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**2011 NEW YORK STATE SOYBEAN  
VARIETY YIELD TESTS**

**William J. Cox and Phil Atkins– Dep. of Crop and Soil Sciences**

College of Agriculture and Life Sciences  
Cornell University  
Ithaca, NY 14853

# NY SOYBEAN VARIETY YIELD TESTS IN 2011

## Introduction

The annual testing of soybean varieties was conducted at three locations in New York in 2011. Roundup Ready varieties in Maturity Groups 0, I and II were planted at the Aurora Research Farm in Cayuga Co., Neenan Brothers Farm in Lima in Livingston Co., and the Ron Robbins' farm in Sackets Harbor in Jefferson Co. The Aurora and Lima sites, which are in central/western NY, average about 2450 growing degree days (GDD, 86-50° system) from May through September; whereas the Sackets Harbor site in Northern NY averages about 2200 GDD. All seed companies that are known to be distributing soybeans in New York were invited to enter their selections in the tests for a fee. The seed companies chose either two or three sites to test their varieties.

The April-May period was the wettest ever recorded in upstate NY so only 14% of the soybean crop was planted in May. We planted Group 0, I and Group II entries in separate tests at Aurora on 13 May; Group 0/I and Group II in separate tests at Sackets Harbor on 3 June; and Group 0/I and Group II in separate tests at Lima on 6 June. Each individual plot at all sites consisted of ten 20-ft. rows spaced 7 inches apart. Each entry was planted with small plot drill (6 foot wide Almaco) at seeding rates of 200,000 seeds/acre with four replications at each site. A randomized complete block experimental design was used for all tests. We used 22 fluid oz/acre of Roundup Touchdown about 5 weeks after planting for weed control at all sites. Aphid numbers and white mold was low throughout

the year at all sites. All varieties at all sites were monitored for phenological development beginning in late August and early September.

Yields were determined by harvesting an 18-foot section of the seven center rows (4.08 feet) of each plot at all sites with a small plot combine (Hege 140C). Plant height and lodging scores (1.0-5.0 rating with 1.0=no lodging and 5.0=complete lodging) were taken at harvest. The Group 0 and Group I tests were harvested at Aurora on 26 September and the Group II test on 27 September. The Group 0/I and II tests were harvested at Lima on 11 October. The Group 0/I and II tests were harvested at Sackets Harbor on 12 October. The Hege plot combine does not have weighing capabilities so the entire plot sample was taken to the lab to determine plot weight and then sub-sampled to determine moisture. All yields were adjusted to 13% moisture. We used the ANOVA test to determine significance for yield, seed moisture, lodging score, and height. All means were separated by Fisher's protected LSD (0.05) when significance occurred. **We have bolded those varieties were entered and performed well at the droughty Aurora site, the warm Lima site, and the cooler Sackets Harbor site.**

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## RESULTS AND DISCUSSION

### Growing Conditions

After the wettest April-May period on record at many locations in upstate NY, weather conditions turned exceedingly dry and warm in June and July (Table 1). It was 2<sup>nd</sup> driest and 3<sup>rd</sup> warmest July as well as the 6<sup>th</sup> driest and 5<sup>th</sup> warmest June through August 22<sup>nd</sup> period in 55 years of records at Aurora. Because we planted the Aurora site on 13 May and very warm conditions ensued for the remainder of the growing season, the Group 0 varieties attained the R7.0 stage (physiological maturity) by 28 August; most Group I varieties attained the R7.0 stage by 1 September, and Group II varieties attained the R7.0 stage between 7 and 12 September at Aurora. Consequently, soybeans in all maturity groups suffered some drought and heat stress during all or part of their pod-filling period in August, especially the Group 0 varieties as indicated by their average yield of 33 bushels/acre compared with 37 bushels/acre for Group I entries and 38 bushels/acre for Group II entries (Tables 2, 3, and 4).

At Avon (closest weather station to Lima), it was the warmest growing season (May through September) over the last 30 years and second driest July on record. Fortunately, it was the 13<sup>th</sup> wettest August through September at Avon, so the June 6<sup>th</sup> planted soybean trials did not experience stress during the pod-filling period. At Watertown (closest weather station to Sackets Harbor), it was the 5<sup>th</sup> warmest June through September on record. Although it was the 7<sup>th</sup> warmest August through September period, it was also the 3<sup>rd</sup> wettest August

through September period so the June 3<sup>rd</sup> planted soybean trials did not experience stress during the pod-filling period. At the Lima site, Group 0/I varieties averaged 58 bushels/acre and Group II varieties averaged 59 bushels/acre (Tables 5 and 6). At the Sackets Harbor site, Group 0/I varieties yielded 56 bushels/acre and Group II varieties yielded 53 bushels/acre (Tables 7 and 8). A light frost occurred at the Sackets Harbor site on 6 October when some late Group II varieties were in the R6.0- 6.5 stage (leaves turning yellow), which probably reduced their yield and delayed dry-down.

### **Lodging and Harvest Moisture**

Lodging was not observed at the Aurora site (Tables 2, 3, and 4) because of the short stature of the varieties, associated with the drought. Lodging was minimal at Sackets Harbor with only slight lodging observed in a few Group II varieties (Tables 7 and 8). Some lodging was observed in both tests at the Lima site (Tables 5 and 6) with some varieties showing significant lodging in the Group II tests. Most varieties at Aurora and Lima and Group I varieties at Sackets Harbor were within a couple points of 13% moisture at harvest with average moistures of 13.7, 13.7 and 14.4% for Group 0, I, and II Maturity Groups at Aurora, respectively (Group II varieties harvested a day later). At Lima, Group I varieties averaged 12.7% moisture (harvested between 11:00 and 1:00) and Group II varieties averaged 13.7% (harvested between 1:00 and 3:00). At Sackets Harbor, Group I varieties averaged 13.0% moisture but Group II varieties

averaged 17.2% probably because the light frost delayed dry-down of some of the varieties that still had yellow leaves (R6.5 stage).

### Yield

The sole Group 0 entry in the Group I tests at Lima and Sackets Harbor sites generally yielded low because their pod-filling period coincided with dry and warm conditions more than the Group I or II entries. There was no significant yield difference between 0905R2 from Channel Bio and S09-06 at the Aurora site where both were entered (Table 2).

When averaged across the Aurora and Lima sites, S17-F3 from Syngenta yielded much above-average and the highest in the Group I test, followed closely by HS 19A02 and HS 19A11 from Growmark FS (Tables 3 and 5). **In addition, both HS 19A02 and HS 19A11 yielded much above-average at Sackets Harbor (Table 7) so these varieties had the highest average yield of all varieties entered at three sites.** The variety, 1805R2 from Channel Bio, also had much above-average yield when averaged across Aurora and Sackets Harbor. **Other varieties that yielded above-average across the three sites include H16-10R2 from Hubner Seed, AG1832 and AG1931 from Asgrow, 1719R2 from T.A. Seeds, HS 17A12 from Growmark FS, and RPM DB1711RR from Doeblers.** In addition, S19-A6 from Syngenta had above-average yield when averaged across the Aurora and Lima sites. Other varieties that performed much-above average at individual sites include SG1911 from

Seedway (highest yield at Lima), AG1831 from Asgrow (Lima), and AG1031 from Asgrow (highest yield at Sackets Harbor and above-average yield at Lima),

**When averaged across three sites, AG 2232 and AG2031 from Asgrow had much above-average and the highest yield in the Group II tests (Tables 4, 6, and 8).** When averaged across two sites (Aurora and Lima), S21-N6 and S20-Y2 from Syngenta had much above-average yield. **Other Group II varieties that yielded above-average at three sites include AG2430 from Asgrow, SG2410 from Seedway, H20-12R2 from Hubner Seed, and SG2111 from Seedway.**

Also, 34Y27 from Dyna-Gro and 2400R2 from Channel Bio had above-average yield across two sites (Aurora and Lima). Other varieties that had much-above average yield at individual sites include AG2431 (highest yield at Aurora), 2229R2 from T.A. Seeds (much-above average at Lima and Sackets Harbor), V25N9RR from Dyna-Gro (above-average at Aurora and Lima), HS 27A14 from Growmark FS ((Aurora), 2800R2 from Channel Bio (Lima), S24-M4 from Syngenta (Lima), V278RR from Dyna-Gro (Lima), 2599R2 from T.A. Seeds (Lima), SG2018 from Seedway (much above-average at Sackets Harbor), and 38RY23 from Dyna-Gro (much above-average at Sackets Harbor).

## **CONCLUSION**

Soybean acreage was similar in New York in 2011 as in 2010 with about 280,000 harvested acres with a projected yield of 43 bushels/acre compared with 48 bushels/acre in 2011, the state record. Given that only 14% of the crop was planted in May (and only 43% of the corn crop), the acreage and yield are quite impressive in the challenging 2011 growing season. If the current price remains above \$11/ bushel, we expect soybean acreage in New York to increase next year. We invite all seed companies to enter their varieties at a modest fee in our New York soybean variety testing program. We wish to provide the ever-increasing number of NY soybean growers the best information on variety selection for New York growing conditions so we ask the seed companies to continue entering their best varieties and their promising new varieties for the 2012 tests. We appreciate your support in 2011!



Table 1. Monthly precipitation and growing degree days (GDD) at Aurora, Lima (Avon weather data), and Sackets Harbor (Watertown weather data) testing sites during the 2011 growing season.

| Month           | Precipitation |              |                  | GDD (86-50 F) |             |                  |
|-----------------|---------------|--------------|------------------|---------------|-------------|------------------|
|                 | Aurora        | Lima*        | Sackets Harbor** | Aurora        | Lima*       | Sackets Harbor** |
| May             | 3.56          | -            | -                | 334           | -           | -                |
| June            | 2.78          | 3.28         | 2.85             | 508           | 549         | 467              |
| July            | 0.85          | 0.74         | 1.77             | 702           | 711         | 676              |
| August          | 4.82          | 4.64         | 6.38             | 583           | 607         | 594              |
| Sept.           | 5.87          | 2.77         | 4.98             | 441           | 444         | 396              |
| <b>Seasonal</b> | <b>17.88</b>  | <b>11.43</b> | <b>15.98</b>     | <b>2568</b>   | <b>2311</b> | <b>2133</b>      |

\* Lima data is from Avon weather station  
 \*\* Sackets Harbor data is from Watertown

Table 2. Yield, seed moisture, lodging score, and height of Group 0 Roundup Ready soybean varieties harvested at Aurora, NY on 26 September, 2011.

| COMPANY/BRAND   | VARIETY | YIELD        | MOISTURE    | LODGING           | HEIGHT    |
|-----------------|---------|--------------|-------------|-------------------|-----------|
|                 |         | <u>bu/ac</u> | <u>%</u>    | <u>1-5 rating</u> | <u>cm</u> |
| Channel Bio     | 0905R2  | 34.6         | 13.0        | 1.0               | 73        |
| Syngenta        | S09-N6  | 32.1         | 14.2        | 1.0               | 60        |
| <b>Avg.</b>     |         | <b>33</b>    | <b>13.7</b> | <b>1.0</b>        | <b>67</b> |
| <b>LSD 0.05</b> |         | <b>NS</b>    | <b>1.0</b>  | <b>NS</b>         | <b>4</b>  |

Table 3. Yield, seed moisture, lodging score, and height of Group I Roundup Ready soybean varieties harvested at Aurora, NY on 26 September, 2011.

| <b>COMPANY/BRAND</b> | <b>VARIETY</b> | <b>YIELD</b> | <b>MOISTURE</b> | <b>LODGING</b>    | <b>HEIGHT</b> |
|----------------------|----------------|--------------|-----------------|-------------------|---------------|
|                      |                | <u>bu/ac</u> | <u>%</u>        | <u>1-5 rating</u> | <u>cm</u>     |
| Syngenta             | S17-F3         | 46.1         | 13.8            | 1.0               | 68            |
| Growmark FS          | HS 19A02       | 44.9         | 14.9            | 1.0               | 63            |
| Growmark FS          | HS 19A11       | 41.8         | 13.1            | 1.0               | 54            |
| Asgrow               | AG1832         | 41.2         | 14.6            | 1.0               | 66            |
| Syngenta             | S19-A6         | 40.8         | 14.6            | 1.0               | 61            |
| T.A. Seeds           | 1719R2         | 40.8         | 13.8            | 1.0               | 61            |
| Growmark FS          | HS 17A12       | 39.5         | 14.4            | 1.0               | 59            |
| Asgrow               | AG1931         | 39.1         | 13.7            | 1.0               | 67            |
| Channel Bio          | 1805R2         | 39.0         | 13.5            | 1.0               | 64            |
| Hubner Seed          | H16-10R2       | 38.5         | 14.3            | 1.0               | 61            |
| Doebler's            | RPM DB1711RR   | 38.1         | 13.6            | 1.0               | 62            |
| Asgrow               | AG1831         | 35.7         | 14.2            | 1.0               | 62            |
| Dyna-Gro             | 34RY17         | 35.3         | 13.7            | 1.0               | 58            |
| Seedway              | SG1911         | 34.6         | 12.6            | 1.0               | 48            |
| Growmark FS          | HS13A11        | 33.6         | 12.7            | 1.0               | 53            |
| Syngenta             | S17-G8         | 33.3         | 13.7            | 1.0               | 54            |
| Asgrow               | AG1631         | 33.3         | 13.7            | 1.0               | 59            |
| Asgrow               | AG1431         | 32.8         | 13.7            | 1.0               | 62            |
| Seedway              | SG1311         | 32.5         | 12.1            | 1.0               | 56            |
| T.A. Seeds           | 1209R          | 32.2         | 14.1            | 1.0               | 57            |
| Seedway              | SG1711         | 30.0         | 12.8            | 1.0               | 55            |
| Asgrow               | AG1031         | 29.8         | 14.1            | 1.0               | 60            |
| <b>AVG.</b>          |                | <b>37</b>    | <b>13.7</b>     | <b>1.0</b>        | <b>61</b>     |
| <b>LSD 0.05</b>      |                | <b>7</b>     | <b>1.1</b>      | <b>NS</b>         | <b>5</b>      |

Table 4. Yield, seed moisture, lodging score, and height of Group II Roundup Ready soybean varieties harvested at Aurora, NY on 27 September, 2011.

| <b>COMPANY/BRAND</b> | <b>VARIETY</b> | <b>YIELD</b> | <b>MOISTURE</b> | <b>LODGING</b>    | <b>HEIGHT</b> |
|----------------------|----------------|--------------|-----------------|-------------------|---------------|
|                      |                | <u>bu/ac</u> | <u>%</u>        | <u>1-5 rating</u> | <u>cm</u>     |
| Asgrow               | AG2431         | 43.4         | 13.3            | 1.0               | 60            |
| Syngenta             | S21-N6         | 41.4         | 13.0            | 1.0               | 60            |
| Seedway              | SG2410         | 41.0         | 14.7            | 1.0               | 55            |
| Dyna-Gro             | V25N9RR        | 40.7         | 12.5            | 1.0               | 63            |
| Asgrow               | AG2430         | 40.5         | 13.7            | 1.0               | 60            |
| Dyna-Gro             | 34RY27         | 40.4         | 16.2            | 1.0               | 62            |
| Growmark FS          | HS 27A14       | 40.3         | 14.3            | 1.0               | 65            |
| Asgrow               | AG2232         | 39.2         | 12.4            | 1.0               | 62            |
| Growmark FS          | HS 21A12       | 38.8         | 13.1            | 1.0               | 61            |
| Syngenta             | S20-Y2         | 38.7         | 12.3            | 1.0               | 61            |
| Dyna-Gro             | 38RY23         | 38.3         | 13.7            | 1.0               | 56            |
| Asgrow               | AG2330         | 38.3         | 15.4            | 1.0               | 62            |
| Channel Bio          | 2300R2         | 37.3         | 13.5            | 1.0               | 62            |
| Doebler's            | RPM DB2511RR   | 37.1         | 14.7            | 1.0               | 52            |
| Seedway              | SG2018         | 37.1         | 14.2            | 1.0               | 55            |
| T.A. Seeds           | 2890R          | 36.7         | 19.3            | 1.0               | 64            |
| Channel Bio          | 2400R2         | 36.3         | 14.5            | 1.0               | 63            |
| Channel Bio          | 2200R2         | 35.9         | 13.1            | 1.0               | 56            |
| Hubner Seed          | H20-12R2       | 35.9         | 12.1            | 1.0               | 59            |
| Channel Bio          | 2305R2         | 35.8         | 12.8            | 1.0               | 57            |
| Asgrow               | AG2031         | 35.4         | 12.2            | 1.0               | 58            |
| Channel Bio          | 2800R2         | 35.3         | 18.1            | 1.0               | 70            |
| Seedway              | SG2111         | 35.3         | 15.1            | 1.0               | 59            |
| Syngenta             | S24-M4         | 34.9         | 13.4            | 1.0               | 50            |
| T.A. Seeds           | 2599R2         | 34.3         | 16.0            | 1.0               | 67            |
| Asgrow               | AG2532         | 34.3         | 13.9            | 1.0               | 55            |
| T.A. Seeds           | 2229R2         | 33.7         | 12.9            | 1.0               | 55            |
| Channel Bio          | 2903R2         | 32.8         | 19.1            | 1.0               | 57            |
| Dyna-Gro             | V278RR         | 32.8         | 17.9            | 1.0               | 62            |
| <b>AVG.</b>          |                | <b>38</b>    | <b>14.4</b>     | <b>1.0</b>        | <b>59</b>     |
| <b>LSD 0.05</b>      |                | <b>5</b>     | <b>1.0</b>      | <b>NS</b>         | <b>5</b>      |

Table 5. Yield, seed moisture, lodging score, and height of Group I Roundup Ready soybean varieties harvested at Lima, NY on 12 October, 2011.

| <b>COMPANY/BRAND</b> | <b>VARIETY</b> | <b>YIELD</b> | <b>MOISTURE</b> | <b>LODGING</b>    | <b>HEIGHT</b> |
|----------------------|----------------|--------------|-----------------|-------------------|---------------|
|                      |                | <u>bu/ac</u> | <u>%</u>        | <u>1-5 rating</u> | <u>cm</u>     |
| Seedway              | SG1911         | 62.3         | 12.5            | 1.4               | 87            |
| Growmark FS          | HS 19A11       | 61.9         | 13.0            | 1.3               | 88            |
| Asgrow               | AG1931         | 61.4         | 13.0            | 1.4               | 88            |
| Seedway              | SG1311         | 61.0         | 12.5            | 1.4               | 88            |
| Asgrow               | AG1831         | 61.0         | 13.1            | 1.6               | 95            |
| Seedway              | SG1711         | 60.1         | 12.5            | 1.3               | 78            |
| Hubner Seed          | H16-10R2       | 59.7         | 12.2            | 1.4               | 84            |
| T.A. Seeds           | 1719R2         | 59.7         | 12.8            | 1.2               | 80            |
| Asgrow               | AG1031         | 58.8         | 12.5            | 1.4               | 90            |
| Asgrow               | AG1431         | 58.3         | 12.3            | 1.4               | 82            |
| Growmark FS          | HS 19A02       | 58.3         | 12.9            | 1.4               | 83            |
| Asgrow               | AG1631         | 58.3         | 12.4            | 1.3               | 86            |
| Growmark FS          | HS 13A11       | 58.2         | 12.4            | 1.4               | 89            |
| Syngenta             | S17-F3         | 58.0         | 13.6            | 1.5               | 84            |
| Asgrow               | AG1832         | 57.1         | 13.8            | 1.7               | 95            |
| Doebler's            | RPM DB1711RR   | 56.4         | 12.4            | 1.5               | 83            |
| Growmark FS          | HS 17A12       | 55.8         | 12.6            | 1.2               | 79            |
| Syngenta             | S19-A6         | 55.0         | 14.0            | 1.5               | 94            |
| Hubner Seed          | H15-10R2       | 54.6         | 12.2            | 1.4               | 90            |
| T.A. Seeds           | 1209R          | 53.2         | 13.1            | 1.3               | 78            |
| Dyna-Gro             | 34RY17         | 51.3         | 13.2            | 1.3               | 81            |
| Syngenta             | S17-G8         | 50.7         | 12.5            | 1.4               | 82            |
| Syngenta             | S09-N6         | 50.4         | 12.4            | 1.3               | 80            |
| <b>AVG.</b>          |                | <b>58</b>    | <b>12.7</b>     | <b>1.4</b>        | <b>85</b>     |
| <b>LSD 0.05</b>      |                | <b>6</b>     | <b>0.8</b>      | <b>0.2</b>        | <b>6</b>      |

Table 6. Yield, seed moisture, lodging score, and height of Group II Roundup Ready soybean varieties harvested at Lima, NY on 12 October, 2011.

| <b>COMPANY/BRAND</b> | <b>VARIETY</b> | <b>YIELD</b> | <b>MOISTURE</b> | <b>LODGING</b>    | <b>HEIGHT</b> |
|----------------------|----------------|--------------|-----------------|-------------------|---------------|
|                      |                | <u>bu/ac</u> | <u>%</u>        | <u>1-5 rating</u> | <u>cm</u>     |
| Asgrow               | AG2232         | 63.7         | 13.3            | 1.7               | 101           |
| Syngenta             | S20-Y2         | 63.4         | 12.3            | 1.5               | 90            |
| Channel Bio          | 2400R2         | 63.1         | 13.2            | 1.3               | 89            |
| Channel Bio          | 2800R2         | 62.3         | 12.9            | 1.8               | 96            |
| Seedway              | SG2111         | 62.3         | 12.6            | 1.3               | 85            |
| Syngenta             | S24-M4         | 62.1         | 13.1            | 1.3               | 86            |
| T.A.Seeds            | 2229R2         | 61.9         | 12.6            | 1.4               | 88            |
| Growmark FS          | HS 21A12       | 61.9         | 13.3            | 1.7               | 97            |
| Asgrow               | AG2430         | 61.1         | 12.6            | 1.3               | 89            |
| Dyna-Gro             | V25N9RR        | 60.8         | 12.7            | 1.6               | 100           |
| Dyna-Gro             | V278RR         | 60.7         | 14.2            | 1.8               | 103           |
| Syngenta             | S21-N6         | 60.7         | 14.8            | 1.6               | 92            |
| Asgrow               | AG2031         | 60.5         | 11.8            | 1.2               | 86            |
| T.A. Seeds           | 2599R2         | 60.2         | 15.5            | 2.4               | 101           |
| Hubner Seed          | H20-12R2       | 60.1         | 12.3            | 1.3               | 86            |
| Seedway              | SG2410         | 59.6         | 14.9            | 1.7               | 107           |
| Asgrow               | AG2431         | 59.0         | 13.1            | 1.3               | 81            |
| Channel Bio          | 2305R2         | 59.0         | 13.1            | 1.5               | 85            |
| Asgrow               | AG2532         | 58.9         | 16.7            | 1.9               | 97            |
| Dyna-Gro             | 34RY27         | 58.5         | 15.8            | 1.7               | 98            |
| Asgrow               | AG2330         | 58.2         | 15.4            | 2.4               | 90            |
| Seedway              | SG2018         | 57.1         | 12.2            | 1.2               | 82            |
| Channel Bio          | 2300R2         | 56.9         | 12.3            | 1.3               | 87            |
| Doebler's            | RPM DB2511RR   | 55.3         | 13.7            | 1.5               | 88            |
| Dyna-Gro             | 38RY23         | 55.0         | 12.9            | 1.4               | 91            |
| T.A. Seeds           | 2890R          | 53.4         | 14.7            | 1.4               | 93            |
| Growmark FS          | HS 27A14       | 52.5         | 15.7            | 2.4               | 93            |
| Channel Bio          | 2903R2         | 52.3         | 15.5            | 2.4               | 95            |
| <b>AVG.</b>          |                | <b>59</b>    | <b>13.7</b>     | <b>1.7</b>        | <b>92</b>     |
| <b>LSD 0.05</b>      |                | <b>6</b>     | <b>1.1</b>      | <b>0.5</b>        | <b>12</b>     |

Table 7. Yield, seed moisture, lodging score, and height of Group I Roundup Ready soybean varieties harvested at Sackets Harbor, NY on 13 October, 2011.

| COMPANY/BRAND   | VARIETY      | YIELD        | MOISTURE    | LODGING           | HEIGHT    |
|-----------------|--------------|--------------|-------------|-------------------|-----------|
|                 |              | <u>bu/ac</u> | <u>%</u>    | <u>1-5 rating</u> | <u>cm</u> |
| Asgrow          | AG1031       | 62.3         | 12.7        | 1.0               | 69        |
| Growmark FS     | HS 19A02     | 60.3         | 12.8        | 1.0               | 72        |
| Channel Bio     | 1805R2       | 60.2         | 13.2        | 1.0               | 65        |
| Doebler's       | RPM DB1711RR | 60.0         | 12.4        | 1.0               | 68        |
| Growmark FS     | HS 19A11     | 59.3         | 13.1        | 1.0               | 62        |
| Hubner Seed     | H16-10R2     | 59.1         | 13.0        | 1.0               | 65        |
| Asgrow          | AG1832       | 56.7         | 13.2        | 1.1               | 72        |
| Asgrow          | AG1631       | 56.2         | 12.8        | 1.1               | 66        |
| Growmark FS     | HS 17A12     | 55.9         | 13.3        | 1.0               | 69        |
| Asgrow          | AG1431       | 55.2         | 12.5        | 1.0               | 69        |
| Seedway         | SG1711       | 54.9         | 13.0        | 1.0               | 67        |
| Seedway         | SG1911       | 54.5         | 12.9        | 1.0               | 65        |
| Asgrow          | AG1831       | 54.5         | 14.6        | 1.0               | 78        |
| Dyna-Gro        | 34RY17       | 54.4         | 13.4        | 1.0               | 65        |
| TA Seeds        | 1719R2       | 53.8         | 13.0        | 1.0               | 62        |
| Channel Bio     | 0905R2       | 53.6         | 11.9        | 1.0               | 70        |
| Asgrow          | AG1931       | 53.4         | 13.6        | 1.0               | 77        |
| Growmark FS     | HS 13A11     | 52.8         | 12.6        | 1.0               | 60        |
| Seedway         | SG1311       | 52.2         | 12.3        | 1.0               | 62        |
| TA Seeds        | 1209R        | 46.6         | 13.4        | 1.0               | 53        |
| <b>AVG.</b>     |              | <b>56</b>    | <b>13.0</b> | <b>1.0</b>        | <b>67</b> |
| <b>LSD 0.05</b> |              | <b>5</b>     | <b>0.61</b> | <b>NS</b>         | <b>6</b>  |

Table 8. Yield, seed moisture, lodging score, and height of Group II Roundup Ready soybean varieties harvested at Sackets Harbor, NY on 13 October, 2011.

| <b>COMPANY/BRAND</b> | <b>VARIETY</b> | <b>YIELD</b> | <b>MOISTURE</b> | <b>LODGING</b>    | <b>HEIGHT</b> |
|----------------------|----------------|--------------|-----------------|-------------------|---------------|
|                      |                | <u>bu/ac</u> | <u>%</u>        | <u>1-5 rating</u> | <u>cm</u>     |
| Asgrow               | AG2031         | 64.0         | 14.1            | 1.1               | 80            |
| Asgrow               | AG2232         | 62.2         | 17.2            | 1.1               | 86            |
| TA Seeds             | 2229R2         | 58.5         | 15.2            | 1.0               | 68            |
| Hubner Seed          | H20-12R2       | 58.4         | 13.7            | 1.0               | 70            |
| Seedway              | SG2018         | 58.3         | 13.7            | 1.0               | 81            |
| Seedway              | SG2111         | 57.5         | 14.0            | 1.0               | 73            |
| Dyna-Gro             | 38RY23         | 56.5         | 16.0            | 1.1               | 75            |
| Asgrow               | AG2430         | 56.2         | 15.2            | 1.0               | 78            |
| Growmark FS          | HS 21A12       | 54.3         | 15.7            | 1.0               | 71            |
| Seedway              | SG2410         | 54.1         | 19.0            | 1.2               | 87            |
| Growmark FS          | HS 27A14       | 53.9         | 18.7            | 1.3               | 86            |
| Channel Bio          | 2200R2         | 53.7         | 15.5            | 1.1               | 70            |
| Asgrow               | AG2330         | 53.4         | 18.6            | 1.1               | 76            |
| TA Seeds             | 2599R2         | 51.0         | 19.4            | 1.4               | 90            |
| Dyna-Gro             | V25N9RR        | 49.5         | 19.5            | 1.1               | 78            |
| Asgrow               | AG2431         | 43.2         | 19.7            | 1.1               | 72            |
| Doebler's            | RPM DB2511RR   | 42.6         | 18.9            | 1.1               | 70            |
| TA Seeds             | 2890R          | 41.1         | 19.9            | 1.2               | 86            |
| Asgrow               | AG2532         | 41.0         | 19.5            | 1.1               | 79            |
| <b>AVG.</b>          |                | <b>53</b>    | <b>17.2</b>     | <b>1.09</b>       | <b>78</b>     |
| <b>LSD 0.05</b>      |                | <b>5</b>     | <b>0.80</b>     | <b>0.21</b>       | <b>7</b>      |

