

Evaluation of different adjuvants for use with glyphosate

Trial ID: SOY12-09 Study Dir.: Sprague, Powell
Conducted: B-8 Adam's Field Investigator: Christy Sprague

Date Planted: 5/25/09 Row Spacing: 30 IN
Variety: Pioneer 92M61 No. of Reps: 4
Population: 156,000 % OM: 2.8
Soil Type: Sandy Loam pH: 7.1
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring soil finished twice
Fertilizer: None

Crop and Weed Description

Table with 4 columns: Weed Code, Common Name, Scientific Name. Rows include AMAPO (AMARANTH, POWELL), CHEAL (LAMBSQUARTERS, COMMON), ANGR (mainly foxtail and panicum), and GLXMA (SOYBEAN).

Application Description

Application Timing: POST
Date Treated: 6/24/09
Time Treated: 11:45AM
% Cloud Cover: 0
Air Temp., Unit: 93 F
% Relative Humidity: 56
Wind Speed/Unit/Dir: 2 mph SW
Soil Temp., Unit: 75 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 4

Crop Stage at Each Application

Crop Name: GLXMA
Height (In.): 6
Stage (L): V2

Weed Stage at Each Application

Weed 1 Name: AMAPO
Height (In.): 6
Stage (L): many
Weed 2 Name: CHEAL
Height (In.): 3
Stage (L): many
Weed 3 Name: ANGR
Height (In.): 7
Stage (L): 4

Weed Density (plants/sq. ft.)

Table with 3 columns: Weed Name, Density. Rows for ANGR (14), AMAPO (18), CHEAL (15).

Application Equipment

Table with 11 columns: Appl, Sprayer Type, Speed MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Row A: Cub, 3.8, AirMix, 11003, 27", 20", 100", 19, water, 28.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	GLXMA injury percent 7/2/09 8 DA-A	ANGR control percent 7/2/09 8 DA-A	AMAPO control percent 7/2/09 8 DA-A	CHEAL control percent 7/2/09 8 DA-A	GLXMA injury percent 7/7/09 13 DA-A	ANGR control percent 7/7/09 13 DA-A	AMAPO control percent 7/7/09 13 DA-A	CHEAL control percent 7/7/09 13 DA-A	GLXMA injury percent 7/21/09 27 DA-A	ANGR control percent 7/21/09 27 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent 7/2/09 8 DA-A	ANGR control percent 7/2/09 8 DA-A	AMAPO control percent 7/2/09 8 DA-A	CHEAL control percent 7/2/09 8 DA-A	GLXMA injury percent 7/7/09 13 DA-A	ANGR control percent 7/7/09 13 DA-A	AMAPO control percent 7/7/09 13 DA-A	CHEAL control percent 7/7/09 13 DA-A	GLXMA injury percent 7/21/09 27 DA-A	ANGR control percent 7/21/09 27 DA-A
1	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	0	71	98	20	0	76	99	28	0	71
1	N Pak Liquid AMS		L	2.5	% v/v	POST	A										
2	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	3	96	99	89	0	98	99	97	0	93
2	Class Act NG		L	2.5	% v/v	POST	A										
3	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	5	93	98	82	0	99	99	93	0	93
3	Class Act NG		L	2.5	% v/v	POST	A										
3	InterLock		L	4	fl oz/a	POST	A										
4	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	4	91	98	80	0	99	99	84	0	90
4	Alliance		L	1.25	% v/v	POST	A										
5	Untreated							0	0	0	0	0	0	0	0	0	0
6	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	5	91	92	54	0	85	99	76	0	83
6	Placement ProPak		L	1	% v/v	POST	A										
7	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	4	95	95	85	0	97	98	83	0	89
7	AG 07090		L	1.25	% v/v	POST	A										
8	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	1	96	99	92	0	99	99	96	0	94
8	AG 08014		L	2	% v/v	POST	A										
9	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	1	48	91	39	0	44	99	35	0	64
9	AG 08005		L	2	% v/v	POST	A										
10	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	1	95	99	90	0	99	99	99	0	96
10	AG 08031		L	2	% v/v	POST	A										
11	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	3	97	99	95	0	98	99	99	0	94
11	AG 08034		L	2	% v/v	POST	A										

LSD (P=.05)	5.6	6.8	7.5	17.4	0.0	14.7	0.4	8.6	0.0	7.6
Standard Deviation	3.9	4.7	5.2	12.1	0.0	10.2	0.3	6.0	0.0	5.2
CV	162.5	5.93	5.92	18.3	0.0	12.54	0.32	8.33	0.0	6.67

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Weed Code AMAPO CHEAL
Crop Code
Rating Data Type control control
Rating Unit percent percent
Rating Date 7/21/09 7/21/09
Trt-Eval Interval 27 DA-A 27 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMAPO	CHEAL
1	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	99	50
1	N Pak Liquid AMS		L	2.5	% v/v	POST	A		
2	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	99	91
2	Class Act NG		L	2.5	% v/v	POST	A		
3	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	97	81
3	Class Act NG		L	2.5	% v/v	POST	A		
3	InterLock		L	4	fl oz/a	POST	A		
4	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	99	78
4	Alliance		L	1.25	% v/v	POST	A		
5	Untreated							0	0
6	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	96	70
6	Placement ProPak		L	1	% v/v	POST	A		
7	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	98	80
7	AG 07090		L	1.25	% v/v	POST	A		
8	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	99	96
8	AG 08014		L	2	% v/v	POST	A		
9	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	99	50
9	AG 08005		L	2	% v/v	POST	A		
10	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	99	93
10	AG 08031		L	2	% v/v	POST	A		
11	Touchdown HiTech	5	SL	10	fl oz/a	POST	A	99	96
11	AG 08034		L	2	% v/v	POST	A		

LSD (P=.05) 2.2 5.3
Standard Deviation 1.5 3.7
CV 1.67 5.12