



Information

DEPARTMENT OF PLANT SCIENCE & LANDSCAPE ARCHITECTURE
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2011 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 2011 test included Roundup Ready, Liberty Link, 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 releases from Arkansas (Osage), Iowa (IA 3024, IA 4005), Illinois (LD 00-3309, LD 00-2817P), Maryland (Md 99-6226, Md 00-5326, Md 00-6015, Md 01-5866, Md 03-5453, Md 03-6420, Md 05-5276, Md 05-5468, Md 05-5585, Md 05-6207, Md 0506WN 16, Md 06-5356, Md 06-5401, Md 06-5617, Md 06-5700, Md 06-6182, Md 0607WN 38, Md 0607WN 51, Md 07-5100, Md 07-5959, Md 0708WN 50, Md 0708WN 53, Md 0708WN 55, Md 0708WN 60, Md 0708WN 120, Md 0708WN 157, Md 0708WN 215, Md 0708WN 225, Md 08-5294, Md 08-5424, Md 08-5572, Md 08-5842, Md 0809WN 26, Md 0809WN 69, Md 0809WN 77, Md 0809WN 83, Md 0809WN 100, Md 09-6015), and Virginia (Glenn, Hanover) were included in the 2011 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 2011 growing season was generally dry in most areas of the state from late May through July. Although planting was completed in a timely manner, dry soil conditions resulted in poor seedling emergence in the conventionally tilled, non-Roundup Ready tests at Quantico and Queenstown. Rainfall was above average in August and September as a result of hurricane Irene and the remnants of tropical storm Lee. These rains were very timely and contributed to significant yield improvement in the crop especially for double-cropped soybeans. Monthly rainfall amounts for May through October for the test locations are shown in Table 3.

Results of the 2011 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 Quantico 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. 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 2010 tests are shown in the data tables. The 2010 location average yield for each maturity group and the 2010 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.

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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 2011.

| Company | Brand | Herbicide Reaction* | Entry |
|---|--------------|--|---|
| Doebler's PA Hybrids Jersey Shore, PA 17740 | RPM | RR RR/STS | DB3509RR, DB3809RR, DB4510RR DB5511RS |
| Dyna-Gro/Crop Production Services East Aurora, NY 14052 | DynaGro | RR RR2Y LL | V39N9RR, 35X43, 39D48 36RY38, 37RY39, 39RY43, 37RY47 38LL42, 32LL48, 33LL49 |
| Growmark FS Milford, DE 19963 | HiSoy | RR RR2Y RR/STS | HS47R90, HS476 HS38A02, HS39A03, HS41A02 HS42T80 |
| Hubner Seed West Lebanon, IN 47991 | Hubner Seed | RR2Y RR/STS RR2Y/STS | H36-12R2, H39-12R2, H52-12R2, H53-12R2 H418NRR/STS H46-01R2/STS |
| Mid Atlantic Seeds, Inc. York, PA 17402 | Mid Atlantic | RR RR RR2Y RR/STS | MAS3599RR, MAS3781NRR, MAS3802NRR MAS3955RR, MAS4666NRR, MAS4605NRR MAS3511RRII, MAS3701NRRII, MAS4504NRRII MAS4077NRR/STS, MAS4399RR/STS |
| Southern States Cooperative, Inc. Richmond, VA 23260 | S.States | RR RR2Y RR2Y RR2Y RR/STS LL | RT3971N,RT4370N,RT4808N,RT4996N,RT5160N SS3911NR2, SS3811NR2, SS3910NR2 SS4510NR2, SS4700R2, SS4711NR2 EXP3712NR2, EXP4312NR2 RT4470N/STS LL396N, LL430N, LL450N, LL491N, LL499N |
| T.A. Seeds Avis, PA 17721 | TA Seeds | RR2Y RR/STS LL | TS3829R2, TS4129R2, TS5029R2 TS3989RS, TS4299RS TS3929L, TS4229L,TS5129L |
| Unisouth Genetics, Inc. Dickson, TN 37055 | USG | RR RR RR2Y | 73H77, 74K11R, 74K01R, 74B58, 74H81, 74E88 74F96, 75T18, 75M16, 74D41R 74A79R,74A69R,74B81R |

*RR and RR2Y= Roundup Ready and Roundup Ready 2, respectively
LL= Liberty Link
STS= Sulfonylurea tolerant

Table 2. The 2011 soybean variety test plot information.

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

Tests: Roundup Ready Varieties Maturity Groups 3, 4, 4s
Planting Date: June 6
Row Spacing: 24 inches
Soil Type: Hagerstown silt loam
Soil Test: pH 6.4, P 38 (M), K 146 (G)
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: 1 Qt/A Roundup (July 15)
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 3
Row Spacing: 24 inches
Soil Type: Delanco silt loam
Soil Test: pH 6.6, P 70, K 220
Previous Crop: Corn
Fertilizer: 200 lbs/A 7-18-36
Lime: None
Herbicide: Preemerge: 6 Oz/A Canopy XL, 16 Oz/A Outlook (June 3)
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 3
Row Spacing: 24 inches
Soil Type: Delanco silt loam
Soil Test: pH 6.6, P 70, K 220
Previous Crop: Corn
Fertilizer: 200 lbs/A 7-18-36
Lime: None
Herbicide: 32 Oz/A Roundup Power Max (July 14)
Plots: 4 rows, 20 feet long
Seeding Rate: 6.5 seeds/foot
Tillage: Conventional

Table 2. (Continued) Plot Information

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

Tests: Full Season Non-RR Varieties Maturity Groups 3, 4, 4s, 5
Planting Date: May 31
Row Spacing: 24 inches
Soil Type: Matapeake silt loam
Soil Test: pH 6.3, P Index- 95, K Index- 104
Previous Crop: Corn
Fertilizer: None
Lime: None
Herbicide: Preemergence:6.5 Oz/A Authority First + 2 Pt/A Medal II
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 26
Row Spacing: 24 inches
Soil Type: Matapeake silt loam
Soil Test: pH 6.5, P Index- 80, K Index- 77
Previous Crop: Corn
Fertilizer: None added
Lime: None
Herbicide: Post: 1.5 Qt/A Gly Star Plus (July 6)
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: June 23
Row Spacing: 7.5 inches
Soil Type: Matapeake silt loam
Soil Test: pH 5.9, P Index- 51, K Index- 95
Previous Crop: Wheat
Fertilizer: None on soybeans
Lime: None
Herbicide: Post: 1.5 Qt/A Gly Star Plus (July 19)
Plots: 7 rows, 25 feet long
Seeding Rate: 3 seeds/foot
Tillage: None

Table 2. (Continued) Plot Information

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

Tests: Full Season Non-RR Varieties Maturity Groups 3, 4, 4s, 5
Planting Date: May 28
Row Spacing: 24 inches
Soil Type: Mattapex silt loam
Soil Test: pH 6.4, P Index- Very High, K Index- High
Previous Crop: Corn
Fertilizer: 250 lbs/A 10-00-30 + 5% S
Lime: None
Herbicide: Preemerge: 1.3Pt/A Dual II Magnum, 1 lb/A Lorox , 1.5 Oz/A Gramoxone
Post: 20 Oz/A Ultra Blazer+1 Pt/A Basagran+ 2 Oz/A 2,4-DB+ 14 Oz/A 820 Surfactant
Post: 1 Pt/A Storm, 0.7 Oz/A 2,4-DB + 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 27
Row Spacing: 20 inches
Soil Type: Nassawango silt loam
Soil Test: pH 6.5, P Index- Very High, K Index- High
Previous Crop: No Tillage Corn
Fertilizer: 250 lbs/A of 10-00-30 + 5% S
Lime: None
Herbicide: Preemerge:1.5 Pt/A Roundup Power Max, 1 Pt/A Dual II Magnum
Post: 1.5 Pt/A Roundup Weather Max, 1 Pt/A Dual II Magnum,2Oz/A 2,4-DB (June 13)
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: June 21
Row Spacing: 15 inches
Soil Type: Nassawango silt loam
Soil Test: pH 5.8, P Index- Very High, K Index- High
Previous Crop: Barley
Fertilizer: None on soybeans
Lime: 1 Ton/A High Mg
Herbicide: 20 Oz/A Blazer, 1 Pt/A Basagran,2 Oz/A 2,4-DB, 14 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: June 21
 Row Spacing: 15 inches
 Soil Type: Nassawango silt loam
 Soil Test: pH 5.8, P Index- Very High, K Index- High
 Previous Crop: Barley
 Fertilizer: None on soybeans
 Lime: 1 Ton/A High Mg
 Herbicide: 1 Qt/A Roundup Weather Max (July 26)
 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 | 5.05 | 0.91 | 2.86 | 5.70 | 4.04 | 4.45 | 23.01 |
| Clarksville | 2.63 | 1.70 | 6.00 | 5.92 | 7.32 | 4.65 | 28.22 |
| Queenstown | 2.66 | 2.40 | 2.87 | 15.70 | 8.85 | 2.50 | 34.98 |
| Quantico | 1.20 | 2.20 | 2.40 | 9.50 | 4.20 | 2.50 | 22.00 |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|---------------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 3 | | | | | |
| PUBLIC - IA 3024 | 51.2 | 58.8 | 55.0 | 10-13 | 30 | 1.0 |
| MID ATLANTIC - MAS 3511RR2 (RR Check) | 50.4 | - | - | 10-14 | 40 | 1.3 |
| EXPERIMENTAL - Md 0708WN 55 | 48.3 | 52.6 | 50.5 | 10-11 | 32 | 1.3 |
| S.STATES - LL396N | 46.5 | 60.7 | 53.6 | 10-17 | 34 | 1.3 |
| PUBLIC - MACON | 46.5 | 58.9 | 52.7 | 10-22 | 29 | 1.0 |
| TA SEEDS - TS3929L | 44.9 | - | - | 10-20 | 34 | 1.0 |
| EXPERIMENTAL - Md 05-5585 | 38.6 | 52.1 | 45.4 | 10-13 | 31 | 1.3 |
| EXPERIMENTAL - Md 03-5453 | 37.8 | 53.4 | 45.6 | 10-11 | 31 | 3.0 |
| EXPERIMENTAL - Md 09-6015 | 33.1 | - | - | 10-30 | 32 | 1.0 |
| Mean | 44.2 | 55.4 | 49.8 | - | 33 | 1.4 |
| LSD 0.20 | 4.4 | 4.8 | - | - | 4 | 0.7 |
| CV, % | 9.1 | 8.2 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | |
| PUBLIC - IA 4005 | 58.0 | - | - | 10-17 | 29 | 1.0 |
| S.STATES - RT4470N (RR Check) | 56.1 | - | - | 10-25 | 33 | 1.0 |
| PUBLIC - LD 00-3309 | 51.5 | 48.8 | 50.2 | 10-18 | 34 | 1.0 |
| PUBLIC - LD 00-2817P | 50.7 | 51.8 | 51.3 | 10-21 | 32 | 1.0 |
| EXPERIMENTAL - Md 07-5959 | 50.0 | 35.6 | 42.8 | 10-23 | 32 | 1.7 |
| EXPERIMENTAL - Md 0809WN 100 | 49.7 | - | - | 10-10 | 31 | 1.3 |
| TA SEEDS - TS4229L | 49.0 | - | - | 10-22 | 35 | 1.0 |
| EXPERIMENTAL - Md 06-5401 | 48.9 | 47.9 | 48.4 | 10-23 | 34 | 1.0 |
| S.STATES - LL450N | 48.5 | 45.1 | 46.8 | 10-20 | 33 | 1.0 |
| DYNAGRO - 38LL42 | 47.8 | 49.9 | 48.9 | 10-18 | 37 | 1.7 |
| S.STATES - LL430N | 47.7 | 52.3 | 50.0 | 10-23 | 34 | 1.0 |
| EXPERIMENTAL - Md 0708WN 120 | 47.7 | 49.5 | 48.6 | 10-12 | 30 | 1.0 |
| PUBLIC - MONOCACY | 47.6 | 47.9 | 47.8 | 10-24 | 35 | 1.0 |
| EXPERIMENTAL - Md 0809WN 69 | 46.6 | - | - | 10-26 | 32 | 1.0 |
| EXPERIMENTAL - Md 07-5100 | 45.6 | 48.2 | 46.9 | 10-24 | 31 | 1.7 |
| EXPERIMENTAL - Md 06-5617 | 43.7 | - | - | 10-19 | 32 | 1.0 |
| EXPERIMENTAL - Md 06-5700 | 42.0 | 44.2 | 43.1 | 10-20 | 30 | 1.7 |
| EXPERIMENTAL - Md 0809WN 77 | 41.3 | - | - | 10-25 | 34 | 1.3 |
| EXPERIMENTAL - Md 0708WN 215 | 39.4 | - | - | 10-26 | 36 | 1.7 |
| Mean | 48.0 | 46.4 | 47.2 | - | 33 | 1.2 |
| LSD 0.20 | 3.8 | 5.5 | - | - | 2 | ns |
| CV, % | 7.3 | 11.1 | - | - | - | - |

Table 4. (Continued) Clarksville - Non-Roundup Ready Soybean Varieties

| Brand - Entry | Seed Yield, Bu/A | | | Maturity Date | 2011 | |
|------------------------------|------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | | Height, Inches | Lodging Score* |
| | | | | | | |
| MATURITY GROUP 4s | | | | | | |
| USG - 74A69R (RR Check) | 59.9 | - | - | 10-19 | 36 | 1.3 |
| S.STATES - LL499N | 51.3 | 46.1 | 48.7 | 10-25 | 39 | 1.0 |
| S.STATES - LL491N | 51.2 | - | - | 10-23 | 38 | 1.0 |
| EXPERIMENTAL - Md 00-6015 | 50.9 | 51.5 | 51.2 | 10-24 | 30 | 1.0 |
| PUBLIC - HANOVER | 50.1 | 47.3 | 48.7 | 10-30 | 34 | 1.7 |
| EXPERIMENTAL - Md 01-5866 | 49.6 | 45.1 | 47.4 | 10-24 | 31 | 1.0 |
| EXPERIMENTAL - Md 06-5356 | 49.6 | 45.6 | 47.6 | 10-26 | 39 | 1.0 |
| EXPERIMENTAL - Md 08-5842 | 48.9 | - | - | 10-21 | 40 | 5.0 |
| EXPERIMENTAL - Md 00-5326 | 47.4 | 39.3 | 43.4 | 10-25 | 32 | 1.0 |
| EXPERIMENTAL - Md 03-6420 | 47.4 | 40.8 | 44.1 | 10-26 | 40 | 1.3 |
| DYNAGRO - 33LL49 | 47.0 | - | - | 10-29 | 40 | 1.0 |
| PUBLIC - MANOKIN | 46.9 | 42.8 | 44.9 | 10-23 | 33 | 2.3 |
| PUBLIC - KS 4602N | 46.6 | 56.1 | 51.4 | 10-21 | 34 | 1.0 |
| EXPERIMENTAL - Md 0708WN 53 | 45.8 | 45.0 | 45.4 | 10-18 | 35 | 5.0 |
| EXPERIMENTAL - Md 05-6207 | 45.1 | 45.4 | 45.3 | 10-17 | 33 | 1.0 |
| EXPERIMENTAL - Md 0506WN 16 | 44.8 | 41.7 | 43.3 | 10-20 | 35 | 2.0 |
| DYNAGRO - 32LL48 | 43.6 | 39.5 | 41.6 | 10-25 | 36 | 1.0 |
| EXPERIMENTAL - Md 05-5276 | 42.2 | 44.1 | 43.2 | 10-26 | 37 | 1.0 |
| EXPERIMENTAL - Md 0708WN 157 | 42.1 | - | - | 10-29 | 39 | 1.0 |
| EXPERIMENTAL - Md 0708WN 225 | 41.4 | 51.1 | 46.3 | 10-28 | 38 | 2.0 |
| EXPERIMENTAL - Md 0708WN 60 | 38.6 | - | - | 10-21 | 31 | 3.3 |
| Mean | 47.2 | 44.2 | 45.7 | - | 36 | 1.7 |
| LSD 0.20 | 3.0 | 4.8 | - | - | 2 | 0.7 |
| CV, % | 6.0 | 10.2 | - | - | - | - |

*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 | Seed Yield, Bu/A | | | 2011 | | |
|---------------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 3 | | | | | |
| S.STATES - LL396N | 52.9 | 61.6 | 57.3 | 10-09 | 23 | 2.0 |
| TA SEEDS - TS3929L | 45.2 | - | - | 10-09 | 24 | 2.0 |
| EXPERIMENTAL - Md 0708WN 55 | 40.3 | 48.2 | 44.3 | 09-28 | 22 | 2.0 |
| MID ATLANTIC - MAS 3511RR2 (RR Check) | 38.6 | - | - | 10-01 | 29 | 2.0 |
| PUBLIC - MACON | 35.4 | 46.9 | 41.2 | 10-02 | 23 | 2.0 |
| EXPERIMENTAL - Md 09-6015 | 35.2 | - | - | 10-04 | 31 | 2.0 |
| EXPERIMENTAL - Md 05-5585 | 34.2 | 37.3 | 35.8 | 10-02 | 27 | 2.0 |
| EXPERIMENTAL - Md 03-5453 | 32.8 | 47.8 | 40.3 | 09-24 | 21 | 2.0 |
| PUBLIC - IA 3024 | 32.2 | 47.8 | 40.0 | 09-29 | 23 | 2.0 |
| Mean | 38.5 | 47.8 | 43.2 | - | 25 | 2.0 |
| LSD 0.20 | 7.0 | 9.0 | | - | 3 | ns |
| CV, % | 16.6 | 17.6 | | - | - | - |
| MATURITY GROUP 4 | | | | | | |
| PUBLIC - LD 00-2817P | 59.8 | 52.1 | 56.0 | 10-11 | 33 | 4.0 |
| S.STATES - LL430N | 56.0 | 59.4 | 57.7 | 10-10 | 39 | 4.0 |
| TA SEEDS - TS4229L | 53.8 | - | - | 10-10 | 32 | 3.7 |
| EXPERIMENTAL - Md 0708WN 120 | 52.6 | 55.8 | 54.2 | 10-08 | 27 | 2.3 |
| DYNAGRO - 38LL42 | 51.2 | 57.7 | 54.5 | 10-06 | 34 | 3.3 |
| PUBLIC - LD 00-3309 | 51.1 | 62.8 | 57.0 | 10-04 | 30 | 3.0 |
| S.STATES - RT4470N (RR Check) | 50.4 | - | - | 10-11 | 30 | 2.3 |
| S.STATES - LL450N | 49.6 | 53.4 | 51.5 | 10-10 | 34 | 3.7 |
| PUBLIC - IA 4005 | 48.0 | - | - | 10-07 | 25 | 2.0 |
| EXPERIMENTAL - Md 06-5401 | 45.7 | 55.9 | 50.8 | 10-10 | 35 | 3.0 |
| EXPERIMENTAL - Md 0809WN 100 | 43.1 | - | - | 10-05 | 26 | 2.0 |
| EXPERIMENTAL - Md 06-5617 | 41.5 | - | - | 10-10 | 32 | 3.0 |
| EXPERIMENTAL - Md 07-5100 | 41.3 | 53.8 | 47.6 | 10-11 | 30 | 2.7 |
| EXPERIMENTAL - Md 0809WN 69 | 41.1 | - | - | 10-12 | 33 | 2.3 |
| PUBLIC - MONOCACY | 40.7 | 55.7 | 48.2 | 10-09 | 34 | 3.0 |
| EXPERIMENTAL - Md 0809WN 77 | 39.5 | - | - | 10-11 | 36 | 3.0 |
| EXPERIMENTAL - Md 06-5700 | 39.4 | 49.3 | 44.4 | 10-06 | 30 | 4.7 |
| EXPERIMENTAL - Md 0708WN 215 | 35.9 | - | - | 10-13 | 39 | 2.7 |
| EXPERIMENTAL - Md 07-5959 | 35.5 | 53.4 | 44.5 | 10-11 | 31 | 3.0 |
| Mean | 46.1 | 52.7 | 49.4 | - | 32 | 3.0 |
| LSD 0.20 | 6.2 | 5.9 | | - | 4 | 1.0 |
| CV, % | 12.7 | 10.6 | | - | - | - |
| MATURITY GROUP 4s | | | | | | |
| USG - 74A69R (RR Check) | 58.3 | - | - | 10-16 | 37 | 2.7 |
| EXPERIMENTAL - Md 01-5866 | 53.4 | 53.6 | 53.5 | 10-13 | 26 | 1.3 |
| EXPERIMENTAL - Md 00-5326 | 51.4 | 47.4 | 49.4 | 10-16 | 37 | 1.7 |
| PUBLIC - KS 4602N | 50.9 | 53.4 | 52.2 | 10-10 | 38 | 3.7 |
| PUBLIC - HANOVER | 49.8 | 55.9 | 52.9 | 10-21 | 29 | 2.7 |
| S.STATES - LL491N | 49.5 | - | - | 10-16 | 39 | 1.3 |
| EXPERIMENTAL - Md 05-5276 | 49.2 | 53.4 | 51.3 | 10-12 | 38 | 3.7 |
| EXPERIMENTAL - Md 06-5356 | 49.2 | 42.5 | 45.9 | 10-21 | 41 | 2.3 |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|------------------------------|--------------------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 4s - Continued | | | | | |
| S.STATES - LL499N | 49.0 | 45.8 | 47.4 | 10-17 | 40 | 1.0 |
| PUBLIC - MANOKIN | 48.3 | 45.8 | 47.1 | 10-13 | 36 | 4.7 |
| EXPERIMENTAL - Md 03-6420 | 48.0 | 40.9 | 44.5 | 10-16 | 38 | 3.3 |
| EXPERIMENTAL - Md 05-6207 | 47.9 | 57.3 | 52.6 | 10-11 | 33 | 2.0 |
| DYNAGRO - 33LL49 | 47.8 | - | - | 10-20 | 37 | 1.7 |
| DYNAGRO - 32LL48 | 46.9 | 46.5 | 46.7 | 10-12 | 39 | 1.7 |
| EXPERIMENTAL - Md 0708WN 225 | 46.4 | 38.2 | 42.3 | 10-17 | 42 | 3.3 |
| EXPERIMENTAL - Md 0708WN 157 | 46.2 | - | - | 10-21 | 39 | 2.3 |
| EXPERIMENTAL - Md 0708WN 53 | 44.8 | 42.9 | 43.9 | 10-13 | 34 | 5.0 |
| EXPERIMENTAL - Md 0708WN 60 | 42.4 | - | - | 10-12 | 35 | 3.3 |
| EXPERIMENTAL - Md 00-6015 | 42.3 | 48.8 | 45.6 | 10-13 | 27 | 1.3 |
| EXPERIMENTAL - Md 0506WN 16 | 40.8 | 38.9 | 39.9 | 10-11 | 38 | 2.3 |
| EXPERIMENTAL - Md 08-5842 | 36.0 | - | - | 10-19 | 39 | 5.0 |
| Mean | 47.5 | 45.7 | 46.6 | - | 36 | 2.7 |
| LSD 0.20 | 5.5 | 8.0 | - | - | 3 | 0.7 |
| CV, % | 10.8 | 16.6 | - | - | - | - |
| MATURITY GROUP 5 | | | | | | |
| PUBLIC - 5002T | 49.2 | 28.5 | 38.9 | 10-16 | 27 | 1.7 |
| PUBLIC - OSAGE | 48.3 | 30.6 | 39.5 | 10-21 | 30 | 2.0 |
| EXPERIMENTAL - Md 99-6226 | 45.8 | 31.4 | 38.6 | 10-15 | 28 | 1.7 |
| PUBLIC - GLENN | 45.0 | 25.4 | 35.2 | 10-19 | 29 | 2.7 |
| EXPERIMENTAL - Md 0708WN 50 | 43.7 | 24.3 | 34.0 | 10-17 | 39 | 2.7 |
| TA SEEDS - TS5129L | 43.5 | - | - | 10-21 | 32 | 2.3 |
| EXPERIMENTAL - Md 0809WN 26 | 43.1 | - | - | 10-16 | 38 | 2.3 |
| EXPERIMENTAL - Md 0607WN 38 | 42.1 | 28.0 | 35.1 | 10-14 | 32 | 2.7 |
| EXPERIMENTAL - Md 05-5468 | 41.5 | 22.1 | 31.8 | 10-19 | 29 | 1.7 |
| PUBLIC - HUTCHESON | 40.7 | 27.5 | 34.1 | 10-21 | 32 | 3.0 |
| EXPERIMENTAL - Md 06-6182 | 40.2 | 26.1 | 33.2 | 10-14 | 31 | 2.7 |
| EXPERIMENTAL - Md 0607WN 51 | 39.5 | 28.4 | 34.0 | 10-14 | 32 | 3.0 |
| EXPERIMENTAL - Md 08-5572 | 39.5 | - | - | 10-16 | 38 | 3.0 |
| PUBLIC - ESSEX | 39.2 | 25.1 | 32.2 | 10-15 | 23 | 2.3 |
| USG - 75T18 (RR Check) | 38.4 | - | - | 10-16 | 30 | 3.0 |
| EXPERIMENTAL - Md 08-5424 | 37.2 | - | - | 10-14 | 25 | 2.7 |
| EXPERIMENTAL - Md 08-5294 | 35.1 | - | - | 10-16 | 39 | 4.7 |
| EXPERIMENTAL - Md 0809WN 83 | 32.2 | - | - | 10-20 | 39 | 3.0 |
| Mean | 41.3 | 26.4 | 33.9 | - | 32 | 2.6 |
| LSD 0.20 | 5.3 | 4.2 | - | - | 4 | 0.7 |
| CV, % | 12.1 | 14.8 | - | - | - | - |

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

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | | |
|---------------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* | |
| | MATURITY GROUP 3 | | | | | | |
| TA SEEDS - TS3929L | 49.3 | - | - | 10-13 | 30 | 2.7 | |
| S.STATES - LL396N | 45.2 | 47.8 | 46.5 | 10-12 | 29 | 2.3 | |
| EXPERIMENTAL - Md 03-5453 | 44.9 | 41.1 | 43.0 | 09-24 | 27 | 2.0 | |
| EXPERIMENTAL - Md 0708WN 55 | 44.4 | 38.9 | 41.7 | 09-24 | 23 | 1.7 | |
| MID ATLANTIC - MAS 3511RR2 (RR Check) | 43.0 | - | - | 10-09 | 31 | 1.7 | |
| EXPERIMENTAL - Md 09-6015 | 40.1 | - | - | 10-09 | 33 | 2.7 | |
| EXPERIMENTAL - Md 05-5585 | 40.1 | 44.2 | 42.2 | 10-01 | 31 | 2.7 | |
| PUBLIC - MACON | 38.2 | 42.0 | 40.1 | 09-29 | 26 | 1.7 | |
| PUBLIC - IA 3024 | 33.5 | 36.5 | 35.0 | 09-26 | 28 | 2.0 | |
| | Mean | 42.1 | 42.4 | 42.3 | - | 29 | 2.1 |
| | LSD 0.20 | ns | 5.8 | - | - | 3 | ns |
| | CV, % | 17.6 | 12.9 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | | |
| PUBLIC - LD 00-3309 | 60.8 | 45.6 | 53.2 | 09-29 | 27 | 1.7 | |
| S.STATES - LL430N | 58.7 | 51.4 | 55.1 | 10-11 | 31 | 2.3 | |
| PUBLIC - LD 00-2817P | 53.9 | 45.6 | 49.8 | 10-07 | 30 | 1.7 | |
| EXPERIMENTAL - Md 0708WN 120 | 53.4 | 60.0 | 56.7 | 10-01 | 31 | 1.7 | |
| EXPERIMENTAL - Md 06-5617 | 51.9 | - | - | 10-05 | 30 | 2.3 | |
| PUBLIC - MONOCACY | 49.8 | 46.5 | 48.2 | 10-06 | 30 | 2.0 | |
| TA SEEDS - TS4229L | 49.1 | - | - | 10-13 | 35 | 2.3 | |
| EXPERIMENTAL - Md 0809WN 69 | 48.4 | - | - | 10-11 | 33 | 3.0 | |
| DYNAGRO - 38LL42 | 47.8 | 54.2 | 51.0 | 10-05 | 31 | 2.3 | |
| EXPERIMENTAL - Md 0809WN 100 | 47.0 | - | - | 09-29 | 29 | 2.3 | |
| S.STATES - RT4470N (RR Check) | 46.4 | - | - | 10-09 | 26 | 1.3 | |
| EXPERIMENTAL - Md 07-5100 | 46.1 | 41.1 | 43.6 | 10-11 | 27 | 2.3 | |
| S.STATES - LL450N | 44.6 | 50.5 | 47.6 | 10-07 | 35 | 2.0 | |
| EXPERIMENTAL - Md 07-5959 | 43.3 | 40.9 | 42.1 | 10-05 | 29 | 3.7 | |
| EXPERIMENTAL - Md 06-5401 | 43.0 | 46.6 | 44.8 | 10-07 | 31 | 2.0 | |
| EXPERIMENTAL - Md 0708WN 215 | 41.8 | - | - | 10-13 | 34 | 2.0 | |
| EXPERIMENTAL - Md 0809WN 77 | 40.4 | - | - | 10-05 | 29 | 2.3 | |
| EXPERIMENTAL - Md 06-5700 | 36.5 | 45.8 | 41.2 | 09-30 | 30 | 4.7 | |
| PUBLIC - IA 4005 | 35.8 | - | - | 10-01 | 27 | 1.0 | |
| | Mean | 47.3 | 47.6 | 47.5 | - | 30 | 2.3 |
| | LSD 0.20 | 8.6 | 4.7 | - | - | 3 | 0.9 |
| | CV, % | 17.1 | 9.3 | - | - | - | - |
| MATURITY GROUP 4s | | | | | | | |
| USG - 74A69R (RR Check) | 58.3 | - | - | 10-17 | 29 | 2.2 | |
| S.STATES - LL499N | 56.1 | 44.8 | 50.5 | 10-14 | 35 | 1.5 | |
| EXPERIMENTAL - Md 00-6015 | 55.8 | 45.4 | 50.6 | 10-14 | 20 | 1.7 | |
| PUBLIC - HANOVER | 55.8 | 36.5 | 46.2 | 10-17 | 28 | 2.2 | |
| PUBLIC - MANOKIN | 54.9 | 39.4 | 47.2 | 10-13 | 30 | 3.8 | |
| EXPERIMENTAL - Md 0708WN 157 | 54.5 | - | - | 10-15 | 36 | 3.3 | |
| EXPERIMENTAL - Md 01-5866 | 52.7 | 45.2 | 49.0 | 10-14 | 26 | 1.0 | |
| S.STATES - LL491N | 51.9 | - | - | 10-13 | 33 | 1.8 | |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|------------------------------|--------------------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 4s - Continued | | | | | |
| EXPERIMENTAL - Md 03-6420 | 50.9 | 44.1 | 47.5 | 10-12 | 35 | 3.0 |
| DYNAGRO - 33LL49 | 50.7 | - | - | 10-16 | 33 | 2.2 |
| EXPERIMENTAL - Md 0708WN 53 | 50.1 | 41.3 | 45.7 | 10-13 | 34 | 3.7 |
| DYNAGRO - 32LL48 | 50.0 | 46.7 | 48.4 | 10-14 | 32 | 2.0 |
| EXPERIMENTAL - Md 05-6207 | 49.6 | 48.9 | 49.3 | 10-09 | 31 | 2.3 |
| EXPERIMENTAL - Md 00-5326 | 48.1 | 40.4 | 44.3 | 10-16 | 35 | 3.0 |
| EXPERIMENTAL - Md 0708WN 60 | 47.7 | - | - | 10-12 | 32 | 3.7 |
| EXPERIMENTAL - Md 05-5276 | 47.4 | 43.8 | 45.6 | 10-10 | 39 | 3.3 |
| EXPERIMENTAL - Md 08-5842 | 47.2 | - | - | 10-11 | 36 | 3.7 |
| EXPERIMENTAL - Md 06-5356 | 46.7 | 34.8 | 40.8 | 10-14 | 37 | 2.3 |
| PUBLIC - KS 4602N | 46.6 | 44.9 | 45.8 | 10-08 | 33 | 2.0 |
| EXPERIMENTAL - Md 0708WN 225 | 42.7 | 39.0 | 40.9 | 10-14 | 36 | 3.2 |
| EXPERIMENTAL - Md 0506WN 16 | 40.1 | 39.2 | 39.7 | 10-10 | 32 | 1.7 |
| Mean | 50.4 | 41.2 | 45.8 | - | 32 | 2.5 |
| LSD 0.20 | 6.2 | 4.4 | - | - | 3 | 0.7 |
| CV, % | 11.7 | 10.0 | - | - | - | - |
| MATURITY GROUP 5 | | | | | | |
| PUBLIC - OSAGE | 56.2 | 41.6 | 48.9 | 10-21 | 25 | 2.0 |
| PUBLIC - GLENN | 54.5 | 59.4 | 57.0 | 10-21 | 24 | 3.0 |
| TA SEEDS - TS5129L | 54.4 | - | - | 10-22 | 32 | 2.0 |
| PUBLIC - 5002T | 52.1 | 56.3 | 54.2 | 10-16 | 24 | 2.7 |
| EXPERIMENTAL - Md 99-6226 | 51.9 | 50.8 | 51.4 | 10-19 | 25 | 1.7 |
| USG - 75T18 (RR Check) | 51.5 | - | - | 10-19 | 33 | 4.0 |
| PUBLIC - HUTCHESON | 50.6 | 38.1 | 44.4 | 10-20 | 29 | 2.3 |
| EXPERIMENTAL - Md 0809WN 83 | 48.9 | - | - | 10-25 | 34 | 2.3 |
| EXPERIMENTAL - Md 08-5572 | 48.1 | - | - | 10-19 | 32 | 2.3 |
| EXPERIMENTAL - Md 0809WN 26 | 47.3 | - | - | 10-23 | 30 | 2.7 |
| EXPERIMENTAL - Md 0607WN 38 | 46.6 | 40.8 | 43.7 | 10-22 | 29 | 3.0 |
| EXPERIMENTAL - Md 05-5468 | 43.8 | 43.1 | 43.5 | 10-20 | 27 | 2.3 |
| PUBLIC - ESSEX | 43.7 | 43.2 | 43.5 | 10-19 | 28 | 2.3 |
| EXPERIMENTAL - Md 08-5424 | 41.6 | - | - | 10-13 | 30 | 3.0 |
| EXPERIMENTAL - Md 0607WN 51 | 41.2 | 46.0 | 43.6 | 10-23 | 29 | 3.3 |
| EXPERIMENTAL - Md 06-6182 | 40.7 | 43.7 | 42.2 | 10-22 | 29 | 3.0 |
| EXPERIMENTAL - Md 0708WN 50 | 40.1 | 32.2 | 36.2 | 10-19 | 30 | 2.5 |
| EXPERIMENTAL - Md 08-5294 | 40.0 | - | - | 10-23 | 34 | 2.7 |
| Mean | 47.4 | 43.0 | 45.2 | - | 29 | 2.6 |
| LSD 0.20 | 5.6 | 6.9 | - | - | 4 | ns |
| CV, % | 11.1 | 15.0 | - | - | - | - |

*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 | Seed Yield, Bu/A | | | 2011 | | |
|---------------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 3 | | | | | |
| MID ATLANTIC - MAS 3511RR2 (RR Check) | 51.5 | - | - | 10-22 | 26 | 1.3 |
| TA SEEDS - TS3929L | 51.3 | - | - | 10-22 | 22 | 2.0 |
| S.STATES - LL396N | 50.3 | 45.0 | 47.7 | 10-22 | 24 | 1.3 |
| PUBLIC - MACON | 47.0 | 41.3 | 44.2 | 10-18 | 23 | 1.7 |
| PUBLIC - IA 3024 | 46.4 | 46.4 | 46.4 | 10-20 | 23 | 1.3 |
| EXPERIMENTAL - Md 0708WN 55 | 45.8 | 40.2 | 43.0 | 10-17 | 22 | 1.0 |
| EXPERIMENTAL - Md 05-5585 | 44.7 | 33.5 | 39.1 | 10-19 | 26 | 1.3 |
| EXPERIMENTAL - Md 03-5453 | 43.5 | 37.0 | 40.3 | 10-20 | 23 | 1.7 |
| EXPERIMENTAL - Md 09-6015 | 38.4 | - | - | 10-21 | 30 | 2.0 |
| Mean | 46.6 | 41.2 | 43.9 | - | 24 | 1.5 |
| LSD 0.20 | 4.3 | 4.1 | - | - | 2 | 0.5 |
| CV, % | 8.5 | 9.2 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | |
| PUBLIC - LD 00-2817P | 59.1 | 36.4 | 47.8 | 10-21 | 30 | 1.3 |
| S.STATES - LL430N | 57.4 | 40.5 | 49.0 | 10-25 | 31 | 2.0 |
| S.STATES - RT4470N (RR Check) | 57.2 | - | - | 10-25 | 25 | 1.0 |
| S.STATES - LL450N | 55.4 | 42.6 | 49.0 | 10-21 | 29 | 1.0 |
| EXPERIMENTAL - Md 07-5100 | 55.1 | 38.5 | 46.8 | 10-25 | 29 | 2.3 |
| PUBLIC - IA 4005 | 54.8 | - | - | 10-21 | 26 | 1.3 |
| EXPERIMENTAL - Md 0809WN 100 | 54.6 | - | - | 10-21 | 28 | 1.0 |
| EXPERIMENTAL - Md 0708WN 120 | 54.3 | 37.1 | 45.7 | 10-20 | 29 | 1.0 |
| TA SEEDS - TS4229L | 54.1 | - | - | 10-25 | 32 | 1.0 |
| EXPERIMENTAL - Md 06-5617 | 53.3 | - | - | 10-21 | 28 | 1.0 |
| DYNAGRO - 38LL42 | 53.1 | 38.9 | 46.0 | 10-21 | 30 | 1.7 |
| EXPERIMENTAL - Md 0809WN 69 | 52.7 | - | - | 10-26 | 28 | 1.0 |
| PUBLIC - MONOCACY | 52.1 | 41.6 | 46.9 | 10-23 | 30 | 1.3 |
| EXPERIMENTAL - Md 06-5401 | 51.8 | 36.9 | 44.4 | 10-21 | 31 | 1.0 |
| EXPERIMENTAL - Md 0708WN 215 | 51.7 | - | - | 10-26 | 37 | 1.3 |
| PUBLIC - LD 00-3309 | 49.8 | 35.4 | 42.6 | 10-19 | 26 | 1.3 |
| EXPERIMENTAL - Md 0809WN 77 | 49.1 | - | - | 10-26 | 30 | 1.3 |
| EXPERIMENTAL - Md 06-5700 | 48.6 | 35.5 | 42.1 | 10-19 | 32 | 3.0 |
| EXPERIMENTAL - Md 07-5959 | 48.2 | 36.9 | 42.6 | 10-27 | 29 | 2.3 |
| Mean | 53.3 | 37.3 | 45.3 | - | 30 | 1.4 |
| LSD 0.20 | ns | 4.6 | - | - | 3 | 0.5 |
| CV, % | 9.0 | 11.7 | - | - | - | - |
| MATURITY GROUP 4s | | | | | | |
| USG - 74A69R (RR Check) | 65.1 | - | - | 10-24 | 30 | 1.0 |
| S.STATES - LL491N | 61.1 | - | - | 10-25 | 35 | 1.0 |
| EXPERIMENTAL - Md 00-6015 | 60.8 | 34.3 | 47.6 | 10-27 | 29 | 2.0 |
| DYNAGRO - 33LL49 | 59.7 | - | - | 11-01 | 31 | 1.0 |
| PUBLIC - HANOVER | 58.0 | 40.4 | 49.2 | 11-02 | 36 | 3.7 |
| EXPERIMENTAL - Md 01-5866 | 57.6 | 31.7 | 44.7 | 10-25 | 32 | 1.7 |
| EXPERIMENTAL - Md 00-5326 | 56.5 | 33.0 | 44.8 | 10-25 | 32 | 1.3 |
| EXPERIMENTAL - Md 05-5276 | 56.0 | 31.8 | 43.9 | 10-24 | 36 | 1.7 |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|------------------------------|--------------------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 4s - Continued | | | | | |
| S.STATES - LL499N | 55.9 | 38.4 | 47.2 | 10-27 | 34 | 1.0 |
| DYNAGRO - 32LL48 | 55.1 | 39.2 | 47.2 | 10-26 | 36 | 1.0 |
| EXPERIMENTAL - Md 0708WN 60 | 55.0 | - | - | 10-25 | 30 | 1.7 |
| EXPERIMENTAL - Md 0708WN 157 | 54.9 | - | - | 10-30 | 37 | 1.0 |
| EXPERIMENTAL - Md 05-6207 | 53.2 | 34.3 | 43.8 | 10-22 | 30 | 1.0 |
| EXPERIMENTAL - Md 0708WN 225 | 52.5 | 34.6 | 43.6 | 10-25 | 34 | 1.3 |
| PUBLIC - MANOKIN | 51.3 | 30.9 | 41.1 | 10-25 | 35 | 3.0 |
| EXPERIMENTAL - Md 06-5356 | 51.1 | 36.8 | 44.0 | 10-25 | 31 | 1.0 |
| EXPERIMENTAL - Md 0506WN 16 | 51.1 | 33.4 | 42.3 | 10-23 | 32 | 2.3 |
| EXPERIMENTAL - Md 03-6420 | 50.1 | 36.4 | 43.3 | 10-25 | 30 | 1.3 |
| PUBLIC - KS 4602N | 49.4 | 31.7 | 40.6 | 10-22 | 29 | 1.7 |
| EXPERIMENTAL - Md 08-5842 | 49.1 | - | - | 10-25 | 30 | 1.3 |
| EXPERIMENTAL - Md 0708WN 53 | 46.6 | 33.4 | 40.0 | 10-23 | 29 | 2.3 |
| Mean | 54.8 | 34.3 | 44.6 | - | 32 | 1.6 |
| LSD 0.20 | 5.2 | 4.0 | - | - | 3 | 0.6 |
| CV, % | 8.9 | 10.9 | - | - | - | - |
| MATURITY GROUP 5 | | | | | | |
| PUBLIC - OSAGE | 59.6 | 36.6 | 48.1 | 11-01 | 32 | 1.7 |
| PUBLIC - 5002T | 57.6 | 36.1 | 46.9 | 10-26 | 30 | 3.7 |
| PUBLIC - GLENN | 55.5 | 35.4 | 45.5 | 10-28 | 29 | 2.7 |
| TA SEEDS - TS5129L | 55.4 | - | - | 11-02 | 35 | 2.3 |
| EXPERIMENTAL - Md 99-6226 | 54.8 | 40.0 | 47.4 | 10-27 | 28 | 2.0 |
| EXPERIMENTAL - Md 05-5468 | 54.7 | 38.9 | 46.8 | 11-02 | 31 | 3.0 |
| PUBLIC - HUTCHESON | 52.8 | 36.2 | 44.5 | 10-29 | 33 | 2.3 |
| EXPERIMENTAL - Md 0809WN 83 | 49.7 | - | - | 11-02 | 38 | 2.0 |
| EXPERIMENTAL - Md 0607WN 38 | 49.7 | 29.5 | 39.6 | 10-28 | 38 | 2.7 |
| PUBLIC - ESSEX | 49.1 | 36.8 | 43.0 | 10-26 | 26 | 1.7 |
| EXPERIMENTAL - Md 0708WN 50 | 49.0 | 29.9 | 39.5 | 10-26 | 36 | 1.7 |
| USG - 75T18 (RR Check) | 49.0 | - | - | 10-27 | 34 | 3.3 |
| EXPERIMENTAL - Md 0607WN 51 | 46.1 | 30.0 | 38.1 | 10-28 | 34 | 3.3 |
| EXPERIMENTAL - Md 08-5424 | 44.4 | - | - | 10-25 | 34 | 3.0 |
| EXPERIMENTAL - Md 08-5294 | 44.3 | - | - | 10-25 | 34 | 3.0 |
| EXPERIMENTAL - Md 0809WN 26 | 43.9 | - | - | 10-31 | 36 | 2.3 |
| EXPERIMENTAL - Md 06-6182 | 43.8 | 31.3 | 37.6 | 10-28 | 37 | 3.0 |
| EXPERIMENTAL - Md 08-5572 | 42.7 | - | - | 10-25 | 32 | 2.3 |
| Mean | 50.1 | 33.7 | 41.9 | - | 33 | 2.6 |
| LSD 0.20 | 5.3 | 2.6 | - | - | 3 | 0.7 |
| CV, % | 9.8 | 7.2 | - | - | - | - |

*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 2011.

| Brand - Entry | Clarksville | Queenstown | Quantico | |
|---------------------------------------|-------------|-------------|---------------|---------------|
| | | | Full Season | Double Crop |
| MATURITY GROUP 3 | | | | |
| PUBLIC - IA 3024 | 116* | 84 | 80 | 100 |
| PUBLIC - MACON | 105 | 92 | 91 | 101 |
| EXPERIMENTAL - Md 03-5453 | 85 | 85 | 107 | 93 |
| EXPERIMENTAL - Md 05-5585 | 87 | 89 | 95 | 96 |
| EXPERIMENTAL - Md 09-6015 | 75 | 91 | 95 | 82 |
| EXPERIMENTAL - Md 0708WN 55 | 109* | 105 | 105 | 98 |
| S.STATES - LL396N | 105 | 137* | 107 | 108* |
| TA SEEDS - TS3929L | 102 | 117 | 117* | 110* |
| MID ATLANTIC - MAS 3511RR2 (RR Check) | 114* | 100 | 102 | 111* |
| Location/Group Mean Yield | 44.2 | 38.5 | 42.1ns | 46.6 |
| MATURITY GROUP 4 | | | | |
| PUBLIC - IA 4005 | 121* | 104 | 76 | 103 |
| DYNAGRO - 38LL42 | 100 | 111 | 101 | 100 |
| PUBLIC - LD 00-2817P | 106 | 130* | 114* | 111* |
| PUBLIC - LD 00-3309 | 107 | 111 | 129* | 93 |
| PUBLIC - MONOCACY | 99 | 88 | 105 | 98 |
| EXPERIMENTAL - Md 06-5401 | 102 | 99 | 91 | 97 |
| EXPERIMENTAL - Md 06-5617 | 91 | 90 | 110 | 100 |
| EXPERIMENTAL - Md 06-5700 | 87 | 85 | 77 | 91 |
| EXPERIMENTAL - Md 07-5100 | 95 | 90 | 98 | 103 |
| EXPERIMENTAL - Md 07-5959 | 104 | 77 | 92 | 90 |
| EXPERIMENTAL - Md 0708WN 120 | 99 | 114 | 113* | 102 |
| EXPERIMENTAL - Md 0708WN 215 | 82 | 78 | 88 | 97 |
| EXPERIMENTAL - Md 0809WN 69 | 97 | 89 | 102 | 99 |
| EXPERIMENTAL - Md 0809WN 77 | 86 | 86 | 85 | 92 |
| EXPERIMENTAL - Md 0809WN 100 | 104 | 93 | 99 | 103 |
| S.STATES - LL430N | 99 | 121* | 124* | 108 |
| S.STATES - LL450N | 101 | 108 | 94 | 104 |
| TA SEEDS - TS4229L | 102 | 117* | 104 | 102 |
| S.STATES - RT4470N (RR Check) | 117* | 109 | 98 | 107 |
| Location/Group Mean Yield | 48.0 | 46.1 | 47.3 | 53.3ns |
| MATURITY GROUP 4s | | | | |
| DYNAGRO - 32LL48 | 92 | 99 | 99 | 101 |
| DYNAGRO - 33LL49 | 100 | 101 | 101 | 109 |
| PUBLIC - HANOVER | 106 | 105 | 111* | 106 |
| PUBLIC - KS 4602N | 99 | 107 | 92 | 90 |
| PUBLIC - MANOKIN | 99 | 102 | 109* | 94 |
| EXPERIMENTAL - Md 00-5326 | 100 | 108 | 95 | 103 |
| EXPERIMENTAL - Md 00-6015 | 108 | 89 | 111* | 111* |
| EXPERIMENTAL - Md 01-5866 | 105 | 112* | 105* | 105 |
| EXPERIMENTAL - Md 03-6420 | 100 | 101 | 101 | 91 |
| EXPERIMENTAL - Md 05-5276 | 89 | 104 | 94 | 102 |

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

| Brand - Entry | Clarksville | Queenstown | Quantico | |
|--------------------------------------|-------------|-------------|-------------|-------------|
| | | | Full Season | Double Crop |
| MATURITY GROUP 4s - Continued | | | | |
| EXPERIMENTAL - Md 05-6207 | 95 | 101 | 98 | 97 |
| EXPERIMENTAL - Md 0506WN 16 | 95 | 86 | 80 | 93 |
| EXPERIMENTAL - Md 06-5356 | 105 | 104 | 93 | 93 |
| EXPERIMENTAL - Md 0708WN 53 | 97 | 94 | 99 | 85 |
| EXPERIMENTAL - Md 0708WN 60 | 82 | 89 | 95 | 100 |
| EXPERIMENTAL - Md 0708WN 157 | 89 | 97 | 108* | 100 |
| EXPERIMENTAL - Md 0708WN 225 | 88 | 98 | 85 | 96 |
| EXPERIMENTAL - Md 08-5842 | 104 | 76 | 94 | 90 |
| S.STATES - LL491N | 108 | 104 | 103 | 111* |
| S.STATES - LL499N | 109 | 103 | 111* | 102 |
| USG - 74A69R (RR Check) | 127* | 123* | 116* | 119* |
| Location/Group Mean Yield | 47.2 | 47.5 | 50.4 | 54.8 |
| MATURITY GROUP 5 | | | | |
| PUBLIC - ESSEX | - | 95 | 92 | 98 |
| PUBLIC - GLENN | - | 109* | 115* | 111* |
| PUBLIC - HUTCHESON | - | 99 | 107* | 105 |
| EXPERIMENTAL - Md 99-6226 | - | 111* | 109* | 109* |
| EXPERIMENTAL - Md 05-5468 | - | 101 | 92 | 109* |
| EXPERIMENTAL - Md 06-6182 | - | 97 | 86 | 87 |
| EXPERIMENTAL - Md 0607WN 38 | - | 102 | 98 | 99 |
| EXPERIMENTAL - Md 0607WN 51 | - | 96 | 87 | 92 |
| EXPERIMENTAL - Md 0708WN 50 | - | 106 | 85 | 98 |
| EXPERIMENTAL - Md 08-5294 | - | 85 | 84 | 88 |
| EXPERIMENTAL - Md 08-5424 | - | 90 | 88 | 89 |
| EXPERIMENTAL - Md 08-5572 | - | 96 | 101 | 85 |
| EXPERIMENTAL - Md 0809WN 26 | - | 104 | 100 | 88 |
| EXPERIMENTAL - Md 0809WN 83 | - | 78 | 103 | 99 |
| PUBLIC - OSAGE | - | 117* | 119* | 119* |
| TA SEEDS - TS5129L | - | 105 | 115* | 111* |
| PUBLIC - 5002T | - | 119* | 110* | 115* |
| USG - 75T18 (RR Check) | - | 93 | 109* | 98 |
| Location/Group Mean Yield | - | 41.3 | 47.4 | 50.1 |

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

ns=no significant differences among entries in this group

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 | Seed Yield, | | 2011 | | |
|-------------------------------|-----------------|-------------|-------------------|-------------------|------------|
| | Bu/A | | Height, Inches | Lodging Score* | |
| | 2011 | 2010 | | | |
| MATURITY GROUP 3 | | | | | |
| S.STATES - EXP3712NR2 | 55.5 | NA | 28 | 1.0 | |
| USG - 73H77 | 54.7 | NA | 30 | 1.0 | |
| TA SEEDS - TS3989RS | 53.7 | NA | 31 | 1.0 | |
| DOEBLERS RPM - DB3509RR | 53.4 | NA | 32 | 1.0 | |
| MID ATLANTIC - MAS 3802NRR | 53.2 | NA | 30 | 1.0 | |
| TA SEEDS - TS3829R2 | 53.1 | NA | 27 | 1.0 | |
| S.STATES - SS3910NR2 | 52.9 | NA | 28 | 1.0 | |
| HUBNER SEED - H39-12R2 | 52.2 | NA | 28 | 1.0 | |
| HUBNER SEED - H36-12R2 | 51.7 | NA | 27 | 1.0 | |
| S.STATES - SS3911NR2 | 51.6 | NA | 26 | 1.0 | |
| MID ATLANTIC - MAS 3511RRII | 50.7 | NA | 29 | 1.0 | |
| MID ATLANTIC - MAS 3781NRR | 50.3 | NA | 26 | 1.0 | |
| S.STATES - SS3811NR2 | 50.2 | NA | 31 | 1.0 | |
| S.STATES - RT3971N | 50.0 | NA | 27 | 1.0 | |
| DYNAGRO - 37RY39 | 49.9 | NA | 28 | 1.0 | |
| HISOY - HS38A02 | 49.0 | NA | 26 | 1.0 | |
| DYNAGRO - 36RY38 | 47.9 | NA | 27 | 1.0 | |
| HISOY - HS39A03 | 47.4 | NA | 27 | 1.0 | |
| DOEBLERS RPM - DB3809RR | 47.3 | NA | 27 | 1.0 | |
| MID ATLANTIC - MAS 3955RR | 45.6 | NA | 27 | 1.0 | |
| DYNAGRO - V39N9RR | 45.3 | NA | 28 | 1.0 | |
| MID ATLANTIC - MAS 3599RR | 43.3 | NA | 29 | 1.0 | |
| MID ATLANTIC - MAS 3701NRRII | 43.2 | NA | 26 | 1.0 | |
| | Mean | 49.9 | NA | 28 | 1.0 |
| | LSD 0.20 | 5.3 | NA | 2 | ns |
| | CV, % | 9.9 | NA | - | - |
| MATURITY GROUP 4 | | | | | |
| DOEBLERS RPM - DB4510RR | 67.5 | NA | 37 | 1.0 | |
| USG - 74D41R | 66.5 | NA | 33 | 1.0 | |
| S.STATES - SS4510NR2 | 65.3 | NA | 38 | 1.0 | |
| DYNAGRO - 35X43 | 64.2 | NA | 32 | 1.0 | |
| S.STATES - RT4470N/STS | 63.0 | NA | 27 | 1.0 | |
| HISOY - HS41A02 | 63.0 | NA | 36 | 1.0 | |
| USG - 74K01R | 62.8 | NA | 36 | 1.0 | |
| S.STATES - EXP4312NR2 | 62.4 | NA | 29 | 1.0 | |
| USG - 74K11R | 61.7 | NA | 35 | 3.0 | |
| USG - 74B58 | 61.6 | NA | 30 | 1.0 | |
| DYNAGRO - 39RY43 | 60.8 | NA | 30 | 1.0 | |
| HUBNER SEED - H418NRR/STS | 60.0 | NA | 36 | 1.0 | |
| TA SEEDS - TS4129R2 | 59.1 | NA | 29 | 1.0 | |
| TA SEEDS - TS4299RS | 58.2 | NA | 31 | 1.0 | |
| MID ATLANTIC - MAS 4399RR/STS | 57.5 | NA | 34 | 1.0 | |

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

| Brand - Entry | Seed Yield, | | 2011 | |
|-------------------------------------|-----------------|-------------|-------------------|-------------------|
| | Bu/A | | Height, Inches | Lodging Score* |
| | 2011 | 2010 | | |
| MATURITY GROUP 4 (Continued) | | | | |
| MID ATLANTIC - MAS 4504NRR11 | 57.0 | NA | 35 | 1.0 |
| HISOY - HS42T80 | 56.6 | NA | 30 | 1.0 |
| MID ATLANTIC - MAS 4077NRR/STS | 56.1 | NA | 35 | 1.0 |
| S.STATES - RT4370N | 55.6 | NA | 32 | 1.0 |
| | Mean | 61.1 | NA | 33 |
| | LSD 0.20 | 4.6 | NA | 2 |
| | CV, % | 7.1 | NA | - |
| MATURITY GROUP 4s | | | | |
| S.STATES - SS4700R2 | 61.1 | NA | 33 | 1.0 |
| USG - 74A69R | 60.7 | NA | 29 | 1.0 |
| HUBNER SEED - H46-01R2/STS | 60.1 | NA | 28 | 1.0 |
| S.STATES - SS4711NR2 | 59.4 | NA | 33 | 1.0 |
| DYNAGRO - 39D48 | 59.3 | NA | 31 | 1.0 |
| USG - 74A79R | 58.5 | NA | 29 | 1.0 |
| DYNAGRO - 37RY47 | 57.9 | NA | 28 | 1.0 |
| HISOY - HS47R90 | 57.3 | NA | 31 | 1.0 |
| S.STATES - RT4996N | 56.7 | NA | 33 | 1.0 |
| USG - 74H81 | 56.3 | NA | 34 | 1.0 |
| MID ATLANTIC - MAS 4666NRR | 55.3 | NA | 33 | 1.0 |
| USG - 74E88 | 53.4 | NA | 33 | 1.0 |
| USG - 74B81R | 53.1 | NA | 32 | 1.0 |
| USG - 74F96 | 52.4 | NA | 36 | 1.0 |
| S.STATES - RT4808N | 51.8 | NA | 34 | 1.0 |
| HISOY - HS476 | 51.4 | NA | 30 | 1.0 |
| MID ATLANTIC - MAS 4605NRR | 51.4 | NA | 33 | 1.0 |
| | Mean | 56.2 | NA | 32 |
| | LSD 0.20 | 4.0 | NA | 3 |
| | CV, % | 6.7 | NA | - |

*Lodging Score:1=all plants erect, to 5=all plants down
NA= Yield not available from 2010

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | | |
|-------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* | |
| | MATURITY GROUP 3 | | | | | | |
| DYNAGRO - V39N9RR | 58.4 | 50.2 | 54.3 | 10-21 | 34 | 2.0 | |
| MID ATLANTIC - MAS 3701NRRII | 58.4 | - | - | 10-12 | 33 | 3.3 | |
| MID ATLANTIC - MAS 3511RRII | 57.4 | 51.8 | 54.6 | 10-15 | 38 | 4.0 | |
| HUBNER SEED - H36-12R2 | 57.1 | - | - | 10-15 | 33 | 1.7 | |
| HISOY - HS39A03 | 55.9 | - | - | 10-18 | 32 | 2.3 | |
| DYNAGRO - 37RY39 | 53.8 | 51.5 | 52.7 | 10-15 | 33 | 2.0 | |
| MID ATLANTIC - MAS 3955RR | 53.6 | 49.6 | 51.6 | 10-17 | 34 | 1.7 | |
| DOEBLERS RPM - DB3809RR | 53.3 | 52.7 | 53.0 | 10-18 | 32 | 1.0 | |
| S.STATES - SS3811NR2 | 52.2 | - | - | 10-21 | 39 | 1.7 | |
| TA SEEDS - TS3989RS | 51.6 | 56.4 | 54.0 | 10-17 | 32 | 2.0 | |
| HUBNER SEED - H39-12R2 | 51.3 | - | - | 10-15 | 33 | 1.7 | |
| MID ATLANTIC - MAS 3802NRR | 51.1 | - | - | 10-18 | 34 | 1.3 | |
| S.STATES - SS3910NR2 | 51.0 | 52.0 | 51.5 | 10-16 | 33 | 2.0 | |
| TA SEEDS - TS3829R2 | 50.0 | - | - | 10-14 | 30 | 1.3 | |
| DYNAGRO - 36RY38 | 49.8 | - | - | 10-20 | 28 | 1.3 | |
| MID ATLANTIC - MAS 3781NRR | 49.3 | 50.5 | 49.9 | 10-15 | 32 | 1.7 | |
| USG - 73H77 | 49.0 | 49.8 | 49.4 | 10-16 | 31 | 1.8 | |
| MID ATLANTIC - MAS 3599RR | 48.3 | - | - | 10-13 | 35 | 2.7 | |
| S.STATES - EXP3712NR2 | 47.4 | - | - | 10-15 | 31 | 1.3 | |
| HISOY - HS38A02 | 47.0 | - | - | 10-14 | 32 | 1.7 | |
| S.STATES - SS3911NR2 | 46.7 | - | - | 10-10 | 34 | 2.0 | |
| DOEBLERS RPM - DB3509RR | 44.7 | - | - | 10-11 | 32 | 2.7 | |
| S.STATES - RT3971N | 44.5 | 50.7 | 47.6 | 10-18 | 34 | 1.7 | |
| | Mean | 51.2 | 50.7 | 51.0 | - | 33 | 1.9 |
| | LSD 0.20 | 6.6 | 3.7 | - | - | 3 | 0.9 |
| | CV, % | 12.1 | 6.8 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | | |
| S.STATES - RT4470N/STS | 63.3 | 54.9 | 59.1 | 10-21 | 32 | 1.3 | |
| USG - 74B58 | 61.6 | 56.2 | 58.9 | 10-19 | 31 | 1.0 | |
| S.STATES - SS4510NR2 | 60.4 | 53.2 | 56.8 | 10-23 | 38 | 1.3 | |
| S.STATES - EXP4312NR2 | 60.3 | - | - | 10-17 | 36 | 1.3 | |
| USG - 74D41R | 60.1 | - | - | 10-25 | 30 | 1.7 | |
| USG - 74K11R | 58.2 | - | - | 10-16 | 37 | 4.3 | |
| TA SEEDS - TS4299RS | 57.3 | 52.6 | 55.0 | 10-21 | 30 | 1.7 | |
| DYNAGRO - 35X43 | 56.9 | 62.7 | 59.8 | 10-23 | 31 | 1.7 | |
| DOEBLERS RPM - DB4510RR | 56.7 | - | - | 10-23 | 34 | 2.3 | |
| HISOY - HS42T80 | 56.2 | 56.6 | 56.4 | 10-19 | 31 | 1.7 | |
| S.STATES - RT4370N | 55.0 | 57.2 | 56.1 | 10-24 | 36 | 1.7 | |
| HISOY - HS41A02 | 53.9 | 59.7 | 56.8 | 10-21 | 34 | 3.0 | |
| HUBNER SEED - H418NRR/STS | 53.6 | - | - | 10-16 | 32 | 2.0 | |
| DYNAGRO - 39RY43 | 53.3 | - | - | 10-21 | 31 | 1.3 | |
| MID ATLANTIC - MAS 4399RR/STS | 52.9 | 59.0 | 56.0 | 10-25 | 36 | 3.0 | |

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

| Brand - Entry | Seed Yield, Bu/A | | | Maturity Date | 2011 | |
|-------------------------------------|------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | | Height, Inches | Lodging Score* |
| MATURITY GROUP 4 (Continued) | | | | | | |
| MID ATLANTIC - MAS 4077NRR/STS | 51.9 | - | - | 10-16 | 35 | 1.0 |
| TA SEEDS - TS4129R2 | 51.6 | - | - | 10-16 | 35 | 3.0 |
| MID ATLANTIC - MAS 4504NRRII | 49.7 | - | - | 10-25 | 37 | 1.0 |
| USG - 74K01R | 46.5 | - | - | 10-12 | 35 | 3.7 |
| Mean | 56.0 | 56.7 | 56.4 | - | 34 | 2.0 |
| LSD 0.20 | 4.6 | 5.7 | - | - | 4 | 1.1 |
| CV, % | 7.8 | 9.4 | - | - | - | - |
| MATURITY GROUP 4s | | | | | | |
| USG - 74A69R | 58.5 | 49.0 | 53.8 | 10-19 | 35 | 2.3 |
| USG - 74A79R | 57.9 | - | - | 10-24 | 34 | 1.7 |
| DYNAGRO - 37RY47 | 57.8 | 51.1 | 54.5 | 10-21 | 34 | 3.0 |
| S.STATES - RT4808N | 56.6 | 51.5 | 54.1 | 10-24 | 35 | 3.0 |
| S.STATES - SS4700R2 | 56.0 | 48.9 | 52.5 | 10-25 | 33 | 2.7 |
| HUBNER SEED - H46-01R2/STS | 55.9 | - | - | 10-19 | 33 | 2.0 |
| HISOY - HS47R90 | 55.0 | - | - | 10-25 | 35 | 1.3 |
| USG - 74B81R | 54.5 | - | - | 10-23 | 38 | 2.3 |
| MID ATLANTIC - MAS 4605NRR | 54.5 | - | - | 10-23 | 36 | 2.0 |
| USG - 74H81 | 54.1 | - | - | 10-21 | 36 | 2.7 |
| MID ATLANTIC - MAS 4666NRR | 54.1 | - | - | 10-24 | 37 | 1.3 |
| HISOY - HS476 | 53.7 | - | - | 10-21 | 34 | 1.0 |
| USG - 74F96 | 53.0 | 48.0 | 50.5 | 10-27 | 34 | 3.0 |
| DYNAGRO - 39D48 | 52.6 | - | - | 10-21 | 37 | 3.0 |
| S.STATES - RT4996N | 51.7 | 48.2 | 50.0 | 10-27 | 36 | 4.0 |
| S.STATES - SS4711NR2 | 49.2 | - | - | 10-25 | 38 | 2.3 |
| USG - 74E88 | 45.3 | 47.3 | 46.3 | 10-25 | 36 | 1.3 |
| Mean | 54.1 | 47.9 | 51.0 | - | 35 | 2.3 |
| LSD 0.20 | 4.2 | 4.5 | - | - | 2 | 0.8 |
| CV, % | 7.3 | 8.7 | - | - | - | - |

*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 | Seed Yield, Bu/A | | | 2011 | | | |
|--------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* | |
| | MATURITY GROUP 3 | | | | | | |
| MID ATLANTIC - MAS 3955RR | 59.4 | 64.7 | 62.1 | 10-05 | 30 | 1.7 | |
| HISOY - HS38A02 | 58.5 | - | - | 10-05 | 29 | 1.7 | |
| HISOY - HS39A03 | 56.0 | - | - | 10-07 | 28 | 2.3 | |
| S.STATES - SS3911NR2 | 55.7 | - | - | 10-03 | 29 | 2.0 | |
| DYNAGRO - 37RY39 | 55.3 | 79.2 | 67.3 | 10-04 | 29 | 2.0 | |
| HUBNER SEED - H39-12R2 | 55.2 | - | - | 10-04 | 29 | 1.0 | |
| USG - 73H77 | 54.9 | 63.8 | 59.4 | 10-07 | 30 | 2.3 | |
| MID ATLANTIC - MAS 3802NRR | 53.4 | - | - | 10-07 | 31 | 2.0 | |
| S.STATES - SS3910NR2 | 53.2 | 63.2 | 58.2 | 10-05 | 30 | 2.7 | |
| TA SEEDS - TS3989RS | 53.1 | 63.5 | 58.3 | 10-07 | 32 | 2.0 | |
| DYNAGRO - V39N9RR | 52.6 | 66.2 | 59.4 | 10-08 | 28 | 2.3 | |
| HUBNER SEED - H36-12R2 | 52.0 | - | - | 10-01 | 26 | 1.3 | |
| DOEBLERS RPM - DB3509RR | 51.7 | - | - | 10-01 | 28 | 2.7 | |
| S.STATES - SS3811NR2 | 51.4 | - | - | 10-04 | 35 | 2.7 | |
| MID ATLANTIC - MAS 3511RRII | 51.4 | 60.0 | 55.7 | 10-02 | 30 | 1.7 | |
| DOEBLERS RPM - DB3809RR | 51.3 | 60.8 | 56.1 | 10-06 | 29 | 1.3 | |
| MID ATLANTIC - MAS 3701NRRII | 51.2 | - | - | 10-03 | 28 | 2.3 | |
| MID ATLANTIC - MAS 3599RR | 50.5 | - | - | 10-07 | 30 | 2.3 | |
| TA SEEDS - TS3829R2 | 49.2 | - | - | 09-29 | 27 | 1.3 | |
| DYNAGRO - 36RY38 | 47.1 | - | - | 10-04 | 26 | 1.3 | |
| S.STATES - EXP3712NR2 | 45.9 | - | - | 10-03 | 28 | 1.7 | |
| S.STATES - RT3971N | 44.8 | 73.6 | 59.2 | 10-01 | 30 | 1.3 | |
| MID ATLANTIC - MAS 3781NRR | 44.7 | 63.0 | 53.9 | 09-30 | 31 | 1.3 | |
| | Mean | 52.3 | 64.3 | 58.3 | - | 29 | 1.8 |
| | LSD 0.20 | 5.3 | ns | - | - | ns | 0.7 |
| | CV, % | 9.5 | 15.8 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | | |
| USG - 74D41R | 61.9 | - | - | 10-11 | 30 | 2.0 | |
| S.STATES - RT4470N/STS | 60.9 | 37.4 | 49.2 | 10-09 | 28 | 2.0 | |
| S.STATES - RT4370N | 60.3 | 34.4 | 47.4 | 10-09 | 33 | 2.8 | |
| DYNAGRO - 39RY43 | 59.8 | - | - | 10-08 | 30 | 1.7 | |
| USG - 74B58 | 59.8 | 41.5 | 50.7 | 10-09 | 29 | 2.0 | |
| MID ATLANTIC - MAS 4399RR/STS | 59.3 | 23.9 | 41.6 | 10-13 | 37 | 3.5 | |
| S.STATES - SS4510NR2 | 59.0 | 33.0 | 46.0 | 10-11 | 37 | 3.7 | |
| DYNAGRO - 35X43 | 58.4 | 35.2 | 46.8 | 10-10 | 32 | 3.7 | |
| USG - 74K11R | 58.2 | - | - | 10-08 | 34 | 3.0 | |
| S.STATES - EXP4312NR2 | 58.0 | - | - | 10-10 | 33 | 2.8 | |
| MID ATLANTIC - MAS 4077NRR/STS | 57.6 | - | - | 10-10 | 33 | 2.7 | |
| HISOY - HS41A02 | 57.3 | 39.0 | 48.2 | 10-11 | 35 | 3.2 | |
| MID ATLANTIC - MAS 4504NRRII | 56.3 | - | - | 10-12 | 40 | 2.5 | |
| USG - 74K01R | 55.8 | - | - | 10-05 | 29 | 2.7 | |
| DOEBLERS RPM - DB4510RR | 53.3 | - | - | 10-10 | 31 | 2.3 | |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|-------------------------------------|------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| MATURITY GROUP 4 (Continued) | | | | | | |
| HUBNER SEED - H418NRR/STS | 53.3 | - | - | 10-08 | 32 | 2.3 |
| HISOY - HS42T80 | 52.8 | 39.0 | 45.9 | 10-07 | 29 | 1.7 |
| TA SEEDS - TS4299RS | 51.5 | 38.2 | 44.9 | 10-07 | 30 | 2.0 |
| TA SEEDS - TS4129R2 | 46.5 | - | - | 10-08 | 31 | 2.0 |
| Mean | 57.1 | 35.3 | 46.2 | - | 33 | 2.6 |
| LSD 0.20 | 4.0 | 5.5 | - | - | 3 | 0.6 |
| CV, % | 6.5 | 14.6 | - | - | - | - |
| MATURITY GROUP 4s | | | | | | |
| S.STATES - SS4700R2 | 62.0 | 66.6 | 64.3 | 10-18 | 31 | 2.7 |
| USG - 74F96 | 60.6 | 54.4 | 57.5 | 10-20 | 34 | 2.3 |
| S.STATES - RT4996N | 60.3 | 44.1 | 52.2 | 10-19 | 32 | 3.0 |
| USG - 74A79R | 58.4 | - | - | 10-17 | 31 | 3.0 |
| MID ATLANTIC - MAS 4605NRR | 58.3 | - | - | 10-15 | 36 | 2.7 |
| S.STATES - RT4808N | 57.3 | 56.5 | 56.9 | 10-17 | 33 | 2.0 |
| USG - 74A69R | 57.0 | 65.1 | 61.1 | 10-17 | 29 | 2.0 |
| USG - 74H81 | 56.8 | - | - | 10-14 | 33 | 2.0 |
| DYNAGRO - 37RY47 | 56.3 | 54.6 | 55.5 | 10-16 | 27 | 2.0 |
| DYNAGRO - 39D48 | 55.4 | - | - | 10-12 | 32 | 2.0 |
| USG - 74E88 | 54.7 | 51.2 | 53.0 | 10-14 | 33 | 1.5 |
| MID ATLANTIC - MAS 4666NRR | 54.6 | - | - | 10-16 | 31 | 2.0 |
| HUBNER SEED - H46-01R2/STS | 54.2 | - | - | 10-12 | 29 | 2.3 |
| HISOY - HS47R90 | 53.4 | - | - | 10-15 | 33 | 2.0 |
| HISOY - HS476 | 52.1 | - | - | 10-15 | 28 | 1.0 |
| S.STATES - SS4711NR2 | 51.6 | - | - | 10-14 | 32 | 2.0 |
| USG - 74B81R | 51.3 | - | - | 10-16 | 30 | 2.0 |
| Mean | 56.1 | 54.2 | 55.2 | - | 31 | 2.1 |
| LSD 0.20 | 4.1 | 6.3 | - | - | 2 | 0.5 |
| CV, % | 6.9 | 10.9 | - | - | - | - |
| MATURITY GROUP 5 | | | | | | |
| S.STATES - RT5160N | 54.2 | - | - | 10-20 | 28 | 1.7 |
| HUBNER SEED - H52-12R2 | 53.5 | - | - | 10-19 | 24 | 1.7 |
| USG - 75M16 | 53.0 | 47.3 | 50.2 | 10-19 | 28 | 1.7 |
| HUBNER SEED - H53-12R2 | 51.5 | - | - | 10-15 | 28 | 2.0 |
| TA SEEDS - TS5029R2 | 51.1 | - | - | 10-21 | 40 | 2.7 |
| DOEBLERS RPM - DB5511RS | 50.4 | - | - | 10-21 | 27 | 1.3 |
| USG - 75T18 | 48.3 | 45.4 | 46.9 | 10-16 | 28 | 3.0 |
| Mean | 51.7 | 44.6 | 48.2 | - | 29 | 2.0 |
| LSD 0.20 | 2.6 | ns | - | - | 3 | 0.5 |
| CV, % | 4.6 | 20.7 | - | - | - | - |

*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 | Seed Yield, Bu/A | | | Maturity Date | 2011 | | |
|-------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|------------|
| | 2011 | 2010 | 2-Year | | Height, Inches | Lodging Score* | |
| | MATURITY GROUP 3 | | | | | | |
| MID ATLANTIC - MAS 3802NRR | 58.2 | - | - | 10-28 | 34 | 2.7 | |
| DYNAGRO - 37RY39 | 57.6 | 34.2 | 45.9 | 10-26 | 35 | 3.2 | |
| MID ATLANTIC - MAS 3701NRRII | 56.9 | - | - | 10-27 | 30 | 2.5 | |
| TA SEEDS - TS3989RS | 56.6 | 37.6 | 47.1 | 10-26 | 33 | 2.2 | |
| USG - 73H77 | 56.3 | 36.8 | 46.6 | 10-27 | 35 | 3.3 | |
| HUBNER SEED - H39-12R2 | 54.8 | - | - | 10-26 | 30 | 2.0 | |
| HISOY - HS38A02 | 54.7 | - | - | 10-30 | 34 | 2.7 | |
| MID ATLANTIC - MAS 3955RR | 54.6 | 33.9 | 44.3 | 10-25 | 31 | 2.0 | |
| DOEBLERS RPM - DB3809RR | 54.1 | 33.9 | 44.0 | 10-25 | 31 | 2.0 | |
| HISOY - HS39A03 | 54.1 | - | - | 10-29 | 29 | 2.0 | |
| DYNAGRO - V39N9RR | 53.7 | 37.1 | 45.4 | 10-29 | 33 | 2.0 | |
| MID ATLANTIC - MAS 3511RRII | 53.0 | 37.0 | 45.0 | 10-27 | 33 | 2.3 | |
| TA SEEDS - TS3829R2 | 52.4 | - | - | 10-28 | 32 | 2.3 | |
| S.STATES - RT3971N | 52.3 | 37.5 | 44.9 | 10-28 | 31 | 2.3 | |
| DOEBLERS RPM - DB3509RR | 51.0 | - | - | 10-28 | 34 | 2.7 | |
| S.STATES - EXP3712NR2 | 50.6 | - | - | 10-27 | 28 | 2.2 | |
| DYNAGRO - 36RY38 | 50.4 | - | - | 10-28 | 31 | 2.3 | |
| S.STATES - SS3911NR2 | 50.2 | - | - | 10-25 | 31 | 2.7 | |
| S.STATES - SS3811NR2 | 49.9 | - | - | 10-27 | 33 | 2.0 | |
| S.STATES - SS3910NR2 | 49.8 | 35.9 | 42.9 | 10-27 | 32 | 2.8 | |
| MID ATLANTIC - MAS 3781NRR | 49.8 | 32.8 | 41.3 | 10-26 | 31 | 2.3 | |
| MID ATLANTIC - MAS 3599RR | 47.8 | - | - | 10-26 | 32 | 2.5 | |
| HUBNER SEED - H36-12R2 | 45.3 | - | - | 10-27 | 28 | 2.7 | |
| | Mean | 52.7 | 35.9 | 44.3 | - | 32 | 2.4 |
| | LSD 0.20 | 4.0 | 3.5 | - | - | 3 | 0.4 |
| | CV, % | 7.1 | 9.2 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | | |
| DOEBLERS RPM - DB4510RR | 59.7 | - | - | 11-01 | 38 | 3.2 | |
| USG - 74D41R | 58.9 | - | - | 10-31 | 31 | 2.3 | |
| S.STATES - SS4510NR2 | 57.2 | 38.7 | 48.0 | 10-30 | 40 | 3.0 | |
| USG - 74B58 | 57.1 | 37.5 | 47.3 | 10-27 | 32 | 2.0 | |
| DYNAGRO - 39RY43 | 56.9 | - | - | 10-29 | 31 | 2.0 | |
| S.STATES - EXP4312NR2 | 55.3 | - | - | 10-28 | 32 | 2.0 | |
| MID ATLANTIC - MAS 4399RR/STS | 54.8 | 36.5 | 45.7 | 10-31 | 36 | 3.0 | |
| HISOY - HS42T80 | 54.0 | 38.5 | 46.3 | 10-28 | 31 | 2.3 | |
| MID ATLANTIC - MAS 4504NRRII | 53.1 | - | - | 10-30 | 41 | 2.8 | |
| DYNAGRO - 35X43 | 52.9 | 34.5 | 43.7 | 10-29 | 33 | 2.5 | |
| S.STATES - RT4470N/STS | 51.5 | 41.4 | 46.5 | 11-01 | 30 | 2.0 | |
| HISOY - HS41A02 | 50.1 | 39.4 | 44.8 | 10-30 | 38 | 2.7 | |
| USG - 74K01R | 50.1 | - | - | 10-29 | 32 | 3.0 | |
| HUBNER SEED - H418NRR/STS | 49.9 | - | - | 10-28 | 32 | 2.2 | |
| USG - 74K11R | 48.9 | - | - | 10-31 | 36 | 2.8 | |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|--------------------------------|-------------------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 4 (Continued) | | | | | |
| TA SEEDS - TS4129R2 | 48.9 | - | - | 10-28 | 31 | 2.0 |
| S.STATES - RT4370N | 48.7 | 38.4 | 43.6 | 10-29 | 35 | 3.0 |
| TA SEEDS - TS4299RS | 47.9 | 38.7 | 43.3 | 10-27 | 32 | 2.2 |
| MID ATLANTIC - MAS 4077NRR/STS | 45.7 | - | - | 10-28 | 31 | 2.0 |
| Mean | 52.5 | 38.4 | 45.5 | - | 34 | 2.5 |
| LSD 0.20 | 3.3 | 4.0 | - | - | 3 | 0.4 |
| CV, % | 6.0 | 9.8 | - | - | - | - |
| MATURITY GROUP 4s | | | | | | |
| USG - 74A79R | 55.8 | - | - | 11-03 | 31 | 2.2 |
| S.STATES - SS4700R2 | 54.2 | 40.4 | 47.3 | 11-01 | 32 | 2.2 |
| HUBNER SEED - H46-01R2/STS | 53.9 | - | - | 10-28 | 33 | 2.2 |
| DYNAGRO - 37RY47 | 53.9 | 41.9 | 47.9 | 10-28 | 33 | 2.0 |
| S.STATES - SS4711NR2 | 53.2 | - | - | 11-01 | 37 | 2.8 |
| DYNAGRO - 39D48 | 53.1 | - | - | 10-27 | 36 | 2.3 |
| USG - 74H81 | 53.0 | - | - | 10-29 | 32 | 2.3 |
| HISOY - HS476 | 52.6 | - | - | 10-29 | 29 | 1.8 |
| S.STATES - RT4808N | 52.1 | 37.0 | 44.6 | 10-30 | 37 | 2.7 |
| MID ATLANTIC - MAS 4605NRR | 51.3 | - | - | 10-29 | 35 | 2.7 |
| USG - 74B81R | 51.1 | - | - | 11-02 | 41 | 2.8 |
| S.STATES - RT4996N | 50.8 | 34.7 | 42.8 | 11-04 | 38 | 3.2 |
| HISOY - HS47R90 | 50.7 | - | - | 10-30 | 35 | 2.3 |
| USG - 74F96 | 50.0 | 37.2 | 43.6 | 11-03 | 34 | 2.7 |
| USG - 74A69R | 49.5 | 43.0 | 46.3 | 10-31 | 31 | 2.3 |
| USG - 74E88 | 47.3 | 40.2 | 43.8 | 10-29 | 36 | 2.3 |
| MID ATLANTIC - MAS 4666NRR | 47.1 | - | - | 10-31 | 36 | 2.7 |
| Mean | 51.7 | 38.6 | 45.2 | - | 34 | 2.4 |
| LSD 0.20 | 3.5 | 2.3 | - | - | 3 | 0.3 |
| CV, % | 6.3 | 5.6 | - | - | - | - |
| MATURITY GROUP 5 | | | | | | |
| HUBNER SEED - H53-12R2 | 53.9 | - | - | 11-06 | 33 | 3.0 |
| S.STATES - RT5160N | 48.2 | - | - | 11-05 | 36 | 3.0 |
| HUBNER SEED - H52-12R2 | 46.9 | - | - | 11-05 | 34 | 3.0 |
| USG - 75M16 | 46.9 | 33.6 | 40.3 | 11-05 | 37 | 3.5 |
| TA SEEDS - TS5029R2 | 44.9 | - | - | 11-05 | 43 | 3.0 |
| DOEBLERS RPM - DB5511RS | 44.3 | - | - | 11-06 | 37 | 3.5 |
| USG - 75T18 | 43.9 | 29.7 | 36.8 | 11-05 | 34 | 3.7 |
| Mean | 47.0 | 34.9 | 41.0 | - | 36 | 3.2 |
| LSD 0.20 | 4.8 | 2.8 | - | - | 3 | ns |
| CV, % | 9.3 | 6.8 | - | - | - | - |

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

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|--------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 3 | | | | | |
| S.STATES - SS3910NR2 | 58.8 | 37.5 | 48.2 | 10-12 | 32 | 2.7 |
| TA SEEDS - TS3829R2 | 56.4 | - | - | 10-08 | 31 | 1.7 |
| MID ATLANTIC - MAS 3511RRII | 56.1 | 44.9 | 50.5 | 10-10 | 33 | 1.0 |
| MID ATLANTIC - MAS 3599RR | 55.8 | - | - | 10-03 | 36 | 1.7 |
| MID ATLANTIC - MAS 3701NRRII | 55.4 | - | - | 10-05 | 31 | 1.0 |
| DYNAGRO - 37RY39 | 54.5 | 42.8 | 48.7 | 10-07 | 34 | 1.3 |
| HISOY - HS39A03 | 54.0 | - | - | 10-14 | 31 | 2.0 |
| DYNAGRO - 36RY38 | 53.1 | - | - | 10-05 | 31 | 1.7 |
| S.STATES - EXP3712NR2 | 53.0 | - | - | 10-09 | 33 | 1.3 |
| TA SEEDS - TS3989RS | 52.8 | 42.2 | 47.5 | 10-11 | 33 | 2.0 |
| DOEBLERS RPM - DB3809RR | 52.6 | 46.4 | 49.5 | 10-08 | 31 | 1.0 |
| S.STATES - RT3971N | 52.0 | 42.9 | 47.5 | 10-08 | 33 | 1.0 |
| S.STATES - SS3811NR2 | 51.8 | - | - | 10-10 | 36 | 1.3 |
| HUBNER SEED - H39-12R2 | 51.4 | - | - | 10-08 | 29 | 1.0 |
| USG - 73H77 | 51.2 | 45.4 | 48.3 | 10-07 | 30 | 2.0 |
| MID ATLANTIC - MAS 3802NRR | 50.9 | - | - | 10-09 | 32 | 1.3 |
| DYNAGRO - V39N9RR | 50.7 | 43.7 | 47.2 | 10-10 | 31 | 1.0 |
| S.STATES - SS3911NR2 | 50.3 | - | - | 10-07 | 32 | 1.0 |
| HUBNER SEED - H36-12R2 | 50.3 | - | - | 10-03 | 32 | 1.0 |
| HISOY - HS38A02 | 49.7 | - | - | 10-09 | 30 | 1.0 |
| DOEBLERS RPM - DB3509RR | 49.3 | - | - | 10-01 | 35 | 1.3 |
| MID ATLANTIC - MAS 3955RR | 47.7 | 44.2 | 46.0 | 10-11 | 31 | 1.0 |
| MID ATLANTIC - MAS 3781NRR | 46.1 | 48.3 | 47.2 | 10-04 | 32 | 1.3 |
| Mean | 52.2 | 43.2 | 47.7 | - | 32 | 1.4 |
| LSD 0.20 | ns | 4.3 | - | - | 2 | 0.4 |
| CV, % | 9.4 | 9.2 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | |
| S.STATES - RT4470N/STS | 66.4 | 49.5 | 58.0 | 10-20 | 29 | 1.5 |
| S.STATES - SS4510NR2 | 65.9 | 40.0 | 53.0 | 10-21 | 41 | 2.5 |
| DYNAGRO - 35X43 | 65.3 | 44.5 | 54.9 | 10-20 | 37 | 2.8 |
| USG - 74K01R | 64.4 | - | - | 10-20 | 34 | 2.2 |
| USG - 74B58 | 61.7 | 48.0 | 54.9 | 10-18 | 28 | 2.0 |
| TA SEEDS - TS4129R2 | 60.9 | - | - | 10-19 | 34 | 1.7 |
| HISOY - HS41A02 | 60.4 | 44.3 | 52.4 | 10-19 | 37 | 2.0 |
| DYNAGRO - 39RY43 | 59.0 | - | - | 10-18 | 34 | 1.7 |
| MID ATLANTIC - MAS 4077NRR/STS | 59.0 | - | - | 10-19 | 34 | 2.5 |
| USG - 74D41R | 58.1 | - | - | 10-21 | 29 | 1.5 |
| S.STATES - RT4370N | 58.0 | 47.3 | 52.7 | 10-19 | 38 | 2.7 |
| S.STATES - EXP4312NR2 | 58.0 | - | - | 10-20 | 33 | 1.5 |
| HISOY - HS42T80 | 58.0 | 49.0 | 53.5 | 10-13 | 32 | 1.8 |
| HUBNER SEED - H418NRR/STS | 57.5 | - | - | 10-14 | 34 | 2.2 |
| USG - 74K11R | 57.5 | - | - | 10-19 | 36 | 2.8 |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|-------------------------------|-------------------------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| | MATURITY GROUP 4 (Continued) | | | | | |
| DOEBLERS RPM - DB4510RR | 56.8 | - | - | 10-21 | 40 | 3.2 |
| MID ATLANTIC - MAS 4399RR/STS | 56.7 | 40.0 | 48.4 | 10-19 | 36 | 2.7 |
| MID ATLANTIC - MAS 4504NRRII | 54.2 | - | - | 10-22 | 34 | 2.2 |
| TA SEEDS - TS4299RS | 54.1 | 46.7 | 50.4 | 10-15 | 32 | 1.3 |
| Mean | 59.8 | 45.1 | 52.5 | - | 34 | 2.2 |
| LSD 0.20 | 5.4 | 3.8 | - | - | 3 | 0.6 |
| CV, % | 8.5 | 7.9 | - | - | - | - |
| MATURITY GROUP 4s | | | | | | |
| MID ATLANTIC - MAS 4605NRR | 63.5 | - | - | 10-25 | 37 | 2.0 |
| S.STATES - SS4700R2 | 63.4 | 42.2 | 52.8 | 10-27 | 36 | 2.0 |
| HUBNER SEED - H46-01R2/STS | 61.4 | - | - | 10-21 | 31 | 1.0 |
| USG - 74A79R | 61.2 | - | - | 10-28 | 35 | 1.7 |
| USG - 74H81 | 60.2 | - | - | 10-24 | 37 | 1.7 |
| HISOY - HS47R90 | 59.1 | - | - | 10-28 | 37 | 1.7 |
| S.STATES - RT4808N | 58.4 | 42.2 | 50.3 | 10-25 | 40 | 2.0 |
| MID ATLANTIC - MAS 4666NRR | 58.4 | - | - | 10-28 | 37 | 1.7 |
| USG - 74B81R | 57.2 | - | - | 10-28 | 40 | 2.0 |
| USG - 74F96 | 56.7 | 40.1 | 48.4 | 10-28 | 38 | 3.0 |
| S.STATES - RT4996N | 56.1 | 33.4 | 44.8 | 10-26 | 40 | 3.0 |
| S.STATES - SS4711NR2 | 55.5 | - | - | 10-28 | 40 | 1.7 |
| DYNAGRO - 37RY47 | 54.7 | 48.1 | 51.4 | 10-23 | 33 | 1.3 |
| HISOY - HS476 | 54.2 | - | - | 10-22 | 33 | 1.0 |
| USG - 74A69R | 50.7 | 46.9 | 48.8 | 10-23 | 32 | 1.3 |
| USG - 74E88 | 49.7 | 42.2 | 46.0 | 10-20 | 39 | 1.3 |
| DYNAGRO - 39D48 | 49.0 | - | - | 10-20 | 36 | 1.3 |
| Mean | 57.0 | 40.7 | 48.9 | - | 37 | 1.7 |
| LSD 0.20 | 6.6 | 4.1 | - | - | 3 | 0.5 |
| CV, % | 10.8 | 9.3 | - | - | - | - |
| MATURITY GROUP 5 | | | | | | |
| HUBNER SEED - H53-12R2 | 60.3 | - | - | 10-28 | 35 | 1.7 |
| S.STATES - RT5160N | 59.4 | - | - | 10-29 | 37 | 3.0 |
| USG - 75M16 | 58.1 | 24.0 | 41.1 | 10-29 | 38 | 2.7 |
| USG - 75T18 | 55.6 | 26.3 | 41.0 | 10-27 | 36 | 4.0 |
| HUBNER SEED - H52-12R2 | 54.0 | - | - | 10-25 | 35 | 2.0 |
| DOEBLERS RPM - DB5511RS | 53.5 | - | - | 10-30 | 36 | 2.0 |
| TA SEEDS - TS5029R2 | 52.7 | - | - | 10-26 | 37 | 1.7 |
| Mean | 56.2 | 26.4 | 41.3 | - | 36 | 2.4 |
| LSD 0.20 | ns | 4.5 | - | - | ns | 0.7 |
| CV, % | 8.9 | 14.4 | - | - | - | - |

*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 | | | 2011 | | | |
|--------------------------------|-------------------------|-------------|-------------|---------------|----------------|----------------|------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* | |
| | MATURITY GROUP 3 | | | | | | |
| MID ATLANTIC - MAS 3781NRR | 56.7 | 34.0 | 45.4 | 10-19 | 26 | 1.0 | |
| MID ATLANTIC - MAS 3701NRRII | 56.5 | - | - | 10-20 | 27 | 1.3 | |
| MID ATLANTIC - MAS 3955RR | 55.6 | 35.8 | 45.7 | 10-21 | 26 | 1.0 | |
| TA SEEDS - TS3829R2 | 55.6 | - | - | 10-19 | 30 | 1.7 | |
| USG - 73H77 | 55.0 | 37.2 | 46.1 | 10-19 | 29 | 1.7 | |
| DOEBLERS RPM - DB3809RR | 54.9 | 38.1 | 46.5 | 10-17 | 27 | 1.0 | |
| DYNAGRO - 37RY39 | 54.6 | 35.9 | 45.3 | 10-17 | 29 | 1.7 | |
| HUBNER SEED - H39-12R2 | 54.1 | - | - | 10-19 | 25 | 1.3 | |
| MID ATLANTIC - MAS 3511RRII | 54.0 | 41.8 | 47.9 | 10-21 | 30 | 1.0 | |
| DYNAGRO - 36RY38 | 53.9 | - | - | 10-19 | 27 | 1.0 | |
| S.STATES - EXP3712NR2 | 53.7 | - | - | 10-20 | 26 | 1.7 | |
| HUBNER SEED - H36-12R2 | 53.4 | - | - | 10-20 | 26 | 1.3 | |
| S.STATES - SS3811NR2 | 52.9 | - | - | 10-22 | 30 | 1.2 | |
| DYNAGRO - V39N9RR | 52.7 | 39.2 | 46.0 | 10-22 | 27 | 1.0 | |
| HISOY - HS39A03 | 52.0 | - | - | 10-22 | 25 | 1.0 | |
| HISOY - HS38A02 | 51.5 | - | - | 10-20 | 23 | 1.3 | |
| TA SEEDS - TS3989RS | 50.5 | 39.8 | 45.2 | 10-22 | 30 | 2.0 | |
| MID ATLANTIC - MAS 3802NRR | 50.1 | - | - | 10-21 | 29 | 1.7 | |
| S.STATES - SS3911NR2 | 50.0 | - | - | 10-18 | 28 | 1.0 | |
| DOEBLERS RPM - DB3509RR | 46.1 | - | - | 10-17 | 25 | 1.0 | |
| S.STATES - SS3910NR2 | 45.3 | 35.8 | 40.6 | 10-20 | 28 | 1.0 | |
| MID ATLANTIC - MAS 3599RR | 43.5 | - | - | 10-20 | 26 | 1.0 | |
| S.STATES - RT3971N | 40.2 | 33.9 | 37.1 | 10-19 | 27 | 1.0 | |
| | Mean | 51.7 | 37.5 | 44.6 | - | 27 | 1.2 |
| | LSD 0.20 | 5.8 | 3.6 | - | - | 3 | 0.4 |
| | CV, % | 10.6 | 9.1 | - | - | - | - |
| MATURITY GROUP 4 | | | | | | | |
| USG - 74D41R | 64.4 | - | - | 10-25 | 29 | 1.0 | |
| MID ATLANTIC - MAS 4504NRRII | 60.1 | - | - | 10-27 | 37 | 1.0 | |
| TA SEEDS - TS4129R2 | 59.6 | - | - | 10-24 | 32 | 1.3 | |
| S.STATES - EXP4312NR2 | 59.4 | - | - | 10-25 | 27 | 1.0 | |
| USG - 74K11R | 57.6 | - | - | 10-23 | 32 | 1.3 | |
| USG - 74K01R | 57.6 | - | - | 10-25 | 32 | 1.0 | |
| TA SEEDS - TS4299RS | 57.6 | 39.2 | 48.4 | 10-23 | 30 | 1.0 | |
| S.STATES - SS4510NR2 | 57.0 | 38.0 | 47.5 | 10-24 | 31 | 1.0 | |
| MID ATLANTIC - MAS 4399RR/STS | 55.7 | 33.5 | 44.6 | 10-26 | 30 | 1.0 | |
| HISOY - HS42T80 | 54.7 | 35.6 | 45.2 | 10-22 | 30 | 1.0 | |
| HUBNER SEED - H418NRR/STS | 54.6 | - | - | 10-22 | 31 | 1.0 | |
| DYNAGRO - 35X43 | 53.5 | 36.3 | 44.9 | 10-25 | 26 | 1.0 | |
| DYNAGRO - 39RY43 | 53.1 | - | - | 10-23 | 26 | 1.0 | |
| USG - 74B58 | 53.1 | 38.1 | 45.6 | 10-22 | 28 | 1.0 | |
| MID ATLANTIC - MAS 4077NRR/STS | 53.0 | - | - | 10-24 | 29 | 1.0 | |

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

| Brand - Entry | Seed Yield, Bu/A | | | 2011 | | |
|-------------------------------------|------------------|-------------|-------------|---------------|----------------|----------------|
| | 2011 | 2010 | 2-Year | Maturity Date | Height, Inches | Lodging Score* |
| MATURITY GROUP 4 (Continued) | | | | | | |
| S.STATES - RT4470N/STS | 52.3 | 40.5 | 46.4 | 10-24 | 25 | 1.0 |
| HISOY - HS41A02 | 51.5 | 32.3 | 41.9 | 10-25 | 33 | 1.0 |
| S.STATES - RT4370N | 51.5 | 32.7 | 42.1 | 10-23 | 30 | 1.3 |
| DOEBLERS RPM - DB4510RR | 49.0 | - | - | 10-24 | 31 | 1.0 |
| Mean | 55.4 | 36.2 | 45.8 | - | 30 | 1.1 |
| LSD 0.20 | 5.1 | 4.1 | - | - | 3 | ns |
| CV, % | 8.7 | 10.5 | - | - | - | - |
| MATURITY GROUP 4s | | | | | | |
| HUBNER SEED - H46-01R2/STS | 63.3 | - | - | 10-26 | 27 | 1.0 |
| HISOY - HS476 | 62.5 | - | - | 10-26 | 27 | 1.0 |
| USG - 74A79R | 61.1 | - | - | 10-26 | 27 | 1.0 |
| DYNAGRO - 37RY47 | 60.2 | 33.7 | 47.0 | 10-27 | 28 | 1.0 |
| USG - 74H81 | 60.0 | - | - | 10-25 | 31 | 1.0 |
| USG - 74A69R | 59.4 | 33.8 | 46.6 | 10-25 | 27 | 1.0 |
| USG - 74B81R | 59.2 | - | - | 10-25 | 28 | 1.0 |
| S.STATES - SS4700R2 | 59.1 | 31.2 | 45.2 | 10-27 | 30 | 1.0 |
| MID ATLANTIC - MAS 4605NRR | 57.8 | - | - | 10-25 | 30 | 1.0 |
| S.STATES - RT4808N | 57.1 | 32.2 | 44.7 | 10-25 | 32 | 1.0 |
| DYNAGRO - 39D48 | 56.0 | - | - | 10-24 | 32 | 1.0 |
| HISOY - HS47R90 | 55.2 | - | - | 10-26 | 29 | 1.0 |
| MID ATLANTIC - MAS 4666NRR | 54.9 | - | - | 10-25 | 30 | 1.0 |
| USG - 74F96 | 54.2 | 37.1 | 45.7 | 10-30 | 33 | 1.0 |
| S.STATES - SS4711NR2 | 52.9 | - | - | 10-26 | 32 | 1.0 |
| S.STATES - RT4996N | 51.6 | 30.3 | 41.0 | 10-25 | 30 | 1.0 |
| USG - 74E88 | 49.6 | 33.7 | 41.7 | 10-24 | 26 | 1.0 |
| Mean | 57.3 | 33.0 | 45.2 | - | 29 | 1.0 |
| LSD 0.20 | 5.9 | 2.6 | - | - | 3 | ns |
| CV, % | 9.7 | 7.3 | - | - | - | - |
| MATURITY GROUP 5 | | | | | | |
| HUBNER SEED - H53-12R2 | 59.2 | - | - | 11-03 | 35 | 1.7 |
| HUBNER SEED - H52-12R2 | 57.9 | - | - | 11-03 | 33 | 2.0 |
| DOEBLERS RPM - DB5511RS | 57.8 | - | - | 11-05 | 34 | 2.0 |
| USG - 75M16 | 57.3 | 33.2 | 45.3 | 11-03 | 37 | 1.7 |
| TA SEEDS - TS5029R2 | 53.7 | - | - | 11-03 | 38 | 1.7 |
| USG - 75T18 | 52.6 | 34.1 | 43.4 | 11-02 | 38 | 5.0 |
| S.STATES - RT5160N | 52.4 | - | - | 11-02 | 30 | 1.3 |
| Mean | 55.8 | 33.9 | 44.9 | - | 35 | 2.2 |
| LSD 0.20 | ns | ns | - | - | 4 | 0.8 |
| CV, % | 7.9 | 8.1 | - | - | - | - |

*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 2011.

| Brand - Entry | Keedys-ville | Clarks-ville | Queenstown | | Quantic | |
|----------------------------------|--------------|--------------|-------------|-------------|---------------|-------------|
| | | | FS | DC | FS | DC |
| MATURITY GROUP 3 | | | | | | |
| DOEBLERS RPM - DB3509RR | 107* | 87 | 99 | 97 | 94 | 89 |
| DOEBLERS RPM - DB3809RR | 95 | 104* | 98 | 103 | 101 | 106* |
| DYNAGRO - 36RY38 | 96 | 97 | 90 | 96 | 102 | 104* |
| DYNAGRO - 37RY39 | 100 | 105* | 106* | 109* | 104 | 106* |
| DYNAGRO - V39N9RR | 91 | 114* | 101 | 102 | 97 | 102* |
| HISOY - HS38A02 | 98 | 92 | 112* | 104* | 95 | 100* |
| HISOY - HS39A03 | 95 | 109* | 107* | 103 | 104 | 101* |
| HUBNER SEED - H36-12R2 | 104* | 111* | 99 | 86 | 96 | 103* |
| HUBNER SEED - H39-12R2 | 105* | 100 | 106* | 104* | 98 | 105* |
| MID ATLANTIC - MAS 3511RRII | 102* | 112* | 98 | 100 | 108 | 104* |
| MID ATLANTIC - MAS 3599RR | 87 | 94 | 96 | 91 | 107 | 84 |
| MID ATLANTIC - MAS 3701NRRII | 87 | 114* | 98 | 108* | 106 | 109* |
| MID ATLANTIC - MAS 3781NRR | 101* | 96 | 86 | 94 | 88 | 110* |
| MID ATLANTIC - MAS 3802NRR | 107* | 100 | 102* | 111* | 98 | 97 |
| MID ATLANTIC - MAS 3955RR | 91 | 105* | 114* | 104* | 91 | 108* |
| S.STATES - EXP3712NR2 | 111* | 93 | 88 | 96 | 102 | 104* |
| S.STATES - SS3811NR2 | 101 | 102* | 98 | 95 | 99 | 102* |
| S.STATES - SS3910NR2 | 106* | 100 | 102* | 95 | 113* | 88 |
| S.STATES - SS3911NR2 | 103* | 91 | 106* | 95 | 96 | 97 |
| S.STATES - RT3971N | 100 | 87 | 86 | 99 | 100 | 78 |
| TA SEEDS - TS3829R2 | 106* | 98 | 94 | 99 | 108 | 108* |
| TA SEEDS - TS3989RS | 108* | 101 | 102 | 107* | 101 | 98 |
| USG - 73H77 | 110* | 96 | 105* | 107* | 98 | 106* |
| Location/Group Mean Yield | 49.9 | 51.2 | 52.3 | 52.7 | 52.2ns | 51.7 |
| MATURITY GROUP 4 | | | | | | |
| DOEBLERS RPM - DB4510RR | 111* | 101 | 93 | 114* | 95 | 88 |
| DYNAGRO - 35X43 | 105* | 102 | 102* | 101 | 109* | 97 |
| DYNAGRO - 39RY43 | 100 | 95 | 105* | 108* | 99 | 96 |
| HISOY - HS41A02 | 103* | 96 | 100 | 95 | 101 | 93 |
| HISOY - HS42T80 | 93 | 100 | 92 | 103 | 97 | 99 |
| HUBNER SEED - H418NRR/STS | 98 | 96 | 93 | 95 | 96 | 99 |
| USG - 74D41R | 109* | 107* | 108* | 112* | 97 | 116* |
| MID ATLANTIC - MAS 4077NRR/STS | 92 | 93 | 101 | 87 | 99 | 96 |
| MID ATLANTIC - MAS 4504NRRII | 93 | 89 | 99 | 101 | 91 | 109* |
| MID ATLANTIC - MAS 4399RR/STS | 94 | 94 | 104* | 104 | 95 | 101 |
| S.STATES - EXP4312NR2 | 102 | 108* | 102* | 105 | 97 | 107* |
| S.STATES - RT4370N | 91 | 98 | 106* | 93 | 97 | 93 |
| S.STATES - RT4470N/STS | 103* | 113* | 107* | 98 | 111* | 94 |
| S.STATES - SS4510NR2 | 107* | 108* | 103* | 109* | 110* | 103 |
| TA SEEDS - TS4129R2 | 97 | 92 | 81 | 93 | 102 | 108* |

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

| Brand - Entry | Keedys- ville | Clarks- ville | Queenstown | | Quantic | |
|-------------------------------------|------------------|------------------|-------------|-------------|---------------|---------------|
| | | | FS | DC | FS | DC |
| MATURITY GROUP 4 (Continued) | | | | | | |
| TA SEEDS - TS4299RS | 95 | 102 | 90 | 91 | 90 | 104 |
| USG - 74K01R | 103 | 83 | 98 | 95 | 108* | 104 |
| USG - 74K11R | 101 | 104 | 102* | 93 | 96 | 104 |
| USG - 74B58 | 101 | 110* | 105* | 109* | 103* | 96 |
| Location/Group Mean Yield | 61.1 | 56.0 | 57.1 | 52.5 | 59.8 | 55.4 |
| MATURITY GROUP 4s | | | | | | |
| DYNAGRO - 37RY47 | 103* | 107* | 100 | 104* | 96 | 105* |
| DYNAGRO - 39D48 | 106* | 97 | 99 | 103* | 86 | 98 |
| HISOY - HS476 | 91 | 99 | 93 | 102* | 95 | 109* |
| HISOY - HS47R90 | 102* | 102* | 95 | 98 | 104* | 96 |
| HUBNER SEED - H46-01R2/STS | 107* | 103* | 97 | 104* | 108* | 110* |
| MID ATLANTIC - MAS 4605NRR | 91 | 101* | 104* | 99 | 111* | 101* |
| MID ATLANTIC - MAS 4666NRR | 98 | 100 | 97 | 91 | 103* | 96 |
| S.STATES - SS4700R2 | 109* | 104* | 111* | 105* | 111* | 103* |
| S.STATES - SS4711NR2 | 106* | 91 | 92 | 103* | 97 | 92 |
| S.STATES - RT4808N | 92 | 105* | 102 | 101 | 103* | 100 |
| S.STATES - RT4996N | 101 | 95 | 107* | 98 | 98 | 90 |
| USG - 74A69R | 108* | 108* | 102 | 96 | 89 | 104* |
| USG - 74A79R | 104* | 107* | 104* | 108* | 107* | 107* |
| USG - 74B81R | 94 | 101* | 92 | 99 | 100* | 103* |
| USG - 74E88 | 95 | 84 | 98 | 92 | 87 | 87 |
| USG - 74F96 | 93 | 98 | 108* | 97 | 99 | 95 |
| USG - 74H81 | 100 | 100 | 101 | 103* | 106* | 105* |
| Location/Group Mean Yield | 56.2 | 54.1 | 56.1 | 51.7 | 57.0 | 57.3 |
| MATURITY GROUP 5 | | | | | | |
| DOEBLERS RPM - DB5511RS | - | - | 97 | 94 | 95 | 104 |
| HUBNER SEED - H52-12R2 | - | - | 103* | 100 | 96 | 104 |
| HUBNER SEED - H53-12R2 | - | - | 100 | 115* | 107* | 106* |
| S.STATES - RT5160N | - | - | 105* | 102 | 106 | 94 |
| TA SEEDS - TS5029R2 | - | - | 99 | 95 | 94 | 96 |
| USG - 75M16 | - | - | 102* | 100 | 103 | 103 |
| USG - 75T18 | - | - | 93 | 93 | 99 | 94 |
| Location/Group Mean Yield | - | - | 51.7 | 47.0 | 56.2ns | 55.8ns |

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 the 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.