.3	10-09	46	3.5
MID ATL - MA4802nRR/STS	49.1	-	-	10-11	45	3.5
S.STATES - SS4700R2-STS	48.1	62.6	55.4	10-12	45	3.3
DYNA-GRO - 37RY47	45.5	70.0	57.8	10-05	42	2.2
USG - 74E88	44.3	59.1	51.7	10-10	45	2.7
<b>Mean</b>	<b>52.2</b>	<b>66.7</b>	<b>59.5</b>	-	<b>45</b>	<b>3.1</b>
<b>LSD 0.20</b>	<b>6.9</b>	<b>5.4</b>	-	-	<b>2</b>	<b>0.4</b>
<b>CV, %</b>	<b>12.4</b>	<b>7.5</b>	-	-	-	-

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

Table 6. Performance of soybean varieties planted full season at Queenstown.

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 3</b>					
USG - 73P93R	66.1	-	-	10-01	36	1.2
S.STATES - SS3801NR2	65.5	-	-	9-29	34	2.0
S.STATES - SS3813NR2	64.4	-	-	9-26	34	1.3
HUBNER - H34-11R2	64.2	-	-	9-25	34	1.7
HISOY - HS39A22	64.1	-	-	9-30	37	1.5
HUBNER - H37-14R2STS	63.1	-	-	9-29	36	1.3
TA SEEDS - TS3849R2S	62.7	-	-	9-28	37	1.5
MID ATL - MA3889nRR2	62.1	-	-	9-27	37	1.5
MID ATL - MA3689nRR	61.3	-	-	9-29	37	1.7
MID ATL - MA3511RR2	60.7	53.2	57.0	9-24	35	1.5
DOEBLERS RPM - DB3312RR	59.1	61.5	60.3	9-22	35	1.3
HISOY - HS38A02	59.0	65.2	62.1	9-29	33	1.2
DOEBLERS RPM - DB3813RR	58.9	-	-	9-27	29	1.0
DYNA-GRO - S38RY84	58.0	-	-	9-25	31	1.3
HISOY - HS39A14	56.6	54.2	55.4	9-23	37	2.0
DOEBLERS RPM - DB3513RR	56.5	-	-	9-23	29	1.0
MID ATL - MA3802nRR2	56.4	53.2	54.8	9-29	35	1.3
MYCOGEN - 5N385R2	55.9	-	-	9-27	35	1.3
DYNA-GRO - S39RY33	54.9	53.4	54.2	9-28	34	1.7
MID ATL - MA3933nRR2/STS	54.7	59.3	57.0	9-30	41	2.3
<b>Mean</b>	<b>60.2</b>	<b>60.0</b>	<b>60.1</b>	-	<b>35</b>	<b>1.5</b>
<b>LSD 0.20</b>	<b>5.1</b>	<b>8.2</b>	-	-	<b>2</b>	<b>0.4</b>
<b>CV, %</b>	<b>7.9</b>	<b>12.8</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
HUBNER - H42-13R2	66.1	-	-	10-01	34	1.0
HISOY - HS44T14	65.7	-	-	10-02	39	1.5
HUBNER - H40-13R2	64.5	-	-	10-01	38	1.5
MYCOGEN - 5N431R2	63.4	-	-	10-02	36	1.7
HISOY - HS42A12	62.9	45.8	54.4	10-01	34	1.7
HUBNER - H44-14R2STS	62.9	-	-	10-02	38	1.8
S.STATES - SS4312NR2	62.7	43.3	53.0	10-02	35	1.8
USG - 74A27	62.5	-	-	10-02	33	1.2
S.STATES - SS4510NR2	61.4	56.4	58.9	10-06	43	2.5
USG - 74B58	61.3	58.7	60.0	10-02	33	1.5
S.STATES - SS4412NR2	61.1	44.5	52.8	10-02	36	1.3
DOEBLERS RPM - DB4512RR	60.8	50.3	55.6	10-03	37	1.2
DOEBLERS RPM - DB4013RR	59.6	-	-	10-02	35	1.8
USG - 74A33R	59.3	-	-	10-04	37	2.2
USG - 74F12R	58.2	54.2	56.2	10-01	42	2.8
DYNA-GRO - 39RY43	58.2	54.2	56.2	10-01	37	2.0
DYNA-GRO - 31RY45	58.1	-	-	10-03	39	1.8
USG - 74B42R	57.2	48.7	53.0	10-02	35	1.3

Table 6. (Continued) Queenstown - Full Season

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP 4 (Continued)</b>						
HISOY - HS45A14	55.1	65.0	60.1	10-02	38	2.0
USG - 74D32R	54.6	54.7	54.7	10-01	37	2.8
DYNA-GRO - S44RS93	53.0	57.4	55.2	10-01	33	1.2
MID ATL - MA4399nRR/STS	52.9	50.7	51.8	10-02	37	2.5
MID ATL - MA4504nRR/STS	52.6	61.8	57.2	10-04	40	2.8
<b>Mean</b>	<b>59.7</b>	<b>52.9</b>	<b>56.3</b>	-	<b>37</b>	<b>1.8</b>
<b>LSD 0.20</b>	<b>4.3</b>	<b>8.9</b>	-	-	<b>2</b>	<b>0.5</b>
<b>CV, %</b>	<b>6.7</b>	<b>15.8</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
HUBNER - H48-13R2STS	61.4	-	-	10-09	44	2.0
USG - 74E88	60.7	45.1	52.9	10-04	42	2.2
DYNA-GRO - SX13346R	59.9	-	-	9-30	36	1.5
HISOY - HS49T14	59.7	-	-	10-10	39	2.0
BAYER HBK - RY4721	59.3	44.5	51.9	10-04	39	2.0
USG - 74A69R	57.8	46.3	52.1	10-02	37	1.5
S.STATES - SS4917NR2	57.0	49.7	53.4	10-07	37	1.5
MYCOGEN - 5N478R2	57.0	-	-	10-04	41	2.8
MID ATL - MA4802nRR/STS	56.9	-	-	10-08	44	2.3
DYNA-GRO - S48RS53	56.8	50.8	53.8	10-07	43	2.0
USG - 74A79R	56.8	47.7	52.3	10-04	38	2.3
USG - 7495nRS	55.6	50.0	52.8	10-09	41	3.3
HISOY - HS47T12	55.4	52.8	54.1	10-10	41	2.5
S.STATES - SS4700R2-STS	55.0	48.3	51.7	10-04	40	1.5
DYNA-GRO - 37RY47	54.5	52.5	53.5	10-02	36	1.5
S.STATES - SS4913NR2	53.9	-	-	10-04	41	2.0
BAYER HBK - RY4620	53.5	41.3	47.4	10-01	35	1.3
<b>Mean</b>	<b>57.1</b>	<b>47.2</b>	<b>52.2</b>	-	<b>40</b>	<b>2.0</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>6.1</b>	-	-	<b>2</b>	<b>0.5</b>
<b>CV, %</b>	<b>7.8</b>	<b>12.2</b>	-	-	-	-
<b>MATURITY GROUP 5</b>						
DOEBLERS RPM - DB5213RR	49.2	-	-	10-13	36	2.0
DOEBLERS RPM - DB5711RR	46.4	-	-	10-25	39	3.3
BAYER HBK - RY5221	46.3	51.5	48.9	10-18	47	3.5
BAYER HBK - RY5421	44.0	54.0	49.0	10-20	38	2.5
<b>Mean</b>	<b>46.5</b>	<b>49.6</b>	<b>48.1</b>	-	<b>40</b>	<b>2.8</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>ns</b>	-	-	<b>4</b>	<b>0.4</b>
<b>CV, %</b>	<b>6.0</b>	<b>8.4</b>	-	-	-	-

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

Table 7. Performance of soybean varieties double cropped at Queenstown.

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 3</b>					
MID ATL - MA3689nRR	52.8	-	-	10-24	22	1.2
USG - 73P93R	51.8	-	-	10-27	24	1.0
HUBNER - H37-14R2STS	51.0	-	-	10-26	25	1.0
TA SEEDS - TS3849R2S	50.9	-	-	10-31	24	1.0
HISOY - HS39A14	50.3	46.5	48.4	10-24	26	1.2
DYNA-GRO - S38RY84	50.2	-	-	10-23	21	1.0
MYCOGEN - 5N385R2	49.3	-	-	10-25	23	1.2
MID ATL - MA3511RR2	48.9	48.6	48.8	10-23	21	1.0
HISOY - HS38A02	48.1	50.1	49.1	10-26	22	1.0
S.STATES - SS3813NR2	48.0	-	-	10-26	22	1.0
S.STATES - SS3801NR2	47.9	-	-	10-24	23	1.0
DOEBLERS RPM - DB3312RR	47.6	43.3	45.5	10-19	24	1.0
DYNA-GRO - S39RY33	47.4	52.7	50.1	10-25	23	1.3
HISOY - HS39A22	46.4	-	-	10-25	22	1.0
HUBNER - H34-11R2	45.9	-	-	10-23	22	1.2
MID ATL - MA3933nRR2/STS	45.8	53.6	49.7	10-27	25	1.7
MID ATL - MA3889nRR2	44.1	-	-	10-28	25	1.0
DOEBLERS RPM - DB3513RR	43.6	-	-	10-24	20	1.0
MID ATL - MA3802nRR2	40.5	49.1	44.8	10-24	23	1.2
DOEBLERS RPM - DB3813RR	39.9	-	-	10-23	21	1.0
<b>Mean</b>	<b>47.5</b>	<b>48.9</b>	<b>48.2</b>	-	<b>23</b>	<b>1.1</b>
<b>LSD 0.20</b>	<b>4.1</b>	<b>3.4</b>	-	-	<b>2</b>	<b>0.2</b>
<b>CV, %</b>	<b>8.2</b>	<b>6.6</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
DYNA-GRO - 39RY43	57.5	55.6	56.6	10-29	27	1.7
MID ATL - MA4399nRR/STS	56.8	52.0	54.4	10-27	27	1.5
USG - 74D32R	56.2	57.5	56.9	10-28	25	1.8
HISOY - HS44T14	56.2	-	-	10-27	30	1.5
S.STATES - SS4412NR2	55.9	55.2	55.6	10-30	24	1.2
USG - 74A33R	55.0	-	-	10-29	26	1.3
MYCOGEN - 5N431R2	55.0	-	-	10-28	26	1.5
DYNA-GRO - S44RS93	54.9	57.9	56.4	10-28	25	1.0
DYNA-GRO - 31RY45	54.9	-	-	10-27	27	1.2
S.STATES - SS4312NR2	53.3	47.8	50.6	10-30	25	1.5
USG - 74B42R	52.8	53.7	53.3	10-28	26	1.2
HUBNER - H44-14R2STS	52.7	-	-	10-30	27	1.2
HUBNER - H40-13R2	52.2	-	-	10-26	24	1.2
DOEBLERS RPM - DB4512RR	51.8	52.3	52.1	10-28	26	1.7
USG - 74F12R	51.7	55.3	53.5	10-27	29	2.0
HISOY - HS45A14	51.6	56.0	53.8	10-28	27	1.2
USG - 74B58	51.3	50.4	50.9	10-29	23	1.0
USG - 74A27	51.1	-	-	10-29	25	1.0

Table 7. (Continued) Queenstown - Double Cropped

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP 4 (Continued)</b>						
HISOY - HS42A12	50.5	53.9	52.2	10-29	24	1.3
S.STATES - SS4510NR2	50.5	51.8	51.2	10-27	29	1.7
MID ATL - MA4504nRR/STS	49.1	52.3	50.7	10-31	32	1.8
HUBNER - H42-13R2	48.7	-	-	10-26	24	1.2
DOEBLERS RPM - DB4013RR	46.9	-	-	10-27	25	1.3
<b>Mean</b>	<b>52.9</b>	<b>53.6</b>	<b>53.3</b>	-	<b>26</b>	<b>1.4</b>
<b>LSD 0.20</b>	<b>4.3</b>	<b>2.3</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.7</b>	<b>4.1</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
BAYER HBK - RY4620	56.2	48.0	52.1	10-31	27	1.2
HUBNER - H48-13R2STS	55.8	-	-	11-04	29	1.3
DYNA-GRO - SX13346R	53.8	-	-	11-02	24	1.0
DYNA-GRO - S48RS53	53.6	46.0	49.8	11-02	29	1.3
MID ATL - MA4802nRR/STS	53.1	-	-	11-05	30	1.5
USG - 74A79R	52.8	46.6	49.7	10-29	26	1.0
HISOY - HS47T12	52.5	49.3	50.9	11-04	29	1.7
USG - 74A69R	52.3	53.8	53.1	11-01	25	1.3
USG - 7495nRS	51.6	45.0	48.3	11-03	29	2.0
HISOY - HS49T14	51.5	-	-	11-05	27	1.3
DYNA-GRO - 37RY47	50.9	45.8	48.4	11-01	25	1.2
S.STATES - SS4913NR2	49.8	-	-	11-03	28	1.2
MYCOGEN - 5N478R2	49.2	-	-	10-31	29	1.5
S.STATES - SS4700R2-STS	48.9	51.1	50.0	11-04	26	1.2
S.STATES - SS4917NR2	48.7	48.2	48.5	11-04	25	1.0
BAYER HBK - RY4721	46.6	48.4	47.5	11-02	31	1.5
USG - 74E88	46.3	47.8	47.1	11-05	27	1.7
<b>Mean</b>	<b>51.4</b>	<b>48.9</b>	<b>50.2</b>	-	<b>28</b>	<b>1.4</b>
<b>LSD 0.20</b>	<b>3.7</b>	<b>3.4</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>6.8</b>	<b>6.5</b>	-	-	-	-
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5221	46.6	42.6	44.6	Frosted	26	1.7
BAYER HBK - RY5421	43.5	43.9	43.7	Frosted	27	1.7
DOEBLERS RPM - DB5213RR	38.6	-	-	Frosted	23	1.0
DOEBLERS RPM - DB5711RR	34.3	-	-	Frosted	28	1.5
<b>Mean</b>	<b>40.8</b>	<b>41.0</b>	<b>40.9</b>	-	<b>26</b>	<b>1.5</b>
<b>LSD 0.20</b>	<b>5.1</b>	<b>2.9</b>	-	-	<b>3</b>	<b>0.4</b>
<b>CV, %</b>	<b>10.7</b>	<b>6.4</b>	-	-	-	-

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

Table 8. Performance of soybean varieties planted full season at Quantico.

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 3</b>					
USG - 73P93R	57.0	-	-	10-09	23	1.7
TA SEEDS - TS3849R2S	56.4	-	-	10-06	24	1.0
DYNA-GRO - S38RY84	54.4	-	-	10-07	24	1.5
DYNA-GRO - S39RY33	53.7	48.4	51.1	10-08	27	2.3
S.STATES - SS3801NR2	53.0	-	-	10-07	23	1.0
MID ATL - MA3511RR2	52.1	53.6	52.9	10-05	26	1.8
MID ATL - MA3689nRR	51.5	-	-	10-06	24	2.2
DOEBLERS RPM - DB3513RR	50.7	-	-	10-02	21	1.5
MID ATL - MA3889nRR2	50.2	-	-	10-05	23	1.5
MID ATL - MA3933nRR2/STS	50.0	46.0	48.0	10-10	27	2.0
MID ATL - MA3802nRR2	49.7	44.8	47.3	10-07	24	1.8
HISOY - HS38A02	49.6	52.9	51.3	10-06	24	2.0
HISOY - HS39A22	49.1	-	-	10-08	23	1.8
HUBNER - H37-14R2STS	48.9	-	-	10-07	26	1.5
S.STATES - SS3813NR2	48.5	-	-	10-07	23	2.0
HUBNER - H34-11R2	48.2	-	-	10-05	23	2.0
MYCOGEN - 5N385R2	46.6	-	-	10-07	23	1.8
DOEBLERS RPM - DB3813RR	45.4	-	-	10-07	22	1.2
HISOY - HS39A14	44.9	45.2	45.1	10-06	25	1.8
DOEBLERS RPM - DB3312RR	44.7	45.0	44.9	10-01	25	2.0
<b>Mean</b>	<b>50.2</b>	<b>47.8</b>	<b>49.0</b>	-	<b>24</b>	<b>1.7</b>
<b>LSD 0.20</b>	<b>3.4</b>	<b>ns</b>	-	-	<b>1</b>	<b>0.2</b>
<b>CV, %</b>	<b>6.4</b>	<b>11.9</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
USG - 74B58	75.4	47.7	61.6	10-09	25	1.3
HUBNER - H44-14R2STS	71.3	-	-	10-15	29	1.7
DOEBLERS RPM - DB4013RR	71.2	-	-	10-09	27	2.0
S.STATES - SS4510NR2	70.8	50.9	60.9	10-14	32	2.2
MYCOGEN - 5N431R2	70.2	-	-	10-11	26	2.0
USG - 74D32R	70.1	54.6	62.4	10-09	30	2.3
S.STATES - SS4412NR2	69.8	46.7	58.3	10-15	27	1.8
HUBNER - H40-13R2	69.7	-	-	10-10	27	1.7
HUBNER - H42-13R2	69.6	-	-	10-09	26	1.2
MID ATL - MA4504nRR/STS	68.8	50.3	59.6	10-16	33	1.8
USG - 74A27	68.4	-	-	10-13	27	1.5
USG - 74B42R	67.7	49.2	58.5	10-11	29	1.8
DOEBLERS RPM - DB4512RR	67.5	44.2	55.9	10-09	26	2.0
HISOY - HS42A12	67.4	48.3	57.9	10-09	26	2.0
USG - 74A33R	66.7	-	-	10-11	27	1.5
USG - 74F12R	66.5	50.5	58.5	10-09	29	2.7
HISOY - HS45A14	66.4	53.9	60.2	10-11	30	1.5
S.STATES - SS4312NR2	66.3	50.7	58.5	10-11	26	2.0



Table 8. (Continued) Quantico - Full Season

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP 4 (Continued)</b>						
HISOY - HS44T14	65.9	-	-	10-08	29	1.5
DYNA-GRO - 31RY45	62.9	-	-	10-11	29	1.8
MID ATL - MA4399nRR/STS	62.8	53.2	58.0	10-09	28	2.2
DYNA-GRO - S44RS93	55.8	48.5	52.2	10-10	25	1.7
DYNA-GRO - 39RY43	53.0	54.0	53.5	10-11	27	1.8
<b>Mean</b>	<b>67.1</b>	<b>50.0</b>	<b>58.6</b>	-	<b>28</b>	<b>1.8</b>
<b>LSD 0.20</b>	<b>5.2</b>	<b>ns</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.3</b>	<b>9.0</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
BAYER HBK - RY4620	58.6	55.4	57.0	10-10	29	1.5
HUBNER - H48-13R2STS	58.1	-	-	10-19	36	2.2
S.STATES - SS4913NR2	57.1	-	-	10-15	31	2.3
HISOY - HS49T14	56.3	-	-	10-19	31	1.5
DYNA-GRO - SX13346R	56.2	-	-	10-11	29	1.3
DYNA-GRO - S48RS53	56.1	60.9	58.5	10-19	35	2.2
DYNA-GRO - 37RY47	55.7	62.4	59.1	10-12	28	1.5
USG - 74A79R	55.7	66.0	60.9	10-12	29	1.7
HISOY - HS47T12	55.1	58.6	56.9	10-18	34	1.7
MYCOGEN - 5N478R2	54.9	-	-	10-14	32	2.5
MID ATL - MA4802nRR/STS	54.8	-	-	10-19	31	2.2
USG - 7495nRS	53.7	58.4	56.1	10-17	33	2.8
S.STATES - SS4917NR2	53.0	61.9	57.5	10-14	29	1.3
USG - 74A69R	52.9	67.1	60.0	10-14	29	1.5
BAYER HBK - RY4721	52.5	56.8	54.7	10-13	32	2.0
S.STATES - SS4700R2-STS	51.4	62.0	56.7	10-18	30	1.7
USG - 74E88	49.7	57.6	53.7	10-11	30	2.3
<b>Mean</b>	<b>54.8</b>	<b>60.8</b>	<b>57.8</b>	-	<b>31</b>	<b>1.9</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>ns</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.9</b>	<b>8.5</b>	-	-	-	-
<b>MATURITY GROUP 5</b>						
DOEBLERS RPM - DB5711RR	50.0	-	-	10-26	29	1.7
DOEBLERS RPM - DB5213RR	42.4	-	-	10-18	27	1.7
BAYER HBK - RY5421	37.9	59.1	48.5	10-22	27	2.5
BAYER HBK - RY5221	34.5	57.7	46.1	10-25	36	3.0
<b>Mean</b>	<b>41.2</b>	<b>57.2</b>	<b>49.2</b>	-	<b>30</b>	<b>2.2</b>
<b>LSD 0.20</b>	<b>3.7</b>	<b>3.2</b>	-	-	<b>1</b>	<b>0.5</b>
<b>CV, %</b>	<b>7.6</b>	<b>5.0</b>	-	-	-	-

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

Table 9. Performance of soybean varieties double cropped at Quantico.

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP 3</b>					
HISOY - HS38A02	64.8	39.0	51.9	10-17	25	1.8
TA SEEDS - TS3849R2S	64.1	-	-	10-20	27	1.2
S.STATES - SS3813NR2	63.4	-	-	10-17	26	1.3
S.STATES - SS3801NR2	62.6	-	-	10-14	27	1.0
HUBNER - H34-11R2	62.2	-	-	10-11	25	1.2
MID ATL - MA3933nRR2/STS	61.4	46.0	53.7	10-22	27	1.8
MYCOGEN - 5N385R2	61.4	-	-	10-21	26	1.8
MID ATL - MA3889nRR2	61.2	-	-	10-23	26	1.2
DYNA-GRO - S39RY33	59.1	42.1	50.6	10-18	27	2.0
MID ATL - MA3689nRR	59.0	-	-	10-17	25	1.7
MID ATL - MA3802nRR2	58.5	38.6	48.6	10-18	26	1.5
MID ATL - MA3511RR2	58.3	40.2	49.3	10-16	27	1.3
DYNA-GRO - S38RY84	57.6	-	-	10-15	23	1.2
HISOY - HS39A22	56.4	-	-	10-19	25	1.3
HISOY - HS39A14	56.2	39.2	47.7	10-14	25	1.5
DOEBLERS RPM - DB3312RR	55.9	35.0	45.5	10-15	27	1.5
DOEBLERS RPM - DB3513RR	53.9	-	-	10-15	24	1.0
HUBNER - H37-14R2STS	53.7	-	-	10-18	27	1.7
DOEBLERS RPM - DB3813RR	52.7	-	-	10-17	24	1.0
USG - 73P93R	44.6	-	-	10-20	23	1.5
<b>Mean</b>	<b>58.4</b>	<b>39.1</b>	<b>48.8</b>	-	<b>26</b>	<b>1.4</b>
<b>LSD 0.20</b>	<b>5.3</b>	<b>5.1</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>8.5</b>	<b>12.3</b>	-	-	-	-
<b>MATURITY GROUP 4</b>						
HISOY - HS45A14	68.3	47.8	58.1	10-24	32	1.7
HISOY - HS42A12	66.7	41.6	54.2	10-21	25	1.5
HUBNER - H44-14R2STS	64.1	-	-	10-26	26	1.3
HUBNER - H42-13R2	63.8	-	-	10-22	23	1.3
S.STATES - SS4312NR2	63.6	41.1	52.4	10-25	24	1.5
MID ATL - MA4399nRR/STS	63.2	48.6	55.9	10-24	25	1.7
USG - 74D32R	62.2	55.7	59.0	10-20	27	1.5
DYNA-GRO - 39RY43	62.0	43.5	52.8	10-24	24	1.3
USG - 74F12R	61.8	46.2	54.0	10-20	31	1.8
MYCOGEN - 5N431R2	61.7	-	-	10-23	25	1.5
HISOY - HS44T14	61.5	-	-	10-22	31	1.5
USG - 74A33R	61.4	-	-	10-23	26	1.0
DYNA-GRO - 31RY45	61.1	-	-	10-22	27	1.2
DOEBLERS RPM - DB4013RR	60.6	-	-	10-22	27	1.2
S.STATES - SS4510NR2	60.4	46.8	53.6	10-24	28	1.7
DOEBLERS RPM - DB4512RR	59.5	46.7	53.1	10-25	29	1.2
S.STATES - SS4412NR2	59.2	35.7	47.5	10-26	25	1.0
USG - 74B58	59.0	47.5	53.3	10-22	23	1.2

Table 9. (Continued) Quantico - Double Cropped

Brand - Entry	Seed Yield, Bu/A			2013		
	2013	2012	2-Year	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP 4 (Continued)</b>						
MID ATL - MA4504nRR/STS	58.8	45.0	51.9	10-26	33	1.7
HUBNER - H40-13R2	58.5	-	-	10-21	25	1.5
USG - 74B42R	57.8	44.5	51.2	10-23	26	1.0
DYNA-GRO - S44RS93	54.0	37.9	46.0	10-26	23	1.7
USG - 74A27	52.2	-	-	10-26	29	1.0
<b>Mean</b>	<b>60.9</b>	<b>45.1</b>	<b>53.0</b>	-	<b>27</b>	<b>1.4</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>4.6</b>	-	-	<b>3</b>	<b>0.3</b>
<b>CV, %</b>	<b>9.1</b>	<b>9.5</b>	-	-	-	-
<b>MATURITY GROUP 4s</b>						
DYNA-GRO - S48RS53	72.9	51.2	62.1	10-26	33	1.5
S.STATES - SS4700R2-STS	69.9	48.8	59.4	10-26	31	1.7
HUBNER - H48-13R2STS	68.0	-	-	10-28	33	1.8
BAYER HBK - RY4620	67.1	48.6	57.9	10-26	31	1.5
USG - 74A79R	66.3	57.5	61.9	10-26	31	1.3
DYNA-GRO - 37RY47	65.6	45.5	55.6	10-25	29	1.7
HISOY - HS47T12	65.0	45.7	55.4	10-28	33	1.7
MID ATL - MA4802nRR/STS	63.7	-	-	10-28	31	1.8
S.STATES - SS4913NR2	63.2	-	-	10-27	33	1.7
DYNA-GRO - SX13346R	63.2	-	-	10-23	30	1.3
MYCOGEN - 5N478R2	63.0	-	-	10-24	35	1.7
HISOY - HS49T14	62.6	-	-	10-26	31	1.7
USG - 7495nRS	62.4	48.5	55.5	10-28	30	2.2
USG - 74A69R	61.9	52.3	57.1	10-26	30	1.3
S.STATES - SS4917NR2	59.9	43.0	51.5	10-28	31	1.5
BAYER HBK - RY4721	59.5	43.7	51.6	10-24	33	1.7
USG - 74E88	57.1	49.0	53.1	10-27	31	1.5
<b>Mean</b>	<b>64.2</b>	<b>48.8</b>	<b>56.5</b>	-	<b>31</b>	<b>1.6</b>
<b>LSD 0.20</b>	<b>5.0</b>	<b>5.0</b>	-	-	<b>2</b>	<b>0.3</b>
<b>CV, %</b>	<b>7.3</b>	<b>9.5</b>	-	-	-	-
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5221	71.1	43.7	57.4	10-31	34	2.0
DOEBLERS RPM - DB5213RR	70.9	-	-	11-01	29	1.3
DOEBLERS RPM - DB5711RR	57.6	-	-	11-06	35	3.2
BAYER HBK - RY5421	57.5	45.7	51.6	11-01	24	2.5
<b>Mean</b>	<b>64.3</b>	<b>43.8</b>	<b>54.1</b>	-	<b>31</b>	<b>2.2</b>
<b>LSD 0.20</b>	<b>8.5</b>	<b>4.5</b>	-	-	<b>4</b>	<b>0.6</b>
<b>CV, %</b>	<b>11.3</b>	<b>9.0</b>	-	-	-	-

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

Table 10. Relative yields of soybean varieties compared to the mean of all varieties in that maturity group at each location in 2013.

Brand - Entry	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
<b>MATURITY GROUP 3</b>						
DYNA-GRO - S38RY84	101	102	96	106*	108*	99
DYNA-GRO - S39RY33	99	95	91	100	107*	101
HISOY - HS38A02	104*	111*	98	101	99	111*
HISOY - HS39A14	100	86	94	106*	89	96
HISOY - HS39A22	107*	113*	106*	98	98	97
HUBNER - H34-11R2	104*	102	107*	97	96	107*
HUBNER - H37-14R2STS	98	105	105*	107*	97	92
MID ATL - MA3511RR2	102*	95	101	103*	104	100
MID ATL - MA3689nRR	103*	104	102*	111*	103	101
MID ATL - MA3802nRR2	104*	92	94	85	99	100
MID ATL - MA3889nRR2	96	104	103*	93	100	105*
MID ATL - MA3933nRR2/STS	91	88	91	96	100	105*
MYCOGEN - 5N385R2	102*	108*	93	104*	93	105*
DOEBLERS RPM - DB3312RR	99	99	98	100	89	96
DOEBLERS RPM - DB3513RR	101	96	94	92	101	92
DOEBLERS RPM - DB3813RR	100	94	98	84	90	90
S.STATES - SS3801NR2	101	99	109*	101	106	107*
S.STATES - SS3813NR2	99	101	107*	101	97	109*
TA SEEDS - TS3849R2S	91	91	104*	107*	112*	110*
USG - 73P93R	99	112*	110*	109*	114*	76
<b>Location/Group Mean Yield</b>	<b>65.3</b>	<b>56.5</b>	<b>60.2</b>	<b>47.5</b>	<b>50.2</b>	<b>58.4</b>
<b>MATURITY GROUP 4</b>						
DYNA-GRO - 39RY43	99	111*	97	109*	79	102
DYNA-GRO - S44RS93	93	93	89	104*	83	89
DYNA-GRO - 31RY45	99	95	97	104*	94	100
HISOY - HS42A12	107*	103	105*	95	100	110
HISOY - HS44T14	101	101	110*	106*	98	101
HISOY - HS45A14	96	100	92	98	99	112*
HUBNER - H40-13R2	105	107*	108*	99	104	96
HUBNER - H42-13R2	107*	106*	111*	92	104	105
HUBNER - H44-14R2STS	99	101	105*	100	106*	105
MID ATL - MA4399nRR/STS	89	92	89	107*	94	104
MID ATL - MA4504nRR/STS	89	97	88	93	103	97
MYCOGEN - 5N431R2	107*	94	106*	104*	105*	101
DOEBLERS RPM - DB4013RR	98	100	100	89	106*	100
DOEBLERS RPM - DB4512RR	107*	100	102	98	101	98
S.STATES - SS4312NR2	112*	109*	105*	101*	99	104
S.STATES - SS4412NR2	97	101	102	106*	104	97
S.STATES - SS4510NR2	95	101	103	95	106*	99
USG - 74A27	100	99	105*	97	102	86
USG - 74A33R	99	100	99	104*	99	101
USG - 74B42R	103	94	96	100	101	95

Table 10. (Continued) Relative Yields

Brand - Entry	Keedys- ville	Clarks- ville	Queenstown		Quantico	
			FS	DC	FS	DC
<b>MATURITY GROUP 4 (Continued)</b>						
USG - 74B58	102	108*	103	97	112*	97
USG - 74D32R	95	93	91	106*	104	102
USG - 74F12R	100	93	97	98	99	101
<b>Location/Group Mean Yield</b>	<b>64.6</b>	<b>60.8</b>	<b>59.7</b>	<b>52.9</b>	<b>67.1</b>	<b>60.9ns</b>
<b>MATURITY GROUP 4s</b>						
DYNA-GRO - SX13346R	106*	98	105	105*	103	98
DYNA-GRO - 37RY47	109*	87	95	99	102	102
DYNA-GRO - S48RS53	101	108	99	104*	102	114*
BAYER HBK - RY4620	104*	99	94	109*	107*	105
BAYER HBK - RY4721	102	95	104	91	96	93
HISOY - HS47T12	92	97	97	102*	101	101
HISOY - HS49T14	104*	125*	105	100	103	98
HUBNER - H48-13R2STS	101	103	108*	109*	106	106*
MID ATL - MA4802nRR/STS	104*	94	100	103*	100	99
MYCOGEN - 5N478R2	108*	103	100	96	100	98
S.STATES - SS4700R2-STS	103	92	96	95	94	109*
S.STATES - SS4913NR2	100	105	94	97	104	98
S.STATES - SS4917NR2	89	104	100	95	97	93
USG - 74A69R	100	106	101	102	97	96
USG - 74A79R	97	95	99	103*	102	103
USG - 74E88	87	85	106	90	91	89
USG - 7495nRS	92	105	97	100	98	97
<b>Location/Group Mean Yield</b>	<b>60.9</b>	<b>52.2</b>	<b>57.1ns</b>	<b>51.4</b>	<b>54.8ns</b>	<b>64.2</b>
<b>MATURITY GROUP 5</b>						
BAYER HBK - RY5221	-	-	100	114*	84	111*
BAYER HBK - RY5421	-	-	95	107*	92	89
DOEBLERS RPM - DB5213RR	-	-	106*	95	103	110*
DOEBLERS RPM - DB5711RR	-	-	100	84	121*	90
<b>Location/Group Mean Yield</b>	<b>-</b>	<b>-</b>	<b>46.5ns</b>	<b>40.8</b>	<b>41.2</b>	<b>64.3</b>

FS=Full Season, DC=Double Crop

ns=no significant yield differences among entries in this maturity 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.