

# What's Cropping Up?

A NEWSLETTER FOR NEW YORK FIELD CROPS & SOILS

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New York farmers planted about 235,000 acres to soybeans in 2008 and averaged 45 bu/acre, the second highest yields on record in NY (46 bu/acre in 2006). Soybean prices, following crude oil prices closely, have dropped

significantly this fall into the \$8.00 bushel range. Prices are expected to recover, however, as the winter begins.

Varieties show significant yield differences in our trials so variety selection is a management practice that strongly determines how much profit growers realize. The varieties in Table 1 are recommended varieties for central/western NY, based

on tests in Cayuga (Aurora Research Farm) and Livingston Co. (Henry Everman Farm in Dansville). The varieties in Table 2 are recommended varieties for Northern NY, based on tests in Jefferson (Ron Robbins's farm in Sackets Harbor) and Clinton Co. (Minor Institute in Chazy). We recommend varieties that have average relative yields of more than 100% across the two sites in central/western or Northern NY (100% relative yield equals the mean yield of the test). 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.**

## Central/Western NY (Table 1)

The Aurora site was exceptionally wet this year from mid-June through August (11.78 inches of rain). Some

## Recommended Roundup Ready Soybean Varieties for New York

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white mold disease incidence was noted but symptoms were mostly mild and yields were high (64 bu/acre for 10 Group I and 62 bu/acre for 22 Group II varieties that were entered in our trials). The Dansville site was extremely wet in

July and August (11.18 inches of precipitation in those two months and 13.88 inches from mid-June through August), which resulted in severe white mold and lodging problems and below average yields for that site (55 and 60 bu/acre, respectively). There was a strong variety by site interaction with some varieties yielding well at Aurora but not as well at

**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	COMPANY/BRAND	RELATIVE YIELD (%)	YEARS IN TEST
<b>GROUP I VARIETIES</b>			
HS 199RR	GROWMARK FS	109	5
HS 122aRR	GROWMARK FS	108	2
AG0808	Asgrow	105	1
AG1406	Asgrow	102	1
HS 188RR	GROWMARK FS	101	2
<b>GROUP II VARIETIES</b>			
AG2108	Asgrow	112	1
HS 20R80	GROWMARK FS	107	1
AG2002	Asgrow	105	2
AG2802	Asgrow	105	3
AG2406	Asgrow	105	1
S24-NJ1	NK	104	2
HS 2766(NRR)	GROWMARK FS	104	1
HS 217RR	GROWMARK FS	103	4
33D27	UAP	103	2
AG2110	Asgrow	103	3
S21-N6	NK	102	3
SSG2205	Seedway	101	4

## Crop Management

Dansville and vice versa.

HS 199RR from GROWMARK FS, which yielded exceptionally well at both sites in 2008 (68 and 69 bu/acre), continues to be a highly recommended late Group I variety (Table 1). Also, HS 122aRR from GROWMARK FS, which yielded exceptionally well at Dansville (68 bu/acre) and average at Aurora (61 bu/acre) in 2008, continues to be a highly recommended early Group I variety for central/western NY. AG0808, a new Asgrow brand Group 0 variety, yielded very well in the Group I tests at Aurora (66 bu/acre) and at Dansville (58 bu/acre) as did AG1406 (63 and 58 bu/acre, respectively), a new Asgrow brand Group I variety. HS 188RR, a Group I variety from GROWMARK FS, yielded exceptionally well at Aurora (71 bu/acre) but not as well at Dansville (48 bu/acre).

A new Group II variety, AG2108, an Asgrow brand, yielded exceptionally well in 2008 at Aurora (69 bu/acre) and at Dansville (67 bu/acre) as did HS 20R80 (65 and 63 bu/acre, respectively), a new GROWMARK FS variety. AG2002 (60 and 67), AG2802 (58 and 65), and AG2406 (60 and 66 bu/acre, respectively), Asgrow brand varieties, also yielded well in 2008. S24-NJ1, an NK brand, yielded exceptionally well at Aurora (68 bu/acre) but not as well at Dansville (52 bu/acre) in 2008. HS 2766(NRR), a new Group II variety from

GROWMARK FS yielded average at Aurora (58 bu/acre) but exceptionally well at Dansville (68 bu/acre), whereas HS 217RR yielded exceptionally well at Aurora (67 bu/acre) and slightly above average at Dansville (61 bu/acre). Other recommended varieties include 33D27 from UAP (62 and 63 bu/acre); AG2110, an Asgrow brand (58 and 64 bu/acre); S21-N6, an NK brand (60 and 62 bu/acre); and SG2205 from Seedway (60 and 61 bu/acre, respectively).

### Northern NY (Table 2).

The Sackets Harbor and Chazy sites were also exceptionally wet this year with both sites receiving 11-12 inches of precipitation from mid-June through August. Lodging was a significant problem at the Sackets Harbor site but there was minimal lodging at Chazy. Nevertheless, Chazy had below average yields for that site (61 and 63 bu/acre), whereas the Sackets site had average yields (51 and 50 bu/acre for 10 Group I and 12 Group II varieties, respectively). Frost occurred during the first week of October at both sites so some Group II varieties, which had not attained physiological maturity at that time because of the cool August conditions, had reduced yields.

HS 199RR, HS 122aRR, and TS1440R, which yielded exceptionally well at Sackets Harbor (55-57 bu/acre) and average at Chazy (58-62 bu/acre) in 2008, continue to be highly recommended Group I varieties for Northern NY. AG0808, the Group 0 variety, and TS1790R, a new Group I variety from T.A. Seeds, had average yields at Sackets (50 bu/acre) and exceptional yields at Chazy (~66 bu/acre). S18-Y3, a new NK brand variety, and AG1406 had average yields at Sackets Harbor (50 bu/acre) but above-average at Chazy (~65 bu/acre).

Recommended Group II varieties, which are grown only in areas of NNY near the Lakes with warmer nights and later fall frosts, include HS 217RR (63 and 61);

**Table 2.** Relative yields of recommended Group I and Group II (only close to Lake Ontario) Roundup Ready soybean varieties for Northern New York, based on tests in Jefferson and Clinton Co. over the last few years.

VARIETY	COMPANY/BRAND	RELATIVE YIELD (%)	YEARS IN TEST
<b>GROUP I VARIETIES</b>			
HS 199RR	GROWMARK FS	105	5
AG0808	Asgrow	104	1
TS1790R	T.A. Seeds	104	1
S18-Y3	NK	102	1
HS 122aRR	GROWMARK FS	102	2
TS1440R	T.A. Seeds	102	3
AG1406	Asgrow	101	1
<b>GROUP II VARIETIES</b>			
HS 217RR	GROWMARK FS	105	3
S20-P5	NK	103	1
AG2002	Asgrow	103	2
AG2108	Asgrow	102	1

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## Crop Management

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S20-P5, a new NK brand Group II variety (48 and 68); Ag2002 (50 and 63); and AG2108 (47 and 67 bu/acre, respectively).

### **Conclusion**

Variety selection strongly influences yield and subsequent profit. Commercial varieties can have yield differences

of 5-10 bu/acre with different lodging resistances. Correct soybean variety selection can result in huge profit differences so growers should consider all sources of information when selecting varieties. More detail of the 2008 New York State Soybean Variety Tests are posted on our Web site, <http://css.cals.cornell.edu/cals/css/extension/publications.cfm>