

# University of Georgia

WEED CONTROL IN XTEND SOYBEANS - I

Trial ID: SB-03-19      Study Dir.:  
 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	Unit	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC									-	101	210	304	410
2	BOUNDARY INTACT	6.5 EC		29.0 oz/a		PRE	A	15 GPA	22.65 mL/mx	1477.4 mL	102	212	306	412
	CLASS ACT RIDION			0.5 % v/v		POST	C	15 GAL/AC	7.499 mL/mx	1411.2 mL				
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C	15 GAL/AC	15.0 mL/mx					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C	15 GAL/AC	44.14 mL/mx					
									22.19 mL/mx					
3	BROADAXE XC INTACT	7 EC		25.0 oz/a		PRE	A	15 GPA	19.53 mL/mx	1480.5 mL	103	204	301	411
	CLASS ACT RIDION			0.5 % v/v		POST	C	15 GAL/AC	7.499 mL/mx	1411.2 mL				
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C	15 GAL/AC	15.0 mL/mx					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C	15 GAL/AC	44.14 mL/mx					
									22.19 mL/mx					
4	PREFIX INTACT	5.27 EC		32.0 oz/a		PRE	A	15 GPA	25.0 mL/mx	1475 mL	104	203	308	404
	CLASS ACT RIDION			0.5 % v/v		POST	C	15 GAL/AC	7.499 mL/mx	1411.2 mL				
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C	15 GAL/AC	15.0 mL/mx					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C	15 GAL/AC	44.14 mL/mx					
									22.19 mL/mx					
5	VALOR XLT INTACT	40.3 WG		3.01 oz/a		PRE	A	15 GPA	2.254 g/mx	1497.7 mL	105	206	311	407
	CLASS ACT RIDION			0.5 % v/v		POST	C	15 GAL/AC	7.499 mL/mx	1411.2 mL				
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C	15 GAL/AC	15.0 mL/mx					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C	15 GAL/AC	44.14 mL/mx					
									22.19 mL/mx					
6	ZIDUA PRO INTACT	4.09 SC		4.5 oz/a		PRE	A	15 GPA	3.515 mL/mx	1496.5 mL	106	208	307	403
	CLASS ACT RIDION			0.5 % v/v		POST	C	15 GAL/AC	7.499 mL/mx	1445.3 mL				
	ENGENIA	5 EC		12.8 oz/a		POST	C	15 GAL/AC	15.0 mL/mx					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C	15 GAL/AC	9.999 mL/mx					
									22.19 mL/mx					
7	ZIDUA PRO ENGENIA PRO	4.09 SC		6.0 oz/a		PRE	A	15 GPA	4.687 mL/mx	1495.3 mL	107	211	305	402
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C	15 GAL/AC	12.5 mL/mx	1458.8 mL				
	INDUCE	5.5 SL		32.0 oz/a		POST	C	15 GAL/AC	25.0 mL/mx					
				0.25 % v/v		POST	C	15 GAL/AC	3.75 mL/mx					
8	ENGENIA PRO METRIBUZIN	4.54 SC		16.0 oz/a		PRE	A	15 GPA	12.5 mL/mx	1483.8 mL	108	202	312	406
	ROUNDUP P-MAX	75 DG		5.0 oz/a		PRE	A	15 GPA	3.745 g/mx					
	INDUCE	4.54 SC		16.0 oz/a		POST	C	15 GAL/AC	12.5 mL/mx	1458.8 mL				
		5.5 SL		32.0 oz/a		POST	C	15 GAL/AC	25.0 mL/mx					
				0.25 % v/v		POST	C	15 GAL/AC	3.75 mL/mx					
9	BAS872UAH ROUNDUP P-MAX	5.23 SC		16.0 oz/a		EPOST	B	15 GAL/AC	12.5 mL/mx	1458.8 mL	109	205	310	405
	INDUCE	5.5 SL		32.0 oz/a		EPOST	B	15 GAL/AC	25.0 mL/mx					
				0.25 % v/v		EPOST	B	15 GAL/AC	3.75 mL/mx					
10	BAS872UAH ENGENIA PRO	5.23 SC		16.0 oz/a		PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	110	209	303	408
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C	15 GAL/AC	12.5 mL/mx	1458.8 mL				
	INDUCE	5.5 SL		32.0 oz/a		POST	C	15 GAL/AC	25.0 mL/mx					
				0.25 % v/v		POST	C	15 GAL/AC	3.75 mL/mx					
11	METRIBUZIN ROUNDUP P-MAX	75 DG		5.3 oz/a		PRE	A	15 GPA	3.969 g/mx	1496.0 mL	111	207	309	401
	REFLEX	5.5 SL		32.0 oz/a		POST	C	15 GAL/AC	25.0 mL/mx	1456.3 mL				
		2 SL		24.0 oz/a		POST	C	15 GAL/AC	18.75 mL/mx					
12	NTC									-	112	201	302	409

Sort Order: Treatment

Trial Comments

BOUNDARY = METRIBUZIN (1.25 LBS/GAL) + S-MOC (5.25 LBS/GAL)  
 BROADAXE = SULFENTRAZONE (0.7 LBS/GAL) + S-MOC (6.3 LBS/GAL)  
 PREFIX = FOMESAFEN (0.95 LBS/GAL) + S-MOC (4.34 LBS/GAL)  
 VALOR XLT = FLUMIOXAZIN (30%) + CHLORIMURON (10.3%)  
 ZIDUA PRO = SAFLUFENACIL (0.48 LBS/GAL) + PYROXASULFONE (2.28 LBS/GAL) + IMAZETHAPYR (1.33 LBS/GAL)  
 ENGENIA PRO = PYROXASULFONE (0.54 LBS/GAL) + DICAMBA (4.0 LBS/GAL)

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EQUUS @ 4 OZ/A + BORON @ 32 OZ/A + DIMILIN @ 2 OZ/A (JUNE 24)

AGRASS = NON-UNIFORM MIXTURE OF ANNUAL GRASSES INCLUDING TEXAS PANICUM, CRABGRASS, CROWFOOTGRASS, AND GOOSEGRASS.

**SUMMARY:**

- 1) ALL PRE TREATMENTS CAUSED SIGNIFICANT CROP INJURY EARLY IN THE SEASON (~8-14%) BUT THE SOYBEANS RECOVERED.
- 2) ROUNDUP + REFLEX AND TAVIUM + ROUNDUP CAUSED SIGNIFICANT BUT TEMPORARY SOYBEAN LEAF NECROSIS (20-26%).
- 3) ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH AND ANNUAL GRASSES (>95%). BUT, WEED CONTROL FROM ANY XTEND/DICAMBA PROGRAM WAS NO BETTER THAN THE STANDARD RR PROGRAM OF METRIBUZIN (PRE) FB ROUNDUP + REFLEX (POST).

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 Location: PONDER FARM      Investigator: Eric P. Prostko

**GENERAL TRIAL INFORMATION**

**Study Director:** FULMER/MCLEAN      **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;CRAB;GOOSE;CROW

**Crop 1:** GLYMA SOYBEAN      **Variety:** PIONEER 55A49X      **Planting Date:** May-14-19  
**Planting Method:** MONOSEM      **Rate:** 8 SEED/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:** RACOBL  
**Trial Initiation Comments:** 400 LBS/A 5-15-30 PREPLANT; LUMIGEN SEED TREATMENT;

<b>Previous: Crops</b>	<b>Pesticides</b>	<b>Year</b>
1. FIELD CORN/SESAME 2018		

**MAINTENANCE**

**Field Prep./Maintenance:** \_\_\_\_\_

	Form	Form	Form	Rate				
<b>No.</b>	<b>Date</b>	<b>Treatment Name</b>	<b>Conc</b>	<b>Unit</b>	<b>Type</b>	<b>Rate</b>	<b>Unit</b>	
1.								

**SOIL DESCRIPTION**

**Texture:** SAND      **% OM:** 0.57      **% Sand:** 96      **% Silt:** 0      **% Clay:** 4  
**pH:** 6.0      **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
<b>Application Date:</b>	May-15-19	May-29-19	Jun-10-19			
<b>Time of Day:</b>	7:20 AM	8:40 AM	8:50 AM			
<b>Application Method:</b>	BROADCAST	BROADCAST	BROADCAST			
<b>Application Timing:</b>	PRE	EPOST	POST			
<b>Applic. Placement:</b>	SOIL	FOLIAGE	FOLIAGE			
<b>Air Temp., Unit:</b>	57 F	75 F	74 F			
<b>% Relative Humidity:</b>	89	67	97			
<b>Wind Velocity, Unit:</b>	0 MPH	2 MPH	0 MPH			
<b>Dew Presence (Y/N):</b>	N	N	Y			
<b>Water Hardness:</b>						
<b>Soil Temp., Unit:</b>	68 F	83 F	76 F			
<b>Soil Moisture:</b>	OPTIMUM	DRY	WET			
<b>% Cloud Cover:</b>	0	25	100			

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
<b>Crop 1 Stage:</b> GLYMA						
<b>Stage Scale:</b>		V2	V5-V6			
<b>Height, Unit:</b>		4 IN	9 IN			

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**WEED STAGE AT EACH APPLICATION**

		A	B	C	D	E	F
<b>Weed 1</b>	<b>Stage:</b> AMAPA	1-7"	1-12"				
	<b>Stage Scale:</b>						
	<b>Density, Unit:</b>						
<b>Weed 2</b>	<b>Stage:</b> AGRASS	1-3"	3-6"				
	<b>Stage Scale:</b>						
	<b>Density, Unit:</b>						

**APPLICATION EQUIPMENT**

		A	B	C	D	E	F
<b>Appl. Equipment:</b>	BACKPACK	SAME AS A		SAME AS A			
<b>Operating Pressure:</b>	38						
<b>Nozzle Type:</b>	TTI						
<b>Nozzle Size:</b>	11002						
<b>Nozzle Spacing, Unit:</b>	20	IN					
<b>Nozzles/Row:</b>							
<b>Band Width, Unit:</b>							
<b>Boom Length, Unit:</b>	60	IN					
<b>Boom Height, Unit:</b>	20	IN					
<b>Ground Speed, Unit:</b>	3.5	MPH					
<b>Incorporation Equip.:</b>							
<b>Hours to Incorp.:</b>							
<b>Incorp. Depth, Unit:</b>							
<b>Carrier:</b>	WATER						
<b>Spray Volume, Unit:</b>	15	GPA					
<b>Spray pH:</b>							
<b>Propellant:</b>	CO2						
<b>Tank Mix (Y/N):</b>							

Trt No	Treatment Application Comment

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WEED CONTROL IN XTEND SOYBEANS - I														
Trial ID: SB-03-19		Study Dir.:												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- GLYMA Injury Percent May-28-19	AMAPA Control Percent May-28-19	AGRASS Control Percent May-28-19	----- GLYMA Leaf - Spot Percent Jun-4-19	AMAPA Control Percent Jun-4-19	AGRASS Control Percent Jun-4-19	----- GLYMA Leaf - Necrosis Percent Jun-13-19		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	NTC							0.0 d	0.0 b	0.0 c	0.0 b	0.0 c	0.0 d	0.0 f
2	BOUNDARY INTACT	6.5 EC		29.0 oz/a		PRE	A	11.3 b	99.0 a	97.0 a	0.0 b	98.0 a	94.8 ab	20.0 b
	CLASS ACT RIDION			0.5 % v/v		POST	C							
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C							
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C							
3	BROADAXE XC INTACT	7 EC		25.0 oz/a		PRE	A	13.8 ab	99.0 a	99.0 a	0.0 b	99.0 a	86.0 bc	15.5 c
	CLASS ACT RIDION			0.5 % v/v		POST	C							
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C							
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C							
4	PREFIX INTACT	5.27 EC		32.0 oz/a		PRE	A	15.0 a	99.0 a	99.0 a	0.0 b	99.0 a	97.0 a	20.0 b
	CLASS ACT RIDION			0.5 % v/v		POST	C							
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C							
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C							
5	VALOR XLT INTACT	40.3 WG		3.01 oz/a		PRE	A	11.3 b	99.0 a	94.5 a	0.0 b	99.0 a	89.5 ab	20.0 b
	CLASS ACT RIDION			0.5 % v/v		POST	C							
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C							
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C							
6	ZIDUA PRO INTACT	4.09 SC		4.5 oz/a		PRE	A	12.5 ab	99.0 a	95.5 a	0.0 b	99.0 a	91.3 ab	12.5 cd
	CLASS ACT RIDION			0.5 % v/v		POST	C							
	ENGENIA	5 EC		12.8 oz/a		POST	C							
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C							
7	ZIDUA PRO ENGENIA PRO	4.09 SC		6.0 oz/a		PRE	A	12.5 ab	99.0 a	97.0 a	0.0 b	99.0 a	93.5 ab	7.5 e
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C							
	INDUCE	5.5 SL		32.0 oz/a		POST	C							
				0.25 % v/v		POST	C							
8	ENGENIA PRO METRIBUZIN	4.54 SC		16.0 oz/a		PRE	A	13.8 ab	99.0 a	98.0 a	0.0 b	99.0 a	97.0 a	10.0 de
	ENGENIA PRO	75 DG		5.0 oz/a		PRE	A							
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C							
	INDUCE	5.5 SL		32.0 oz/a		POST	C							
				0.25 % v/v		POST	C							
9	BAS872UAH ROUNDUP P-MAX	5.23 SC		16.0 oz/a		EPOST	B	0.0 d	0.0 b	0.0 c	15.0 a	92.3 b	99.0 a	0.0 f
	INDUCE	5.5 SL		32.0 oz/a		EPOST	B							
				0.25 % v/v		EPOST	B							
10	BAS872UAH ENGENIA PRO	5.23 SC		16.0 oz/a		PRE	A	13.8 ab	99.0 a	98.0 a	0.0 b	99.0 a	95.5 ab	10.0 de
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C							
	INDUCE	5.5 SL		32.0 oz/a		POST	C							
				0.25 % v/v		POST	C							
11	METRIBUZIN ROUNDUP P-MAX	75 DG		5.3 oz/a		PRE	A	7.5 c	99.0 a	84.8 b	0.0 b	97.0 a	76.3 c	26.3 a
	REFLEX	5.5 SL		32.0 oz/a		POST	C							
		2 SL		24.0 oz/a		POST	C							
12	NTC							0.0 d	0.0 b	0.0 c	0.0 b	0.0 c	0.0 d	0.0 f
LSD P=.10								3.01	.	6.10	.	2.29	10.69	4.02
Standard Deviation								2.52	0.00	5.10	0.00	1.91	8.93	3.36
CV								27.14	0.0	7.09	0.0	2.34	11.65	28.42
Grand Mean								9.27	74.25	71.90	1.25	81.69	76.65	11.81
Bartlett's X2								2.955	0.00	22.977	0.00	4.501	26.451	7.645
P(Bartlett's X2)								0.889	.	0.001*	.	0.105	0.001*	0.177

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.  
 Could not calculate LSD (% mean diff) for columns 2,4,10,11 because error mean square = 0.

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Trial ID: SB-03-19		Study Dir.:										
Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- GLYMA Leaf - Burn Percent Jun-18-19	AMAPA ----- Control Percent Jun-18-19	AGRASS ----- Control Percent Jun-18-19	AMAPA ----- Control Percent Jul-22-19	AGRASS ----- Control Percent Jul-22-19		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code	8	9	10	11	12
1	NTC							0.0 f	0.0 c	0.0 b	0.0 b	0.0 c
2	BOUNDARY INTACT	6.5 EC		29.0 oz/a		PRE	A	10.0 c	99.0 a	99.0 a	99.0 a	99.0 a
	CLASS ACT RIDION			0.5 % v/v		POST	C					
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C					
3	BROADAXE XC INTACT	7 EC		25.0 oz/a		PRE	A	10.0 c	99.0 a	99.0 a	99.0 a	99.0 a
	CLASS ACT RIDION			0.5 % v/v		POST	C					
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C					
4	PREFIX INTACT	5.27 EC		32.0 oz/a		PRE	A	13.8 b	99.0 a	99.0 a	99.0 a	99.0 a
	CLASS ACT RIDION			0.5 % v/v		POST	C					
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C					
5	VALOR XLT INTACT	40.3 WG		3.01 oz/a		PRE	A	13.8 b	99.0 a	99.0 a	99.0 a	99.0 a
	CLASS ACT RIDION			0.5 % v/v		POST	C					
	TAVIUM + VG	3.39 CS		56.5 oz/a		POST	C					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C					
6	ZIDUA PRO INTACT	4.09 SC		4.5 oz/a		PRE	A	8.8 cd	99.0 a	99.0 a	99.0 a	99.0 a
	CLASS ACT RIDION			0.5 % v/v		POST	C					
	ENGENIA	5 EC		12.8 oz/a		POST	C					
	ROUNDUP P-MAX	5.5 SL		28.4 oz/a		POST	C					
7	ZIDUA PRO ENGENIA PRO	4.09 SC		6.0 oz/a		PRE	A	6.3 de	99.0 a	99.0 a	99.0 a	99.0 a
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C					
	INDUCE	5.5 SL		32.0 oz/a		POST	C					
				0.25 % v/v		POST	C					
8	ENGENIA PRO METRIBUZIN	4.54 SC		16.0 oz/a		PRE	A	7.5 cde	99.0 a	99.0 a	99.0 a	99.0 a
	ENGENIA PRO	75 DG		5.0 oz/a		PRE	A					
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C					
	INDUCE	5.5 SL		32.0 oz/a		POST	C					
				0.25 % v/v		POST	C					
9	BAS872UAH ROUNDUP P-MAX	5.23 SC		16.0 oz/a		EPOST	B	1.3 f	99.0 a	99.0 a	99.0 a	98.0 b
	INDUCE	5.5 SL		32.0 oz/a		EPOST	B					
				0.25 % v/v		EPOST	B					
10	BAS872UAH ENGENIA PRO	5.23 SC		16.0 oz/a		PRE	A	5.0 e	99.0 a	99.0 a	99.0 a	99.0 a
	ROUNDUP P-MAX	4.54 SC		16.0 oz/a		POST	C					
	INDUCE	5.5 SL		32.0 oz/a		POST	C					
				0.25 % v/v		POST	C					
11	METRIBUZIN ROUNDUP P-MAX	75 DG		5.3 oz/a		PRE	A	17.5 a	96.8 b	99.0 a	99.0 a	99.0 a
	REFLEX	5.5 SL		32.0 oz/a		POST	C					
		2 SL		24.0 oz/a		POST	C					
12	NTC							0.0 f	0.0 c	0.0 b	0.0 b	0.0 c
LSD P=.10								2.79	1.55	.	.	0.69
Standard Deviation								2.33	1.30	0.00	0.00	0.58
CV								29.87	1.58	0.0	0.0	0.7
Grand Mean								7.81	82.31	82.50	82.50	82.42
Bartlett's X2								2.141	0.00	0.00	0.00	0.00
P(Bartlett's X2)								0.976	.	.	.	.

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.  
 Could not calculate LSD (% mean diff) for columns 2,4,10,11 because error mean square = 0.

# University of Georgia

WEED CONTROL IN XTEND SOYBEANS - I						
Trial ID: SB-03-19      Study Dir.:						
Location: PONDER FARM      Investigator: Eric P. Prostko						
Randomized Complete Block (RCB) AOV For ----- GLYMA Injury Percent May-28-19 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	1749.479167				
Replicate	3	9.895833	3.298611	0.521	0.6707	
Treatment	11	1530.729167	139.157197	21.988	0.0001	
Error	33	208.854167	6.328914			
Randomized Complete Block (RCB) AOV For AMAPA Control Percent May-28-19 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	88209.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	88209.000000	8019.000000	0.000	1.0000	
Error	33	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For AGRASS Control Percent May-28-19 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	84386.479167				
Replicate	3	196.395833	65.465278	2.517	0.0752	
Treatment	11	83331.729167	7575.611742	291.249	0.0001	
Error	33	858.354167	26.010732			
Randomized Complete Block (RCB) AOV For ----- GLYMA Leaf Spot Percent Jun-4-19 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	825.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	825.000000	75.000000	0.000	1.0000	
Error	33	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For AMAPA Control Percent Jun-4-19 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	64362.312500				
Replicate	3	18.062500	6.020833	1.646	0.1976	
Treatment	11	64223.562500	5838.505682	1596.443	0.0001	
Error	33	120.687500	3.657197			
Randomized Complete Block (RCB) AOV For AGRASS Control Percent Jun-4-19 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	61260.979167				
Replicate	3	584.395833	194.798611	2.442	0.0817	
Treatment	11	58043.729167	5276.702652	66.138	0.0001	
Error	33	2632.854167	79.783460			
Randomized Complete Block (RCB) AOV For ----- GLYMA Leaf Necrosis Percent Jun-13-19 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	3881.312500				
Replicate	3	39.729167	13.243056	1.175	0.3342	
Treatment	11	3469.562500	315.414773	27.979	0.0001	
Error	33	372.020833	11.273359			
Randomized Complete Block (RCB) AOV For ----- GLYMA Leaf Burn Percent Jun-18-19 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	1645.312500				
Replicate	3	64.062500	21.354167	3.922	0.0169	
Treatment	11	1401.562500	127.414773	23.400	0.0001	
Error	33	179.687500	5.445076			
Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Jun-18-19 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65122.312500				
Replicate	3	5.062500	1.687500	1.000	0.4051	
Treatment	11	65061.562500	5914.687500	3505.000	0.0001	
Error	33	55.687500	1.687500			
Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent Jun-18-19 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65340.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	65340.000000	5940.000000	0.000	1.0000	
Error	33	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Jul-22-19 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65340.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	65340.000000	5940.000000	0.000	1.0000	
Error	33	0.000000	0.000000			

# University of Georgia

## WEED CONTROL IN XTEND SOYBEANS - I

Trial ID: SB-03-19      Study Dir.:  
Location: PONDER FARM      Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent Jul-22-19 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	65223.666667			
Replicate	3	1.000000	0.333333	1.000	0.4051
Treatment	11	65211.666667	5928.333333	17785.002	0.0001
Error	33	11.000000	0.333333		

Weed Code

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

Part Rated

Leaf = LEAF / FOLIAGE



# University of Georgia

WEED CONTROL IN XTEND SOYBEANS - I														
Trial ID: SB-03-19		Study Dir.:												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date		----- GLYMA	AMAPA	AGRASS	----- GLYMA Leaf - Spot	AMAPA	AGRASS		
							Injury Percent May-28-19	Control Percent May-28-19	Control Percent May-28-19	Percent Jun-4-19	Control Percent Jun-4-19	Control Percent 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
1	NTC							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
								304	0.0	0.0	0.0	0.0	0.0	0.0
								410	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	BOUNDARY	6.5	EC	29.0	oz/a	PRE	A	102	10.0	99.0	95.0	0.0	95.0	90.0
	INTACT			0.5	% v/v	POST	C	212	10.0	99.0	95.0	0.0	99.0	95.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	306	10.0	99.0	99.0	0.0	99.0	95.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	412	15.0	99.0	99.0	0.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
								Mean =	11.3	99.0	97.0	0.0	98.0	94.8
3	BROADAXE XC	7	EC	25.0	oz/a	PRE	A	103	15.0	99.0	99.0	0.0	99.0	95.0
	INTACT			0.5	% v/v	POST	C	204	15.0	99.0	99.0	0.0	99.0	75.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	301	10.0	99.0	99.0	0.0	99.0	75.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	411	15.0	99.0	99.0	0.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
								Mean =	13.8	99.0	99.0	0.0	99.0	86.0
4	PREFIX	5.27	EC	32.0	oz/a	PRE	A	104	15.0	99.0	99.0	0.0	99.0	99.0
	INTACT			0.5	% v/v	POST	C	203	15.0	99.0	99.0	0.0	99.0	95.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	308	15.0	99.0	99.0	0.0	99.0	99.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	404	15.0	99.0	99.0	0.0	99.0	95.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
								Mean =	15.0	99.0	99.0	0.0	99.0	97.0
5	VALOR XLT	40.3	WG	3.01	oz/a	PRE	A	105	15.0	99.0	99.0	0.0	99.0	99.0
	INTACT			0.5	% v/v	POST	C	206	10.0	99.0	85.0	0.0	99.0	65.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	311	10.0	99.0	95.0	0.0	99.0	99.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	407	10.0	99.0	99.0	0.0	99.0	95.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
								Mean =	11.3	99.0	94.5	0.0	99.0	89.5
6	ZIDUA PRO	4.09	SC	4.5	oz/a	PRE	A	106	15.0	99.0	99.0	0.0	99.0	90.0
	INTACT			0.5	% v/v	POST	C	208	10.0	99.0	85.0	0.0	99.0	95.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	307	15.0	99.0	99.0	0.0	99.0	85.0
	ENGENIA	5	EC	12.8	oz/a	POST	C	403	10.0	99.0	99.0	0.0	99.0	95.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
								Mean =	12.5	99.0	95.5	0.0	99.0	91.3
7	ZIDUA PRO	4.09	SC	6.0	oz/a	PRE	A	107	15.0	99.0	95.0	0.0	99.0	95.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	C	211	10.0	99.0	99.0	0.0	99.0	95.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	305	15.0	99.0	95.0	0.0	99.0	85.0
	INDUCE			0.25	% v/v	POST	C	402	10.0	99.0	99.0	0.0	99.0	99.0
								Mean =	12.5	99.0	97.0	0.0	99.0	93.5
8	ENGENIA PRO	4.54	SC	16.0	oz/a	PRE	A	108	15.0	99.0	99.0	0.0	99.0	95.0
	METRIBUZIN	75	DG	5.0	oz/a	PRE	A	202	15.0	99.0	95.0	0.0	99.0	95.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	C	312	10.0	99.0	99.0	0.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	406	15.0	99.0	99.0	0.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	C							
								Mean =	13.8	99.0	98.0	0.0	99.0	97.0
9	BAS872UAH	5.23	SC	16.0	oz/a	EPOST	B	109	0.0	0.0	0.0	15.0	85.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	205	0.0	0.0	0.0	15.0	95.0	99.0
	INDUCE			0.25	% v/v	EPOST	B	310	0.0	0.0	0.0	15.0	90.0	99.0
								405	0.0	0.0	0.0	15.0	99.0	99.0
								Mean =	0.0	0.0	0.0	15.0	92.3	99.0
10	BAS872UAH	5.23	SC	16.0	oz/a	PRE	A	110	10.0	99.0	95.0	0.0	99.0	99.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	C	209	15.0	99.0	99.0	0.0	99.0	85.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	303	15.0	99.0	99.0	0.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	C	408	15.0	99.0	99.0	0.0	99.0	99.0
								Mean =	13.8	99.0	98.0	0.0	99.0	95.5

# University of Georgia

WEED CONTROL IN XTEND SOYBEANS - I

Trial ID: SB-03-19      Study Dir.:  
 Location: PONDER FARM      Investigator: Eric P. Prostko

Weed Code						----- GLYMA	AMAPA	AGRASS	----- GLYMA Leaf -	AMAPA	AGRASS
Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date		Injury 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	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Rate Unit	Stg	Code Plot	1	2	3	4	5	6
11 METRIBUZIN	75 DG		5.3 oz/a	PRE	A 111	10.0	99.0	99.0	0.0	95.0	95.0
ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST	C 207	10.0	99.0	65.0	0.0	99.0	50.0
REFLEX	2 SL		24.0 oz/a	POST	C 309	10.0	99.0	95.0	0.0	99.0	95.0
					401	0.0	99.0	80.0	0.0	95.0	65.0
					Mean =	7.5	99.0	84.8	0.0	97.0	76.3
12 NTC					112	0.0	0.0	0.0	0.0	0.0	0.0
					201	0.0	0.0	0.0	0.0	0.0	0.0
					302	0.0	0.0	0.0	0.0	0.0	0.0
					409	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

# University of Georgia

WEED CONTROL IN XTEND SOYBEANS - I														
Trial ID: SB-03-19		Study Dir.:												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- GLYMA Leaf - Necrosis Percent Jun-13-19	----- GLYMA Leaf - Burn Percent Jun-18-19	AMAPA ----- Control Percent Jun-18-19	AGRASS ----- Control Percent Jun-18-19	AMAPA ----- Control Percent Jul-22-19	AGRASS ----- Control Percent Jul-22-19			
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	7	8	9	10	11	12
1	NTC						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
							304		0.0	0.0	0.0	0.0	0.0	0.0
							410		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	BOUNDARY	6.5	EC	29.0	oz/a	PRE	A	102	20.0	5.0	99.0	99.0	99.0	99.0
	INTACT			0.5	% v/v	POST	C	212	20.0	10.0	99.0	99.0	99.0	99.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	306	20.0	15.0	99.0	99.0	99.0	99.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	412	20.0	10.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
							Mean =		20.0	10.0	99.0	99.0	99.0	99.0
3	BROADAXE XC	7	EC	25.0	oz/a	PRE	A	103	20.0	5.0	99.0	99.0	99.0	99.0
	INTACT			0.5	% v/v	POST	C	204	20.0	10.0	99.0	99.0	99.0	99.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	301	20.0	15.0	99.0	99.0	99.0	99.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	411	2.0	10.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
							Mean =		15.5	10.0	99.0	99.0	99.0	99.0
4	PREFIX	5.27	EC	32.0	oz/a	PRE	A	104	20.0	10.0	99.0	99.0	99.0	99.0
	INTACT			0.5	% v/v	POST	C	203	20.0	15.0	99.0	99.0	99.0	99.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	308	20.0	15.0	99.0	99.0	99.0	99.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	404	20.0	15.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
							Mean =		20.0	13.8	99.0	99.0	99.0	99.0
5	VALOR XLT	40.3	WG	3.01	oz/a	PRE	A	105	20.0	10.0	99.0	99.0	99.0	99.0
	INTACT			0.5	% v/v	POST	C	206	20.0	15.0	99.0	99.0	99.0	99.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	311	20.0	15.0	99.0	99.0	99.0	99.0
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	C	407	20.0	15.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
							Mean =		20.0	13.8	99.0	99.0	99.0	99.0
6	ZIDUA PRO	4.09	SC	4.5	oz/a	PRE	A	106	10.0	10.0	99.0	99.0	99.0	99.0
	INTACT			0.5	% v/v	POST	C	208	15.0	10.0	99.0	99.0	99.0	99.0
	CLASS ACT RIDION			1.0	% v/v	POST	C	307	15.0	10.0	99.0	99.0	99.0	99.0
	ENGENIA	5	EC	12.8	oz/a	POST	C	403	10.0	5.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	28.4	oz/a	POST	C							
							Mean =		12.5	8.8	99.0	99.0	99.0	99.0
7	ZIDUA PRO	4.09	SC	6.0	oz/a	PRE	A	107	5.0	5.0	99.0	99.0	99.0	99.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	C	211	10.0	5.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	305	5.0	5.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	C	402	10.0	10.0	99.0	99.0	99.0	99.0
							Mean =		7.5	6.3	99.0	99.0	99.0	99.0
8	ENGENIA PRO	4.54	SC	16.0	oz/a	PRE	A	108	10.0	5.0	99.0	99.0	99.0	99.0
	METRIBUZIN	75	DG	5.0	oz/a	PRE	A	202	15.0	10.0	99.0	99.0	99.0	99.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	C	312	5.0	5.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	406	10.0	10.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	C							
							Mean =		10.0	7.5	99.0	99.0	99.0	99.0
9	BAS872UAH	5.23	SC	16.0	oz/a	EPOST	B	109	0.0	0.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	205	0.0	0.0	99.0	99.0	99.0	95.0
	INDUCE			0.25	% v/v	EPOST	B	310	0.0	5.0	99.0	99.0	99.0	99.0
							405		0.0	0.0	99.0	99.0	99.0	99.0
							Mean =		0.0	1.3	99.0	99.0	99.0	98.0
10	BAS872UAH	5.23	SC	16.0	oz/a	PRE	A	110	5.0	5.0	99.0	99.0	99.0	99.0
	ENGENIA PRO	4.54	SC	16.0	oz/a	POST	C	209	15.0	5.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	303	10.0	5.0	99.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	POST	C	408	10.0	5.0	99.0	99.0	99.0	99.0
							Mean =		10.0	5.0	99.0	99.0	99.0	99.0

# University of Georgia

WEED CONTROL IN XTEND SOYBEANS - I

Trial ID: SB-03-19      Study Dir.:  
 Location: PONDER FARM      Investigator: Eric P. Prostko

Weed Code						----- GLYMA Leaf - Necrosis Percent Jun-13-19	----- GLYMA Leaf - Burn Percent Jun-18-19	AMAPA ----- Control Percent Jun-18-19	AGRASS ----- Control Percent Jun-18-19	AMAPA ----- Control Percent Jul-22-19	AGRASS ----- Control Percent Jul-22-19
Trt Treatment	Form	Form	Rate	Grow	Appl	7	8	9	10	11	12
No. Name	Conc	Type	Rate Unit	Stg	Code Plot						
11 METRIBUZIN	75	DG	5.3 oz/a	PRE	A 111	25.0	15.0	99.0	99.0	99.0	99.0
ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C 207	25.0	20.0	99.0	99.0	99.0	99.0
REFLEX	2	SL	24.0 oz/a	POST	C 309	25.0	15.0	99.0	99.0	99.0	99.0
					401	30.0	20.0	90.0	99.0	99.0	99.0
					Mean =	26.3	17.5	96.8	99.0	99.0	99.0
12 NTC					112	0.0	0.0	0.0	0.0	0.0	0.0
					201	0.0	0.0	0.0	0.0	0.0	0.0
					302	0.0	0.0	0.0	0.0	0.0	0.0
					409	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

# University of Georgia

WEED CONTROL IN XTEND SOYBEANS - I

Trial ID: SB-03-19      Study Dir.:  
Location: PONDER FARM      Investigator: Eric P. Prostko

Weed Code  
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.  
Part Rated  
Leaf = LEAF / FOLIAGE