

University of Georgia

WEED CONTROL IN XTEND SOYBEANS - II

Trial ID: SB-04-19 Study Dir.: ABRAHAM FULMER
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Mix Size: 1.5 L

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	2	3	4	
1	NO OUTLOOK NOT POST									- -	101	210	307	406	
2	NO OUTLOOK ENGENIA PRO ROUNDUP P-MAX INDUCE	4.54 5.5	SC SL	16.0 32.0	oz/a oz/a	POST POST	B B	15 15	GAL/AC GAL/AC	12.5 mL/mx 25.0 mL/mx 3.75 mL/mx	- 1458.8 mL	102	207	305	408
3	NO OUTLOOK XTENDIMAX + VG DUAL MAGNUM ROUNDUP P-MAX INDUCE	2.9 7.62 5.5	SL EC SL	22.0 16.0 32.0	oz/a oz/a oz/a	POST POST POST	B B B	15 15 15	GAL/AC GAL/AC GAL/AC	17.19 mL/mx 12.5 mL/mx 25.0 mL/mx 3.75 mL/mx	- 1441.6 mL	103	208	309	402
4	NO OUTLOOK XTENDIMAX + VG WARRANT ROUNDUP P-MAX INDUCE	2.9 3 5.5	SL ME SL	22.0 48.0 32.0	oz/a oz/a oz/a	POST POST POST	B B B	15 15 15	GAL/AC GAL/AC GAL/AC	17.19 mL/mx 37.5 mL/mx 25.0 mL/mx 3.75 mL/mx	- 1416.6 mL	104	202	310	404
5	OUTLOOK NOT POST	5	EC	5.0	oz/a	PRE	A	15	GPA	3.906 mL/mx -	1496.1 mL -	105	204	306	410
6	OUTLOOK ENGENIA PRO ROUNDUP P-MAX INDUCE	5 4.54 5.5	EC SC SL	5.0 16.0 32.0	oz/a oz/a oz/a	PRE POST POST	A B B	15 15 15	GPA GAL/AC GAL/AC	3.906 mL/mx 12.5 mL/mx 25.0 mL/mx 3.75 mL/mx	1496.1 mL 1458.8 mL	106	203	304	405
7	OUTLOOK XTENDIMAX + VG DUAL MAGNUM ROUNDUP P-MAX INDUCE	5 2.9 7.62 5.5	EC SL EC SL	5.0 22.0 16.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST	A B B B	15 15 15 15	GPA GAL/AC GAL/AC GAL/AC	3.906 mL/mx 17.19 mL/mx 12.5 mL/mx 25.0 mL/mx 3.75 mL/mx	1496.1 mL 1441.6 mL	107	201	302	407
8	OUTLOOK XTENDIMAX + VG WARRANT ROUNDUP P-MAX INDUCE	5 2.9 3 5.5	EC SL ME SL	5.0 22.0 48.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST	A B B B	15 15 15 15	GPA GAL/AC GAL/AC GAL/AC	3.906 mL/mx 17.19 mL/mx 37.5 mL/mx 25.0 mL/mx 3.75 mL/mx	1496.1 mL 1416.6 mL	108	206	303	409
9	NTC									-	109	205	301	403	
10	TRICOR ROUNDUP P-MAX REFLEX	4 5.5 2	L SL SL	8.0 32.0 24.0	oz/a oz/a oz/a	PRE POST POST	A B B	15 15 15	GPA GAL/AC GAL/AC	6.249 mL/mx 25.0 mL/mx 18.75 mL/mx	1493.8 mL 1456.3 mL	110	209	308	401

Sort Order: Treatment

Trial Comments

ENGENIA PRO = DICAMBA (4.0 LBS/GAL) + PYROXASULFONE (0.54 LBS/GAL)

EQUUS @ 4 OZ/A + BORON @ 32 OZ/A + DIMILIN @ 2 OZ/A

POST B APPLICATIONS WHEN NO PRE WAS INCLUDED IN TREATMENT WERE APPLIED ON MAY 29.

YIELD DATA WAS NOT COLLECTED DUE TO GREEN STEM AND LOW POD SET.

SUMMARY:

- 1) PRE APPLICATIONS OF OUTLOOK AND TRICOR CAUSED EARLY SEASON SOYBEAN STUNTING.
- 2) PREEMERGENCE APPLICATIONS OF TRICOR PROVIDED BETTER CONTROL OF CARPETWEED THAN PREEMERGENCE APPLICATIONS OF OUTLOOK (99% VS. 79-89% CONTROL).
- 3) XTENDIMAX + DUAL MAGNUM OR WARRANT + ROUNDUP AND ENGENIA PRO + ROUNDUP CAUSED SOYBEAN LEAF INJURY IN THE FORM OF SPOTTING. BUT, XTENDIMAX + DUAL MAGNUM + ROUNDUP WAS MORE INJURIOUS.

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4) GENERALLY, WEED CONTROL WAS EXCELLENT WITH ALL DICAMBA PROGRAMS BUT CONTROL WITH DICAMBA PROGRAMS DID NOT DIFFER FROM THE CURRENT STANDARD OF TRICOR (PRE) FB ROUNDUP + REFLEX (POST).

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GENERAL TRIAL INFORMATION

Study Director: ABRAHAM FULMER **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: E **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. AMAPA PALMER AMARANTH **2.** AGRASS TX PANICUM;CROW;GOOSE;CRAB
Weed 3. MOLVE CARPETWEED **4.** _____

Crop 1: GLYMA SOYBEAN **Variety:** PIONEER 55A49X **Planting Date:** May-14-19
Planting Method: MONOSEM **Rate:** 8 S/ROW-FT **Depth:** 1.25 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:** FACTOR
Trial Initiation Comments: LUMIGEN SEED TRT; 400 LBS/A 5-15-30 PPLNT;

Previous: Crops **Pesticides** **Year**
 1. FIELD CORN 2018 _____

MAINTENANCE

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.57 **% Sand:** 96 **% Silt:** 0 **% Clay:** 4
pH: 6.5 **CEC:** 2.4 **Soil Name:** FUQUAY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-9-19		0.195	IN	RAINFALL		
2. May-10-19		0.5	IN	SPRINKLER - LATERAL MOVE		
3. May-16-19		0.5	IN	SPRINKLER - LATERAL MOVE		
4. May-17-19		0.62	IN	RAINFALL		
5. May-23-19		0.5	IN	SPRINKLER - LATERAL MOVE		
6. May-30-19		0.5	IN	SPRINKLER - LATERAL MOVE		

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	May-15-19	May-29-19	Jun-5-19			
Time of Day:	7:20 AM	8:40 AM	7:00 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	PRE	POSTB	POSTB			
Applic. Placement:	SOIL	FOILAGE	FOILAGE			
Air Temp., Unit:	57 F	79 F	75 F			
% Relative Humidity:	89	67	92			
Wind Velocity, Unit:	0 MPH	2 MPH	MPH			
Dew Presence (Y/N):	N	N	N			
Water Hardness:						
Soil Temp., Unit:	68 F	83 F	81 F			
Soil Moisture:	OPTIMUM	DRY	DRY			
% Cloud Cover:	0	25	50			

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CROP STAGE AT EACH APPLICATION

		A	B	C	D	E	F
Crop 1	Stage: GLYMA	_____	4"T	6:T	_____	_____	_____
	Stage Scale:	_____	V2	V3	_____	_____	_____
	Height, Unit:	_____	_____	_____	_____	_____	_____

WEED STAGE AT EACH APPLICATION

		A	B	C	D	E	F
Weed 1	Stage: AMAPA	_____	1-7"T	3-8"T	SOME 8-10	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 2	Stage: AGRASS	_____	1-3"T	1-4"T	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 3	Stage: MOLVE	_____	.5"T	1"T	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 4	Stage: _____	_____	4-6"T	4-6"T	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT

		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME	_____	SAME	_____	_____	_____
Operating Pressure:	38	_____	_____	_____	_____	_____	_____
Nozzle Type:	TTI	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
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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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date	----- GLYMA		AMAPA -----	AGRASS -----	MOLVE -----	----- GLYMA Leaf -		AMAPA -----	AGRASS -----			
	Injury Percent May-28-19	Control Percent May-28-19	Control Percent May-28-19	Control Percent May-28-19	Control Percent May-28-19	Spot Percent Jun-4-19	Control Percent Jun-4-19	Control Percent Jun-4-19				
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1 NO OUTLOOK NOT POST						0.0 b	0.0 c	0.0 c	0.0 d	0.0 c	0.0 d	0.0 d
2 NO OUTLOOK ENGENIA PRO ROUNDUP P-MAX INDUCE	4.54	SC	16.0 oz/a	POST	B	0.0 b	0.0 c	0.0 c	0.0 d	13.8 b	90.0 abc	99.0 a
	5.5	SL	32.0 oz/a	POST	B							
			0.25 % v/v	POST	B							
3 NO OUTLOOK XTENDIMAX + VG DUAL MAGNUM ROUNDUP P-MAX INDUCE	2.9	SL	22.0 oz/a	POST	B	0.0 b	0.0 c	0.0 c	0.0 d	20.0 a	89.8 abc	98.0 a
	7.62	EC	16.0 oz/a	POST	B							
	5.5	SL	32.0 oz/a	POST	B							
			0.25 % v/v	POST	B							
4 NO OUTLOOK XTENDIMAX + VG WARRANT ROUNDUP P-MAX INDUCE	2.9	SL	22.0 oz/a	POST	B	0.0 b	0.0 c	0.0 c	0.0 d	12.5 b	85.0 bc	99.0 a
	3	ME	48.0 oz/a	POST	B							
	5.5	SL	32.0 oz/a	POST	B							
			0.25 % v/v	POST	B							
5 OUTLOOK NOT POST	5	EC	5.0 oz/a	PRE	A	10.0 a	97.0 b	98.0 a	94.3 ab	0.0 c	86.0 bc	96.0 ab
6 OUTLOOK ENGENIA PRO ROUNDUP P-MAX INDUCE	5	EC	5.0 oz/a	PRE	A	10.0 a	98.0 ab	97.0 ab	81.0 c	0.0 c	92.3 ab	90.0 c
	4.54	SC	16.0 oz/a	POST	B							
	5.5	SL	32.0 oz/a	POST	B							
			0.25 % v/v	POST	B							
7 OUTLOOK XTENDIMAX + VG DUAL MAGNUM ROUNDUP P-MAX INDUCE	5	EC	5.0 oz/a	PRE	A	10.0 a	97.0 b	99.0 a	78.5 c	0.0 c	83.5 c	93.5 bc
	2.9	SL	22.0 oz/a	POST	B							
	7.62	EC	16.0 oz/a	POST	B							
	5.5	SL	32.0 oz/a	POST	B							
			0.25 % v/v	POST	B							
8 OUTLOOK XTENDIMAX + VG WARRANT ROUNDUP P-MAX INDUCE	5	EC	5.0 oz/a	PRE	A	10.0 a	98.0 ab	95.5 ab	88.5 bc	0.0 c	86.0 bc	93.5 bc
	2.9	SL	22.0 oz/a	POST	B							
	3	ME	48.0 oz/a	POST	B							
	5.5	SL	32.0 oz/a	POST	B							
			0.25 % v/v	POST	B							
9 NTC						0.0 b	0.0 c	0.0 c	0.0 d	0.0 c	0.0 d	0.0 d
10 TRICOR ROUNDUP P-MAX REFLEX	4	L	8.0 oz/a	PRE	A	10.0 a	99.0 a	92.0 b	99.0 a	0.0 c	97.0 a	93.5 bc
	5.5	SL	32.0 oz/a	POST	B							
	2	SL	24.0 oz/a	POST	B							
LSD P=.10						.	1.49	5.36	10.25	1.50	8.70	4.36
Standard Deviation						0.00	1.24	4.45	8.50	1.25	7.22	3.62
CV						0.0	2.54	9.24	19.26	26.93	10.18	4.75
Grand Mean						5.00	48.90	48.15	44.13	4.63	70.95	76.25
Bartlett's X2						0.00	0.119	10.411	1.866	0.061	11.811	6.323
P(Bartlett's X2)						.	0.989	0.015*	0.601	0.805	0.066	0.276

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=4
 Could not calculate LSD (% mean diff) for columns 1,8,10,13 because error mean square = 0.

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Weed Code						-----	AMAPA	AGRASS	MOLVE	AMAPA	AGRASS	
Crop Code						GLYMA	-----	-----	-----	-----	-----	
Part Rated						Leaf -						
Rating Data Type						Burn	Control	Control	Control	Control	Control	
Rating Unit						Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date						Jun-18-19	Jun-18-19	Jun-18-19	Jun-18-19	Jul-22-19	Jul-22-19	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	8	9	10	11	12	13
1	NO OUTLOOK NOT POST						0.0 -	0.0 c	0.0 b	0.0 c	0.0 c	0.0 b
2	NO OUTLOOK ENGENIA PRO ROUNDUP P-MAX INDUCE	4.54 5.5	SC SL	16.0 oz/a 32.0 oz/a 0.25 % v/v	POST B POST B POST B		0.0 -	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
3	NO OUTLOOK XTENDIMAX + VG DUAL MAGNUM ROUNDUP P-MAX INDUCE	2.9 7.62 5.5	SL EC SL	22.0 oz/a 16.0 oz/a 32.0 oz/a 0.25 % v/v	POST B POST B POST B POST B		0.0 -	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
4	NO OUTLOOK XTENDIMAX + VG WARRANT ROUNDUP P-MAX INDUCE	2.9 3 5.5	SL ME SL	22.0 oz/a 48.0 oz/a 32.0 oz/a 0.25 % v/v	POST B POST B POST B POST B		0.0 -	99.0 a	99.0 a	98.0 a	99.0 a	99.0 a
5	OUTLOOK NOT POST	5	EC	5.0 oz/a	PRE A		0.0 -	82.5 b	99.0 a	58.8 b	77.5 b	99.0 a
6	OUTLOOK ENGENIA PRO ROUNDUP P-MAX INDUCE	5 4.54 5.5	EC SC SL	5.0 oz/a 16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE A POST B POST B POST B		0.0 -	98.0 a	99.0 a	99.0 a	99.0 a	99.0 a
7	OUTLOOK XTENDIMAX + VG DUAL MAGNUM ROUNDUP P-MAX INDUCE	5 2.9 7.62 5.5	EC SL EC SL	5.0 oz/a 22.0 oz/a 16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE A POST B POST B POST B POST B		0.0 -	98.0 a	99.0 a	99.0 a	96.8 a	99.0 a
8	OUTLOOK XTENDIMAX + VG WARRANT ROUNDUP P-MAX INDUCE	5 2.9 3 5.5	EC SL ME SL	5.0 oz/a 22.0 oz/a 48.0 oz/a 32.0 oz/a 0.25 % v/v	PRE A POST B POST B POST B POST B		0.0 -	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
9	NTC						0.0 -	0.0 c	0.0 b	0.0 c	0.0 c	0.0 b
10	TRICOR ROUNDUP P-MAX REFLEX	4 5.5 2	L SL SL	8.0 oz/a 32.0 oz/a 24.0 oz/a	PRE A POST B POST B		0.0 -	98.0 a	99.0 a	99.0 a	99.0 a	99.0 a
LSD P=.10							5.05	.	2.53	6.82	.	.
Standard Deviation						0.00	4.19	0.00	2.10	5.66	0.00	0.00
CV						0.0	5.42	0.0	2.79	7.37	0.0	0.0
Grand Mean						0.00	77.25	79.20	75.08	76.83	79.20	79.20
Bartlett's X2						0.00	17.44	0.00	3.241	4.32	0.00	0.00
P(Bartlett's X2)						.	0.001*	.	0.072	0.038*	.	.

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=4
 Could not calculate LSD (% mean diff) for columns 1,8,10,13 because error mean square = 0.

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Factorial AOV For ----- GLYMA Injury Percent May-28-19 (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	1000.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	9	1000.000000	111.111111	0.000	1.0000
Error	27	0.000000	0.000000		

Factorial AOV For AMAPA ----- Control Percent May-28-19 (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	95715.600000			
Replicate	3	14.400000	4.800000	3.115	0.0427
Treatment	9	95659.600000	10628.844444	6898.530	0.0001
Error	27	41.600000	1.540741		

Factorial AOV For AGRASS ----- Control Percent May-28-19 (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	93427.100000			
Replicate	3	36.300000	12.100000	0.611	0.6137
Treatment	9	92856.100000	10317.344444	520.981	0.0001
Error	27	534.700000	19.803704		

Factorial AOV For MOLVE ----- Control Percent May-28-19 (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	81447.733333			
Replicate	3	458.000000	152.666667	2.113	0.1229
Treatment	9	79111.066667	8790.118519	121.652	0.0001
Error	26	1878.666667	72.256410		

Factorial AOV For ----- GLYMA Leaf Spot Percent Jun-4-19 (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	2169.375000			
Replicate	3	1.875000	0.625000	0.403	0.7520
Treatment	9	2125.625000	236.180556	152.284	0.0001
Error	27	41.875000	1.550926		

Factorial AOV For AMAPA ----- Control Percent Jun-4-19 (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	53225.900000			
Replicate	3	920.900000	306.966667	5.888	0.0031
Treatment	9	50897.400000	5655.266667	108.477	0.0001
Error	27	1407.600000	52.133333		

Factorial AOV For AGRASS ----- Control Percent Jun-4-19 (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	58877.500000			
Replicate	3	91.500000	30.500000	2.330	0.0968
Treatment	9	58432.500000	6492.500000	495.891	0.0001
Error	27	353.500000	13.092593		

Factorial AOV For ----- GLYMA Leaf Burn Percent Jun-18-19 (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	9	0.000000000000	0.000000000000	0.000	1.0000
Error	27	0.000000000000	0.000000000000		

Factorial AOV For AMAPA ----- Control Percent Jun-18-19 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	61147.500000			
Replicate	3	86.900000	28.966667	1.650	0.2013
Treatment	9	60586.500000	6731.833333	383.378	0.0001
Error	27	474.100000	17.559259		

Factorial AOV For AGRASS ----- Control Percent Jun-18-19 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	62726.400000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	9	62726.400000	6969.600000	0.000	1.0000
Error	27	0.000000	0.000000		

Factorial AOV For MOLVE ----- Control Percent Jun-18-19 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	62126.775000			
Replicate	3	12.075000	4.025000	0.916	0.4465
Treatment	9	61996.025000	6888.447222	1567.205	0.0001
Error	27	118.675000	4.395370		

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Factorial AOV For AMAPA ----- Control Percent Jul-22-19 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	61593.775000			
Replicate	3	121.075000	40.358333	1.260	0.3078
Treatment	9	60608.025000	6734.225000	210.280	0.0001
Error	27	864.675000	32.025000		

Factorial AOV For AGRASS ----- Control Percent Jul-22-19 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	62726.400000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	9	62726.400000	6969.600000	0.000	1.0000
Error	27	0.000000	0.000000		

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.

Part Rated

Leaf = LEAF / FOLIAGE

University of Georgia

WEED CONTROL IN XTEND SOYBEANS - II

Trial ID: SB-04-19 Study Dir.: ABRAHAM FULMER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						-----	AMAPA	AGRASS	MOLVE	-----	AMAPA	AGRASS			
Crop Code						GLYMA	-----	-----	-----	GLYMA	-----	-----			
Part Rated										Leaf -					
Rating Data Type						Injury	Control	Control	Control	Spot	Control	Control			
Rating Unit						Percent	Percent	Percent	Percent	Percent	Percent	Percent			
Rating Date						May-28-19	May-28-19	May-28-19	May-28-19	Jun-4-19	Jun-4-19	Jun-4-19			
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6	7
1	NO OUTLOOK NOT POST							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								406	0.0	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	0.0
2	NO OUTLOOK							102	0.0	0.0	0.0	0.0	10.0	85.0	99.0
	GENGENIA PRO	4.54	SC	16.0	oz/a	POST	B	207	0.0	0.0	0.0	0.0	15.0	95.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	305	0.0	0.0	0.0	0.0	15.0	95.0	99.0
	INDUCE			0.25	% v/v	POST	B	408	0.0	0.0	0.0	0.0	15.0	85.0	99.0
								Mean =	0.0	0.0	0.0	0.0	13.8	90.0	99.0
3	NO OUTLOOK							103	0.0	0.0	0.0	0.0	20.0	90.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	208	0.0	0.0	0.0	0.0	20.0	99.0	99.0
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B	309	0.0	0.0	0.0	0.0	20.0	85.0	95.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	402	0.0	0.0	0.0	0.0	20.0	85.0	99.0
	INDUCE			0.25	% v/v	POST	B								
								Mean =	0.0	0.0	0.0	0.0	20.0	89.8	98.0
4	NO OUTLOOK							104	0.0	0.0	0.0	0.0	15.0	85.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	202	0.0	0.0	0.0	0.0	10.0	85.0	99.0
	WARRANT	3	ME	48.0	oz/a	POST	B	310	0.0	0.0	0.0	0.0	15.0	85.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	404	0.0	0.0	0.0	0.0	10.0	85.0	99.0
	INDUCE			0.25	% v/v	POST	B								
								Mean =	0.0	0.0	0.0	0.0	12.5	85.0	99.0
5	OUTLOOK NOT POST	5	EC	5.0	oz/a	PRE	A	105	10.0	99.0	99.0	99.0	0.0	99.0	99.0
								204	10.0	95.0	99.0	85.0	0.0	95.0	95.0
								306	10.0	99.0	95.0	99.0	0.0	85.0	95.0
								410	10.0	95.0	99.0	0.0	0.0	65.0	95.0
								Mean =	10.0	97.0	98.0	94.3	0.0	86.0	96.0
6	OUTLOOK	5	EC	5.0	oz/a	PRE	A	106	10.0	99.0	99.0	99.0	0.0	95.0	95.0
	GENGENIA PRO	4.54	SC	16.0	oz/a	POST	B	203	10.0	99.0	99.0	95.0	0.0	99.0	95.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	304	10.0	99.0	95.0	65.0	0.0	85.0	85.0
	INDUCE			0.25	% v/v	POST	B	405	10.0	95.0	95.0	65.0	0.0	90.0	85.0
								Mean =	10.0	98.0	97.0	81.0	0.0	92.3	90.0
7	OUTLOOK	5	EC	5.0	oz/a	PRE	A	107	10.0	99.0	99.0	99.0	0.0	99.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	201	10.0	99.0	99.0	85.0	0.0	85.0	95.0
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B	302	10.0	95.0	99.0	65.0	0.0	85.0	85.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	407	10.0	95.0	99.0	65.0	0.0	65.0	95.0
	INDUCE			0.25	% v/v	POST	B								
								Mean =	10.0	97.0	99.0	78.5	0.0	83.5	93.5
8	OUTLOOK	5	EC	5.0	oz/a	PRE	A	108	10.0	99.0	99.0	95.0	0.0	95.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	206	10.0	99.0	99.0	85.0	0.0	99.0	95.0
	WARRANT	3	ME	48.0	oz/a	POST	B	303	10.0	99.0	85.0	99.0	0.0	85.0	85.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	409	10.0	95.0	99.0	75.0	0.0	65.0	95.0
	INDUCE			0.25	% v/v	POST	B								
								Mean =	10.0	98.0	95.5	88.5	0.0	86.0	93.5
9	NTC							109	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								205	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								403	0.0	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	0.0
10	TRICOR	4	L	8.0	oz/a	PRE	A	110	10.0	99.0	75.0	99.0	0.0	99.0	85.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	209	10.0	99.0	95.0	99.0	0.0	99.0	99.0
	REFLEX	2	SL	24.0	oz/a	POST	B	308	10.0	99.0	99.0	99.0	0.0	95.0	95.0
								401	10.0	99.0	99.0	99.0	0.0	95.0	95.0
								Mean =	10.0	99.0	92.0	99.0	0.0	97.0	93.5

University of Georgia

WEED CONTROL IN XTEND SOYBEANS - II

Trial ID: SB-04-19 Study Dir.: ABRAHAM FULMER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						-----	AMAPA	AGRASS	MOLVE	AMAPA	AGRASS			
Crop Code						GLYMA	-----	-----	-----	-----	-----			
Part Rated						Leaf -								
Rating Data Type						Burn	Control	Control	Control	Control	Control			
Rating Unit						Percent	Percent	Percent	Percent	Percent	Percent			
Rating Date						Jun-18-19	Jun-18-19	Jun-18-19	Jun-18-19	Jul-22-19	Jul-22-19			
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	8	9	10	11	12	13
1	NO OUTLOOK NOT POST							101	0.0	0.0	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0	0.0
								406	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	NO OUTLOOK							102	0.0	99.0	99.0	99.0	99.0	99.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	B	207	0.0	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	305	0.0	99.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	B	408	0.0	99.0	99.0	99.0	99.0	99.0
								Mean =	0.0	99.0	99.0	99.0	99.0	99.0
3	NO OUTLOOK							103	0.0	99.0	99.0	99.0	99.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	208	0.0	99.0	99.0	99.0	99.0	99.0
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B	309	0.0	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	402	0.0	99.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	B							
								Mean =	0.0	99.0	99.0	99.0	99.0	99.0
4	NO OUTLOOK							104	0.0	99.0	99.0	99.0	99.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	202	0.0	99.0	99.0	95.0	99.0	99.0
	WARRANT	3	ME	48.0	oz/a	POST	B	310	0.0	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	404	0.0	99.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	B							
								Mean =	0.0	99.0	99.0	98.0	99.0	99.0
5	OUTLOOK NOT POST	5	EC	5.0	oz/a	PRE	A	105	0.0	90.0	99.0	50.0	95.0	99.0
								204	0.0	95.0	99.0	60.0	90.0	99.0
								306	0.0	80.0	99.0	65.0	65.0	99.0
								410	0.0	65.0	99.0	60.0	60.0	99.0
								Mean =	0.0	82.5	99.0	58.8	77.5	99.0
6	OUTLOOK	5	EC	5.0	oz/a	PRE	A	106	0.0	99.0	99.0	99.0	99.0	99.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	B	203	0.0	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	304	0.0	99.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	B	405	0.0	95.0	99.0	99.0	99.0	99.0
								Mean =	0.0	98.0	99.0	99.0	99.0	99.0
7	OUTLOOK	5	EC	5.0	oz/a	PRE	A	107	0.0	99.0	99.0	99.0	99.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	201	0.0	99.0	99.0	99.0	99.0	99.0
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B	302	0.0	95.0	99.0	99.0	90.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	407	0.0	99.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	B							
								Mean =	0.0	98.0	99.0	99.0	96.8	99.0
8	OUTLOOK	5	EC	5.0	oz/a	PRE	A	108	0.0	99.0	99.0	99.0	99.0	99.0
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	206	0.0	99.0	99.0	99.0	99.0	99.0
	WARRANT	3	ME	48.0	oz/a	POST	B	303	0.0	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	409	0.0	99.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	B							
								Mean =	0.0	99.0	99.0	99.0	99.0	99.0
9	NTC							109	0.0	0.0	0.0	0.0	0.0	0.0
								205	0.0	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0	0.0
								403	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
10	TRICOR	4	L	8.0	oz/a	PRE	A	110	0.0	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	209	0.0	99.0	99.0	99.0	99.0	99.0
	REFLEX	2	SL	24.0	oz/a	POST	B	308	0.0	99.0	99.0	99.0	99.0	99.0
								401	0.0	95.0	99.0	99.0	99.0	99.0
								Mean =	0.0	98.0	99.0	99.0	99.0	99.0

University of Georgia

WEED CONTROL IN XTEND SOYBEANS - II

Trial ID: SB-04-19 Study Dir.: ABRAHAM FULMER
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.

Part Rated

Leaf = LEAF / FOLIAGE