

Table 2. Glyphosate Resistant Soybean Variety Performance in Lancaster County, 2008

Brand	Entry	Yield, bu/A	Height (in.)	Lodging	Seed Quality	Size (seeds/lb)	Seed Treatment ¹
Asgrow	AG4303	65.3	28	1.0	3	2521	Apron Max
Chemgro	C3842R	65.1	31	1.0	3	2963	Encase/Gaucho
Wilken	3465NRR	65.0	26	1.0	1	2940	Cruiser
Chemgro	C4040RS	64.9	31	1.0	2	2551	Encase/Gaucho
Wilken	3487NRR	64.2	28	1.0	2	3383	Cruiser
Asgrow	AG3803	62.5	30	1.0	2	2892	Apron Max
Dynagro	33A40	62.2	29	1.0	2	2918	Cruiser Max
Wilken	3592NRR	60.7	29	1.0	2	2655	Cruiser
Dynagro	32X39	60.6	29	1.0	2	3057	Cruiser Max
Mid Atlantic Seeds Inc.	MA 3955RR	60.2	27	1.0	2	3078	
NK Brand	S43-N6	59.8	31	1.0	2	3076	Cruiser Max
#1 ⇒ T.A. Seeds	TS4499RS	59.7	29	1.0	2	2493	Trilex, Allegiance, Gaucho
Mid Atlantic Seeds Inc.	MA 3877RR	59.5	35	2.0	3	2956	
NK Brand	S39-A3	58.3	29	1.0	1	2944	Cruiser Max
Growmark FS/Schillinger	447.RC	57.2	30	1.0	1	2916	Cruiser Max
Dynagro	38C42	57.2	31	1.0	1	2905	Cruiser Max
Asgrow	AG4005	57.1	31	1.0	2	2678	Apron Max
Seedway	SG 4008	56.2	30	1.0	2	2806	Cruiser Max
Mid Atlantic Seeds Inc.	MA 4077RR	55.7	32	1.0	2	2815	
Asgrow	AG3905	55.4	27	1.0	2	2956	Apron Max
Dynagro	35Y36	55.3	29	1.0	2	3170	Cruiser Max
Chemgro	C3741R	54.9	31	1.0	1	2745	Encase/Gaucho
#1 ⇒ T.A. Seeds	TS3989RS	54.9	33	1.0	2	2897	Trilex, Allegiance, Gaucho
Growmark FS/Hisoy	HS 42T80	54.7	30	1.0	3	2492	Cruiser Max
Dynagro	38R33	54.1	30	1.0	2	3336	Cruiser Max
#1 ⇒ T.A. Seeds	TS4299RS	53.6	29	1.5	3	2852	Trilex, Allegiance, Gaucho
Mid Atlantic Seeds Inc.	MA 3788RR	53.5	28	1.0	2	3273	
NK Brand	S36-B6	53.4	29	1.5	2	3285	Cruiser Max
Asgrow	AG3705	53.4	27	1.5	2	2907	Apron Max
Asgrow	AG4404	53.3	30	1.0	2	2825	Apron Max

	Wilken	3432NRR	53.1	31	1.0	2	3536	Cruiser
	Wilken	3459NRR	52.9	26	1.0	1	3370	Cruiser
	Wilken	3461NRR	52.5	26	1.0	1	3148	Cruiser
	Asgrow	AG4103	52.2	29	1.0	3	3007	Apron Max
	Dynagro	32C38	51.4	26	1.0	3	3215	Cruiser Max
#1 ⇒	T.A. Seeds	TS3689R	51.1	29	1.5	2	3606	Trilex, Allegiance, Gaucho
	Dynagro	35F37	50.7	25	1.0	2	3319	Cruiser Max
	Chemgro	C3539R	50.2	32	1.0	1	3144	Encase/Gaucho
	Dynagro	37J34	49.3	27	1.0	1	3120	Cruiser Max
	Growmark FS/Hisoy	HS 3480	48.8	27	1.0	2	3799	Cruiser Max
	NK Brand	S38-D5	48.8	27	1.5	2	3257	Cruiser Max
	Mid Atlantic Seeds Inc.	MA 3377RR	48.7	29	1.0	2	3299	
	Growmark FS/Hisoy	HS 39R70	48.4	28	1.0	2	2993	Cruiser Max
	Seedway	SG 3408	48.1	27	1.0	2	3429	Cruiser Max
	Seedway	SG 3750	47.6	28	1.5	2	3227	Cruiser Max
	Wilken	3488NRR	47.4	29	1.0	2	2723	Cruiser
	Mid Atlantic Seeds Inc.	MA 3599RR	47.0	31	1.5	1	2872	
	NK Brand	S35-T9	47.0	33	1.0	2	3434	Cruiser Max
	Wilken	3479NRR	46.5	27	1.0	2	3519	Cruiser
	Wilken	3426NRR	45.7	27	1.5	2	3273	Cruiser
	Chemgro	C3342R	45.6	28	1.5	1	3257	
	Seedway	SG 3808	45.1	28	1.5	2	3623	Cruiser Max
	Mid Atlantic Seeds Inc.	MA 3488RR	44.8	26	1.0	2	3487	
	Mid Atlantic Seeds Inc.	MA 3588RR	44.5	30	1.0	2	3445	
	NK Brand	S32-E2	44.4	29	1.5	2	3414	Cruiser Max
	Wilken	3577NRR	43.8	26	1.0	1	3019	Cruiser
	Mean		53.6	29	1.1	1.9	3086	
	LSD (.05)		14.4					
	LSD (.25)		8.4					
	CV %		19.2					

1. Seed treatments as reported by seed companies

Table 4. Glyphosate Resistant Soybean Variety Performance in Lancaster County, 2008, 2007, 2006

Brand	Entry	Yield, bu/A				
		2008	2007	2006	2 Yr Avg 2007-08	3 Yr Avg 2006-08
Asgrow	AG3705	53.4	108.7		81.1	
Asgrow	AG3803	62.5	104.6		83.5	
Asgrow	AG3905	55.4	103.9		79.7	
Asgrow	AG4404	53.3	108.4	72.9	80.9	78.2
Chemgro	C3539R	50.2	117.5	73.4	83.8	80.3
Chemgro	C3741R	54.9	99.1		77.0	
Chemgro	C4040RS	64.9	120.4	73.5	92.6	86.3
Dynagro	32C38	51.4	103.2	80.8	77.3	78.5
Dynagro	33A40	62.2	122.3		92.2	
Dynagro	35Y36	55.3	110.2		82.7	
Dynagro	37J34	49.3	95.8		72.6	
Mid Atlantic Seeds Inc.	MA 3599RR	47.0	104.4		75.7	
Mid Atlantic Seeds Inc.	MA 3877RR	59.5	113.9		86.7	
Mid Atlantic Seeds Inc.	MA 4077RR	55.7	108.2		81.9	
NK Brand	S36-B6	53.4	121.7		87.6	
Seedway	SG 3750	47.6	119.4	83.1	83.5	83.4
T.A. Seeds	TS3989RS	54.9	119.4	75.4	87.1	83.2
Wilken	3461NRR	52.5	113.1	71.2	82.8	78.9
Wilken	3465NRR	65.0	111.0	70.0	88.0	82.0
Wilken	3479NRR	46.5	109.2	73.9	77.9	76.6
Wilken	3488NRR	47.4	109.7	69.5	78.6	75.5
Wilken	3577NRR	43.8	92.8		68.3	
Wilken	3592NRR	60.7	106.3		83.5	

Table 5. Glyphosate Resistant Soybean Variety Performance in Centre County, 2008

Brand	Entry	Yield, bu/A	Maturity	Height (in.)	Lodging	Seed Quality	Size (seeds/lb)	Seed Treatment ¹
NK Brand	S32-E2	61.4	10-4	36	2.0	2.5	2657	Cruiser Maxx
NK Brand	S36-B6	59.0	10-7	31	1.1	2.0	2626	Cruiser Maxx
#1 ⇒ T.A. Seeds	TS3989RS	58.9	10-7	34	1.5	2.0	2335	Trilax, Allegiance, Gaucho
NK Brand	S39-A3	56.3	10-6	32	1.4	1.5	2782	Cruiser Maxx
Chemgro	C3539R	55.9	10-5	35	1.4	2.5	2993	Encase/Gaucho
Gries Seed Farms	GSF2907RR	55.2	9-26	31	1.5	2.0	2925	Rival, Thiram, Allegiance
NK Brand	S38-D5	55.1	10-5	29	1.0	2.0	3127	Cruiser Maxx
Wilken	3461NRR	54.8	10-7	28	1.1	2.5	2571	Cruiser
T.A. Seeds	TS3689R	54.7	10-5	30	1.1	1.0	2630	Trilax, Allegiance, Gaucho
Wilken	3592NRR	54.6	10-6	33	1.3	2.0	2519	Cruiser
Wilken	3434NRR	54.2	10-5	32	1.3	2.0	2686	Cruiser
NK Brand	S35-T9	54.1	10-6	36	1.5	1.5	2588	Cruiser Maxx
Dynagro	38R33	52.9	10-3	31	1.3	1.5	2956	Cruiser Maxx
Growmark FS/Hisoy	HS 2766NRR	52.5	9-24	35	1.4	2.0	2991	Cruiser Maxx
Wilken	3432NRR	52.4	10-2	31	1.3	2.0	2899	Cruiser
Dynagro	39R29	52.3	9-30	28	1.3	2.0	2789	Cruiser Maxx
Seedway	SG 3680	52.0	10-3	29	1.1	2.0	2897	Cruiser Maxx
Wilken	3577NRR	51.9	10-6	29	1.4	1.5	3043	Cruiser
Wilken	3426NRR	51.8	10-1	30	1.4	1.5	2620	Cruiser
Wilken	2993NRR	50.9	9-29	28	1.0	1.5	2778	Cruiser
Wilken	3479NRR	50.8	10-8	28	1.3	2.0	3019	Cruiser
Gries Seed Farms	GSF3808NRR	50.5	10-5	30	1.5	2.0	2632	Rival, Thiram, Allegiance
Gries Seed Farms	GSF2608RR	50.3	9-25	30	1.5	2.5	3049	Rival, Thiram, Allegiance
Chemgro	C3741R	50.2	10-5	27	1.0	2.5	2596	Encase/Gaucho
Asgrow	AG3005	50.1	10-3	28	1.5	2.0	3099	Apron Maxx
Asgrow	AG3101	49.7	9-29	29	1.0	2.0	3370	Apron Maxx
Gries Seed Farms	GSF3207NRR	49.6	10-1	26	1.0	2.0	3162	Rival, Thiram, Allegiance
Dynagro	38G23	49.5	9-15	28	1.1	2.0	3295	Cruiser Maxx
Asgrow	AG3603	49.4	10-5	29	1.0	2.5	2832	Apron Maxx
Asgrow	AG3203	48.9	10-1	29	1.3	2.0	3140	Apron Maxx

Seedway	SG 3308	48.8	10-3	31	1.5	3.5	3304	Cruiser Maxx
Chemgro	C3138R	48.7	9-25	33	1.5	2.0	3055	Encase/Gaicho
Chemgro	C3342R	48.7	10-3	30	1.1	3.0	2960	
Dynagro	38B31	48.6	9-30	25	1.0	2.0	3181	Cruiser Maxx
Growmark FS/Hisoy	HS 3480	48.6	10-3	30	1.0	1.5	2960	Cruiser Maxx
Dynagro	36D24	48.5	9-17	30	1.4	1.0	3243	Cruiser Maxx
Seedway	SG 3012	48.2	9-27	33	1.5	2.5	3088	Cruiser Maxx
Asgrow	AG3402	47.8	10-1	32	1.6	2.5	3027	Apron Maxx
Gries Seed Farms	GSF3408NRR	47.4	10-3	29	1.1	2.0	2971	Rival, Thiram, Allegiance
Asgrow	AG3521V	47.3	10-4	28	1.0	2.0	2939	Apron Maxx
Asgrow	AG2822V	46.8	9-26	29	1.0	1.5	2792	Apron Maxx
Seedway	SG 3306	46.6	10-4	27	1.0	2.0	3082	Cruiser Maxx
Chemgro	X23515	46.4	10-3	28	1.0	2.5	3049	Encase/Gaicho
T.A. Seeds	TS3499R	45.4	10-2	29	1.1	2.0	3065	Trilax, Allegiance, Gaucho
Dynagro	31D20	44.2	9-12	27	1.1	2.0	3635	Cruiser Maxx
Mean		51.2		30	1.3	2.0	2932	
LSD (.05)		5.9						
LSD (.25)		3.5						
CV %		8.3						

1. Seed treatments as reported by seed companies