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VALOR SX INTERACTIONS WITH ACETACHLOR

Trial ID: 13S-THP-CTS-47 Protocol ID: 13S-THP-CTS-47
Location: Throckmorton Study Director:
Project ID: VUSA2013VALORSXMD64.02 Investigator: Dr. Bill Johnson
Sponsor Contact: Valent - Eric Ott

General Trial Information

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: Mar-18-2013

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA

Personnel

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S
Phone No.: 765-538-3422
City: Lafayette **Fax No.:** 765-538-3423
State/Prov: IN
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: GLXM02 Glycine max GMO Soybean, Roundup Ready
Variety: Asgrow AG2931 **Description:** RR
BBCH Scale: BSOY **Planting Date:** May-16-2013
Planting Method: SEEDED seeded **Rate, Unit:** 130000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 68 F
Soil Moisture: SLIWET slightly wet **Emergence Date:** May-22-2013

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Maintenance

No.	Date	Maintenance Treatment Name	Rate	Rate Unit
1.	Jun-20-2013	BULK RUP	22	OZ/A
2.	Jul-9-2013	BULK RUP	22	OZ/A

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Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

Application Description

	A
Application Date:	May-16-2013
Time of Day:	AM
Application Method:	SPRAY
Application Timing:	PREE
Application Placement:	SOIL
Applied By:	MW
Air Temperature, Unit:	68 F
% Relative Humidity:	73
Wind Velocity, Unit:	3 MPH
Wind Direction:	E
Dew Presence (Y/N):	Y yes
Soil Temperature, Unit:	68 F
Soil Moisture:	SLIWET
% Cloud Cover:	80

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXM0 BSOY

Application Equipment

	A
Appl. Equipment:	CO2 FORD
Equipment Type:	SPTRMO
Nozzle Type:	FLAT FAN
Nozzle Size:	XR 100 02
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	6
Boom Length, Unit:	10 FT
Boom Height, Unit:	20 IN
Ground Speed, Unit:	2.1 MPH
Carrier:	MEIGS
Spray Volume, Unit:	20 gal/ac
Mix Size, Unit:	2.5 liters
Propellant:	CO2

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Location: Throckmorton Study Director:
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Sponsor Contact: Valent - Eric Ott

Reps: 4 Plots: 10 by 30 feet
Spray vol: 20 gal/ac Mix size: 2.5 liters (min 2.0856)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
1	Untreated Check												101	504	801	803
2	FIERCE	76	%W/W	WG	2.85	oz ai/a	3.75	oz wt/a	PREE	A		3.511 g/mx	102	303	601	902
3	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	103	304	704	1001
4	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	104	404	702	901
	HARNESS	7	LB/GAL	EC	1.5	lb ai/a	1.71	pt/a	PREE	A		26.78 ml/mx				
5	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	201	503	604	1003
	WARRANT HERBICIDE	3	LB/GAL	EC	1.5	lb ai/a	4	pt/a	PREE	A		62.49 ml/mx				
6	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	202	403	703	1004
	HARNESS	7	LB/GAL	EC	3	lb ai/a	3.43	pt/a	PREE	A		53.57 ml/mx				
7	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	203	501	802	1002
	WARRANT HERBICIDE	3	LB/GAL	EC	3	lb ai/a	8	pt/a	PREE	A		125.0 ml/mx				
8	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	204	502	603	903
	Zidua (85 WG)	85	%	WG	3.19	oz ai/a	3.75	oz wt/a	PREE	A	2x Fierce rate	3.513 g/mx				
9	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	301	402	701	804
	Outlook (6.0 EC)	6	LBA/GAL	EC	0.75	lb ai/a	16	fl oz/a	PREE	A		15.62 ml/mx				
10	VALOR SX	51	%W/W	WG	0.078	lb ai/a	2.45	oz wt/a	PREE	A		2.291 g/mx	302	401	602	904
	Outlook (6.0 EC)	6	LBA/GAL	EC	1.5	lb ai/a	32	fl oz/a	PREE	A		31.25 ml/mx				

Sort Order: Treatment

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Location: Throckmorton Study Director:
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Sponsor Contact: Valent - Eric Ott

Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	1	2	3	4	5	6
	Pest Type								W Weed	W Weed	W Weed
	Pest Code								SETFA	AMBTR	SETFA
	Pest Scientific Name								Setaria faberi	Ambrosia trifi>	Setaria faberi
	Pest Name								Giant foxtail	Giant ragweed	Giant foxtail
	Crop Code					GLXM02	GLXM02	GLXM02			
	BBCH Scale					BSOY	BSOY				
	Crop Scientific Name					Glycine max GMO	Glycine max GMO	Glycine max GMO			
	Crop Name					Soybean, Round>	Soybean, Round>	Soybean, Round>			
	Part Rated					PLANT C	PLANT C		- P	- P	- P
	Rating Date					May-30-2013	May-30-2013	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-26-2013
	Rating Type					PHYLMA	PHYSTU	PHYGEN	CONTRO	CONTRO	CONTRO
	Rating Unit					%	%	%	%	%	%
	Number of Subsamples					1	1	1	1	1	1
	Crop Stage Majority					V1	V1	V1			V6-V8
	Assessed By					MW	MW	DOUG	DOUG	DOUG	PRATAP
	Days After First/Last Applic.					14 14	14 14	27 27	27 27	27 27	41 41
	Trt-Eval Interval					14 DA-A	14 DA-A	27 DA-A	27 DA-A	27 DA-A	41 DA-A
	Plant-Eval Interval					14 DP-1	14 DP-1	27 DP-1	27 DP-1	27 DP-1	41 DP-1
	Days After Emergence					8 DE-1	8 DE-1	21 DE-1	21 DE-1	21 DE-1	35 DE-1
1	Untreated Check				101	0.0	0.0	0.0	0.0	0.0	0.0
					504	0.0	0.0	0.0	0.0	0.0	0.0
					801	0.0	0.0	0.0	0.0	0.0	0.0
					803	0.0	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	FIERCE	2.85	oz ai/a	A	102	7.0	10.0	7.0	95.0	78.0	100.0
					303	10.0	5.0	3.0	95.0	35.0	95.0
					601	5.0	10.0	8.0	95.0	92.0	100.0
					902	5.0	5.0	10.0	95.0	65.0	100.0
					Mean =	6.8	7.5	7.0	95.0	67.5	98.8
3	VALOR SX	0.078	lb ai/a	A	103	5.0	30.0	3.0	60.0	30.0	85.0
					304	5.0	5.0	3.0	70.0	0.0	90.0
					704	5.0	5.0	4.0	90.0	0.0	80.0
					1001	5.0	30.0	8.0	90.0	40.0	90.0
					Mean =	5.0	17.5	4.5	77.5	17.5	86.3
4	VALOR SX	0.078	lb ai/a	A	104	10.0	15.0	15.0	98.0	94.0	100.0
	HARNESS	1.5	lb ai/a	A	404	15.0	5.0	13.0	95.0	82.0	100.0
					702	20.0	10.0	15.0	95.0	90.0	100.0
					901	7.0	15.0	10.0	95.0	60.0	100.0
					Mean =	13.0	11.3	13.3	95.8	81.5	100.0
5	VALOR SX	0.078	lb ai/a	A	201	5.0	5.0	10.0	95.0	95.0	100.0
	WARRANT HERBICIDE	1.5	lb ai/a	A	503	7.0	5.0	10.0	95.0	85.0	100.0
					604	7.0	7.0	8.0	95.0	65.0	100.0
					1003	15.0	0.0	13.0	95.0	95.0	100.0
					Mean =	8.5	4.3	10.3	95.0	85.0	100.0
6	VALOR SX	0.078	lb ai/a	A	202	10.0	0.0	12.0	99.0	95.0	100.0
	HARNESS	3	lb ai/a	A	403	20.0	30.0	15.0	95.0	80.0	100.0
					703	30.0	20.0	10.0	95.0	90.0	100.0
					1004	5.0	5.0	15.0	95.0	85.0	100.0
					Mean =	16.3	13.8	13.0	96.0	87.5	100.0

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Pest Type								W Weed	W Weed	W Weed
Pest Code								SETFA	AMBTR	SETFA
Pest Scientific Name								Setaria faberi	Ambrosia trifi>	Setaria faberi
Pest Name								Giant foxtail	Giant ragweed	Giant foxtail
Crop Code						GLXM02	GLXM02	GLXM02				
BBCH Scale						BSOY	BSOY					
Crop Scientific Name						Glycine max GMO	Glycine max GMO	Glycine max GMO				
Crop Name						Soybean, Round>	Soybean, Round>	Soybean, Round>				
Part Rated						PLANT C	PLANT C		- P	- P	- P
Rating Date						May-30-2013	May-30-2013	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-26-2013
Rating Type						PHYLMA	PHYSTU	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit						%	%	%	%	%	%
Number of Subsamples						1	1	1	1	1	1
Crop Stage Majority						V1	V1	V1			V6-V8
Assessed By						MW	MW	DOUG	DOUG	DOUG	PRATAP
Days After First/Last Applic.						14 14	14 14	27 27	27 27	27 27	41 41
Trt-Eval Interval						14 DA-A	14 DA-A	27 DA-A	27 DA-A	27 DA-A	41 DA-A
Plant-Eval Interval						14 DP-1	14 DP-1	27 DP-1	27 DP-1	27 DP-1	41 DP-1
Days After Emergence						8 DE-1	8 DE-1	21 DE-1	21 DE-1	21 DE-1	35 DE-1
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Plot	1	2	3	4	5	6
7	VALOR SX	0.078	lb ai/a	A	203	10.0	15.0	16.0	95.0	87.0	100.0
	WARRANT HERBICIDE	3	lb ai/a	A	501	7.0	10.0	8.0	98.0	95.0	100.0
					802	15.0	0.0	10.0	95.0	95.0	100.0
					1002	10.0	15.0	15.0	98.0	95.0	100.0
					Mean =	10.5	10.0	12.3	96.5	93.0	100.0
8	VALOR SX	0.078	lb ai/a	A	204	5.0	10.0	7.0	94.0	60.0	95.0
	Zidua (85 WG)	3.19	oz ai/a	A	502	5.0	5.0	8.0	95.0	90.0	100.0
					603	7.0	25.0	5.0	95.0	80.0	100.0
					903	7.0	5.0	8.0	95.0	78.0	100.0
					Mean =	6.0	11.3	7.0	94.8	77.0	98.8
9	VALOR SX	0.078	lb ai/a	A	301	5.0	0.0	8.0	95.0	95.0	100.0
	Outlook (6.0 EC)	0.75	lb ai/a	A	402	7.0	0.0	10.0	95.0	78.0	100.0
					701	5.0	5.0	10.0	95.0	94.0	100.0
					804	7.0	10.0	5.0	95.0	30.0	100.0
					Mean =	6.0	3.8	8.3	95.0	74.3	100.0
10	VALOR SX	0.078	lb ai/a	A	302	7.0	5.0	6.0	95.0	93.0	100.0
	Outlook (6.0 EC)	1.5	lb ai/a	A	401	5.0	15.0	5.0	95.0	90.0	100.0
					602	10.0	5.0	8.0	95.0	92.0	100.0
					904	7.0	0.0	5.0	95.0	63.0	100.0
					Mean =	7.3	6.3	6.0	95.0	84.5	100.0

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Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	7	8	9	10	11	12
	Pest Type					W Weed	W Weed	W Weed	W Weed		
	Pest Code					AMBTR	CHEAL	TAROF	AMBTR		
	Pest Scientific Name					Ambrosia trifi>	Chenopodium al>	Taraxacum offi>	Ambrosia trifi>		
	Pest Name					Giant ragweed	Common lambsqu>	Common dandeli>	Giant ragweed		
	Crop Code									GLXMA	GLXMA
	BBCH Scale									BSOY	BSOY
	Crop Scientific Name									Glycine max	Glycine max
	Crop Name									Soybean	Soybean
	Part Rated					- P	- P	- P			
	Rating Date					Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013
	Rating Type					CONTRO	CONTRO	CONTRO	CONTRO	HEIGHT	PHYLMA
	Rating Unit					%	%	%	%	CM	%
	Number of Subsamples					1	1	1	1	5	1
	Crop Stage Majority					V6-V8	V6-V8	V6-V8			
	Assessed By					PRATAP	PRATAP	PRATAP	MW	MW	MW
	Days After First/Last Applic.					41 41	41 41	41 41	53 53	53 53	53 53
	Trt-Eval Interval					41 DA-A	41 DA-A	41 DA-A	53 DA-A	53 DA-A	53 DA-A
	Plant-Eval Interval					41 DP-1	41 DP-1	41 DP-1	53 DP-1	53 DP-1	53 DP-1
	Days After Emergence					35 DE-1	35 DE-1	35 DE-1	47 DE-1	47 DE-1	47 DE-1
1	Untreated Check				101	0.0	0.0	0.0	0.0	50.60	0.0
					504	0.0	0.0	0.0	0.0	45.40	0.0
					801	0.0	0.0	0.0	0.0	50.00	0.0
					803	0.0	0.0	0.0	0.0	54.20	0.0
					Mean =	0.0	0.0	0.0	0.0	50.05	0.0
2	FIERCE	2.85	oz ai/a	A	102	40.0	100.0	0.0	85.0	37.60	0.0
					303	40.0	100.0	100.0	70.0	38.80	0.0
					601	65.0	100.0	90.0	95.0	52.80	0.0
					902	30.0	100.0	100.0	70.0	45.00	3.0
					Mean =	43.8	100.0	72.5	80.0	43.55	0.8
3	VALOR SX	0.078	lb ai/a	A	103	30.0	90.0	90.0	70.0	33.20	0.0
					304	20.0	100.0	100.0	65.0	44.00	0.0
					704	10.0	100.0	100.0	60.0	45.20	5.0
					1001	40.0	100.0	100.0	65.0	43.40	0.0
					Mean =	25.0	97.5	97.5	65.0	41.45	1.3
4	VALOR SX	0.078	lb ai/a	A	104	60.0	100.0	100.0	93.0	35.00	0.0
	HARNESS	1.5	lb ai/a	A	404	60.0	100.0	100.0	90.0	35.20	3.0
					702	80.0	100.0	100.0	95.0	34.40	3.0
					901	40.0	100.0	100.0	75.0	39.00	0.0
					Mean =	60.0	100.0	100.0	88.3	35.90	1.5
5	VALOR SX	0.078	lb ai/a	A	201	75.0	100.0	100.0	97.0	37.20	0.0
	WARRANT HERBICIDE	1.5	lb ai/a	A	503	50.0	100.0	100.0	85.0	36.60	3.0
					604	30.0	100.0	100.0	85.0	37.20	0.0
					1003	70.0	100.0	100.0	93.0	38.40	5.0
					Mean =	56.3	100.0	100.0	90.0	37.35	2.0
6	VALOR SX	0.078	lb ai/a	A	202	80.0	100.0	100.0	95.0	30.20	3.0
	HARNESS	3	lb ai/a	A	403	75.0	100.0	100.0	93.0	29.20	5.0
					703	90.0	100.0	100.0	87.0	30.60	0.0
					1004	85.0	100.0	100.0	87.0	30.80	5.0
					Mean =	82.5	100.0	100.0	90.5	30.20	3.3

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Pest Type					W Weed	W Weed	W Weed	W Weed		
Pest Code					AMBTR	CHEAL	TAROF	AMBTR		
Pest Scientific Name					Ambrosia trifi>	Chenopodium al>	Taraxacum offi>	Ambrosia trifi>		
Pest Name					Giant ragweed	Common lambsqu>	Common dandeli>	Giant ragweed		
Crop Code									GLXMA	GLXMA
BBCH Scale									BSOY	BSOY
Crop Scientific Name									Glycine max	Glycine max
Crop Name									Soybean	Soybean
Part Rated					- P	- P	- P			
Rating Date					Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013
Rating Type					CONTRO	CONTRO	CONTRO	CONTRO	HEIGHT	PHYLMA
Rating Unit					%	%	%	%	CM	%
Number of Subsamples					1	1	1	1	5	1
Crop Stage Majority					V6-V8	V6-V8	V6-V8			
Assessed By					PRATAP	PRATAP	PRATAP	MW	MW	MW
Days After First/Last Applic.					41 41	41 41	41 41	53 53	53 53	53 53
Trt-Eval Interval					41 DA-A	41 DA-A	41 DA-A	53 DA-A	53 DA-A	53 DA-A
Plant-Eval Interval					41 DP-1	41 DP-1	41 DP-1	53 DP-1	53 DP-1	53 DP-1
Days After Emergence					35 DE-1	35 DE-1	35 DE-1	47 DE-1	47 DE-1	47 DE-1
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Plot	7	8	9	10	11	12
7	VALOR SX	0.078	lb ai/a	A	203	65.0	100.0	100.0	95.0	31.80	3.0
	WARRANT HERBICIDE	3	lb ai/a	A	501	85.0	100.0	100.0	95.0	42.80	0.0
					802	90.0	100.0	100.0	99.0	32.20	7.0
					1002	80.0	100.0	100.0	97.0	32.40	5.0
					Mean =	80.0	100.0	100.0	96.5	34.80	3.8
8	VALOR SX	0.078	lb ai/a	A	204	30.0	100.0	100.0	75.0	36.00	0.0
	Zidua (85 WG)	3.19	oz ai/a	A	502	60.0	100.0	100.0	87.0	45.40	0.0
					603	50.0	100.0	100.0	85.0	40.80	3.0
					903	50.0	100.0	100.0	85.0	43.60	3.0
					Mean =	47.5	100.0	100.0	83.0	41.45	1.5
9	VALOR SX	0.078	lb ai/a	A	301	65.0	100.0	75.0	95.0	41.40	0.0
	Outlook (6.0 EC)	0.75	lb ai/a	A	402	50.0	100.0	100.0	87.0	41.00	0.0
					701	65.0	100.0	100.0	85.0	41.60	0.0
					804	30.0	100.0	100.0	80.0	42.00	3.0
					Mean =	52.5	100.0	93.8	86.8	41.50	0.8
10	VALOR SX	0.078	lb ai/a	A	302	60.0	100.0	100.0	93.0	40.00	5.0
	Outlook (6.0 EC)	1.5	lb ai/a	A	401	60.0	100.0	100.0	87.0	42.20	0.0
					602	60.0	100.0	100.0	95.0	39.00	0.0
					904	45.0	100.0	100.0	90.0	44.20	3.0
					Mean =	56.3	100.0	100.0	91.3	41.35	2.0

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Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Part Rated	
Rating Date	Sep-25-2013
Rating Type	YIELD
Rating Unit	bu/ac
Number of Subsamples	1
Crop Stage Majority	
Assessed By	
Days After First/Last Applic.	132 132
Trt-Eval Interval	132 DA-A
Plant-Eval Interval	132 DP-1
Days After Emergence	126 DE-1

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Plot	13
1	Untreated Check				101	85.20
					504	64.40
					801	79.90
					803	75.10
					Mean =	76.15
2	FIERCE	2.85	oz ai/a	A	102	82.20
					303	79.00
					601	82.60
					902	88.10
					Mean =	82.98
3	VALOR SX	0.078	lb ai/a	A	103	84.30
					304	70.40
					704	83.20
					1001	88.10
					Mean =	81.50
4	VALOR SX	0.078	lb ai/a	A	104	82.00
	HARNESS	1.5	lb ai/a	A	404	88.50
					702	73.10
					901	87.50
					Mean =	82.78
5	VALOR SX	0.078	lb ai/a	A	201	90.80
	WARRANT HERBICIDE	1.5	lb ai/a	A	503	84.50
					604	81.50
					1003	83.00
					Mean =	84.95
6	VALOR SX	0.078	lb ai/a	A	202	85.80
	HARNESS	3	lb ai/a	A	403	84.40
					703	80.40
					1004	85.90
					Mean =	84.13

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Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Part Rated	
Rating Date	Sep-25-2013
Rating Type	YIELD
Rating Unit	bu/ac
Number of Subsamples	1
Crop Stage Majority	
Assessed By	
Days After First/Last Applic.	132 132
Trt-Eval Interval	132 DA-A
Plant-Eval Interval	132 DP-1
Days After Emergence	126 DE-1

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Plot	13
7	VALOR SX	0.078	lb ai/a	A	203	84.00
	WARRANT HERBICIDE	3	lb ai/a	A	501	91.80
					802	85.90
					1002	90.90
					Mean =	88.15
8	VALOR SX	0.078	lb ai/a	A	204	87.00
	Zidua (85 WG)	3.19	oz ai/a	A	502	82.80
					603	83.30
					903	86.30
					Mean =	84.85
9	VALOR SX	0.078	lb ai/a	A	301	88.20
	Outlook (6.0 EC)	0.75	lb ai/a	A	402	86.80
					701	84.10
					804	85.40
					Mean =	86.13
10	VALOR SX	0.078	lb ai/a	A	302	82.70
	Outlook (6.0 EC)	1.5	lb ai/a	A	401	84.60
					602	84.30
					904	79.70
					Mean =	82.83

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VALOR SX INTERACTIONS WITH ACETACHLOR

Trial ID: 13S-THP-CTS-47
Location: Throckmorton
Project ID: VUSA2013VALORSXMD64.02

Protocol ID: 13S-THP-CTS-47
Study Director:
Investigator: Dr. Bill Johnson
Sponsor Contact: Valent - Eric Ott

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
TAROF, Taraxacum officinale, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Part Rated
PLANT = plant
C = Crop is Part Rated
P = Pest is Part Rated
Rating Type
PHYLMA = phytotoxicity - leaf malformation
PHYSTU = phytotoxicity - stunting
PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown
HEIGHT = height
YIELD = yield
Rating Unit
% = percent
CM = centimeter
bu/ac = bushels per acre
Plant-Eval Interval
14 DP-1 = 1 GLXM02 May-16-2013
27 DP-1 = 1 GLXM02 May-16-2013
41 DP-1 = 1 GLXM02 May-16-2013
53 DP-1 = 1 GLXM02 May-16-2013
132 DP-1 = 1 GLXM02 May-16-2013

Purdue University

VALOR SX INTERACTIONS WITH ACETACHLOR

Trial ID: 13S-THP-CTS-47 Protocol ID: 13S-THP-CTS-47
Location: Throckmorton Study Director:
Project ID: VUSA2013VALORSXMD64.02 Investigator: Dr. Bill Johnson
Sponsor Contact: Valent - Eric Ott

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2	3	4	5	6	7
	Pest Type							W Weed	W Weed	W Weed	W Weed
	Pest Code							SETFA	AMBTR	SETFA	AMBTR
	Pest Scientific Name							Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>
	Pest Name							Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed
	Crop Code				GLXM02	GLXM02	GLXM02				
	BBCH Scale				BSOY	BSOY					
	Crop Scientific Name				Glycine max GMO	Glycine max GMO	Glycine max GMO				
	Crop Name				Soybean, Round>	Soybean, Round>	Soybean, Round>				
	Part Rated				PLANT C	PLANT C		- P	- P	- P	- P
	Rating Date				May-30-2013	May-30-2013	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-26-2013	Jun-26-2013
	Rating Type				PHYLMA	PHYSTU	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
	Rating Unit				%	%	%	%	%	%	%
	Number of Subsamples				1	1	1	1	1	1	1
	Crop Stage Majority				V1	V1	V1			V6-V8	V6-V8
	Assessed By				MW	MW	DOUG	DOUG	DOUG	PRATAP	PRATAP
	Days After First/Last Applic.				14 14	14 14	27 27	27 27	27 27	41 41	41 41
	Trt-Eval Interval				14 DA-A	14 DA-A	27 DA-A	27 DA-A	27 DA-A	41 DA-A	41 DA-A
	Plant-Eval Interval				14 DP-1	14 DP-1	27 DP-1	27 DP-1	27 DP-1	41 DP-1	41 DP-1
	Days After Emergence				8 DE-1	8 DE-1	21 DE-1	21 DE-1	21 DE-1	35 DE-1	35 DE-1
1	Untreated Check				0.0 c	0.0 a	0.0 e	0.0 c	0.0 b	0.0 c	0.0 e
2	FIERCE	2.85	oz ai/a	A	6.8 bc	7.5 a	7.0 cd	95.0 a	67.5 a	98.8 a	43.8 cd
3	VALOR SX	0.078	lb ai/a	A	5.0 bc	17.5 a	4.5 d	77.5 b	17.5 b	86.3 b	25.0 d
4	VALOR SX	0.078	lb ai/a	A	13.0 ab	11.3 a	13.3 a	95.8 a	81.5 a	100.0 a	60.0 abc
	HARNESS	1.5	lb ai/a	A							
5	VALOR SX	0.078	lb ai/a	A	8.5 abc	4.3 a	10.3 abc	95.0 a	85.0 a	100.0 a	56.3 abc
	WARRANT HERBICIDE	1.5	lb ai/a	A							
6	VALOR SX	0.078	lb ai/a	A	16.3 a	13.8 a	13.0 a	96.0 a	87.5 a	100.0 a	82.5 a
	HARNESS	3	lb ai/a	A							
7	VALOR SX	0.078	lb ai/a	A	10.5 ab	10.0 a	12.3 ab	96.5 a	93.0 a	100.0 a	80.0 ab
	WARRANT HERBICIDE	3	lb ai/a	A							
8	VALOR SX	0.078	lb ai/a	A	6.0 bc	11.3 a	7.0 cd	94.8 a	77.0 a	98.8 a	47.5 cd
	Zidua (85 WG)	3.19	oz ai/a	A							
9	VALOR SX	0.078	lb ai/a	A	6.0 bc	3.8 a	8.3 bcd	95.0 a	74.3 a	100.0 a	52.5 bc
	Outlook (6.0 EC)	0.75	lb ai/a	A							
10	VALOR SX	0.078	lb ai/a	A	7.3 bc	6.3 a	6.0 cd	95.0 a	84.5 a	100.0 a	56.3 abc
	Outlook (6.0 EC)	1.5	lb ai/a	A							
	LSD (P=.05)				6.24	12.22	3.45	7.13	24.22	2.78	19.62
	Standard Deviation				4.30	8.42	2.38	4.91	16.69	1.92	13.52
	CV				54.23	98.51	29.14	5.85	25.0	2.17	26.84
	Bartlett's X2				22.853	14.031	4.301	33.934	13.002	1.774	5.342
	P(Bartlett's X2)				0.002*	0.081	0.829	0.001*	0.112	0.412	0.721
	Replicate F				1.759	0.025	0.691	0.708	1.043	0.623	0.450
	Replicate Prob(F)				0.1788	0.9946	0.5653	0.5557	0.3894	0.6065	0.7192
	Treatment F				4.394	1.534	12.431	149.698	14.403	1067.566	12.912
	Treatment Prob(F)				0.0013	0.1864	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	8	9	10	11	12	13
	Pest Type				W Weed	W Weed	W Weed			
	Pest Code				CHEAL	TAROF	AMBTR			
	Pest Scientific Name				Chenopodium al>	Taraxacum offi>	Ambrosia trifi>			
	Pest Name				Common lambsqu>	Common dandeli>	Giant ragweed			
	Crop Code							GLXMA	GLXMA	GLXMA
	BBCH Scale							BSOY	BSOY	BSOY
	Crop Scientific Name							Glycine max	Glycine max	Glycine max
	Crop Name							Soybean	Soybean	Soybean
	Part Rated				- P	- P				
	Rating Date				Jun-26-2013	Jun-26-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013	Sep-25-2013
	Rating Type				CONTRO	CONTRO	CONTRO	HEIGHT	PHYLMA	YIELD
	Rating Unit				%	%	%	CM	%	bu/ac
	Number of Subsamples				1	1	1	5	1	1
	Crop Stage Majority				V6-V8	V6-V8				
	Assessed By				PRATAP	PRATAP	MW	MW	MW	
	Days After First/Last Applic.				41 41	41 41	53 53	53 53	53 53	132 132
	Trt-Eval Interval				41 DA-A	41 DA-A	53 DA-A	53 DA-A	53 DA-A	132 DA-A
	Plant-Eval Interval				41 DP-1	41 DP-1	53 DP-1	53 DP-1	53 DP-1	132 DP-1
	Days After Emergence				35 DE-1	35 DE-1	47 DE-1	47 DE-1	47 DE-1	126 DE-1
1	Untreated Check				0.0 b	0.0 b	0.0 d	50.05 a	0.0 a	76.15 a
2	FIERCE	2.85	oz ai/a	A	100.0 a	72.5 a	80.0 b	43.55 b	0.8 a	82.98 a
3	VALOR SX	0.078	lb ai/a	A	97.5 a	97.5 a	65.0 c	41.45 bc	1.3 a	81.50 a
4	VALOR SX	0.078	lb ai/a	A	100.0 a	100.0 a	88.3 ab	35.90 bcd	1.5 a	82.78 a
	HARNESS	1.5	lb ai/a	A						
5	VALOR SX	0.078	lb ai/a	A	100.0 a	100.0 a	90.0 ab	37.35 bc	2.0 a	84.95 a
	WARRANT HERBICIDE	1.5	lb ai/a	A						
6	VALOR SX	0.078	lb ai/a	A	100.0 a	100.0 a	90.5 ab	30.20 d	3.3 a	84.13 a
	HARNESS	3	lb ai/a	A						
7	VALOR SX	0.078	lb ai/a	A	100.0 a	100.0 a	96.5 a	34.80 cd	3.8 a	88.15 a
	WARRANT HERBICIDE	3	lb ai/a	A						
8	VALOR SX	0.078	lb ai/a	A	100.0 a	100.0 a	83.0 b	41.45 bc	1.5 a	84.85 a
	Zidua (85 WG)	3.19	oz ai/a	A						
9	VALOR SX	0.078	lb ai/a	A	100.0 a	93.8 a	86.8 ab	41.50 bc	0.8 a	86.13 a
	Outlook (6.0 EC)	0.75	lb ai/a	A						
10	VALOR SX	0.078	lb ai/a	A	100.0 a	100.0 a	91.3 ab	41.35 bc	2.0 a	82.83 a
	Outlook (6.0 EC)	1.5	lb ai/a	A						
	LSD (P=.05)				2.29	22.19	8.67	5.278	2.96	7.088
	Standard Deviation				1.58	15.29	5.98	3.637	2.04	4.885
	CV				1.76	17.7	7.75	9.15	121.85	5.85
	Bartlett's X2				0.0	12.201	11.833	29.124	2.69	15.228
	P(Bartlett's X2)				.	0.002*	0.159	0.001*	0.952	0.085
	Replicate F				1.000	1.863	1.809	2.242	1.382	1.557
	Replicate Prob(F)				0.4079	0.1596	0.1693	0.1063	0.2694	0.2226
	Treatment F				1592.111	17.006	90.513	9.011	1.254	1.715
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.3055	0.1341

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VALOR SX INTERACTIONS WITH ACETACHLOR

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Location: Throckmorton
Project ID: VUSA2013VALORSXMD64.02

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Study Director:
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Part Rated
PLANT = plant
C = Crop is Part Rated
P = Pest is Part Rated
Rating Type
PHYLMA = phytotoxicity - leaf malformation
PHYSTU = phytotoxicity - stunting
PHYGEN = phytotoxicity - general / injury
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