

MSU Weed Science Research Program

Comparison of Loveland Adjuvants with LI 6139

Trial ID: SOY15-07
Conducted: Quonset N

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted: 5/8/07	Row Spacing: 30 IN
Variety: Pioneer 91M91	No. of Reps: 4
Population: 155,000 Seeds/Acre	% OM: 2.6
Soil Type: Loam	pH: 7.0
Plot Size: 10 X 30 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel Plowed, Spring Soil Finish X2
Fertilizer: Spread 300# Urea/Acre on 3/18/07

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
2.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
3.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
4.	ANGR	mainly foxtail species	SETARIA SP.
5.	CHEAL	COMMON LAMBSQUARTERS	CHENOPODIUM ALBUM L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

A

Application Timing: POST
Date Treated: 6/11/07
Time Treated: 1:30 pm
% Cloud Cover: 33
Air Temp., Unit: 82 F
% Relative Humidity: 44
Wind Speed/Unit/Dir: 6 mph NE
Soil Temp., Unit: 82 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.): 5-6"
Stage (L): V2

Weed Stage at Each Application

A

Weed 1 Name: AMBEL
Height (In.): 1-2"
Stage (L): 4-8

Weed 2 Name: AMAPO
Height (In.): 1/2-2"
Stage (L): 4-8

Weed 3 Name: ABUTH
Height (In.): 1-2"
Stage (L): 2

Weed 4 Name: ANGR
Height (In.): 2-6"
Stage (L): 3-5

Weed 5 Name: CHEAL
Height (In.): 2-3"
Stage (L): many

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Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07
Weed Name:	CHEAL	ABUTH	ANGR	AMAPO	AMBEL
Density:	< 1	1	2	1	5

Application Equipment

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

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Weed Code	AMBEL	ABUTH	AMAPO	CHEAL	AMAPO	AMBEL	ABUTH	CHEAL	AMAPO
Crop Code									
Rating Data Type	control	control	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/18/07	6/18/07	6/18/07	6/26/07	6/26/07	6/26/07	6/26/07	7/2/07	7/2/07
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	21 DA-A	21 DA-A

Trt No.	Treatment Name	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8	9
1	LI 6139	SL	24	fl oz/a	POST	A	89	92	99	99	97	84	93	96	96
1	LI 6209	L	2	pt/100 gal	POST	A									
2	LI 6139	SL	24	fl oz/a	POST	A	86	95	98	99	98	85	96	98	97
2	LI 6209	L	3	pt/100 gal	POST	A									
3	LI 6139	SL	24	fl oz/a	POST	A	88	95	99	99	99	85	99	99	99
3	LI 6209	L	4	pt/100 gal	POST	A									
4	Untreated						0	0	0	0	0	0	0	0	0
5	LI 6139	SL	24	fl oz/a	POST	A	89	97	99	99	99	87	96	95	99
5	LI 6218	L	2	pt/100 gal	POST	A									
6	LI 6139	SL	24	fl oz/a	POST	A	88	94	99	99	99	89	94	98	99
6	LI 6218	L	4	pt/100 gal	POST	A									
7	LI 6139	SL	24	fl oz/a	POST	A	89	94	98	99	99	87	99	99	99
7	LI 6218	L	6	pt/100 gal	POST	A									
LSD (P=.05)							4.8	5.7	1.6	1.0	2.5	8.1	4.4	3.8	4.0
Standard Deviation							3.2	3.8	1.1	0.7	1.7	5.5	2.9	2.5	2.7
CV							4.25	4.75	1.3	0.82	2.01	7.39	3.58	3.03	3.2

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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Weed Code AMBEL ABUTH
 Crop Code
 Rating Data Type control control
 Rating Unit percent percent
 Rating Date 7/2/07 7/2/07
 Trt-Eval Interval 21 DA-A 21 DA-A

Trt No.	Treatment Name	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	10	11
1	LI 6139	SL	24	fl oz/a	POST	A	82	95
1	LI 6209	L	2	pt/100 gal	POST	A		
2	LI 6139	SL	24	fl oz/a	POST	A	87	97
2	LI 6209	L	3	pt/100 gal	POST	A		
3	LI 6139	SL	24	fl oz/a	POST	A	88	97
3	LI 6209	L	4	pt/100 gal	POST	A		
4	Untreated						0	0
5	LI 6139	SL	24	fl oz/a	POST	A	84	94
5	LI 6218	L	2	pt/100 gal	POST	A		
6	LI 6139	SL	24	fl oz/a	POST	A	84	96
6	LI 6218	L	4	pt/100 gal	POST	A		
7	LI 6139	SL	24	fl oz/a	POST	A	82	97
7	LI 6218	L	6	pt/100 gal	POST	A		
LSD (P=.05)							7.7	4.6
Standard Deviation							5.2	3.1
CV							7.14	3.74

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.