

MSU Weed Science Research Program

Potential PRE Herbicide Combinations for Weed Control in GAT Soybean

Trial ID: SOY11-08  
 Conducted: C-14 Campus

Study Dir.: Sprague, Powell  
 Investigator: Christy Sprague

Date Planted: \_\_\_\_\_ Row Spacing: 1 N  
 Variety: No crop No. of Reps: 4  
 Population: \_\_\_\_\_ % OM: 2.6  
 Soil Type: Sandy clay loam pH: 6.3  
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: 5/6/08- Soil Finished x 1

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISII FOLIA L.
5.	AMASS	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.

Application Description

A  
 Application Timing: PRE  
 Date Treated: 5/6/08  
 Time Treated: 5:45 PM  
 % Cloud Cover: 30  
 Air Temp., Unit: 75 F  
 % Relative Humidity: 25  
 Wind Speed/Unit/Dir: 4 mph SW  
 Soil Temp., Unit: 71 F  
 Soil/Leaf Surface M: 5 -  
 Soil Moist (1=w 5=d): 5

Weed Stage at Each Application

A  
 Weed 1 Name: ANGR  
 Height (In.): -  
 Stage (L): -  
 Weed 2 Name: CHEAL  
 Height (In.): -  
 Stage (L): -  
 Weed 3 Name: ABUTH  
 Height (In.): -  
 Stage (L): -  
 Weed 4 Name: AMBEL  
 Height (In.): -  
 Stage (L): -  
 Weed 5 Name: AMASS  
 Height (In.): -  
 Stage (L): -

Weed Density (plants/sq. ft.)

Date:	1	2	3	4	5
7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08
Weed Name:	CHEAL	ABUTH	ANGR	AMBEL	AMAPO
Density:	2.75	1.875	68.75	7.375	0.75

Application Equipment

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

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Weed Code	ANGR	CHEAL	AMBEL	ABUTH	ANGR
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	6/4/08	6/4/08	6/4/08	6/4/08	7/1/08
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	29 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Harmony SG	50	SG	0.5	oz/a	PRE	A	35	98	55	92	50
1	Classic	25	WG	0.33	oz/a	PRE	A					
1	Valor	51	WG	2	oz/a	PRE	A					
2	DPX-E9636 (Resolve)	25	WG	1	oz/a	PRE	A	85	99	79	98	88
2	Classic	25	WG	1	oz/a	PRE	A					
2	Valor	51	WG	2	oz/a	PRE	A					
3	Harmony SG	50	SG	0.2	oz/a	PRE	A	70	99	71	97	80
3	Classic	25	WG	1.3	oz/a	PRE	A					
3	Valor	51	WG	2	oz/a	PRE	A					
4	DPX-E9636 (Resolve)	25	WG	1.3	oz/a	PRE	A	88	99	86	99	93
4	Classic	25	WG	1.3	oz/a	PRE	A					
4	Valor	51	WG	3	oz/a	PRE	A					
5	Untreated							0	0	0	0	0
6	DPX-E9636 (Resolve)	25	WG	1	oz/a	PRE	A	90	99	85	99	97
6	Classic	25	WG	2	oz/a	PRE	A					
6	Valor	51	WG	2	oz/a	PRE	A					
7	DPX-E9636 (Resolve)	25	WG	1.5	oz/a	PRE	A	87	99	89	97	96
7	Classic	25	WG	2	oz/a	PRE	A					
7	Valor	51	WG	2	oz/a	PRE	A					
8	DPX-E9636 (Resolve)	25	WG	1	oz/a	PRE	A	96	99	87	99	94
8	Classic	25	WG	1	oz/a	PRE	A					
8	Dual II Magnum	7.64	EC	1	pt/a	PRE	A					
9	DPX-E9636 (Resolve)	25	WG	1.5	oz/a	PRE	A	96	99	91	99	98
9	Classic	25	WG	2	oz/a	PRE	A					
9	Dual II Magnum	7.64	EC	1	pt/a	PRE	A					
10	FirstRate	84	WG	0.33	oz/a	PRE	A	61	99	89	97	58
10	Authority	75	WG	2.9	oz/a	PRE	A					

LSD (P=.10)	10.4	0.8	6.7	4.6	7.0
Standard Deviation	8.6	0.6	5.6	3.8	5.8
CV	12.21	0.71	7.63	4.39	7.73

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Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								7/1/08	7/1/08	7/1/08	7/1/08
Trt-Eval Interval								56 DA-A	56 DA-A	56 DA-A	56 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
1	Harmony SG	50	SG	0.5	oz/a	PRE	A	99	99	38	96
1	Classic	25	WG	0.33	oz/a	PRE	A				
1	Valor	51	WG	2	oz/a	PRE	A				
2	DPX-E9636 (Resolve)	25	WG	1	oz/a	PRE	A	98	99	88	99
2	Classic	25	WG	1	oz/a	PRE	A				
2	Valor	51	WG	2	oz/a	PRE	A				
3	Harmony SG	50	SG	0.2	oz/a	PRE	A	99	99	74	99
3	Classic	25	WG	1.3	oz/a	PRE	A				
3	Valor	51	WG	2	oz/a	PRE	A				
4	DPX-E9636 (Resolve)	25	WG	1.3	oz/a	PRE	A	99	99	90	99
4	Classic	25	WG	1.3	oz/a	PRE	A				
4	Valor	51	WG	3	oz/a	PRE	A				
5	Untreated							0	0	0	0
6	DPX-E9636 (Resolve)	25	WG	1	oz/a	PRE	A	99	99	89	99
6	Classic	25	WG	2	oz/a	PRE	A				
6	Valor	51	WG	2	oz/a	PRE	A				
7	DPX-E9636 (Resolve)	25	WG	1.5	oz/a	PRE	A	99	99	89	99
7	Classic	25	WG	2	oz/a	PRE	A				
7	Valor	51	WG	2	oz/a	PRE	A				
8	DPX-E9636 (Resolve)	25	WG	1	oz/a	PRE	A	99	99	64	98
8	Classic	25	WG	1	oz/a	PRE	A				
8	Dual II Magnum	7.64	EC	1	pt/a	PRE	A				
9	DPX-E9636 (Resolve)	25	WG	1.5	oz/a	PRE	A	99	99	68	99
9	Classic	25	WG	2	oz/a	PRE	A				
9	Dual II Magnum	7.64	EC	1	pt/a	PRE	A				
10	FirstRate	84	WG	0.33	oz/a	PRE	A	99	99	54	99
10	Authority	75	WG	2.9	oz/a	PRE	A				
LSD (P=.10)								0.8	0.0	9.8	2.7
Standard Deviation								0.6	0.0	8.1	2.2
CV								0.71	0.0	12.42	2.52