

Comparison of Valor (flumioxazin) products in no-till soybean

Trial ID: NTS03-09 Study Dir.: Sprague, Powell
Conducted: C-27N Campus Investigator: Christy Sprague

Date Planted: 5/19/09 Row Spacing: 7.5 IN
Variety: Asgrow 2107 No. of Repts: 4
Population: 200,000 % OM: 3.1
Soil Type: Sandy Loam pH: 6.4
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-till drilled into standing corn stubble
Fertilizer: None

Crop and Weed Description

Table with 4 columns: Weed Code, Common Name, Scientific Name, and Crop Code. Lists weeds like TAROF, ERICA, STEME, ANGR, AMBEL, CHEAL and crop GLXMA (SOYBEAN).

Application Description

Table comparing application details for treatments A and B, including timing, date, time, cloud cover, air temp, humidity, wind speed, soil temp, and soil moisture.

Crop Stage at Each Application

Table showing crop name (GLXMA) and stage (V3-V4) for treatments A and B.

Weed Stage at Each Application

Table showing weed names (TAROF, ERICA, STEME, ANGR, AMBEL, CHEAL) and their height and stage for treatments A and B.

Weed Density (plants/sq. ft.)

Table showing weed density for treatments 1 through 6, listing weed names and their respective densities.

Application Equipment

Table comparing application equipment for treatments A and B, including sprayer type, speed, nozzle size and height, boom width, GPA, carrier, and PSI.

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Weed Code	STEME	ERICA	TAROF	ANGR	AMBEL	GLXMA	ERICA	ANGR
Crop Code	GLXMA	control	control	control	control	Injury	control	control
Rating Data Type	Injury	percent	percent	percent	percent	percent	percent	percent
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/16/09	6/16/09	6/16/09	6/16/09	6/16/09	6/26/09	6/26/09	6/26/09
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	45 DA-A	45 DA-A	45 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	0	98	99	99	85	93	0	97	0
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	0	98	99	99	85	93	0	97	0
1	AMS		WG	17	lb/100 gal	EPP	A									
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
1	AMS		WG	17	lb/100 gal	POST	B									
2	Valor	51	WG	2.5	oz/a	EPP	A	0	99	99	98	98	98	0	97	93
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A									
2	AMS		WG	17	lb/100 gal	EPP	A									
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
2	AMS		WG	17	lb/100 gal	POST	B									
3	Valor XLT	40.3	WG	3	oz/a	EPP	A	0	99	99	99	99	96	0	96	91
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A									
3	AMS		WG	17	lb/100 gal	EPP	A									
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
3	AMS		WG	17	lb/100 gal	POST	B									
4	Untreated							0	0	0	0	0	0	0	0	0
5	Gangster (2.4 oz/A)							3	99	99	99	93	97	0	97	83
5	Gangster V	51	WG	2	oz/a	EPP	A									
5	Gangster FR	84	WG	0.4	oz/a	EPP	A									
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A									
5	AMS		WG	17	lb/100 gal	EPP	A									
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
5	AMS		WG	17	lb/100 gal	POST	B									
6	V-10233	76	WG	3	oz/a	EPP	A	0	99	99	97	94	91	0	97	92
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A									
6	AMS		WG	17	lb/100 gal	EPP	A									
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
6	AMS		WG	17	lb/100 gal	POST	B									
7	Valor	51	WG	2	oz/a	EPP	A	1	99	99	98	99	83	0	99	91
7	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A									
7	AMS		WG	17	lb/100 gal	EPP	A									
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
7	AMS		WG	17	lb/100 gal	POST	B									
8	Envive (3 oz/A)	41.3	WG					0	99	99	99	98	95	0	95	89
8	Classic	25	WG	1.1	oz/a	EPP	A									
8	Harmony SG	50	WG	0.178	oz/a	EPP	A									
8	Valor	51	WG	1.71	oz/a	EPP	A									
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A									
8	AMS		WG	17	lb/100 gal	EPP	A									
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
8	AMS		WG	17	lb/100 gal	POST	B									
LSD (P=.05)								3.0	1.0	0.8	1.7	7.8	15.5	0.0	5.3	11.8
Standard Deviation								2.0	0.7	0.5	1.2	5.3	10.6	0.0	3.6	8.0
CV								429.59	0.82	0.59	1.36	6.33	12.96	0.0	4.24	11.94

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Weed Code		CHEAL		AMBEL		GLXMA		ANGR		AMBEL		ERICA		NOTILL		GLXMA	
Crop Code		control		control		Injury		control		control		control		control		moisture	
Rating Data Type		percent		percent		percent		percent		percent		percent		percent		percent	
Rating Unit		6/26/09		6/26/09		7/16/09		7/16/09		7/16/09		7/16/09		7/16/09		10/12/09	
Rating Date		45 DA-A		45 DA-A		65 DA-A		65 DA-A		65 DA-A		65 DA-A		65 DA-A		153 DA-A	
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code										
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	0	0	0	96	99	99	84	16.3		
1	AMS		WG	17	lb/100 gal	EPP	A										
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B										
1	AMS		WG	17	lb/100 gal	POST	B										
2	Valor	51	WG	2.5	oz/a	EPP	A	93	83	0	98	99	99	92	16.4		
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A										
2	AMS		WG	17	lb/100 gal	EPP	A										
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B										
2	AMS		WG	17	lb/100 gal	POST	B										
3	Valor XLT	40.3	WG	3	oz/a	EPP	A	99	91	0	98	99	99	98	17.3		
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A										
3	AMS		WG	17	lb/100 gal	EPP	A										
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B										
3	AMS		WG	17	lb/100 gal	POST	B										
4	Untreated							0	0	0	0	0	0	0	21.6		
5	Gangster (2.4 oz/A)							99	90	0	97	99	99	89	17.0		
5	Gangster V	51	WG	2	oz/a	EPP	A										
5	Gangster FR	84	WG	0.4	oz/a	EPP	A										
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A										
5	AMS		WG	17	lb/100 gal	EPP	A										
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B										
5	AMS		WG	17	lb/100 gal	POST	B										
6	V-10233	76	WG	3	oz/a	EPP	A	98	81	0	99	99	99	83	16.5		
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A										
6	AMS		WG	17	lb/100 gal	EPP	A										
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B										
6	AMS		WG	17	lb/100 gal	POST	B										
7	Valor	51	WG	2	oz/a	EPP	A	92	69	0	98	98	99	91	17.1		
7	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A										
7	AMS		WG	17	lb/100 gal	EPP	A										
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B										
7	AMS		WG	17	lb/100 gal	POST	B										
8	Envive (3 oz/A)	41.3	WG					99	94	0	97	99	99	97	16.2		
8	Classic	25	WG	1.1	oz/a	EPP	A										
8	Harmony SG	50	WG	0.178	oz/a	EPP	A										
8	Valor	51	WG	1.71	oz/a	EPP	A										
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A										
8	AMS		WG	17	lb/100 gal	EPP	A										
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B										
8	AMS		WG	17	lb/100 gal	POST	B										
LSD (P=.05)								5.1	14.4	0.0	2.4	1.0	0.0	11.8	2.27		
Standard Deviation								3.5	9.8	0.0	1.6	0.7	0.0	8.0	1.54		
CV								4.79	15.39	0.0	1.93	0.82	0.0	10.14	8.92		

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

GLXMA  
 yield  
 bu/acre  
 10/12/09  
 at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	62.0
1	AMS		WG	17	lb/100 gal	EPP	A	
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
1	AMS		WG	17	lb/100 gal	POST	B	
2	Valor	51	WG	2.5	oz/a	EPP	A	68.5
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	
2	AMS		WG	17	lb/100 gal	EPP	A	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
2	AMS		WG	17	lb/100 gal	POST	B	
3	Valor XLT	40.3	WG	3	oz/a	EPP	A	60.9
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	
3	AMS		WG	17	lb/100 gal	EPP	A	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
3	AMS		WG	17	lb/100 gal	POST	B	
4	Untreated							23.4
5	Gangster (2.4 oz/A)							67.0
5	Gangster V	51	WG	2	oz/a	EPP	A	
5	Gangster FR	84	WG	0.4	oz/a	EPP	A	
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	
5	AMS		WG	17	lb/100 gal	EPP	A	
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
5	AMS		WG	17	lb/100 gal	POST	B	
6	V-10233	76	WG	3	oz/a	EPP	A	59.0
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	
6	AMS		WG	17	lb/100 gal	EPP	A	
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
6	AMS		WG	17	lb/100 gal	POST	B	
7	Valor	51	WG	2	oz/a	EPP	A	65.7
7	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	
7	AMS		WG	17	lb/100 gal	EPP	A	
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
7	AMS		WG	17	lb/100 gal	POST	B	
8	Envive (3 oz/A)	41.3	WG					66.3
8	Classic	25	WG	1.1	oz/a	EPP	A	
8	Harmony SG	50	WG	0.178	oz/a	EPP	A	
8	Valor	51	WG	1.71	oz/a	EPP	A	
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPP	A	
8	AMS		WG	17	lb/100 gal	EPP	A	
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
8	AMS		WG	17	lb/100 gal	POST	B	
LSD (P=.05)								8.92
Standard Deviation								6.07
CV								10.27