

MSU Weed Science Research Program

Valor-Sencor Combinations for Weed Control

Trial ID: SOY04-07
 Conducted: C-12W

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: 3.6
Soil Type: Loam	pH: 6.9
Plot Size: 10 X 28 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel Plow, Spring Soil Finish X2 5/8/07
Fertilizer: None at planting

Crop and Weed Description

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

Application Description

A

Application Timing: Pre
Date Treated: 5/8/07
Time Treated: 5:30 pm
% Cloud Cover: 20
Air Temp., Unit: 86 F
% Relative Humidity: 26
Wind Speed/Unit/Dir: 4 mph W
Soil Temp., Unit: 72 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.): -
Stage (L): -

Weed Stage at Each Application

A

Weed 1 Name: ANGR
Height (In.): -
Stage (L): -

Weed 2 Name: AMBEL
Height (In.): -
Stage (L): -

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

Weed 4 Name: AMAPO
Height (In.): -
Stage (L): -

Weed 5 Name: SOLPT
Height (In.): -
Stage (L): -

Weed 6 Name: CHEAL
Height (In.): -
Stage (L): -

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Weed Density (plants/sq. ft.)

	1	2	3	4	5	6
Date:	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07
Weed Name:	CHEAL	ABUTH	ANGR	AMBEL	AMAPO	SOLPT
Density:	1	2	28	20	1	< 1

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	23"	20"	100"	19	Water	27	

Comments: 6/15/07- Select Max(9oz) + COC(1%) applied to all treatments for annual grass control

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Weed Code										ANGR	AMBEL	ABUTH	AMAPO	SOLPT	CHEAL			AMBEL
Crop Code										GLXMA							GLXMA	AMBEL
Rating Data Type										injury	control	control	control	control	control	control	injury	control
Rating Unit										percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date										6/7/07	6/7/07	6/7/07	6/7/07	6/7/07	6/7/07	6/7/07	7/3/07	7/3/07
Trt-Eval Interval										30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	56 DA-A	56 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code											
1	Valor SX	51	WG	1.75	oz/a	PRE	A	0	49	50	60	58	97	70	1	45		
2	Valor SX	51	WG	1.75	oz/a	PRE	A	0	50	55	74	80	99	99	0	67		
2	Sencor	75	WG	3	oz/a	PRE	A											
3	Valor SX	51	WG	1.75	oz/a	PRE	A	0	71	79	89	93	99	99	0	80		
3	Sencor	75	WG	4	oz/a	PRE	A											
4	Valor SX	51	WG	1.75	oz/a	PRE	A	0	70	76	89	92	99	99	0	78		
4	Sencor	75	WG	5	oz/a	PRE	A											
5	Valor SX	51	WG	1.75	oz/a	PRE	A	0	74	91	93	99	99	99	1	88		
5	Sencor	75	WG	6	oz/a	PRE	A											
6	Valor SX	51	WG	1.75	oz/a	PRE	A	0	82	93	97	98	99	99	1	91		
6	Sencor	75	WG	8	oz/a	PRE	A											
7	Untreated							0	0	0	0	0	0	0	0	0		
8	Valor XLT	40.3	WG	3	oz/a	PRE	A	24	89	81	99	99	99	99	26	75		
LSD (P=.05)									1.3	8.3	8.4	9.0	11.0	2.3	0.5	7.3	16.3	
Standard Deviation									0.9	5.6	5.7	6.1	7.5	1.6	0.4	5.0	11.1	
CV									29.77	9.26	8.69	8.12	9.71	1.84	0.43	135.45	17.0	

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Weed Code	AMAPO	ABUTH
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	7/3/07	7/3/07
Trt-Eval Interval	56 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	Valor SX	51	WG	1.75	oz/a	PRE	A	75	70
2	Valor SX	51	WG	1.75	oz/a	PRE	A	87	79
2	Sencor	75	WG	3	oz/a	PRE	A		
3	Valor SX	51	WG	1.75	oz/a	PRE	A	87	82
3	Sencor	75	WG	4	oz/a	PRE	A		
4	Valor SX	51	WG	1.75	oz/a	PRE	A	81	83
4	Sencor	75	WG	5	oz/a	PRE	A		
5	Valor SX	51	WG	1.75	oz/a	PRE	A	86	86
5	Sencor	75	WG	6	oz/a	PRE	A		
6	Valor SX	51	WG	1.75	oz/a	PRE	A	86	94
6	Sencor	75	WG	8	oz/a	PRE	A		
7	Untreated							0	0
8	Valor XLT	40.3	WG	3	oz/a	PRE	A	99	99

LSD (P=.05)	10.5	6.8
Standard Deviation	7.1	4.6
CV	9.47	6.27