

MSU Weed Science Research Program

Weed control with Valor (flumioxazin) products in soybean

Trial ID: SOY05-12
Conducted: T-12 Campus

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted: May/17/2012 **Row Spacing:** 30 IN
Variety: Asgrow 2330 **No. of Reps:** 4
Population: 150,000 seeds/acre **% OM:** 3.2
Soil Type: Loam **pH:** 6.8
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, spring soil finish
Fertilizer: None at planting
Crop Code Common Name
1. GLXMA SOYBEAN

Application Description

Application Timing: A
PRE
Date Treated: May/17/2012
Time Treated: 5:20 PM
% Cloud Cover: 10
Air Temp., Unit: 72 F
% Relative Humidity: 26
Wind Speed/Unit/Dir: 1 mph W
Soil Temp., Unit: 69 F
Soil/Leaf Surface M: 3 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

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

Weed Density (plants/sq. ft.)

1
Weed Name: ANGR
Density: 41
Weed Name: CHEAL
Density: 4
Weed Name: AMAPO
Density: 5
Weed Name: AMBEL
Density: 3
Weed Name: ABUTH
Density: <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	AIXR	11003	22"	20"	100"	19	Water	28

Comments: 6/14/12- Broadcast application of Roundup PowerMax (22 fl oz/A) + AMS (17 lb/100 gal) to entire study

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Weed Code		ANGR	CHEAL	AMAPO	AMBEL
Crop Code	GLXMA				
Rating Data Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/13/2012	Jun/13/2012	Jun/13/2012	Jun/13/2012	Jun/13/2012
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
ARM Action Codes					
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Form Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2	oz/a	PRE	A	4	48	50	70	55
2	Valor	51	WG	3	oz/a	PRE	A	5	50	53	71	50
3	Valor XLT	40	WG	3	oz/a	PRE	A	0	50	50	70	56
4	Fierce	76	WG	3	oz/a	PRE	A	0	48	50	72	53
5	Fierce	76	WG	3.75	oz/a	PRE	A	5	50	53	70	54
6	Fierce	76	WG	4.5	oz/a	PRE	A	8	55	53	65	48
7	Fierce XLT (4 oz)							5	50	55	77	58
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	V-10206 (Premix)	85	WG	1	oz/a	PRE	A					
8	Untreated							0	0	0	0	0
LSD (P=.05)								5.5	4.8	4.4	10.1	13.2
CV								114.74	7.48	6.65	10.91	19.31

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code		ANGR	CHEAL	AMAPO	AMBEL
Crop Code	GLXMA				
Rating Data Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/25/2012	Jun/25/2012	Jun/25/2012	Jun/25/2012	Jun/25/2012
Trt-Eval Interval	11 DAT	11 DAT	11 DAT	11 DAT	11 DAT
ARM Action Codes					
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code					
1	Valor	51	WG	2	oz/a	PRE	A	0	97	92	99	94
2	Valor	51	WG	3	oz/a	PRE	A	2	99	96	99	92
3	Valor XLT	40	WG	3	oz/a	PRE	A	2	99	97	99	97
4	Fierce	76	WG	3	oz/a	PRE	A	2	98	95	99	97
5	Fierce	76	WG	3.75	oz/a	PRE	A	1	99	98	99	94
6	Fierce	76	WG	4.5	oz/a	PRE	A	2	99	98	99	96
7	Fierce XLT (4 oz)							1	99	97	99	96
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	V-10206 (Premix)	85	WG	1	oz/a	PRE	A					
8	Untreated							0	99	84	99	94
LSD (P=.05)								2.0	2.4	5.1	0.0	5.2
CV								101.3	1.67	3.69	0.0	3.7

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	ABUTH		ANGR	CHEAL	AMAPO
Crop Code		GLXMA			
Rating Data Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/25/2012	Jul/09/2012	Jul/09/2012	Jul/09/2012	Jul/09/2012
Trt-Eval Interval	11 DAT	25 DAT	25 DAT	25 DAT	25 DAT
ARM Action Codes					
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code					
1	Valor	51	WG	2	oz/a	PRE	A	99	0	99	96	98
2	Valor	51	WG	3	oz/a	PRE	A	99	0	99	97	99
3	Valor XLT	40	WG	3	oz/a	PRE	A	99	0	99	99	99
4	Fierce	76	WG	3	oz/a	PRE	A	99	0	99	97	99
5	Fierce	76	WG	3.75	oz/a	PRE	A	99	0	99	99	99
6	Fierce	76	WG	4.5	oz/a	PRE	A	99	0	99	99	99
7	Fierce XLT (4 oz)							99	0	99	99	99
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	V-10206 (Premix)	85	WG	1	oz/a	PRE	A					
8	Untreated							99	0	99	90	99
LSD (P=.05)								0.0	0.0	0.6	5.4	1.1
CV								0.0	0.0	0.38	3.77	0.75

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
Crop Code						
Rating Data Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Rating Date	Jul/09/2012	Jul/09/2012	Jul/26/2012	Jul/26/2012	Jul/26/2012	Jul/26/2012
Trt-Eval Interval	25 DAT	25 DAT	42 DAT	42 DAT	42 DAT	42 DAT
ARM Action Codes						
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code						
1	Valor	51	WG	2	oz/a	PRE	A	97	99	0	91	93	99
2	Valor	51	WG	3	oz/a	PRE	A	95	99	0	95	97	97
3	Valor XLT	40	WG	3	oz/a	PRE	A	99	99	0	93	99	99
4	Fierce	76	WG	3	oz/a	PRE	A	98	99	0	99	95	99
5	Fierce	76	WG	3.75	oz/a	PRE	A	97	99	0	98	99	99
6	Fierce	76	WG	4.5	oz/a	PRE	A	99	99	0	98	99	99
7	Fierce XLT (4 oz)							99	99	0	97	99	99
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A						
	Valor (Premix)	51	WG	2	oz/a	PRE	A						
	V-10206 (Premix)	85	WG	1	oz/a	PRE	A						
8	Untreated							94	99	0	83	86	87
LSD (P=.05)								3.3	0.0	0.0	5.5	4.6	1.9
CV								2.31	0.0	0.0	3.99	3.25	1.31

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Weed Code	AMBEL	ABUTH	GLXMA	GLXMA
Crop Code				
Rating Data Type	control	control	moisture	yield
Rating Unit	percent	percent	percent	bu/acre
Rating Date	Jul/26/2012	Jul/26/2012	Oct/01/2012	Oct/01/2012
Trt-Eval Interval	42 DAT	42 DAT	137 DA-A	at 13% M
ARM Action Codes				TY1
# Subsamples, Dec.	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	AMBEL	ABUTH	GLXMA moisture	GLXMA yield
1	Valor	51	WG	2	oz/a	PRE	A	98	99	9.9	47.2
2	Valor	51	WG	3	oz/a	PRE	A	97	99	9.9	46.7
3	Valor XLT	40	WG	3	oz/a	PRE	A	99	99	9.9	50.2
4	Fierce	76	WG	3	oz/a	PRE	A	99	99	10.0	50.1
5	Fierce	76	WG	3.75	oz/a	PRE	A	99	99	10.0	48.2
6	Fierce	76	WG	4.5	oz/a	PRE	A	99	99	9.9	49.9
7	Fierce XLT (4 oz)							99	99	9.9	50.4
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A				
	Valor (Premix)	51	WG	2	oz/a	PRE	A				
	V-10206 (Premix)	85	WG	1	oz/a	PRE	A				
8	Untreated							92	99	10.0	45.6
LSD (P=.05)								3.3	0.0	0.18	5.48
CV								2.28	0.0	1.21	7.68

Means followed by same letter do not significantly differ (P=.05, LSD)