

MSU Weed Science Research Program

Control of Roundup Ready Volunteer Corn with Targa

Trial ID: SOY01-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 5/8/2006	Row Spacing: 30 IN
Variety: Pioneer 91M9	No. of Reps: 4
Population: 152,000 seeds/acre	% OM: 2.4
Soil Type: Sandy Loam	pH: 7.8
Plot Size: 10 X 35 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Moldboard Plow
 Soil Finish X 2 5/8/06
Fertilizer: None at planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ZEAMX	CORN, VOLUNTEER	ZEA MAYS L.
2.	ANGR	Annual grass	mainly foxtail, panicum
3.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
4.	AMBEL	RAGWEEED, COMMON	AMBROSIA ELATIOR L.
5.	BRAKA/SINAR	MUSTARD, WILD	BRASSICA KABER
6.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
7.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
8.	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

A

Application Timing: POST
Date Treated: 6/9/2006
Time Treated: 10:00 am
% Cloud Cover: 90
Air Temp., Unit: 62 F
% Relative Humidity: 53
Wind Speed/Unit/Dir: 6 mph N
Soil Temp., Unit: 64 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.): 4-6
Stage (L): 1-3 tri

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Weed Stage at Each Application

A

Weed 1 Name: ZEAMX
 Height (In.): 6-12"
 Stage (L): V3-V5
 Weed 2 Name: ANGR
 Height (In.): 1-6"
 Stage (L): 3-5
 Weed 3 Name: AMARE
 Height (In.): 1-3"
 Stage (L): 2-6
 Weed 4 Name: AMBEL
 Height (In.): 1-5"
 Stage (L): 2-6
 Weed 5 Name: BRAKA/SINAR
 Height (In.): 2-9"
 Stage (L): 4-8
 Weed 6 Name: ABUTH
 Height (In.): 1-4"
 Stage (L): 2-4
 Weed 7 Name: CHEAL
 Height (In.): .5-3"
 Stage (L): 4-8
 Weed 8 Name: POROL
 Height (In.): .25-1"
 Stage (L): 2-6

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	7/21/2006	7/21/2006	7/21/2006	7/21/2006	7/21/2006
Weed Name:	ZEAMX	CHEAL	ABUTH	ANGR	AMBEL
Density:	3	3	1	17	7

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Boom				
Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	Cub	3.8	AirMix	11003	22"	20"	100"	19	H20	27

Comments: Spread Roundup Ready corn through entire plot on 5/8/06 before final tillage.

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Weed Code						ZEAMX	ANGR	CHEAL	AMBEL	AMARE	ABUTH	BRAKA		
Crop Code				GLXMA		injury	control	control	control	control	control	control		
Rating Data Type				injury		percent	percent	percent	percent	percent	percent	percent		
Rating Unit				percent		percent	percent	percent	percent	percent	percent	percent		
Rating Date				6/22/2006		6/22/2006	6/22/2006	6/22/2006	6/22/2006	6/22/2006	6/22/2006	6/22/2006		
Trt-Eval Interval				13 DA-A		13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A		
Trt No.	Treatment Name	Form Conc	Rate	Grow Unit	Appl Stg	Code								
1	Targa	0.88	4	fl oz/a	POST	A	6	80	94	91	91	99	99	98
1	Durango	4	24	fl oz/a	POST	A								
1	Activator 90 NIS		0.125	% v/v	POST	A								
1	AMS		2.5	lb/a	POST	A								
2	Targa	0.88	5	fl oz/a	POST	A	9	78	94	97	90	99	99	98
2	Durango	4	24	fl oz/a	POST	A								
2	Activator 90 NIS		0.125	% v/v	POST	A								
2	AMS		2.5	lb/a	POST	A								
3	Select	2	4	fl oz/a	POST	A	9	78	96	88	86	99	99	98
3	Durango	4	24	fl oz/a	POST	A								
3	Activator 90 NIS		0.125	% v/v	POST	A								
3	AMS		2.5	lb/a	POST	A								
4	Untreated						0	0	0	0	0	0	0	0
5	SelectMax	1	8	fl oz/a	POST	A	8	88	98	94	87	99	95	99
5	Durango	4	24	fl oz/a	POST	A								
5	Activator 90 NIS		0.125	% v/v	POST	A								
5	AMS		2.5	lb/a	POST	A								
6	Durango	4	24	fl oz/a	POST	A	10	0	94	90	86	99	97	98
6	Activator 90 NIS		0.125	% v/v	POST	A								
6	AMS		2.5	lb/a	POST	A								
LSD (P=.05)							8.2	8.7	4.6	6.2	6.8	0.6	3.5	1.8
Standard Deviation							5.4	5.8	3.1	4.1	4.5	0.4	2.3	1.2
CV							79.21	10.68	3.87	5.38	6.12	0.5	2.87	1.5

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Weed Code ZEAMX
 Crop Code
 Rating Data Type control
 Rating Unit percent
 Rating Date 7/7/2006
 Trt-Eval Interval 28 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	
1	Targa	0.88	4	fl oz/a	POST	A	96
1	Durango	4	24	fl oz/a	POST	A	
1	Activator 90 NIS		0.125	% v/v	POST	A	
1	AMS		2.5	lb/a	POST	A	
2	Targa	0.88	5	fl oz/a	POST	A	98
2	Durango	4	24	fl oz/a	POST	A	
2	Activator 90 NIS		0.125	% v/v	POST	A	
2	AMS		2.5	lb/a	POST	A	
3	Select	2	4	fl oz/a	POST	A	71
3	Durango	4	24	fl oz/a	POST	A	
3	Activator 90 NIS		0.125	% v/v	POST	A	
3	AMS		2.5	lb/a	POST	A	
4	Untreated						0
5	SelectMax	1	8	fl oz/a	POST	A	96
5	Durango	4	24	fl oz/a	POST	A	
5	Activator 90 NIS		0.125	% v/v	POST	A	
5	AMS		2.5	lb/a	POST	A	
6	Durango	4	24	fl oz/a	POST	A	0
6	Activator 90 NIS		0.125	% v/v	POST	A	
6	AMS		2.5	lb/a	POST	A	
LSD (P=.05)							2.4
Standard Deviation							1.6
CV							2.66