

Val or-Sencor Combi nati ons for Weed Control in Soybean

Trial ID: SOY02-08
 Conducted: T-10 Botany

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 5/8/08
 Variety: Pioneer 92M33
 Population: 156,000 seeds/Acre
 Soil Type: Sandy loam
 Plot Size: 10 X 35 FT

Row Spacing: 30 IN
 No. of Reps: 4
 % OM: 2.5
 pH: 7.6
 Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, soil finish x2 on 5/8/08
 Fertilizer: None at planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISII FOLIA L.
3.	AMASS	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.
4.	SINAR	MUSTARD, WILD	SINAPIS ARVENSIS L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

Application Timing: A
 Date Treated: PRE
 5/8/08
 Time Treated: 5:00 PM
 % Cloud Cover: 100
 Air Temp., Unit: 59 F
 % Relative Humidity: 49
 Wind Speed/Unit/Dir: 8 mph E
 Soil Temp., Unit: 61 F
 Soil/Leaf Surface M: 5 -
 Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

Crop Name: A
 GLXMA
 Height (In.): --
 Stage (L): --

Weed Stage at Each Application

Weed 1 Name: A
 CHEAL
 Height (In.): -
 Stage (L): -
 Weed 2 Name: AMBEL
 Height (In.): -
 Stage (L): -
 Weed 3 Name: AMASS
 Height (In.): -
 Stage (L): -
 Weed 4 Name: SINAR
 Height (In.): -
 Stage (L): -

Weed Density (plants/sq. ft.)

Date:	1	2	3	4	5	6	7
	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08
Weed Name:	CHEAL	ABUTH	ANGR	AMAPO	AMBEL	BRAKA	POLPE
Density:	26.9	0.125	4.4	1.5	18.6	7	0.9

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	Cub	3.8	AirMix	11003	21	20	100	19	water	28

MSU Weed Science Research Program
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Comments: Previous Crop- Fallow
6/5/08 applied SelectMax + COC (9 oz + 1%) to all treatments for annual grass control

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Weed Code	CHEAL	AMBEL	AMAPO	SINAR	CHEAL
Crop Code	GLXMA				
Rating Data Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	6/5/08	6/5/08	6/5/08	6/5/08	6/30/08
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	53 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Sencor	75	WG	5	oz/a	PRE	A	0	85	56	98	90	78
2	Valor SX	51	WG	2	oz/a	PRE	A	0	20	20	94	54	65
3	Valor SX	51	WG	2	oz/a	PRE	A	0	69	46	98	81	74
3	Sencor	75	WG	3	oz/a	PRE	A						
4	Valor SX	51	WG	2	oz/a	PRE	A	1	69	45	98	80	80
4	Sencor	75	WG	4	oz/a	PRE	A						
5	Valor SX	51	WG	2	oz/a	PRE	A	3	83	61	96	85	81
5	Sencor	75	WG	5	oz/a	PRE	A						
6	Untreated							0	0	0	0	0	0
7	Valor SX	51	WG	2	oz/a	PRE	A	3	75	45	99	85	75
7	Sencor	75	WG	4	oz/a	PRE	A						
7	V-10206	85	WG	1	oz/a	PRE	A						
8	Authority MTZ	45	WG	11	oz/a	PRE	A	1	99	71	99	91	99
9	Valor	51	WG	1.75	oz/a	PRE	A	1	79	54	99	85	80
9	Sencor	75	WG	4	oz/a	PRE	A						
LSD (P=.10)								3.0	12.4	14.3	2.7	10.0	7.9
Standard Deviation								2.4	10.3	11.8	2.3	8.3	6.6
CV								251.12	16.01	26.74	2.6	11.44	9.35

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Weed Code	AMBEL	AMAPO	SINAR
Crop Code			
Rating Data Type	control	control	control
Rating Unit	percent	percent	percent
Rating Date	6/30/08	6/30/08	6/30/08
Trt-Eval Interval	53 DA-A	53 DA-A	53 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	AMAPO	SINAR
1	Sencor	75	WG	5	oz/a	PRE	A	44	80	73
2	Valor SX	51	WG	2	oz/a	PRE	A	40	88	25
3	Valor SX	51	WG	2	oz/a	PRE	A	45	97	69
3	Sencor	75	WG	3	oz/a	PRE	A			
4	Valor SX	51	WG	2	oz/a	PRE	A	45	97	70
4	Sencor	75	WG	4	oz/a	PRE	A			
5	Valor SX	51	WG	2	oz/a	PRE	A	60	93	73
5	Sencor	75	WG	5	oz/a	PRE	A			
6	Untreated							0	0	0
7	Valor SX	51	WG	2	oz/a	PRE	A	58	99	73
7	Sencor	75	WG	4	oz/a	PRE	A			
7	V-10206	85	WG	1	oz/a	PRE	A			
8	Authority MTZ	45	WG	11	oz/a	PRE	A	39	99	84
9	Valor	51	WG	1.75	oz/a	PRE	A	49	92	71
9	Sencor	75	WG	4	oz/a	PRE	A			
LSD (P=.10)								12.0	5.4	7.4
Standard Deviation								9.9	4.5	6.1
CV								23.63	5.43	10.32