

Recommended Roundup Ready Soybean Varieties for Central/Western and Northern New York

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Crop Management

Soybean acreage in New York has averaged close to 300,000 over the last 5 years. If the present corn to soybean price ratio is maintained, NY acreage is projected to increase to 350,000 in 2014. Variety selection is the key management decision that affects soybean yield because soybeans require a limited number of other inputs. Growers should gather as much information as possible on variety selection because of its importance in optimizing profit for the 2014 growing season.

The varieties in Table 1 are recommended varieties for Central/Western New York, based on tests in Cayuga (Aurora Research Farm) and Livingston Co. (Neenan Brothers Farm in Lima). The varieties in Table 2 are recommended varieties for Northern New York, based on tests in Jefferson (Ron Robbins Farm in Sackets Harbor) and Clinton Co. (Miner Institute in Chazy). We recommend varieties that have relative yields, averaged across the two sites in each respective region, of more than 100% (100% relative yield equals the mean yield across the two sites).

Recommended varieties, which have been tested more than one year, have performed well over different growing seasons in NY so more consideration should be given to those varieties. When looking at relative yields in Tables 1 and 2, only compare relative yields of varieties within a Maturity Group within a region. Varieties that we refer to as “exceptional” or “varieties that performed exceptionally well” in the text had relative yields of 105 or above. Varieties that we refer to as “very good” or “varieties that performed well” in the text have relative yields of 101 to 104.

1805R2 from Channel, RPMDB1212 from Doebler's, SG1311 from Seedway, and HS 13A11 from GROWMARK FS. The 15 Group I varieties that were entered in the central/western NY tests in 2013 averaged 73 bushels/acre at Aurora and 66 bushels/acre at Lima.

Group II

When averaged across the Group II tests at Aurora and Lima over the last 2 years, exceptional varieties include HS 20A12 from GROWMARK FS and SG2013 from Seedway.

Table 1: Relative yields of recommended Group I and Group II Roundup Ready soybean varieties for central/western New York based on tests in Cayuga and Livingston Co. over the last few years

| Variety | Brand/Source | GROUP I VARIETIES | |
|-----------|--------------|---------------------------------|--------------|
| | | Relative Yield (%) ² | Yrs. in Test |
| S17-B3 | Syngenta | 109 | 3 |
| 5N180R2 | Mycogen | 107 | 2 |
| HS 15A11 | GROWMARK FS | 106 | 2 |
| 1805R2 | Channel | 104 | 3 |
| HS 19A11 | GROWMARK FS | 104 | 1 |
| RPMDB1212 | Doebler's | 103 | 3 |
| HS 13A11 | GROWMARK FS | 103 | 3 |
| SG1311 | Seedway | 102 | 2 |
| S14-J7 | Syngenta | 101 | 1 |
| | | GROUP II VARIETIES | |
| HS 20A12 | GROWMARK FS | 108 | 2 |
| 2105R2 | Channel | 106 | 1 |
| RPMDB2812 | Doebler's | 106 | 1 |
| SG2013 | Seedway | 105 | 2 |
| S24RY73 | Dyna-Gro | 104 | 1 |
| S22-S1 | Syngenta | 104 | 1 |
| H20-12R2 | Hubner | 104 | 1 |
| S22-Y2 | Syngenta | 104 | 1 |
| 5N234R2 | Mycogen | 103 | 1 |
| 5N210R2 | Mycogen | 103 | 2 |
| 2306R2 | Channel | 103 | 1 |
| 2903R2 | Channel | 103 | 1 |
| H26-12R2 | Hubner | 103 | 1 |
| S25RY44 | Dyna-Gro | 103 | 1 |
| HS 24A12 | GROWMARK FS | 102 | 2 |
| HS 28A12 | GROWMARK FS | 102 | 2 |
| RPMDB2612 | Doebler's | 102 | 2 |
| S24-K2 | Syngenta | 101 | 2 |

Central/Western NY Group I

When averaged across the Group I tests at Cayuga and Livingston Co. over the last few years, exceptional varieties include S17-B3 from Syngenta, 5N180R2 from Mycogen, and HS 15A11 from GROWMARK FS. Also, newly-entered varieties, HS 19A11 from GROWMARK FS and S14-J7 from Syngenta, performed well in 2013. Other varieties that have performed well over the last few years include

Newly-entered varieties that yielded exceptionally well in 2013 include 2105R2 from Channel and RPMDB2812 from Doebler's. Varieties that have performed well over the last couple of years include 5N210R2 from Mycogen, HS 24A12 and HS 28A12 from GROWMARK FS, RPMDB2612 from Doebler's and S24-K2 from Syngenta. Newly-entered varieties that performed well in 2013 include H20-12R2 and H 26-12R2 from Hubner, S22-S1 and S22-Y2 from

Crop Management

Syngenta, 5N234R2 from Mycogen, 2306R2 and 2903R2 from Channel, and S25RY44 from Dyna-Gro. The 25 Group II varieties that were entered in the central/western NY tests in 2013 averaged 70 bushels/acre at Aurora and 71 bushels/acre at Lima. fieldcrops.org.

Northern NY

Group I

When averaged across the Group I tests at Jefferson and Clinton Co. over the last few years, exceptional varieties include S17-B3 from Syngenta, 1805R2 from Channel, and HS 15A11 and HS 17A12 from GROWMARK FS. In addition, the newly-entered variety, S19RY84 from Dyna-Gro, performed exceptionally well in 2013. Other varieties that have performed well over the last few years include SG1311 and SG1911 from Seedway, 5N180R2 from Mycogen, and HS 13A11 from GROWMARK FS. The 15 Group I varieties that were entered in the test in 2013 averaged 56 bushels/acre at Sackets Harbor and 64 bushels/acre at Chazy.

Group II

When averaged across the Group II tests at Jefferson and Clinton Co. over the last 2 years, exceptional varieties include SG-2013 from Seedway, HS 20A12 from GROWMARK FS, S24-K2 and S22-Y2 from Syngenta, and 2105R2 from Channel. Newly entered varieties that performed well in 2013 include S22-S1 from Syngenta, HS 24A12 from GROWMARK FS, and RPYMDB2812 from Doebler's. The 20 Group II varieties that were entered in the test in 2013 averaged 54 bushels/acre at Sackets Harbor and 66 bushels/acre at Chazy.

Conclusion

Variety selection strongly influences yield and subsequent profit. Commercial varieties in the same maturity group have significant yield differences, lodging tolerance, and harvest moistures, if harvesting during the initial dry-down phase. Consequently, soybean variety selection greatly impacts yield, harvesting efficiency, potential drying costs, and ultimately profit so growers should consider all sources of information when selecting varieties. We provide yield, moisture, and lodging data in our 2013 New York State Soybean Variety Test Report (as well as reports from previous years), posted on our Web site, <http://www>.

Table 2. Relative yields of recommended Group I and Group II Roundup Ready soybean varieties for Northern New York based on tests in Jefferson and Clinton Co. over the last few years.

| Variety | Brand/Source | GROUP I VARIETIES | |
|------------|--------------|---------------------------------|--------------|
| | | Relative Yield (%) ² | Yrs. in Test |
| S17-B3 | Syngenta | 109 | 2 |
| 1805R2 | Channel | 108 | 3 |
| S19RY84 | Dyna-Gro | 107 | 1 |
| HS 15A11 | GROWMARK FS | 106 | 2 |
| HS 17A12 | GROWMARK FS | 106 | 3 |
| SG1311 | Seedway | 103 | 3 |
| SG1911 | Seedway | 103 | 3 |
| 5N180R2 | Mycogen | 102 | 2 |
| HS 13A11 | GROWMARK FS | 102 | 3 |
| | | GROUP II VARIETIES | |
| SG2013 | Seedway | 117 | 2 |
| HS 20A12 | GROWMARK FS | 109 | 2 |
| S24-K2 | Syngenta | 109 | 1 |
| S20-Y2 | Syngenta | 109 | 2 |
| 2105R2 | Channel | 107 | 2 |
| S22-S1 | Syngenta | 103 | 1 |
| HS 24A12 | GROWMARK FS | 102 | 1 |
| RPYMDB2812 | Doebler's | 102 | 1 |