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**2010 NEW YORK STATE SOYBEAN  
VARIETY YIELD TESTS**

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## **SOYBEAN VARIETY YIELD TESTS IN 2010**

### **Introduction**

The annual testing of soybean varieties was conducted at four locations in New York in 2010. Roundup Ready varieties in Maturity Groups 0, I and II were planted at three locations, including 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. Also, Group 0 and I varieties were planted at the Miner Institute in Clinton 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 and Chazy sites in Northern NY average 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 at which sites they wanted their varieties to be tested.

We planted Group 0, I and Group II entries in separate tests at Aurora on 7 May; Group 0/I and Group II in separate tests at Sackets Harbor on 11 May; Group 0/I and Group II separate tests at Lima on 21 May; and Group 0/I in one test at Chazy on 24 May. 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 WeatherMax 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 (4.1 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 20 September and the Group II test on 8 October. The Group 0/I and II tests were harvested at Sackets Harbor on 12 October. The Group 0/I and II tests were harvested at Lima on 18 October. The test at the Chazy site was harvested on 29 October. All soybeans were cleaned with a small clipper seed cleaner and tested for 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.

### **Aurora and Lima**

Exceptionally warm conditions throughout the growing season and somewhat wet conditions after May characterized the 2010 growing season at both locations. It was the 7<sup>th</sup> warmest growing season at the Aurora Research Farm (since its inception in 1948) and the 12<sup>th</sup> warmest at Avon (3<sup>rd</sup> warmest since 1940); the closest weather station to Lima, with total GDD from May through September about 200 GDD above normal at both sites (Table 1). Both sites were dry in May, which may have reduced stands somewhat. Also, Aurora was dry from 1 August through 23 August (1.46 inches), which probably reduced yields somewhat, especially for the Group 0 varieties, which attained the R8.0 stage (maturity) by 31 August and Group I varieties, which attained the R7.0 stage (physiological maturity) by 3 September. The Group II varieties attained the R7.0 stage between 15 and 20 September at Aurora. All maturity groups attained the R7.0 stage about a week later at Lima than at Aurora because of the 2-week later planting date.

The four Group 0 varieties averaged 51 bu/acre, the 19 Group I soybeans averaged 56 bu/acre, and the 29 Group II varieties averaged 70 bu/acre at the Aurora site (Tables 2, 3, and 4, respectively). Yields of maturity groups at Aurora are a bit misleading because the Group 0 and I varieties were planted upslope (2% slope) in a field where the soils are eroded a bit and shallower. In contrast, the Group II varieties were planted in the lower portion of the field where the soils are deeper and more productive. The Lima site received timely rains during August, which resulted in high yields for both maturity groups. At the Lima site, Group I varieties averaged 72 bu/acre and Group II varieties averaged 76 bu/acre, which is more typical of yield differences between maturity groups (Tables 5 and 6).

The variety, S09-N6, yielded best in the Group 0 test at Aurora (Table 2). When averaged across the Aurora and Lima sites, SG1727 from Seedway yielded best in the Group I test for the second consecutive year, followed closely by AG1431 and AG1730 from Asgrow, HS 19A02 from GROWMARK FS, and TS1719R2 from T.A. Seeds. Also, S13-A4, an NK brand, and HS 199RR from GROWMARK FS yielded above average across the two sites (Tables 3 and 5). Interestingly, HS 199RR yielded the highest of all varieties at Lima (Group II varieties included!) but yielded much below average at Aurora. At Aurora, we harvested all Group I varieties on 20 September but the seed moisture of HS 199RR was still at 24%, which may have reduced its yield at this site (although two of the reps of HS199RR were at the 8.0 stage and the other two reps were at the R7.6 stage on 9/19, which indicates the variety was beyond the physiological maturity stage). Interestingly, AG1431 and S13-A4 had seed moistures close to 14% on 20 September, which indicates both are early Group I varieties that yield well and may allow double-cropped wheat to be planted in late September or early October. Other

Group I varieties that yielded above average at Aurora include SG1405 from Seedway, and 1901R2 and 1400R2 from Channel. At Lima, other Group I varieties that yielded above average include AG1831 from Asgrow and S19-A4, an NK brand.

When averaged across sites in the Group II tests, 2800R2 from Channel had the highest yield followed closely behind by HS 2766 from GROWMARK FS and SG2205 from Seedway (Tables 4 and 6). HS 2766 has performed exceptionally well at both sites over the last 3 years. 2903R2 from Channel, HS27-10R2 from Hubner, V278RR from Dyna-Gro, HS 20R80 from GROWMARK FS, 3000R2 from Channel, and S21-N6, an NK brand, also yielded above average across sites. Other Group II varieties that yielded above-average at Aurora include 2809RR from Doeblers PA, 2400 and 2300R2 from Channel, HS 23R55 from Hyland, AG2430 from Asgrow, and TS2890R from T.A. Seeds. Other Group II varieties that yielded above average at Lima include 31RY20 (2<sup>nd</sup> highest yield) from Dyna-Gro, and S24-J1 and S21-B1, NK brands.

### **Chazy and Sackets Harbor**

The 2010 growing season in Northern NY was the 5<sup>th</sup> warmest at Watertown since 1940 and the warmest ever at Chazy (Table 1). Both sites had the same number of total GDD from 1 May through September as the Aurora site, which typically has 250 more GDD during the growing season. Both sites were dry in May and Chazy was somewhat dry in July. The Sackets Harbor site was exceedingly dry for a 4-week period from late July until 22 August (only 0.26 inches of precipitation). Nevertheless, the 20 Group I varieties yielded 60 bu/acre and the 20 Group II varieties yielded 65 bu/acre at Sackets Harbor (Tables 7 and 8). This was somewhat surprising because the Group I varieties attained the R7.0 stage by the 5 September and most of the Group II varieties attained the R7.0

stage by 10 September so most varieties were in the R4-R5 stage during the extended dry period in August. In contrast, the Chazy site had no dry conditions in August and the 19 varieties (four Group 0, 14 Group 1, and one Group II) yielded 78 bu/acre (Table 9).

When averaged across sites in the Group I tests (Tables 7 and 9), HS 19A02 from GROWMARK FS had the highest yield at both sites, 5 bu/acre higher than the next highest-yielding varieties, 1901R2, 1400R2, and 1700R2 from Channel. Other varieties that had above-average yield across the two sites include DB1809RR from Doebler's PA, TS1719R2 from T.A. Seeds, 36RY19 from Dyna-Gro, SG1727 from Seedway, and HS 199RR from GROWMARK FS . S19-A6, an NK brand, also had above-average yield at Chazy and AG1431, AG1730, and AG1931 from Asgrow had above-average yields in the Group I test at Sackets Harbor (not entered at Chazy).

High-yielding Group II varieties at Sackets Harbor included TS 2890R from T.A. Seeds, HS 2766 from GROWMARK FS, SG2205 from Seedway (which also was the 4<sup>th</sup> highest yielding variety at Chazy), 2400R2 from Channel, H25-10R2 from Hubner, AG2031 and 2131 from Asgrow, 31RY20 from Dyna-Gro, TS2190R from T.A. Seeds, and HS 23R55 from Hyland (Table 8).

### **Conclusion**

Soybean acreage increased to 285,000 in New York in 2010 and yields averaged 49 bu/acre, a new state record. If the current price remains above \$11/ bushel, we expect soybean acreage in New York to increase once again 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

grows 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 2011 tests. We appreciate your support in 2010.

Table 1. Monthly precipitation and growing degree days (GDD) at Aurora, Dansville, Chazy, and Sackets Harbor testing sites during the 2010 growing season.

Month	Precipitation				GDD (86-50 F)			
	Aurora	Lima*	Chazy	Sackets Harbor**	Aurora	Lima*	Chazy	Sackets Harbor**
May	2.22	1.94	0.89	1.86	414	397	412	401
June	5.24	4.78	4.95	6.06	521	539	500	490
July	4.26	4.65	2.23	3.54	694	707	743	712
August	5.83	3.63	5.44	2.48	627	645	636	636
Sept.	2.57	2.55	2.65	4.41	385	387	385	396
<b>Seasonal</b>	<b>20.12</b>	<b>17.55</b>	<b>16.16</b>	<b>18.35</b>	<b>2641</b>	<b>2675</b>	<b>2676</b>	<b>2635</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 20 September, 2010.

COMPANY/BRAND	VARIETY	YIELD	MOISTURE	LODGING	HEIGHT
		<u>bu/ac</u>	<u>%</u>	<u>1-5 rating</u>	<u>cm</u>
NK BRAND	S09-N6	56.5	14.2	1.1	84
DOEBLERS PA HYBRIDS	DB0910RR	50.1	14.0	1.1	83
DOEBLERS PA HYBRIDS	DB0510RR	49.6	13.8	1.1	83
DOEBLERS PA HYBRIDS	DB0410RR	48.5	14.4	1.0	74
<b>Avg.</b>		<b>51</b>	<b>14.09</b>	<b>1.1</b>	<b>81</b>
<b>LSD 0.05</b>		<b>5</b>	<b>NS</b>	<b>NS</b>	<b>5</b>

Table 3. Yield, seed moisture, lodging score, and height of Group I Roundup Ready soybean varieties harvested at Aurora, NY on 20 September, 2010.

COMPANY/BRAND	VARIETY	YIELD	MOISTURE	LODGING	HEIGHT
		<u>bu/ac</u>	<u>%</u>	<u>1-5 rating</u>	<u>cm</u>
GROWMARK FS LLC	HS 19A02	65.8	18.5	1.1	97
ASGROW	AG1431	62.9	14.2	1.1	92
ASGROW	AG1730	60.8	19.8	1.1	93
Seedway	SG 1727	60.5	17.1	1.1	98
Seedway	SG 1405	60.1	15.2	1.2	95
CHANNEL	1901R2	59.1	20.6	1.2	103
NK BRAND	S13-A4	58.5	14.5	1.1	91
CHANNEL	1400 RZ	57.9	14.5	1.1	91
T.A SEEDS	TS1719R2	57.1	20.1	1.0	87
CHANNEL	1501R2	56.3	15.1	1.2	94
DYNA-GRO SEED	36RY19	55.8	20.3	1.1	95
T.A SEEDS	TS1209R	55.6	14.2	1.0	84
ASGROW	AG1931	54.6	17.8	1.2	91
DOEBLERS PA	DB1809RR	53.2	15.8	1.0	92
DOEBLERS PA	DB1509RR	53.1	14.6	1.0	86
CHANNEL	1700R2	52.0	20.4	1.1	95
ASGROW	AG1831	51.7	19.1	1.1	92
NK BRAND	S19-A6	48.4	21.1	1.4	96
GROWMARK FS LLC	HS 199RR	46.1	24.0	1.5	95
<b>AVG.</b>		<b>56</b>	<b>17.68</b>	<b>1.14</b>	<b>93</b>
<b>LSD 0.05</b>		<b>7</b>	<b>1.93</b>	<b>0.2</b>	<b>6</b>

Table 4. Yield, seed moisture, lodging score, and height of Group II Roundup Ready soybean varieties harvested at Aurora, NY on 8 October, 2010.

<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>
CHANNEL	2800R2	78.7	12.5	1.8	97
GROWMARK FS LLC	HS 20R80	76.9	11.5	1.1	99
CHANNEL	2903R2	75.4	14.4	1.8	108
DOEBLERS PA	DB2809RR	75.2	12.8	1.4	97
GROWMARK FS LLC	HS 2766	75.2	12.6	2.5	113
DYNA-GRO SEED	V278RR	75.2	12.5	1.8	100
CHANNEL	2400R2	74.5	12.5	2.1	95
NK BRAND	S21-N6	73.3	11.8	1.3	90
HUBNER SEED	H27-10R2	73.0	12.6	1.8	102
CHANNEL	2300 RZ	73.0	12.1	1.4	95
HYLAND SEEDS	HS 23R55	72.6	12.0	2.1	99
ASGROW	AG2430	72.2	11.8	1.5	94
T.A SEEDS	TS2890R	71.3	12.3	1.9	96
HUBNER SEED	H25-10R2	70.6	12.2	1.6	91
DYNA-GRO SEED	33RY23	70.5	12.1	1.3	98
ASGROW	AG2031	70.0	11.8	1.4	95
CHANNEL	3000R2	69.8	15.0	1.7	96
NK BRAND	S24-J1	69.7	11.8	1.9	82
NK BRAND	S25-R3	69.5	11.8	2.1	90
ASGROW	AG2330	69.1	12.0	2.5	95
Seedway	SG 2110R2	68.5	12.3	1.3	92
T.A SEEDS	TS2190R	67.6	12.0	1.3	92
DYNA-GRO SEED	V25N9RR	65.7	11.8	1.5	91
NK BRAND	S21-B1	64.4	12.0	1.5	86
ASGROW	AG2131	64.1	12.0	3.1	101
GROWMARK FS LLC	HS 217RR	63.6	12.0	1.2	84
DYNA-GRO SEED	31RY20	63.5	12.2	1.7	90
DOEBLERS PA	DB2309RR	59.4	11.8	1.3	81
Seedway	SG 2205	59.1	12.2	1.4	91
<b>AVG.</b>		<b>70</b>	<b>12.28</b>	<b>1.69</b>	<b>94</b>
<b>LSD 0.05</b>		<b>7</b>	<b>0.93</b>	<b>0.4</b>	<b>7</b>

Table 5. Yield, seed moisture, lodging score, and height of Group I Roundup Ready soybean varieties harvested at Lima, NY on 18 October, 2010.

<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>
GROWMARK FS LLC	HS 199RR	83.1	11.8	1.5	103
ASGROW	AG1931	78.3	11.6	1.8	102
Seedway	SG 1727	78.3	11.8	1.7	108
T.A SEEDS	TS1719R2	76.9	11.7	1.4	90
ASGROW	AG1831	74.5	11.5	2.0	111
ASGROW	AG1730	74.5	11.8	1.7	103
ASGROW	AG1431	72.6	11.5	1.5	105
NK BRAND	S19-A6	72.2	11.8	1.5	100
NK BRAND	S13-A4	71.6	12.1	1.5	93
DYNA-GRO SEED	36RY19	70.4	12.1	1.6	99
GROWMARK FS LLC	HS 19A02	69.6	12.4	1.5	100
Seedway	SG 1405	68.3	12.3	1.8	101
DOEBLERS PA	DB1809RR	67.9	11.9	1.8	103
T.A SEEDS	TS1209R	66.4	11.4	1.5	91
DOEBLERS PA	DB1509RR	61.9	12.5	1.5	91
NK BRAND	S09-N6	61.0	12.0	1.6	91
<b>Avg.</b>		<b>72</b>	<b>11.89</b>	<b>0.3</b>	<b>99</b>
<b>LSD 0.05</b>		<b>8</b>	<b>0.9</b>	<b>NS</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 18 October, 2010.

COMPANY/BRAND	VARIETY	YIELD	MOISTURE	LODGING	HEIGHT
		<u>bu/ac</u>	<u>%</u>	<u>1-5 rating</u>	<u>cm</u>
CHANNEL	3000R2	82.1	12.4	1.6	106
DYNA-GRO SEED	31RY20	81.9	12.6	1.5	101
GROWMARK FS LLC	HS 2766	81.8	13.0	2.0	124
CHANNEL	2800R2	81.3	12.0	1.6	109
HUBNER SEED	H27-10R2	81.3	12.3	1.8	107
Seedway	SG 2205	80.9	11.7	1.6	101
CHANNEL	2903R2	79.2	12.6	1.9	113
NK BRAND	S24-J1	79.2	11.9	1.6	102
NK BRAND	S21-N6	79.0	12.0	1.6	95
DYNA-GRO SEED	V278RR	77.9	12.3	1.8	117
HUBNER SEED	H25-10R2	77.5	12.8	1.7	107
HYLAND SEEDS	HS 23R55	77.3	12.1	1.7	110
NK BRAND	S21-B1	76.9	12.2	1.7	97
GROWMARK FS LLC	HS 20R80	76.3	12.3	1.6	97
DYNA-GRO SEED	33RY23	75.1	12.5	1.9	111
ASGROW	AG2031	75.0	11.9	1.5	98
CHANNEL	2300R2	74.8	11.7	1.4	92
CHANNEL	2400R2	74.7	12.4	1.8	74
DYNA-GRO SEED	V25N9RR	74.6	11.7	1.8	107
GROWMARK FS LLC	HS 217RR	74.4	12.9	1.4	90
ASGROW	AG2330	74.1	12.3	1.9	103
DOEBLERS PA	DB2309RR	73.7	12.3	1.7	99
Seedway	SG 2110R2	73.7	12.2	2.2	102
T.A SEEDS	TS2890R	73.3	11.8	1.7	113
DOEBLERS PA	DB2809RR	72.2	12.2	1.7	111
ASGROW	AG2430	69.9	11.9	1.5	100
T.A SEEDS	TS2190R	68.1	12.7	1.5	101
NK BRAND	S25-R3	65.9	12.1	2.0	106
ASGROW	AG2131	64.7	12.7	2.0	111
<b>AVG.</b>		<b>76</b>	<b>12.24</b>	<b>1.7</b>	<b>104</b>
<b>LSD 0.05</b>		<b>7</b>	<b>0.84</b>	<b>0.4</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 12 October, 2010.

<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>
GROWMARK FS LLC	HS 19A02	67.3	12.2	1.7	87
CHANNEL	1400R2	66.7	12.4	1.4	88
ASGROW	AG1431	65.1	12.5	1.6	91
ASGROW	AG1730	64.6	12.4	1.6	87
Seedway	SG 1405	63.4	11.8	1.8	98
ASGROW	AG1931	62.9	12.0	1.4	85
DOEBLERS PA	DB1809RR	61.0	12.1	1.4	83
GROWMARK FS LLC	HS 199RR	60.4	12.3	1.3	80
Seedway	SG 1727	60.0	12.0	1.4	81
CHANNEL	1501R2	58.9	12.7	1.9	95
CHANNEL	1901R2	58.8	12.2	1.7	99
T.A SEEDS	TS1719R2	58.5	12.2	1.3	81
CHANNEL	1700R2	57.8	12.1	1.7	89
DYNA-GRO SEED	36RY19	57.4	12.5	1.6	86
DOEBLERS PA	DB0410RR	57.1	12.5	1.3	76
DOEBLERS PA	DB1509RR	56.7	13.0	1.4	75
T.A SEEDS	TS1209R	56.4	12.6	1.4	84
DOEBLERS PA	DB0910RR	55.9	12.5	1.5	83
ASGROW	AG1831	55.9	12.1	1.9	94
DOEBLERS PA	DB0510RR	55.6	12.2	1.4	87
<b>AVG.</b>		<b>60</b>	<b>12.31</b>	<b>1.52</b>	<b>86</b>
<b>LSD 0.05</b>		<b>6</b>	<b>0.43</b>	<b>0.2</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 12 October, 2010.

COMPANY/BRAND	VARIETY	YIELD	MOISTURE	LODGING	HEIGHT
		<u>bu/ac</u>	<u>%</u>	<u>1-5 rating</u>	<u>cm</u>
T.A SEEDS	TS2890R	73.8	12.0	1.6	90
GROWMARK FS LLC	HS 2766	71.4	12.4	1.7	103
Seedway	SG 2205	70.6	12.1	1.5	81
CHANNEL	2400R2	70.1	12.6	1.6	91
HUBNER SEED	H25-10R2	69.4	12.2	1.9	95
ASGROW	AG2031	67.6	12.0	1.7	99
ASGROW	AG2131	66.9	12.2	2.2	98
DYNA-GRO SEED	31RY20	66.8	12.1	1.7	91
T.A SEEDS	TS2190R	66.3	11.9	1.5	89
HYLAND SEEDS	HS 23R55	65.7	12.2	1.6	99
ASGROW	AG2330	64.7	12.0	1.7	89
Seedway	SG 2110R2	64.0	12.1	1.7	90
GROWMARK FS LLC	HS 217RR	62.7	12.2	1.5	89
DYNA-GRO SEED	33RY23	61.2	12.1	1.8	92
DOEBLERS PA HYBRIDS	DB2809RR	60.4	12.3	1.6	90
GROWMARK FS LLC	HS 20R80	59.2	11.8	1.5	92
HUBNER SEED	H27-10R2	59.2	12.5	1.8	98
DOEBLERS PA HYBRIDS	DB2309RR	58.6	12.2	1.6	85
ASGROW	AG2430	58.0	12.0	1.4	92
CHANNEL	2300R2	57.2	11.9	1.6	90
<b>AVG.</b>		<b>65</b>	<b>12.14</b>	<b>1.64</b>	<b>92</b>
<b>LSD 0.05</b>		<b>7</b>	<b>0.46</b>	<b>0.2</b>	<b>7</b>

Table 9. Yield, seed moisture, lodging score, and height of Group 0 and I (as well as SG 2205) Roundup Ready soybean varieties harvested at Chazy, NY on 29 October, 2010.

<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>
GROWMARK FS LLC	HS 19A02	90.3	12.0	1.0	95
CHANNEL	1700R2	87.0	10.8	1.0	99
CHANNEL	1901R2	86.9	11.8	1.0	89
Seedway	SG 2205	85.7	12.3	1.0	88
DYNA-GRO SEED	36RY19	83.8	12.0	1.0	94
NK BRAND	S19-A6	83.2	12.3	1.0	90
T.A SEEDS	TS1719R2	83.2	11.6	1.0	90
DOEBLERS PA	DB1809RR	82.0	11.7	1.0	95
Seedway	SG 1727	80.5	11.6	1.0	88
GROWMARK FS LLC	HS 199RR	79.2	12.1	1.0	88
CHANNEL	1400R2	78.8	11.9	1.0	85
NK BRAND	S13-A4	77.7	11.7	1.0	72
NK BRAND	S09-N6	75.9	11.7	1.0	73
DOEBLERS PA	DB0510RR	75.8	10.9	1.0	76
CHANNEL	1501R2	74.1	12.0	1.0	97
Seedway	SG 1405	70.1	11.4	1.0	83
DOEBLERS PA	DB0910RR	67.5	11.2	1.0	69
DOEBLERS PA	DB1509RR	66.5	12.2	1.0	74
T.A SEEDS	TS1209R	66.1	11.8	1.0	78
DOEBLERS PA	DB0410RR	64.0	11.0	1.0	63
<b>AVG.</b>		<b>78</b>	<b>11.69</b>	<b>1.0</b>	<b>84</b>
<b>LSD 0.05</b>		<b>11</b>	<b>0.56</b>	<b>NS</b>	<b>6</b>