

CHA-044 APPLIED PRE IN SOYBEAN

Reps: 4 Plots: 6 by 25 feet
Spray vol: 15 gal/ac Mix size: 1.5 liters (min .78211)

- 1) AT 15 DAT, ONLY FIERCE CAUSED SOYBEAN STUNTING IN EXCESS OF 10% (14% STUNTING).
- 2) AT 66 DAT, ALL PRE TREATMENTS PROVIDED > 95% CONTROL OF PIGWEED. THERE WAS NO DIFFERENCE IN CONTROL BETWEEN CHA-044 AND PREFIX.
- 3) AT 66 DAT, ANNUAL GRASS CONTROL WITH CHA-044 AND PREFIX WAS EQUIVALENT (66-76% CONTROL).
- 4) AT 66 DAT, ANNUAL GRASS CONTROL WITH TRICOR + DUAL MAGNUM WAS POOR (15% CONTROL).
- 5) AT 66 DAT, THE ONLY TREATMENT THAT PROVIDED > 70% CONTROL OF SICKLEPOD WAS TRICOR + DUAL MAGNUM (79% CONTROL).

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Trial ID: SB-05-12 Study Dir.: BRENT JACOBSON
 Location: ATTAPULGUS Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: BRENT JACOBSON **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: AMASP PALMER + LIVID **2:** GRASS T. MILLET/CROW/CRAB
Weed 3: CASOB SICKELPOD **4:** _____

Crop 1: GLYMA SOYBEAN **Variety:** AGS 7502 **Planting Date:** May-21-12
Planting Method: MONSOEM **Rate:** 10 SEED/FT **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:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOB
Trial Initiation Comments: _____

Previous: Crops **Pesticides** **Year**
1. PEANUT 2011 _____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
1.	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION

Texture: LOAMY SAND **% OM:** _____ **% Sand:** _____ **% Silt:** _____ **% Clay:** _____
pH: _____ **CEC:** _____ **Soil Name:** LUCY **Fertility Level:** GOOD

MOISTURE CONDITIONS

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

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

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		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	May-21-12						
Time of Day:	8:15 AM						
Application Method:	BROADCAST						
Application Timing:	PRE						
Applic. Placement:	SOIL						
Air Temp., Unit:	66 F						
% Relative Humidity:	80						
Wind Velocity, Unit:	0 MPH						
Dew Presence (Y/N):	N						
Water Hardness:	--						
Soil Temp., Unit:	74 F						
Soil Moisture:	ADEQUATE						
% Cloud Cover:	0						

		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1	Stage: GLYMA						
	Stage Scale:						
	Height, Unit:						

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

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK						
Operating Pressure:	40						
Nozzle Type:	FLAT FAN						
Nozzle Size:	11002DG						
Nozzle Spacing, Unit:	20 IN						
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60 IN						
Boom Height, Unit:	17 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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Weed Code	----	ANUAL	AMASP	AMASP	ANNUAL	AMASP
Crop Code	GLYMA	GRASS	----	----	GRASS	----
Part Rated	PLANT -					
Rating Data Type	STUNTING	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun-5-12	Jun-5-12	Jun-5-12	Jun-18-12	Jun-18-12	Jul-9-12
Crop Stage						
Crop Stage Scale						
Weed Stage						
Weed Density, Unit						
Footnote Number						
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	28 DA-A	28 DA-A	49 DA-A
PRM Data Type						
# Subsamples, Dec.						
Trt Treatment	Form Form	Rate Grow	Appl			
No. Name	Conc Type	Rate Unit	Stg Code			
1 CHA-044	5.25 EC	32.0 OZ/A PRE	A	5.0 bc	95.8 a	99.0 a
2 CHA-044	5.25 EC	40.0 OZ/A PRE	A	5.0 bc	99.0 a	99.0 a
3 DAWN	2 AS	24.0 OZ/A PRE	A	2.5 bc	98.0 a	99.0 a
ALERT	3 ME	21.3 OZ/A PRE	A			
4 PREFIX	5.29 EC	32.0 OZ/A PRE	A	5.0 bc	98.0 a	99.0 a
5 PREFIX	5.29 EC	40.0 OZ/A PRE	A	7.5 ab	99.0 a	99.0 a
6 TRICOR	75 DG	5.3 OZ/A PRE	A	6.3 bc	92.0 b	99.0 a
DUAL MAGNUM	7.62 EC	16.0 OZ/A PRE	A			
7 FIERCE	76 WG	3.0 OZ/A PRE	A	13.8 a	98.0 a	99.0 a
8 NTC				0.0 c	0.0 c	0.0 b
LSD (P=.10)	6.40	3.71	0.00	0.00	7.42	0.00
Standard Deviation	5.26	3.05	0.00	0.00	6.10	0.00
CV	93.53	3.59	0.0	0.0	7.37	0.0
Grand Mean	5.63	84.97	86.63	86.63	82.66	86.63
Bartlett's X2	4.952	9.873	0.0	0.0	14.594	0.0
P(Bartlett's X2)	0.55	0.043*	.	.	0.006*	.
Replicate F	2.484	3.299	0.000	0.000	1.203	0.000
Replicate Prob(F)	0.0888	0.0404	1.0000	1.0000	0.3330	1.0000
Treatment F	2.323	510.310	0.000	0.000	123.148	0.000
Treatment Prob(F)	0.0638	0.0001	1.0000	1.0000	0.0001	1.0000

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.

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Trial ID: SB-05-12 Study Dir.: BRENT JACOBSON
 Location: ATTAPULGUS Investigator: Eric P. Prostko

Weed Code	ANNUAL GRASS	OVERALL WEED	AMASP -----	ANNUAL GRASS	CASOB -----
Crop Code					
Part Rated					
Rating Data Type	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	Jul-9-12	Jul-9-12	Jul-26-12	Jul-26-12	Jul-26-12
Rating Date					
Crop Stage					
Crop Stage Scale					
Weed Stage					
Weed Density, Unit					
Footnote Number					
Trt-Eval Interval	49 DA-A	49 DA-A	66 DA-A	66 DA-A	66 DA-A
PRM Data Type					
# Subsamples, Dec.					
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code
1 CHA-044	5.25 EC	32.0 OZ/A	PRE	A	
2 CHA-044	5.25 EC	40.0 OZ/A	PRE	A	
3 DAWN ALERT	2 AS 3 ME	24.0 OZ/A 21.3 OZ/A	PRE PRE	A A	
4 PREFIX	5.29 EC	32.0 OZ/A	PRE	A	
5 PREFIX	5.29 EC	40.0 OZ/A	PRE	A	
6 TRICOR DUAL MAGNUM	75 DG 7.62 EC	5.3 OZ/A 16.0 OZ/A	PRE PRE	A A	
7 FIERCE	76 WG	3.0 OZ/A	PRE	A	
8 NTC					
LSD (P=.10)	8.67	13.17	0.00	21.49	11.91
Standard Deviation	7.12	10.82	0.00	17.66	9.78
CV	10.31	22.34	0.0	32.29	85.78
Grand Mean	69.06	48.44	86.63	54.69	11.41
Bartlett's X2	0.671	6.787	0.0	5.441	1.76
P(Bartlett's X2)	0.995	0.341	.	0.489	0.185
Replicate F	5.481	0.044	0.000	1.340	0.813
Replicate Prob(F)	0.0061	0.9872	1.0000	0.2883	0.5007
Treatment F	65.657	14.146	0.000	11.432	31.741
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001	0.0001

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Weed Code									-----	ANUAL	AMASP	AMASP	ANNUAL
Crop Code									GLYMA	GRASS			GRASS
Part Rated									PLANT -		-----	-----	
Rating Data Type									STUNTING	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit									PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									Jun-5-12	Jun-5-12	Jun-5-12	Jun-18-12	Jun-18-12
Crop Stage													
Crop Stage Scale													
Weed Stage													
Weed Density, Unit													
Footnote Number													
Trt-Eval Interval									15 DA-A	15 DA-A	15 DA-A	28 DA-A	28 DA-A
PRM Data Type													
# Subsamples, Dec.													
Trt Treatment	Form Form	Rate	Grow	Appl									
No. Name	Conc Type	Rate Unit	Stg	Code	Plot								
1 CHA-044	5.25 EC	32.0 OZ/A	PRE	A	101	5.0	95.0	99.0	99.0	95.0			
					208	10.0	99.0	99.0	99.0	99.0			
					305	5.0	99.0	99.0	99.0	99.0			
					402	0.0	90.0	99.0	99.0	80.0			
					Mean =	5.0	95.8	99.0	99.0	93.3			
2 CHA-044	5.25 EC	40.0 OZ/A	PRE	A	102	5.0	99.0	99.0	99.0	99.0			
					203	10.0	99.0	99.0	99.0	99.0			
					308	0.0	99.0	99.0	99.0	95.0			
					407	5.0	99.0	99.0	99.0	99.0			
					Mean =	5.0	99.0	99.0	99.0	98.0			
3 DAWN	2 AS	24.0 OZ/A	PRE	A	103	5.0	99.0	99.0	99.0	99.0			
ALERT	3 ME	21.3 OZ/A	PRE	A	204	0.0	99.0	99.0	99.0	99.0			
					306	0.0	99.0	99.0	99.0	99.0			
					403	5.0	95.0	99.0	99.0	99.0			
					Mean =	2.5	98.0	99.0	99.0	99.0			
4 PREFIX	5.29 EC	32.0 OZ/A	PRE	A	104	0.0	99.0	99.0	99.0	99.0			
					207	15.0	99.0	99.0	99.0	95.0			
					302	5.0	99.0	99.0	99.0	99.0			
					404	0.0	95.0	99.0	99.0	90.0			
					Mean =	5.0	98.0	99.0	99.0	95.8			
5 PREFIX	5.29 EC	40.0 OZ/A	PRE	A	105	10.0	99.0	99.0	99.0	99.0			
					202	15.0	99.0	99.0	99.0	95.0			
					304	0.0	99.0	99.0	99.0	99.0			
					401	5.0	99.0	99.0	99.0	99.0			
					Mean =	7.5	99.0	99.0	99.0	98.0			
6 TRICOR	75 DG	5.3 OZ/A	PRE	A	106	20.0	99.0	99.0	99.0	99.0			
DUAL MAGNUM	7.62 EC	16.0 OZ/A	PRE	A	201	0.0	99.0	99.0	99.0	85.0			
					307	5.0	85.0	99.0	99.0	65.0			
					406	0.0	85.0	99.0	99.0	80.0			
					Mean =	6.3	92.0	99.0	99.0	82.3			

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Weed Code	-----	ANUAL	AMASP	AMASP	ANNUAL
Crop Code	GLYMA	GRASS	-----	-----	GRASS
Part Rated	PLANT -				
Rating Data Type	STUNTING	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun-5-12	Jun-5-12	Jun-5-12	Jun-18-12	Jun-18-12
Crop Stage					
Crop Stage Scale					
Weed Stage					
Weed Density, Unit					
Footnote Number					
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	28 DA-A	28 DA-A
PRM Data Type					
# Subsamples, Dec.					
Trt Treatment	Form Form	Rate	Grow Appl		
No. Name	Conc Type Rate Unit Stg Code Plot				
7 FIERCE	76 WG 3.0 OZ/A PRE A 107	20.0	99.0	99.0	95.0
	206	15.0	99.0	99.0	95.0
	301	15.0	99.0	99.0	95.0
	408	5.0	95.0	99.0	95.0
	Mean =	13.8	98.0	99.0	95.0
8 NTC	108	0.0	0.0	0.0	0.0
	205	0.0	0.0	0.0	0.0
	303	0.0	0.0	0.0	0.0
	405	0.0	0.0	0.0	0.0
	Mean =	0.0	0.0	0.0	0.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Footnote Number Trt-Eval Interval PRM Data Type # Subsamples, Dec.							AMASP ----- CONTROL PERCENT Jul-9-12	ANNUAL GRASS CONTROL PERCENT Jul-9-12	OVERALL WEED CONTROL PERCENT Jul-9-12	AMASP ----- CONTROL PERCENT Jul-26-12	ANNUAL GRASS CONTROL PERCENT Jul-26-12
Trt Treatment No. Name							49 DA-A	49 DA-A	49 DA-A	66 DA-A	66 DA-A
Form	Form	Rate	Grow	Appl							
Conc	Type	Rate	Unit	Stg	Code	Plot					
1	CHA-044	5.25 EC	32.0 OZ/A	PRE	A	101	99.0	80.0	60.0	99.0	60.0
						208	99.0	85.0	65.0	99.0	85.0
						305	99.0	70.0	40.0	99.0	85.0
						402	99.0	65.0	30.0	99.0	60.0
						Mean =	99.0	75.0	48.8	99.0	72.5
2	CHA-044	5.25 EC	40.0 OZ/A	PRE	A	102	99.0	80.0	60.0	99.0	65.0
						203	99.0	95.0	50.0	99.0	95.0
						308	99.0	75.0	55.0	99.0	50.0
						407	99.0	95.0	75.0	99.0	95.0
						Mean =	99.0	86.3	60.0	99.0	76.3
3	DAWN ALERT	2 AS	24.0 OZ/A	PRE	A	103	99.0	80.0	40.0	99.0	85.0
						204	99.0	95.0	50.0	99.0	95.0
		3 ME	21.3 OZ/A	PRE	A	306	99.0	75.0	50.0	99.0	65.0
						403	99.0	80.0	50.0	99.0	50.0
						Mean =	99.0	82.5	47.5	99.0	73.8
4	PREFIX	5.29 EC	32.0 OZ/A	PRE	A	104	99.0	70.0	50.0	99.0	40.0
						207	99.0	95.0	65.0	99.0	85.0
						302	99.0	90.0	70.0	99.0	75.0
						404	99.0	80.0	50.0	99.0	65.0
						Mean =	99.0	83.8	58.8	99.0	66.3
5	PREFIX	5.29 EC	40.0 OZ/A	PRE	A	105	99.0	85.0	60.0	99.0	75.0
						202	99.0	95.0	60.0	99.0	90.0
						304	99.0	80.0	70.0	99.0	65.0
						401	99.0	80.0	60.0	99.0	65.0
						Mean =	99.0	85.0	62.5	99.0	73.8
6	TRICOR DUAL MAGNUM	75 DG	5.3 OZ/A	PRE	A	106	99.0	75.0	65.0	99.0	60.0
						201	99.0	65.0	55.0	99.0	0.0
		7.62 EC	16.0 OZ/A	PRE	A	307	99.0	50.0	30.0	99.0	0.0
						406	99.0	65.0	55.0	99.0	0.0
						Mean =	99.0	63.8	51.3	99.0	15.0

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Weed Code	AMASP	ANNUAL	OVERALL	AMASP	ANNUAL
Crop Code	-----	GRASS	WEED	-----	GRASS
Part Rated					
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul-9-12	Jul-9-12	Jul-9-12	Jul-26-12	Jul-26-12
Crop Stage					
Crop Stage Scale					
Weed Stage					
Weed Density, Unit					
Footnote Number					
Trt-Eval Interval	49 DA-A	49 DA-A	49 DA-A	66 DA-A	66 DA-A
PRM Data Type					
# Subsamples, Dec.					
Trt Treatment	Form Form	Rate	Grow Appl		
No. Name	Conc Type Rate Unit Stg Code Plot				
7 FIERCE	76 WG	3.0 OZ/A	PRE A	107	99.0
				206	99.0
				301	99.0
				408	99.0
				Mean =	99.0
8 NTC				108	0.0
				205	0.0
				303	0.0
				405	0.0
				Mean =	0.0

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Weed Code	CASOB					
Crop Code	-----					
Part Rated						
Rating Data Type	CONTROL					
Rating Unit	PERCENT					
Rating Date	Jul-26-12					
Crop Stage						
Crop Stage Scale						
Weed Stage						
Weed Density, Unit						
Footnote Number						
Trt-Eval Interval	66 DA-A					
PRM Data Type						
# Subsamples, Dec.						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg Code Plot
1	CHA-044	5.25	EC	32.0	OZ/A PRE	A 101 0.0
						208 0.0
						305 0.0
						402 0.0
						Mean = 0.0
2	CHA-044	5.25	EC	40.0	OZ/A PRE	A 102 0.0
						203 0.0
						308 0.0
						407 0.0
						Mean = 0.0
3	DAWN	2	AS	24.0	OZ/A PRE	A 103 0.0
	ALERT	3	ME	21.3	OZ/A PRE	A 204 0.0
						306 0.0
						403 0.0
						Mean = 0.0
4	PREFIX	5.29	EC	32.0	OZ/A PRE	A 104 0.0
						207 0.0
						302 0.0
						404 0.0
						Mean = 0.0
5	PREFIX	5.29	EC	40.0	OZ/A PRE	A 105 0.0
						202 0.0
						304 0.0
						401 0.0
						Mean = 0.0
6	TRICOR	75	DG	5.3	OZ/A PRE	A 106 85.0
	DUAL MAGNUM	7.62	EC	16.0	OZ/A PRE	A 201 90.0
						307 65.0
						406 75.0
						Mean = 78.8

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Weed Code	CASOB
Crop Code	-----
Part Rated	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Rating Date	Jul-26-12
Crop Stage	
Crop Stage Scale	
Weed Stage	
Weed Density, Unit	
Footnote Number	
Trt-Eval Interval	66 DA-A
PRM Data Type	
# Subsamples, Dec.	
Trt Treatment Form Form Rate Grow Appl	
No. Name Conc Type Rate Unit Stg Code Plot	
7 FIERCE 76 WG 3.0 OZ/A PRE A 107	0.0
	206 0.0
	301 0.0
	408 50.0
Mean =	12.5
8 NTC 108	0.0
	205 0.0
	303 0.0
	405 0.0
Mean =	0.0