

Weed control comparison with different glyphosate formulations

Trial ID: SOY13-09
Conducted: H-5 Soils

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted: 5/25/09	Row Spacing: 30 IN
Variety: Pioneer 92M61	No. of Reps: 3
Population: 156,000	% OM: 2.3
Soil Type: Silty Clay Loam	pH: 7.0
Plot Size: 10 X 30 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring soil finished twice
Fertilizer: None

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIFOLIA L.
3.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

A
Application Timing: POST
Date Treated: 6/29/09
Time Treated: 9:00am
% Cloud Cover: 30
Air Temp., Unit: 71 F
% Relative Humidity: 65
Wind Speed/Unit/Dir: 6 mph W
Soil Temp., Unit: 66 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
Stage (L): V3

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Height (In.): 9
Stage (L): 4
Weed 2 Name: AMBEL
Height (In.): 4
Stage (L): 8
Weed 3 Name: CHEAL
Height (In.): 3
Stage (L): 8

Weed Density (plants/sq. ft.)

	1	2	3
Weed Name:	ANGR	AMBEL	CHEAL
Density:	19	2	2

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	25"	20"	80"	19	Water	28

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Weed Code	ANGR	AMBEL	CHEAL	GLXMA	ANGR	AMBEL	CHEAL
Crop Code	GLXMA			GLXMA			
Rating Data Type	injury	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	7/6/09	7/6/09	7/6/09	7/13/09	7/13/09	7/13/09	7/13/09
Trt-Eval Interval	7DAT	7DAT	7DAT	14 DA-A	14 DA-A	14 DA-A	14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	LSD (P=.05)	Standard Deviation	CV
								1.5	0.9	125.05
								11.0	6.5	8.32
								10.5	6.2	9.24
								15.9	9.3	14.95
								2.9	1.7	40.41
								5.2	3.1	3.47
								3.1	1.8	2.1
								8.4	4.9	6.21

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	GLXMA injury percent 7/27/09 28 DA-A	ANGR control percent 7/27/09 28 DA-A	AMBEL control percent 7/27/09 28 DA-A	CHEAL control percent 7/27/09 28 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent 7/27/09 28 DA-A	ANGR control percent 7/27/09 28 DA-A	AMBEL control percent 7/27/09 28 DA-A	CHEAL control percent 7/27/09 28 DA-A
1	Roundup PowerMax (K salt)	4.5	SL	8	fl oz/a	POST	A	0	87	87	30
1	Activator 90		L	0.25	% v/v	POST	A				
1	AMS		WG	17	lb/100 gal	POST	A				
1	Distilled Water					POST	A				
2	Bucaneer Plus (IPA salt)	3	SL	12	fl oz/a	POST	A	0	82	96	63
2	Activator 90		L	0.25	% v/v	POST	A				
2	AMS		WG	17	lb/100 gal	POST	A				
2	Distilled Water					POST	A				
3	GLY	95	WG	0.3	lb/a	POST	A	0	88	78	70
3	N-GO		L	0.5	% v/v	POST	A				
3	Distilled Water					POST	A				
4	GLY	95	WG	0.3	lb/a	POST	A	0	85	78	96
4	N-GO		L	1	% v/v	POST	A				
4	Distilled Water					POST	A				
5	Untreated							0	0	0	0
6	1000 ppm Water					POST	A	0	87	88	25
6	CaCl2 (Dihydrate)		WG	15.8	oz/100 gal	POST	A				
6	MgCL2 (Hexahydrate)		WG	5.4	oz/100 gal	POST	A				
6	Roundup PowerMax (K salt)	4.5	SL	8	fl oz/a	POST	A				
6	Activator 90		L	0.25	% v/v	POST	A				
6	AMS		WG	17	lb/100 gal	POST	A				
7	1000 ppm Water					POST	A	0	73	83	55
7	CaCl2 (Dihydrate)		WG	15.8	oz/100 gal	POST	A				
7	MgCL2 (Hexahydrate)		WG	5.4	oz/100 gal	POST	A				
7	Bucaneer Plus (IPA salt)	3	SL	12	fl oz/a	POST	A				
7	Activator 90		L	0.25	% v/v	POST	A				
7	AMS		WG	17	lb/100 gal	POST	A				
8	1000 ppm Water					POST	A	0	82	73	83
8	CaCl2 (Dihydrate)		WG	15.8	oz/100 gal	POST	A				
8	MgCL2 (Hexahydrate)		WG	5.4	oz/100 gal	POST	A				
8	GLY	95	WG	0.3	lb/a	POST	A				
8	N-GO		L	0.5	% v/v	POST	A				
9	1000 ppm Water					POST	A	0	87	78	88
9	CaCl2 (Dihydrate)		WG	15.8	oz/100 gal	POST	A				
9	MgCL2 (Hexahydrate)		WG	5.4	oz/100 gal	POST	A				
9	GLY	95	WG	0.3	lb/a	POST	A				
9	N-GO		L	1	% v/v	POST	A				
10	1000 ppm Water					POST	A	0	92	98	90
10	CaCl2 (Dihydrate)		WG	15.8	oz/100 gal	POST	A				
10	MgCL2 (Hexahydrate)		WG	5.4	oz/100 gal	POST	A				
10	Roundup PowerMax (K salt)	4.5	SL	22	fl oz/a	POST	A				
10	AMS		WG	17	lb/100 gal	POST	A				
11	No Treatment										
12	1000 ppm Water					POST	A	0	91	98	96
12	CaCl2 (Dihydrate)		WG	15.8	oz/100 gal	POST	A				
12	MgCL2 (Hexahydrate)		WG	5.4	oz/100 gal	POST	A				
12	Roundup PowerMax (K salt)	4.5	SL	14	fl oz/a	POST	A				
12	Activator 90		L	0.25	% v/v	POST	A				
12	AMS		WG	17	lb/100 gal	POST	A				
13	1000 ppm Water					POST	A	0	90	95	96
13	CaCl2 (Dihydrate)		WG	15.8	oz/100 gal	POST	A				
13	MgCL2 (Hexahydrate)		WG	5.4	oz/100 gal	POST	A				
13	GLY	95	WG	0.53	lb/a	POST	A				
13	N-GO		L	1	% v/v	POST	A				

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Weed Code		ANGR	AMBEL	CHEAL
Crop Code	GLXMA			
Rating Data Type	injury	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	7/27/09	7/27/09	7/27/09	7/27/09
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
LSD (P=.05)								0.0	12.4	10.9	14.7
Standard Deviation								0.0	7.3	6.4	8.6
CV								0.0	9.35	8.09	13.02