

MSU Weed Science Research Program

Comparison of adjuvants with clethodim for volunteer corn control

Trial ID: SOY15-10 Study Dir.: Sprague, Powell
Conducted: H-5 Soils West Investigator: Christy Sprague

Date Planted: 5/28/2010 Row Spacing: 30 IN
Variety: Pioneer 92M61 No. of Reps: 4
Population: 157,000 seeds/acre % OM: 2.8
Soil Type: Loam pH: 6.1
Plot Size: 10 X 25 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring soil finish
Fertilizer: None

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists crop (GLXMA SOYBEAN) and weeds (ZEAMX, ABUTH, CHEAL, ANGR, AMBEL).

Application Description

A
Application Timing: POST
Date Treated: 6/21/2010
Time Treated: 1:45 pm
% Cloud Cover: 95
Air Temp., Unit: 82 F
% Relative Humidity: 55
Wind Speed/Unit/Dir: 3 mph S
Soil Temp., Unit: 75 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 4

Crop Stage at Each Application

A
Crop Name: GLXMA
Height (In.): 5-6"
Stage (L): V2

Weed Stage at Each Application

A
Weed 1 Name: ZEAMX
Height (In.): 10-12"
Stage (L): 6
Weed 2 Name: ABUTH
Height (In.): 1-3"
Stage (L): 5
Weed 3 Name: CHEAL
Height (In.): 1-2"
Stage (L): 6
Weed 4 Name: ANGR
Height (In.): 3-4"
Stage (L): 4-5
Weed 5 Name: AMBEL
Height (In.): 1-3"
Stage (L): 4-6

Weed Density (plants/sq. ft.)

1
Weed Name: ZEAMX
Density: 4

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Boom, Width, GPA, Carrier, PSI. Row A: Cub, 3.8, AirMix, 11003, 25", 20", 100", 19, water, 28

Comments: 5/28/10 - Spread volunteer RR seed corn and RR earcorn before soil finishing.

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Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, ZEAMX, ANGR, CHEAL, AMBEL, ABUTH. Includes LSD, Standard Deviation, and CV values at the bottom.

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Table with 8 columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., and seven treatment columns (ZEAMX, ANGR, CHEAL, AMBEL, ABUTH, GLXMA injury, GLXMA injury). Rows include injury percent, rating date (7/6/2010, 7/15/2010), and subsamples (0).

Main data table with 15 columns: Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, and seven treatment columns (ZEAMX, ANGR, CHEAL, AMBEL, ABUTH, GLXMA injury, GLXMA injury). Rows 1-5 show treatments like Roundup PowerMax, SelectMax, and Class Act NG with various rates and growth stages.

Summary statistics table with 8 columns: LSD (P=.05), Standard Deviation, CV, and seven treatment columns (ZEAMX, ANGR, CHEAL, AMBEL, ABUTH, GLXMA injury, GLXMA injury). Values range from 0.0 to 4.8.

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								ZEAMX	ANGR	CHEAL	AMBEL	ABUTH
Weed Code												
Crop Code												
Rating Data Type								control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent
Rating Date								7/15/2010	7/15/2010	7/15/2010	7/15/2010	7/15/2010
Trt-Eval Interval								24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A
# Subsamples, Dec.								0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code					
1	Roundup PowerMax	4.5	SL	11	fl oz/a	POST	A	0	95	97	99	99
1	N-PAK AMS			2.5	% v/v	POST	A					
2	Roundup PowerMax	4.5	SL	11	fl oz/a	POST	A	96	95	92	96	97
2	SelectMax	0.97	L	6	fl oz/a	POST	A					
2	N-PAK AMS		L	2.5	% v/v	POST	A					
3	Roundup PowerMax	4.5	SL	11	fl oz/a	POST	A	97	94	92	96	99
3	SelectMax	0.97	L	6	fl oz/a	POST	A					
3	Class Act NG		L	2.5	% v/v	POST	A					
3	AG 02013		L	4	fl oz/a	POST	A					
4	Roundup PowerMax	4.5	SL	11	fl oz/a	POST	A	98	94	99	97	98
4	SelectMax	0.97	L	6	fl oz/a	POST	A					
4	Destiny HC		L	0.75	pt/a	POST	A					
4	Class Act NG		L	2.5	% v/v	POST	A					
5	Roundup PowerMax	4.5	SL	11	fl oz/a	POST	A	97	97	96	93	97
5	SelectMax	0.97	L	6	fl oz/a	POST	A					
5	Destiny HC		L	0.75	pt/a	POST	A					
5	Class Act NG		L	2.5	% v/v	POST	A					
5	AG 02013		L	4	fl oz/a	POST	A					
LSD (P=.05)								3.6	3.0	5.2	3.3	2.6
Standard Deviation								2.3	1.9	3.3	2.2	1.7
CV								3.03	2.05	3.52	2.25	1.7

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