

University of Georgia

VALOR INTERACTIONS WITH ACETOCHLOR (HARNESS OR WARRANT)

Trial ID: SB-22-13 Study Dir.: JEFF SMITH
 Location: ATTAPULGUS Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 20 feet
 Spray vol: 15 gal/ac Mix size: 1.5 liters (min .62569)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC								101	205	303	404
2	FIERCE	76	WG	3.75 oz/a	PRE	A		2.808 g/mx	102	201	307	403
3	VALOR SX	51	WG	2.45 oz/a	PRE	A		1.835 g/mx	103	207	304	401
4	VALOR SX HARNESS	51	WG	2.45 oz/a	PRE	A		1.835 g/mx	104	202	305	402
		7	EC	27.5 oz/a	PRE	A		21.48 ml/mx				
5	VALOR SX WARRANT	51	WG	2.45 oz/a	PRE	A		1.835 g/mx	105	204	301	407
		3	CS	64.0 oz/a	PRE	A		49.99 ml/mx				
6	VALOR SX HARNESS	51	WG	2.45 oz/a	PRE	A		1.835 g/mx	106	203	306	405
		7	EC	55.0 oz/a	PRE	A		42.96 ml/mx				
7	VALOR SX WARRANT	51	WG	2.45 oz/a	PRE	A		1.835 g/mx	107	206	302	406
		3	CS	128.0 oz/a	PRE	A		99.99 ml/mx				

Sort Order: Treatment

Trial Comments

ROUNDUP W-MAX @ 22 OZ/A WITH ALL PRE TRTS

ROUNDUP W-MAX @ 32 OZ/A + REFLEX @ 24 OZ/A = JUNE 4

ROUNDUP W-MAX @ 32 OZ/A + DUAL MAGNUM @ 16 OZ/A = JULY 15

YIELDS ADJUSTED TO 13% MOISTURE.

SUMMARY:

1) ON JUNE 4 (15 DAT), VALOR + HARNESS WAS MORE INJURIOUS THAN VALOR APPLIED ALONE. VALOR + WARRANT WAS NOT DIFFERENT THAN VALOR ALONE.

2) AT LATER RATING DATES, NONE OF THE HERBICIDE TREATMENTS CAUSED SIGNIFICANT SOYBEAN STUNTING.

3) SOYBEAN YIELDS WERE NOT REDUCED BY ANY HERBICIDE TREATMENT. YIELDS WERE LOWER THAN DESIRED DUE TO SIGNIFICANT DEER FEEDING INJURY THROUGHOUT THE SEASON.

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GENERAL TRIAL INFORMATION

Study Director: JEFF SMITH **Title:** _____
Affiliation: _____ **Postal Code:** _____
Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____
Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. _____ **2.** _____
Crop 1: GLYMA SOYBEAN **Variety:** ASGROW AG6132 **Planting Date:** May-20-13
Planting Method: MONOSEM **Rate:** 100000 SEED/A **Depth:** 1.5 IN
Perennial Age: _____ **Row Spacing:** 36 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOB
Trial Initiation Comments: _____

Previous: Crops _____ **Pesticides** _____ **Year** _____
 1. PEANUT 2012

MAINTENANCE

Field Prep./Maintenance: _____
 Form Form Form Rate
No. Date Treatment Name Conc Unit Type Rate Unit
 1. _____

SOIL DESCRIPTION

Texture: LOAMY SAND **% OM:** 1.35 **% Sand:** 84 **% Silt:** 8 **% Clay:** 8
pH: 6.0 **CEC:** _____ **Soil Name:** ORANGEBURG **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date Time Amount Unit Type Interval Unit
 1. _____

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date: May-20-13						
Time of Day: 9:30 AM						
Application Method: BROADCAST						
Application Timing: PRE						
Applic. Placement: SOIL						
Air Temp., Unit: 77 F						
% Relative Humidity: 81						
Wind Velocity, Unit: 3 MPH						
Dew Presence (Y/N): N						
Water Hardness: --						
Soil Temp., Unit: 71 F						
Soil Moisture: FAIR						
% Cloud Cover: 30						

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: GLYMA						
Stage Scale:						
Height, Unit:						

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: _____	_____	_____	_____	_____	_____	_____
	Stage Scale: _____	_____	_____	_____	_____	_____	_____
	Density, Unit: _____	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	43	_____	_____	_____	_____	_____	_____
Nozzle Type:	TTI	_____	_____	_____	_____	_____	_____
Nozzle Size:	02	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5	MPH	_____	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	_____	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____	_____
Tank Mix (Y/N):	—	—	—	—	—	—	—

Trt No	Treatment Application Comment
—	_____

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Location: ATTAPULGUS		Investigator: Eric P. Prostko									
Weed Code											
Crop Code											
Part Rated											
Rating Data Type											
Rating Unit											
Rating Date											
PRM Data Type											
# Subsamples, Dec.											
Trt Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Rate	Unit	Stg	Code					
1 NTC							1	2	3	4	5
2 FIERCE	76 WG	3.75 oz/a	PRE	A			5.0 cd	5.0 a	7.5 a	8.8 a	19.90 a
3 VALOR SX	51 WG	2.45 oz/a	PRE	A			5.0 cd	10.0 a	8.8 a	3.8 a	20.05 a
4 VALOR SX	51 WG	2.45 oz/a	PRE	A			12.5 ab	10.0 a	8.8 a	6.3 a	19.61 a
HARNESS	7 EC	27.5 oz/a	PRE	A							
5 VALOR SX	51 WG	2.45 oz/a	PRE	A			8.8 bc	7.9 a	5.0 a	3.8 a	20.39 a
WARRANT	3 CS	64.0 oz/a	PRE	A							
6 VALOR SX	51 WG	2.45 oz/a	PRE	A			17.5 a	15.0 a	8.8 a	6.3 a	19.78 a
HARNESS	7 EC	55.0 oz/a	PRE	A							
7 VALOR SX	51 WG	2.45 oz/a	PRE	A			10.0 bc	7.5 a	2.5 a	0.0 a	20.00 a
WARRANT	3 CS	128.0 oz/a	PRE	A							
LSD (P=.10)							6.61	7.93	7.82	6.22	0.699
Standard Deviation							5.39	6.44	6.38	5.07	0.570
CV							64.24	81.37	108.23	123.42	2.86
Grand Mean							8.39	7.92	5.89	4.11	19.9
Bartlett's X2							3.648	3.491	4.042	2.471	11.364
P(Bartlett's X2)							0.601	0.479	0.543	0.65	0.078
Replicate F							6.256	2.049	20.276	9.486	0.322
Replicate Prob(F)							0.0043	0.1451	0.0001	0.0006	0.8096
Treatment F							4.495	2.092	1.215	1.680	1.014
Treatment Prob(F)							0.0060	0.1082	0.3439	0.1834	0.4469
Part Rated											
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)											
PRM Data Type											
TY1 = 6.05*[6]*(100-[5])/87											

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Missing data estimates are included in columns: Yates=2

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Location:		ATTAPULGUS			Investigator:		Eric P. Prostko								
Weed Code							-----	-----	-----	-----	-----	-----	-----	-----	
Crop Code							GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	
Part Rated							PLANT -	PLANT -	PLANT -	PLANT -	GRAIN -	PLOT -	PLOT -	PLOT -	
Rating Data Type							STUNTING	STUNTING	STUNTING	STUNTING	MOSITURE	YIELD	YIELD	YIELD	
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	LBS	BU/A	BU/A	
Rating Date							Jun-4-13	Jun-18-13	Jul-15-13	Aug-14-13	Oct-23-13	Oct-23-13	Oct-23-13	Oct-23-13	
PRM Data Type														TY1	
# Subsamples, Dec.											- 2	- 2		- 0	
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6	7
1	NTC						101		0.0	0.0	0.0	0.0	19.51	5.94	33
							205	0.0	0.0	0.0	0.0	20.35	5.52	31	
							303	0.0	0.0	0.0	0.0	19.93	4.78	27	
							404	0.0	0.0	0.0	0.0	19.81	2.77	15	
							Mean =	0.0	0.0	0.0	0.0	19.90	4.75	26	
2	FIERCE	76	WG	3.75	oz/a	PRE	A	102	0.0	10.0	0.0	5.0	19.17	4.80	27
								201	10.0	0.0	30.0	20.0	19.85	3.69	21
								307	10.0	0.0	0.0	0.0	19.25	4.75	27
								403	0.0	10.0	0.0	10.0	19.95	2.87	16
								Mean =	5.0	5.0	7.5	8.8	19.56	4.03	23
3	VALOR SX	51	WG	2.45	oz/a	PRE	A	103	0.0	10.0	5.0	5.0	19.61	3.23	18
								207	10.0	10.0	30.0	10.0	19.50	3.93	22
								304	10.0	10.0	0.0	0.0	21.04	3.28	18
								401	0.0	10.0	0.0	0.0	20.05	3.05	17
								Mean =	5.0	10.0	8.8	3.8	20.05	3.37	19
4	VALOR SX HARNESS	51	WG	2.45	oz/a	PRE	A	104	10.0	10.0	5.0	5.0	19.19	3.43	19
								202	20.0	20.0	30.0	20.0	19.83	4.45	25
								305	10.0	0.0	0.0	0.0	19.47	4.78	27
								402	10.0	10.0	0.0	0.0	19.93	2.75	15
								Mean =	12.5	10.0	8.8	6.3	19.61	3.85	22
5	VALOR SX WARRANT	51	WG	2.45	oz/a	PRE	A	105	10.0	10.0	0.0	0.0	21.59	3.57	19
								204	15.0	11.7*	20.0	15.0	20.91	2.14	12
								301	10.0	0.0	0.0	0.0	19.54	5.87	33
								407	0.0	10.0	0.0	0.0	19.52	3.82	21
								Mean =	8.8	7.9	5.0	3.8	20.39	3.85	21
6	VALOR SX HARNESS	51	WG	2.45	oz/a	PRE	A	106	20.0	20.0	0.0	0.0	19.69	3.17	18
								203	30.0	30.0	35.0	25.0	20.14	2.84	16
								306	20.0	10.0	0.0	0.0	19.60	4.23	24
								405	0.0	0.0	0.0	0.0	19.67	4.65	26
								Mean =	17.5	15.0	8.8	6.3	19.78	3.72	21
7	VALOR SX WARRANT	51	WG	2.45	oz/a	PRE	A	107	20.0	10.0	0.0	0.0	19.76	3.28	18
								206	10.0	10.0	10.0	0.0	19.92	4.98	28
								302	10.0	10.0	0.0	0.0	20.13	5.51	31
								406	0.0	0.0	0.0	0.0	20.19	3.76	21
								Mean =	10.0	7.5	2.5	0.0	20.00	4.38	24
Part Rated															
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)															
PRM Data Type															
TY1 = 6.05*[6]*(100-[5])/87															