

Control of Volunteer Glyphosate-Resistant Corn in Soybean

Trial ID: SOY01-08 Study Dir.: Sprague, Powell  
 Conducted: T-10 Botany Investigator: Christy Sprague

Date Planted: 5/8/08 Row Spacing: 30 IN  
 Variety: Pioneer 92M33 No. of Reps: 4  
 Population: 154,000 seeds/Acre % OM: 2.5  
 Soil Type: Sandy loam pH: 7.6  
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, Soil finish x2 on 5/8/08  
 Fertilizer: none at planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ZEAMX	CORN, VOLUNTEER	ZEA MAYS L.
2.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISII FOLIA L.
3.	ANGR	mainly foxtail species	SETARIA SP.
4.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
5.	BRAKA	MUSTARD, WILD	BRASSICA KABER
6.	AMASS	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

**A**  
 Application Timing: POST  
 Date Treated: 6/18/08  
 Time Treated: 8:30 AM  
 % Cloud Cover: 100  
 Air Temp., Unit: 54 F  
 % Relative Humidity: 70  
 Wind Speed/Unit/Dir: 5 mph NW  
 Soil Temp., Unit: 59 F  
 Soil/Leaf Surface M: 5 5  
 Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

**A**  
 Crop Name: GLXMA  
 Height (In.): 7-10  
 Stage (L): V2-V3

Weed Stage at Each Application

**A**  
 Weed 1 Name: ZEAMX  
 Height (In.): 6-11  
 Stage (L): V3  
 Weed 2 Name: AMBEL  
 Height (In.): 2-8  
 Stage (L): 4-8  
 Weed 3 Name: ANGR  
 Height (In.): 2-5  
 Stage (L): 2-3  
 Weed 4 Name: CHEAL  
 Height (In.): 2-6  
 Stage (L): 4-10  
 Weed 5 Name: BRAKA  
 Height (In.): 14-24  
 Stage (L): flowering  
 Weed 6 Name: AMASS  
 Height (In.): 1-6  
 Stage (L): 4-8

Weed Density (plants/sq. ft.)

Date:	1	2	3	4	5	6
7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08
Weed Name:	CHEAL	ABUTH	ANGR	AMBEL	ZEAMX	BRAKA
Density:	15.25	0.125	170.25	19.625	1.25	2.875

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	26	20	100	19	water	28

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**Comments:** Previous Crop- Fallow  
Spread glyphosate-resistant corn prior to second soil finishing.

MSU Weed Science Research Program

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								GLXMA	ZEAMX	ZEAMX	ANGR	CHEAL
								injury	control	control	control	control
								percent	percent	percent	percent	percent
								6/25/08	6/25/08	6/30/08	6/30/08	6/30/08
								7 DA-A	7 DA-A	12 DA-A	12 DA-A	12 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Roundup WeatherMax AMS	4.5	SL	22	fl oz/a	POST	A	4	30	0	99	99
			WG	17	lb/100 gal	POST	A					
2	Scepter	72	DG	1	oz/a	POST	A	5	54	53	99	99
2	Roundup WeatherMax AMS	4.5	SL	22	fl oz/a	POST	A					
			WG	17	lb/100 gal	POST	A					
3	Fusilade DX	2	EC	4	fl oz/a	POST	A	4	61	81	99	99
3	Roundup WeatherMax AMS	4.5	SL	22	fl oz/a	POST	A					
			WG	17	lb/100 gal	POST	A					
4	Fusion	2.56	EC	4	fl oz/a	POST	A	0	61	88	99	99
4	Roundup WeatherMax AMS	4.5	SL	22	fl oz/a	POST	A					
			WG	17	lb/100 gal	POST	A					
5	Select	2	EC	4	fl oz/a	POST	A	0	71	92	99	99
5	Roundup WeatherMax AMS	4.5	SL	22	fl oz/a	POST	A					
			WG	17	lb/100 gal	POST	A					
6	Select Max	0.97	EC	6	fl oz/a	POST	A	1	66	96	99	99
6	Roundup WeatherMax AMS	4.5	SL	22	fl oz/a	POST	A					
			WG	17	lb/100 gal	POST	A					
7	Targa	0.88	L	5	fl oz/a	POST	A	3	53	84	99	99
7	Roundup WeatherMax AMS	4.5	SL	22	fl oz/a	POST	A					
			WG	17	lb/100 gal	POST	A					
8	Targa	0.88	L	5	fl oz/a	POST	A	3	53	83	99	99
8	Durango DMA	4	SL	24	fl oz/a	POST	A					
8	Activator 90		L	0.125	% v/v	POST	A					
8	AMS		WG	17	lb/100 gal	POST	A					
9	Untreated							0	0	0	0	0
LSD (P=.10)								1.8	12.3	7.2	0.0	0.0
Standard Deviation								1.5	10.2	6.0	0.0	0.0
CV								70.54	20.41	9.34	0.0	0.0

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Weed Code	AMAPO	AMBEL	SINAR
Crop Code			
Rating Data Type	control	control	control
Rating Unit	percent	percent	percent
Rating Date	6/30/08	6/30/08	6/30/08
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMAPO	AMBEL	SINAR
1	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	A	99	98	99
1	AMS		WG	17	lb/100 gal	POST	A			
2	Scepter	72	DG	1	oz/a	POST	A	99	99	99
2	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	A			
2	AMS		WG	17	lb/100 gal	POST	A			
3	Fusilade DX	2	EC	4	fl oz/a	POST	A	99	99	99
3	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	A			
3	AMS		WG	17	lb/100 gal	POST	A			
4	Fusion	2.56	EC	4	fl oz/a	POST	A	99	99	99
4	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	A			
4	AMS		WG	17	lb/100 gal	POST	A			
5	Select	2	EC	4	fl oz/a	POST	A	99	99	99
5	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	A			
5	AMS		WG	17	lb/100 gal	POST	A			
6	Select Max	0.97	EC	6	fl oz/a	POST	A	99	99	99
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	A			
6	AMS		WG	17	lb/100 gal	POST	A			
7	Targa	0.88	L	5	fl oz/a	POST	A	99	99	99
7	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	A			
7	AMS		WG	17	lb/100 gal	POST	A			
8	Targa	0.88	L	5	fl oz/a	POST	A	99	99	99
8	Durango DMA	4	SL	24	fl oz/a	POST	A			
8	Activator 90		L	0.125	% v/v	POST	A			
8	AMS		WG	17	lb/100 gal	POST	A			
9	Untreated							0	0	0
LSD (P=.10)								0.0	0.8	0.0
Standard Deviation								0.0	0.7	0.0
CV								0.0	0.76	0.0