



# Information

DEPARTMENT OF PLANT SCIENCE & LANDSCAPE ARCHITECTURE  
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## **2008 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 III, IV, and V are included in the tests because they are best adapted for production in Maryland. Late maturing varieties in Maturity Group IV were evaluated separately from the other varieties in Maturity Group IV and are listed as "IV-S" in the data tables. Entries in the 2008 test included Roundup Ready and standard varieties of public and private brands available to Maryland farmers. In addition, promising new varieties and advanced breeding lines are tested to compare their performance to that of widely grown varieties. Experimental lines from Illinois (IL 3309), Maryland ( MD 99-6226, MD 00-5326, MD 00-6015, MD 01-5866, MD 02-651RR, MD 03-5188, MD 03-5453, MD 03-5527, MD 03-6420, MD 04-5060, MD 04-5217, MD 04-5218, MD 04-5545, MD 04-5550, MD 04-6006, MD 04-6008, MD 04-6101, MD 05-5355, MD 05-5585, MD 05-5633, MD 05-5656, MD 05-6067, MD 05-6078, MD 05-6124, MD 05-6377, MD 05-6381, MD 05-6384, MD 0506WN 99, MD 06-21RR, MD 06-26RR, MD 06-5613, MD 06-5683, MD 06-5693, MD 06-5700, MD 06-5718, MD 06-6182, MD 0607WN 33, MD 0607WN 37), Nebraska (U9842), and Virginia (V01-1693 RR, V01-1702 RR, V 02-8659, V 03-7779) were included in the 2008 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 at harvest 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 2008 growing season was wet early and then became dry late in the season. Planting was delayed at each location because of the wet soil conditions. Rainfall was lower than normal from late July through August at all test locations. Although rainfall increased in September, October was also below normal at all locations. Monthly rainfall amounts for May through October for the test locations are shown in Table 3.

Results of the 2008 tests are reported in Tables 4-7 for the standard varieties and in Tables 9-13 for the Roundup Ready varieties. In each of these tables, varieties within maturity groups are listed in order of yield, highest to lowest. Yields of the full-season Roundup Ready tests at Quantico are not reported because variation within the plot area due to drought caused large coefficient of variation values in the data analyses. The highest overall test location mean yields were at Clarksville for the standard varieties and Keedysville for the Roundup Ready varieties.

Table 9. Performance of Roundup Ready soybean varieties planted at Keedysville.

BRAND - ENTRY	Seed Yield, Bu/A			2008	
	2008	2007	2-Year	Height, Inches	Lodging Score*
	<b>MATURITY GROUP III</b>				
#1 ⇨ TA SEEDS - TS3989RS	63.5	-	-	28	1.2
#1 ⇨ TA SEEDS - TS3689R	63.5	-	-	27	1.2
ASGROW - AG3803	62.4	62.4	62.4	29	1.0
USG - 7384nRS	61.6	53.8	57.7	25	1.0
SEEDWAY - SG3808RR	60.7	-	-	28	1.2
S.STATES - RT3860	60.5	57.9	59.2	26	1.0
ASGROW - AG3705	60.3	53.0	56.7	28	1.0
DYNA GRO - 37P37	59.2	-	-	26	1.0
S.STATES - RT3971N	58.6	63.9	61.3	28	1.2
DYNA GRO - 32X39	57.5	-	-	26	1.0
MID ATLANTIC - MA3955RR	57.4	-	-	27	1.0
HISOY - HS39R70	56.6	-	-	31	1.2
USG - 73H77	56.4	-	-	22	1.2
S.STATES - RT3871N	55.6	56.1	55.9	29	1.0
MID ATLANTIC - MA3788RR	54.9	-	-	27	1.8
MID ATLANTIC - MA3877RR	54.7	-	-	30	1.2
MID ATLANTIC - MA3400RR	54.7	-	-	26	1.0
MID ATLANTIC - MA3599RR	54.3	-	-	32	1.0
MID ATLANTIC - MA3377RR	53.7	-	-	28	1.0
MID ATLANTIC - MA3488RR	53.0	-	-	26	1.0
<b>Mean</b>	<b>58.0</b>	<b>57.0</b>	<b>57.5</b>	<b>27</b>	<b>1.1</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>7.4</b>	<b>-</b>	<b>3</b>	<b>ns</b>
<b>CV, %</b>	<b>10.9</b>	<b>12.1</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>MATURITY GROUP IV</b>					
ASGROW - AG4303	69.7	-	-	30	1.2
HISOY - HS42T80	63.8	-	-	31	1.3
MID ATLANTIC - MA4077RR	63.6	-	-	31	1.2
S.STATES - RT4470N	63.3	53.4	58.4	26	1.0
SCHILLINGER - 447.RC	62.2	51.5	56.8	27	1.0
SEEDWAY - SG4008RR/STS	61.8	-	-	28	1.0
S.STATES - RT4440N	60.9	53.7	57.3	31	1.0
S.STATES - RT4451N	59.9	56.2	58.0	31	1.0
TA SEEDS - TS4499R	59.4	-	-	31	1.0
USG - 74A27	59.3	52.3	55.8	29	1.0
S.STATES - RT4151N	59.2	50.4	54.8	28	1.0
TA SEEDS - TS4299RS	58.9	-	-	28	1.2
S.STATES - RT4551N	58.5	51.5	55.0	32	1.0
USG - 74A45	57.5	55.7	56.6	33	1.2

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

BRAND - ENTRY	Seed Yield, Bu/A		2008		
	2008	2007	Maturity Date	Height, Inches	Lodging Score*
<b>MATURITY GROUP III</b>					
ASGROW - AG3803	56.4	No Data	10-22	25	1.0
MID ATLANTIC - MA3599RR	55.1	"	10-13	27	1.0
USG - 73H77	54.3	"	10-18	24	1.0
MID ATLANTIC - MA3877RR	54.3	"	10-21	29	1.2
USG - 7384nRS	53.1	"	10-19	22	1.0
S.STATES - RT3871N	52.9	"	10-21	26	1.0
#1 ⇨ TA SEEDS - TS3689R	52.0	"	10-18	25	1.0
S.STATES - RT3971N	50.5	"	10-21	25	1.0
SEEDWAY - SG3808RR	50.1	"	10-21	23	1.0
MID ATLANTIC - MA3955RR	49.9	"	10-18	23	1.0
DYNA GRO - 32X39	49.7	"	10-19	26	1.0
DYNA GRO - 37P37	49.6	"	10-18	23	1.0
HISOY - HS39R70	49.4	"	10-21	23	1.0
TA SEEDS - TS3989RS	49.3	"	10-22	26	1.0
S.STATES - RT3860	48.8	"	10-14	24	1.0
ASGROW - AG3705	48.6	"	10-21	23	1.0
MID ATLANTIC - MA3788RR	48.0	"	10-16	25	1.0
MID ATLANTIC - MA3488RR	42.8	"	10-15	25	1.0
MID ATLANTIC - MA3377RR	42.1	"	10-13	22	1.0
MID ATLANTIC - MA3400RR	39.3	"	10-15	21	1.0
	<b>Mean</b>	<b>49.8</b>	-	<b>24</b>	<b>1.0</b>
	<b>LSD 0.20</b>	<b>4.8</b>	-	<b>3</b>	<b>ns</b>
	<b>CV, %</b>	<b>9.1</b>	-	-	-
<b>MATURITY GROUP IV</b>					
DYNA GRO - V45N9RR	54.3	No Data	10-23	25	1.0
USG - 74A27	54.0	"	10-23	27	1.0
SEEDWAY - SG4008RR/STS	53.1	"	10-20	23	1.0
S.STATES - RT4370N	52.8	"	10-22	27	1.0
S.STATES - RT4551N	52.6	"	10-25	28	1.0
S.STATES - RT4151N	52.4	"	10-20	25	1.0
S.STATES - RT4451N	52.4	"	10-23	25	1.0
#1 ⇨ TA SEEDS - TS4299RS	52.4	"	10-20	24	1.0
ASGROW - AG4404	52.2	"	10-27	27	1.0
USG - 74A45	52.1	"	10-24	31	1.0
HISOY - HS42T80	51.9	"	10-20	23	1.0
ASGROW - AG4303	51.9	"	10-22	22	1.0
#1 ⇨ TA SEEDS - TS4499R	49.9	"	10-24	25	1.0
S.STATES - RT4470N	48.8	"	10-22	22	1.0

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

BRAND - ENTRY	Seed Yield, Bu/A		Maturity Date	2008	
	2008	2007		Height, Inches	Lodging Score*
<b>MATURITY GROUP IV - CONTINUED</b>					
S.STATES - RT4440N	48.4	No data	10-21	27	1.0
SCHILLINGER - 447.RC	48.0	"	10-22	24	1.0
USG - 74B58	47.8	"	10-21	22	1.0
MID ATLANTIC - MA4077RR	47.1	"	10-20	23	1.0
DYNA GRO - 33A40	46.2	"	10-20	25	1.0
ASGROW - AG4005	45.8	"	10-23	24	1.0
	<b>Mean</b>	<b>50.7</b>	-	<b>25</b>	<b>1.0</b>
	<b>LSD 0.20</b>	<b>ns</b>	-	<b>2</b>	<b>ns</b>
	<b>CV, %</b>	<b>10.2</b>	-	-	-
<b>MATURITY GROUP IV-S</b>					
USG - 74A88	57.9	No Data	10-27	29	1.0
USG - 74A76	51.4	"	10-25	27	1.0
DYNA GRO - V47N8RR	51.2	"	10-24	27	1.0
S.STATES - RT4808N	50.8	"	10-27	26	1.0
USG - 74E88	50.3	"	10-27	24	1.0
S.STATES - RT4777N	48.6	"	10-28	27	1.0
DYNA GRO - 32P48	48.3	"	10-27	28	1.0
S.STATES - RT4996N	47.8	"	10-28	27	1.0
DYNA GRO - V49N6RR	47.0	"	10-27	30	1.2
S.STATES - RT4888N	45.7	"	10-27	28	1.0
EXPERIMENTAL - MD 02-651RR	45.5	"	10-23	24	1.0
HISOY - HS476NRR	45.4	"	10-28	25	1.0
ASGROW - AG4606	43.4	"	10-27	25	1.0
	<b>Mean</b>	<b>48.7</b>	-	<b>27</b>	<b>1.0</b>
	<b>LSD 0.20</b>	<b>4.7</b>	-	<b>3</b>	<b>ns</b>
	<b>CV, %</b>	<b>9.0</b>	-	-	-

\*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			2008			
	2008	2007	2-Year	Maturity Date	Height, Inches	Lodging Score*	
	<b>MATURITY GROUP III</b>						
ASGROW - AG3803	48.0	49.5	48.8	10-08	29	1.0	
ASGROW - AG3705	47.9	53.9	50.9	10-09	30	1.0	
#1 ⇨ TA SEEDS - TS3989RS	47.5	-	-	10-06	29	1.0	
DYNA GRO - 32X39	46.3	-	-	10-07	25	1.0	
MID ATLANTIC - MA3955RR	46.2	-	-	10-07	26	1.0	
MID ATLANTIC - MA3877RR	45.8	-	-	10-07	29	1.0	
MID ATLANTIC - MA3377RR	44.9	-	-	9-26	24	1.0	
S.STATES - RT3871N	44.8	54.0	49.4	10-08	28	1.0	
SEEDWAY - SG3808RR	44.3	-	-	10-08	29	1.0	
HISOY - HS39R70	43.4	-	-	10-07	29	1.0	
S.STATES - RT3860	43.3	60.1	51.7	10-04	27	1.0	
S.STATES - RT3971N	42.6	43.0	42.8	10-06	25	1.0	
USG - 7384nRS	42.5	38.5	40.5	10-06	26	1.0	
MID ATLANTIC - MA3599RR	42.4	-	-	10-03	28	1.2	
MID ATLANTIC - MA3788RR	42.3	-	-	10-07	27	1.0	
USG - 73H77	40.8	-	-	10-03	26	1.0	
DYNA GRO - 37P37	40.7	-	-	10-06	24	1.0	
MID ATLANTIC - MA3400RR	40.2	-	-	10-04	23	1.2	
MID ATLANTIC - MA3488RR	39.9	-	-	10-02	25	1.3	
TA SEEDS - TS3689R	35.6	-	-	10-05	24	1.2	
	<b>Mean</b>	<b>43.5</b>	<b>49.7</b>	<b>46.6</b>	-	<b>27</b>	<b>1.0</b>
	<b>LSD 0.20</b>	<b>3.8</b>	<b>ns</b>	-	-	<b>2</b>	<b>0.1</b>
	<b>CV, %</b>	<b>8.3</b>	<b>18.2</b>	-	-	-	-
<b>MATURITY GROUP IV</b>							
#1 ⇨ TA SEEDS - TS4299RS	57.2	-	-	10-07	30	1.2	
ASGROW - AG4303	56.4	-	-	10-07	30	1.0	
S.STATES - RT4440N	56.4	65.3	60.8	10-06	34	1.7	
USG - 74A27	55.2	60.2	57.7	10-09	31	1.3	
USG - 74B58	54.7	-	-	10-07	27	1.0	
DYNA GRO - V45N9RR	54.3	-	-	10-10	29	1.0	
ASGROW - AG4005	53.6	-	-	10-08	32	1.2	
S.STATES - RT4470N	53.5	58.2	55.9	10-07	27	1.0	
DYNA GRO - 33A40	53.5	-	-	10-08	29	1.2	
S.STATES - RT4370N	52.9	58.1	55.5	10-08	36	2.0	
HISOY - HS42T80	52.7	-	-	10-07	29	1.5	
S.STATES - RT4451N	52.6	61.5	57.1	10-07	33	1.5	
SCHILLINGER - 447.RC	52.3	56.0	54.2	10-10	31	1.0	
ASGROW - AG4404	51.5	62.1	56.8	10-09	28	1.2	

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

BRAND – ENTRY	Seed Yield, Bu/A			Maturity Date	2008	
	2008	2007	2-Year		Height, Inches	Lodging Score*
<b>MATURITY GROUP IV - CONTINUED</b>						
USG - 74A45	51.2	51.7	51.4	10-07	33	1.5
S.STATES - RT4551N	50.7	68.3	59.5	10-07	31	1.3
S.STATES - RT4151N	50.0	66.3	58.2	10-06	31	1.3
#1 ⇨ TA SEEDS - TS4499R	49.8	-	-	10-09	30	1.0
SEEDWAY - SG4008RR/STS	49.8	-	-	10-07	29	1.0
MID ATLANTIC - MA4077RR	46.5	-	-	10-07	29	1.2
<b>Mean</b>	<b>52.7</b>	<b>60.4</b>	<b>56.6</b>	-	<b>31</b>	<b>1.3</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>6.5</b>	-	-	<b>3</b>	<b>0.4</b>
<b>CV, %</b>	<b>9.2</b>	<b>10.1</b>	-	-	-	-
<b>MATURITY GROUP IV-S</b>						
S.STATES - RT4777N	53.6	56.4	55.0	10-16	35	1.8
S.STATES - RT4996N	52.3	64.6	58.4	10-15	36	2.0
S.STATES - RT4808N	51.1	62.0	56.6	10-16	32	1.2
HISOY - HS476NRR	50.6	60.2	55.4	10-15	26	1.0
USG - 74A88	50.1	-	-	10-16	32	1.2
USG - 74A76	50.0	60.4	55.2	10-11	34	1.7
S.STATES - RT4888N	50.0	-	-	10-16	32	1.2
DYNA GRO - V49N6RR	50.0	-	-	10-15	40	1.7
DYNA GRO - 32P48	49.9	-	-	10-10	32	1.3
DYNA GRO - V47N8RR	49.8	-	-	10-15	32	1.2
EXPERIMENTAL - MD 02-651RR	47.0	58.2	52.6	10-10	31	1.5
ASGROW - AG4606	45.5	-	-	10-10	31	1.2
USG - 74E88	44.6	-	-	10-16	29	1.3
<b>Mean</b>	<b>49.6</b>	<b>59.7</b>	<b>54.7</b>	-	<b>33</b>	<b>1.4</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>ns</b>	-	-	<b>3</b>	<b>0.4</b>
<b>CV, %</b>	<b>10.0</b>	<b>9.8</b>	-	-	-	-
<b>MATURITY GROUP V</b>						
USG - 7515nRS	62.7	58.5	60.6	10-15	36	3.0
USG - 75M16	58.6	-	-	10-20	37	3.3
USG - 75J32	58.5	58.6	58.6	10-25	35	2.7
EXPERIMENTAL - V01-1693 RR	55.3	-	-	10-19	29	2.8
USG - ALLEN	55.3	52.2	53.8	10-30	38	3.2
S.STATES - RT5160N	54.8	61.0	57.9	10-20	35	2.8
EXPERIMENTAL - V01-1702 RR	54.7	-	-	10-19	33	3.2
EXPERIMENTAL - MD 06-21RR	52.8	-	-	10-27	32	1.7
EXPERIMENTAL - MD 06-26RR	47.3	-	-	10-27	33	1.8
<b>Mean</b>	<b>55.6</b>	<b>57.4</b>	<b>56.5</b>	-	<b>34</b>	<b>2.7</b>
<b>LSD 0.20</b>	<b>4.4</b>	<b>ns</b>	-	-	<b>3</b>	<b>0.7</b>
<b>CV, %</b>	<b>7.2</b>	<b>8.8</b>	-	-	-	-

\*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			2008		
	2008	2007	2-Year	Maturity Date	Height, Inches	Lodging Score*
	<b>MATURITY GROUP III</b>					
ASGROW - AG3803	52.8	24.0	38.4	10-16	23	1.0
MID ATLANTIC - MA3599RR	50.8	-	-	10-16	26	1.0
USG - 73H77	50.2	-	-	10-16	22	1.0
USG - 7384nRS	48.9	18.9	33.9	10-16	22	1.0
#1 ⇨ TA SEEDS - TS3989RS	48.8	-	-	10-17	27	1.0
DYNA GRO - 37P37	48.8	-	-	10-16	24	1.0
MID ATLANTIC - MA3788RR	48.6	-	-	10-16	24	1.0
MID ATLANTIC - MA3877RR	47.9	-	-	10-16	28	1.0
S.STATES - RT3871N	47.6	19.4	33.5	10-18	26	1.0
S.STATES - RT3971N	46.9	17.1	32.0	10-16	24	1.0
SEEDWAY - SG3808RR	46.6	-	-	10-16	23	1.0
MID ATLANTIC - MA3955RR	45.8	-	-	10-16	22	1.0
HISOY - HS39R70	45.5	-	-	10-16	24	1.0
MID ATLANTIC - MA3400RR	45.4	-	-	10-16	24	1.0
ASGROW - AG3705	44.9	22.4	33.7	10-16	22	1.0
DYNA GRO - 32X39	44.4	-	-	10-16	22	1.0
S.STATES - RT3860	44.0	19.8	31.9	10-18	22	1.0
#1 ⇨ TA SEEDS - TS3689R	44.0	-	-	10-16	22	1.0
MID ATLANTIC - MA3488RR	43.3	-	-	10-16	22	1.0
MID ATLANTIC - MA3377RR	42.1	-	-	10-16	24	1.0
<b>Mean</b>	<b>46.9</b>	<b>21.4</b>	<b>34.2</b>	-	<b>24</b>	<b>1.0</b>
<b>LSD 0.20</b>	<b>ns</b>	<b>2.3</b>	-	-	<b>2</b>	<b>ns</b>
<b>CV, %</b>	<b>9.0</b>	<b>9.8</b>	-	-	-	-
<b>MATURITY GROUP IV</b>						
ASGROW - AG4303	63.7	-	-	10-20	25	1.0
S.STATES - RT4440N	63.5	24.3	43.9	10-18	26	1.0
ASGROW - AG4404	63.3	25.2	44.3	10-21	28	1.0
ASGROW - AG4005	61.7	-	-	10-20	26	1.0
USG - 74B58	60.5	-	-	10-18	24	1.0
USG - 74A27	59.7	23.2	41.5	10-20	27	1.0
S.STATES - RT4551N	59.6	24.2	41.9	10-21	28	1.0
DYNA GRO - V45N9RR	59.2	-	-	10-20	24	1.0
S.STATES - RT4451N	58.8	22.1	40.5	10-18	28	1.0
SCHILLINGER - 447.RC	58.1	24.9	41.5	10-20	25	1.0
DYNA GRO - 33A40	57.1	-	-	10-19	25	1.0
S.STATES - RT4470N	56.7	24.1	40.4	10-20	23	1.0
MID ATLANTIC - MA4077RR	56.5	-	-	10-18	26	1.0
TA SEEDS - TS4499R	56.2	-	-	10-22	24	1.0

Table 13. Performance of Roundup Ready soybean varieties double cropped at Quantico.

BRAND - ENTRY	Seed Yield, Bu/A			2008			
	2008	2007	2-Year	Maturity Date	Height, Inches	Lodging Score*	
<b>MATURITY GROUP III</b>							
DYNA GRO - 37P37	45.8	-	-	10-20	22	1.0	
MID ATLANTIC - MA3788RR	45.5	-	-	10-20	26	1.0	
USG - 7384nRS	44.8	50.3	47.5	10-20	24	1.0	
S.STATES - RT3860	44.3	39.3	41.8	10-20	27	1.2	
USG - 73H77	43.9	-	-	10-20	24	1.0	
#1 ⇨ TA SEEDS - TS3689R	43.7	-	-	10-20	23	1.0	
MID ATLANTIC - MA3599RR	43.5	-	-	10-20	26	1.8	
DYNA GRO - 32X39	43.4	-	-	10-20	24	1.0	
MID ATLANTIC - MA3955RR	42.9	-	-	10-20	24	1.0	
ASGROW - AG3803	42.7	48.9	45.8	10-20	23	1.0	
HISOY - HS39R70	42.3	-	-	10-20	26	1.0	
SEEDWAY - SG3808RR	42.2	-	-	10-23	25	1.0	
S.STATES - RT3871N	42.1	45.3	43.7	10-23	27	1.2	
ASGROW - AG3705	42.0	45.5	43.7	10-20	25	1.3	
MID ATLANTIC - MA3377RR	40.4	-	-	10-20	24	1.2	
MID ATLANTIC - MA3488RR	40.3	-	-	10-20	23	1.0	
#1 ⇨ TA SEEDS - TS3989RS	40.2	-	-	10-20	27	1.3	
S.STATES - RT3971N	39.6	45.6	42.6	10-20	24	1.2	
MID ATLANTIC - MA3877RR	39.2	-	-	10-20	28	1.5	
MID ATLANTIC - MA3400RR	39.0	-	-	10-20	22	1.0	
	<b>Mean</b>	<b>42.4</b>	<b>44.8</b>	<b>43.6</b>	<b>-</b>	<b>25</b>	<b>1.1</b>
	<b>LSD 0.20</b>	<b>ns</b>	<b>4.6</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>0.2</b>
	<b>CV, %</b>	<b>7.7</b>	<b>9.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>MATURITY GROUP IV</b>							
S.STATES - RT4151N	49.5	48.3	48.9	10-20	28	1.3	
S.STATES - RT4440N	49.2	50.0	49.6	10-20	31	1.0	
HISOY - HS42T80	48.5	-	-	10-20	27	1.0	
S.STATES - RT4470N	47.7	51.6	49.7	10-20	23	1.0	
USG - 74B58	47.4	-	-	10-20	25	1.0	
DYNA GRO - 33A40	47.1	-	-	10-23	29	1.0	
SEEDWAY - SG4008RR/STS	47.0	-	-	10-20	26	1.0	
S.STATES - RT4551N	46.5	46.1	46.3	10-20	33	1.5	
ASGROW - AG4303	46.3	-	-	10-23	24	1.0	
S.STATES - RT4451N	45.6	49.8	47.7	10-20	30	1.0	
USG - 74A45	45.0	57.3	51.2	10-20	33	1.5	
DYNA GRO - V45N9RR	44.8	-	-	10-20	29	1.0	
ASGROW - AG4005	44.7	-	-	10-20	29	1.0	
ASGROW - AG4404	44.7	46.9	45.8	10-20	31	1.0	

Table 14. Relative yields of Roundup Ready soybean varieties compared to the mean of all varieties in that maturity group at each location in 2008.

BRAND - ENTRY	Keedys-	Clarks-	Queenstown		Quantico
	ville	ville	FS	DC	DC
<b>MATURITY GROUP III</b>					
	<b>Relative Yield, % of Mean</b>				
ASGROW - AG3705	104	98	110*	96	99
ASGROW - AG3803	108	113*	110*	113*	101
DYNA GRO - 37P37	102	100	94	104	108*
DYNA GRO - 32X39	99	100	106*	95	102
HISOY - HS39R70	98	99	100	97	100
MID ATLANTIC - MA3377RR	93	85	103*	90	95
MID ATLANTIC - MA3400RR	94	79	93	97	92
MID ATLANTIC - MA3488RR	91	86	92	92	95
MID ATLANTIC - MA3599RR	94	111*	97	108	103
MID ATLANTIC - MA3788RR	95	96	97	104	107
MID ATLANTIC - MA3877RR	94	109*	105*	102	92
MID ATLANTIC - MA3955RR	99	100	106*	98	101
SEEDWAY - SG3808RR	105	101	102*	99	100
S.STATES - RT3860	104	98	100	94	104
S.STATES - RT3871N	96	106*	103*	102	99
S.STATES - RT3971N	101	# 101	98	100	93
TA SEEDS - TS3689R	109	1 → 105*	# 82	94	103
TA SEEDS - TS3989RS	# 1 → 110*	99	1 → 109*	104	95
USG - 73H77	97	109*	94	107	104
USG - 7384nRS	106	107*	98	104	106
<b>Location/Group Mean Yield</b>	<b>58.0ns</b>	<b>49.8</b>	<b>43.5</b>	<b>46.9ns</b>	<b>42.4ns</b>
<b>MATURITY GROUP IV</b>					
ASGROW - AG4005	90	90	102	108*	98
ASGROW - AG4303	118*	102	107	111*	102
ASGROW - AG4404	93	103	98	111*	98
DYNA GRO - 33A40	89	91	102	100*	104*
DYNA GRO - V45N9RR	89	107*	103	103*	98
HISOY - HS42T80	108	102	100	95	106*
MID ATLANTIC - MA4077RR	107	93	88	99*	95
SCHILLINGER - 447.RC	105	95	99	101*	86
SEEDWAY - SG4008RR/STS	104	105	95	77	103*
S.STATES - RT4151N	100	103	95	83	109*
S.STATES - RT4370N	96	104	100	97	93
S.STATES - RT4440N	103	96	107	111*	108*
S.STATES - RT4451N	101	103	100	103*	100
S.STATES - RT4470N	107	96	102	99*	105*
S.STATES - RT4551N	99	104	# 96	104*	102
TA SEEDS - TS4299RS	99	103	1 → 108*	95	97
TA SEEDS - TS4499R	100	99	95	98	96
USG - 74A27	100	106	105	104*	96
USG - 74A45	97	103	97	97	99
USG - 74B58	96	94	104	106*	104*
<b>Location/Group Mean Yield</b>	<b>59.3</b>	<b>50.7ns</b>	<b>52.7ns</b>	<b>57.3</b>	<b>45.5</b>