

Early POST Applications of V-10206 in Soybean.

Trial ID: 08-50E-M40 Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 06-17-08

Objectives: Evaluate the addition of V-10206 to glyphosate for extended residual control of waterhemp compared to Valor PRE.

Crop 1: GLXMA Soybean Variety: AG 4404 RR/STS
 Planting Method: SEEDED Planting Date: 06-17-08
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: PANDI Panicum dichotomiflorum Michx. panicum, fall
 Pest 2 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 4 Type: W Code: IPOSS Ipomoea sp. morningglory, species
 Pest 5 Type: W Code: CYPES Cyperus esculentus L. nutsedge, yellow

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2007

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 2.2 Texture: SILT LOAM
 pH: 6.7 Soil Name: PIERRON
 CEC: 12 Fert. Level: P1: 101 LB/A, K: 388 LB/A

Application Description

	A	B
Application Date:	06-17-08	07-14-08
Time of Day:	15:45	10:00
Application Method:	Spray	Spray
Application Timing:	PRE	EPOST
Application Placement:	BROSOI	BROFOL
Applied By:	DKT	TGM
Air Temperature, Unit:	78 F	79 F
% Relative Humidity:	40	71
Wind Velocity, Unit:	8 MPH	1 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	81 F	75 F
Soil Moisture:	NORMAL	ABONOR
% Cloud Cover:	0	0
	06-17-08	07-14-08
Crop stage at application:	NA	V3
Height Min, Max (inch):		8 12

Pest Stage At Each Application

	A	B
Application Date:	06-17-08	07-14-08
Weed Code:	PANDI	PANDI
Stage Majority (leaves):	NA	4
Stage Min, Max:		3 6
Height Majority:		8 IN
Height Min, Max:		2 12
Density, Unit:		0.2 FT2
Weed Code:	AMBTR	AMBTR
Stage Majority (leaves):	NA	6
Stage Min, Max:		2 8
Height Majority:		4 IN
Height Min, Max:		1 7
Density, Unit:		2 FT2
Weed Code:	AMATA	AMATA
Stage Majority (leaves):	NA	COTY
Stage Min, Max:		COTY 2
Height Majority:		1 IN
Height Min, Max:		1 2
Density, Unit:		0.1 FT2
Weed Code:	IPOSS	IPOSS
Stage Majority (leaves):	NA	5
Stage Min, Max:		COTY 7
Height Majority:		3 IN
Height Min, Max:		1 5
Density, Unit:		1 FT2
Weed Code:	CYPES	CYPES
Stage Majority (leaves):	NA	6
Stage Min, Max:		3 8
Height Majority:		10 IN
Height Min, Max:		4 12
Density, Unit:		0.5 FT2

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Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Trial ID: 08-50E-M40 Location: Belleville Res. Center

Pest Code										
Crop Code										
Rating Date								GLXMA	GLXMA	GLXMA
Rating Data Type								07-14-08	07-28-08	08-11-08
Rating Unit								Injury	Injury	Injury
Rating Timing								Percent	Percent	Percent
Trt-Eval Interval								27 DA-A	14 DA-B	28 DA-B
								0 DA-B	35 DA-B	42 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED										0 b	0 a	0 a	0 a
2	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A		6 a	0 a	0 a	0 a
3	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A		6 a	0 a	0 a	0 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
4	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A		6 a	0 a	0 a	0 a
4	V-10206	85	WG	0.053	lb ai/a	1	oz/a	EPOST	B					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
5	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A		7 a	0 a	0 a	0 a
5	V-10206	85	WG	0.08	lb ai/a	1.5	oz/a	EPOST	B					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
6	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A		6 a	0 a	0 a	0 a
6	V-10206	85	WG	0.106	lb ai/a	2	oz/a	EPOST	B					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
7	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A		7 a	0 a	0 a	0 a
7	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	EPOST	B					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
LSD (P=.05)										2.1	0.0	0.0	0.0	0.0
Replicate F										3.359	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.0694	1.0000	1.0000	1.0000	1.0000
Treatment F										11.402	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0002	1.0000	1.0000	1.0000	1.0000

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

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							PANDI	PANDI	PANDI	PANDI	PANDI
							07-14-08	07-28-08	08-11-08	08-18-08	08-25-08
							Control	Control	Control	Control	Control
							Percent	Percent	Percent	Percent	Percent
							27 DA-A	14 DA-B	28 DA-B	35 DA-B	42 DA-B
							0 DA-B	14 DA-B	28 DA-B	35 DA-B	42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0 b	0 b
2	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	77 a	99 a
3	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	80 a	99 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B		
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B		
4	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	83 a	99 a
4	V-10206	85	WG	0.053	lb ai/a	1	oz/a	EPOST	B		
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B		
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B		
5	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	77 a	99 a
5	V-10206	85	WG	0.08	lb ai/a	1.5	oz/a	EPOST	B		
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B		
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B		
6	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	77 a	99 a
6	V-10206	85	WG	0.106	lb ai/a	2	oz/a	EPOST	B		
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B		
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B		
7	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	77 a	99 a
7	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	EPOST	B		
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B		
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B		
LSD (P=.05)						20.3	0.0	0.0	0.0	0.0	
Replicate F						1.427	0.000	0.000	0.000	0.000	
Replicate Prob(F)						0.2780	1.0000	1.0000	1.0000	1.0000	
Treatment F						20.354	0.000	0.000	0.000	0.000	
Treatment Prob(F)						0.0001	1.0000	1.0000	1.0000	1.0000	

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

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Trial ID: 08-50E-M40 Location: Belleville Res. Center

Pest Code		AMBTR												
Crop Code		AMBTR												
Rating Date		07-14-08	07-28-08	08-11-08	08-18-08	08-25-08								
Rating Data Type		Control	Control	Control	Control	Control								
Rating Unit		Percent	Percent	Percent	Percent	Percent								
Rating Timing		27 DA-A	14 DA-B	28 DA-B	35 DA-B	42 DA-B								
Trt-Eval Interval		0 DA-B	14 DA-B	28 DA-B	35 DA-B	42 DA-B								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 b	0 c	0 c	0 b	0 b
2	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	68 a	13 b	7 b	0 b	0 b
3	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	68 a	91 a	89 a	93 a	92 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
4	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	72 a	88 a	88 a	92 a	92 a
4	V-10206	85	WG	0.053	lb ai/a	1	oz/a	EPOST	B					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
5	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	70 a	92 a	91 a	93 a	90 a
5	V-10206	85	WG	0.08	lb ai/a	1.5	oz/a	EPOST	B					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
6	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	70 a	87 a	87 a	90 a	89 a
6	V-10206	85	WG	0.106	lb ai/a	2	oz/a	EPOST	B					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
7	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	68 a	89 a	88 a	88 a	88 a
7	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	EPOST	B					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
LSD (P=.05)										5.5	10.8	5.4	5.1	6.7
Replicate F										5.375	2.081	4.280	1.000	1.268
Replicate Prob(F)										0.0215	0.1676	0.0395	0.3966	0.3166
Treatment F										217.500	135.837	570.059	716.143	408.413
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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		AMATA												
		AMATA	AMATA	AMATA	AMATA	AMATA								
		07-14-08	07-28-08	08-11-08	08-18-08	08-25-08								
		Control	Control	Control	Control	Control								
		Percent	Percent	Percent	Percent	Percent								
		27 DA-A	14 DA-B	28 DA-B	35 DA-B	42 DA-B								
		0 DA-B	14 DA-B	28 DA-B	35 DA-B	42 DA-B								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 b	0 b	0 b	0 b	0 b
2	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
3	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
4	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
4	V-10206	85	WG	0.053	lb ai/a	1	oz/a	EPOST	B					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
5	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
5	V-10206	85	WG	0.08	lb ai/a	1.5	oz/a	EPOST	B					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
6	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
6	V-10206	85	WG	0.106	lb ai/a	2	oz/a	EPOST	B					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
7	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
7	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	EPOST	B					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Code	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code	07-14-08	07-28-08	08-11-08	08-18-08	08-25-08
Rating Date	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent
Rating Unit	27 DA-A	14 DA-B	28 DA-B	35 DA-B	42 DA-B
Rating Timing	0 DA-B				
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
1	NONTREATED									0 c	0 c	0 c	0 c	0 c
2	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	53 b	67 b	67 b	57 b	63 b
3	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	62 a	83 a	83 a	95 a	95 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
4	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	58 ab	85 a	84 a	92 a	95 a
4	V-10206	85	WG	0.053	lb ai/a	1	oz/a	EPOST	B					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
5	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	60 ab	88 a	87 a	95 a	95 a
5	V-10206	85	WG	0.08	lb ai/a	1.5	oz/a	EPOST	B					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
6	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	58 ab	80 a	80 a	92 a	95 a
6	V-10206	85	WG	0.106	lb ai/a	2	oz/a	EPOST	B					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
7	VALOR SX	51	WG	0.078	lb ai/a	2.45	oz/a	PRE	A	57 ab	87 a	85 a	88 a	92 a
7	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	EPOST	B					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPOST	B					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	EPOST	B					
LSD (P=.05)										7.9	11.3	10.8	8.1	7.8
Replicate F										1.140	4.945	4.970	1.600	1.286
Replicate Prob(F)										0.3521	0.0271	0.0268	0.2421	0.3119
Treatment F										73.840	74.578	80.286	179.714	196.061
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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