

# University of Georgia

MON 63479 (WARRANT ULTRA) IN SOYBEANS

Trial ID: SB-12-15      Study Dir.: MARK BRAXTON (2015-01-24\_02-25-2015)  
 Location: ATTAPULGUS      Investigator: Eric P. Prostko

Reps: 4      Plots: 6 by 25 feet  
 Spray vol: 15 GAL/AC      Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Rep 1	2	3	4
1	WARRANT	3	CS	48.0	oz/a	PRE	A	37.5 ml/mx	101	207	303	405
2	REFLEX	2	EC	16.0	oz/a	PRE	A	12.5 ml/mx	102	203	315	408
3	MON 63479	3.49	CS	50	oz/a	PRE	A	39.06 ml/mx	103	205	306	402
4	MON 63479	3.49	CS	60	oz/a	PRE	A	46.87 ml/mx	104	201	313	411
5	PREFIX	5.29	EC	32	oz/a	PRE	A	25.0 ml/mx	105	206	305	413
6	MON 63479	3.49	CS	50	oz/a	PRE	A	39.06 ml/mx	106	216	312	415
	WARRANT	3	CS	48	oz/a	POST2	C	37.5 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	25.0 ml/mx				
7	MON 63479	3.49	CS	60	oz/a	PRE	A	46.87 ml/mx	107	202	304	410
	WARRANT	3	CS	48	oz/a	POST2	C	37.5 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	25.0 ml/mx				
8	WARRANT	3	CS	48	oz/a	PRE	A	37.5 ml/mx	108	214	307	401
	MON 63479	3.49	CS	50	oz/a	POST1	B	39.06 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B	25.0 ml/mx				
9	WARRANT	3	CS	48	oz/a	PRE	A	37.5 ml/mx	109	208	309	412
	MON 63479	3.49	CS	60	oz/a	POST1	B	46.87 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B	25.0 ml/mx				
10	WARRANT	3	CS	48	oz/a	PRE	A	37.5 ml/mx	110	215	302	414
	MON 63479	3.49	CS	50	oz/a	POST2	C	39.06 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	25.0 ml/mx				
11	WARRANT	3	CS	48	oz/a	PRE	A	37.5 ml/mx	111	210	316	404
	PREFIX	5.29	EC	32	oz/a	POST1	B	25.0 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B	25.0 ml/mx				
12	WARRANT	3	CS	48	oz/a	PRE	A	37.5 ml/mx	112	213	311	403
	PREFIX	5.29	EC	32	oz/a	POST2	C	25.0 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	25.0 ml/mx				
13	VALOR SX	51	WG	2	oz/a	PRE	A	1.498 g/mx	113	211	308	409
	MON 63479	3.49	CS	50	oz/a	POST2	C	39.06 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	25.0 ml/mx				
14	AUTHORITY MTZ	45	DF	11	oz/a	PRE	A	8.238 g/mx	114	209	314	416
	MON 63479	3.49	CS	50	oz/a	POST2	C	39.06 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	25.0 ml/mx				
15	FIERCE	76	WG	3.75	oz/a	PRE	A	2.808 g/mx	115	212	310	406
	MON 63479	3.49	CS	50	oz/a	POST2	C	39.06 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	25.0 ml/mx				
16	NTC								116	204	301	407

Sort Order: Treatment

### Trial Comments

PREFIX = FOMESAFEN + S-MOC  
 AUTHORITY MTZ = SULFENTRAZONE + METRIBUZIN  
 FIERCE = FLUMIOXAZIN + PYROXASULFONE

ANNUAL GRASS = TEXAS PANICUM + CROWFOOTGRASS + GOOSEGRASS + CRABGRASS

YIELDS ADJUSTED TO 13% MOISTURE.

#### **SUMMARY:**

- 1) ALL PRE TREATMENTS CAUSED SLIGHT EARLY SEASON SOYBEAN STUNTING.
- 2) PALMER AMARANTH AND CARPETWEED CONTROL WAS EXCELLENT (99%) WITH ALL TREATMENTS THROUGHOUT THE GROWING SEASON.
- 3) WARRANT PROVIDED NO RESIDUAL CONTROL OF SMALLFLOWER MG.

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4) GENERALLY, THE FOLLOWING PRE TREATMENTS DID NOT PROVIDE ACCEPTABLE CONTROL (70% OR BETTER) OF ANNUAL GRASSES:

WARRANT  
AUTHORITY MTZ  
REFLEX

5) REFLEX DOES NOT PROVIDE ACCEPTABLE RESIDUAL CONTROL OF FLORIDA BEGGARWEED.

6) WARRANT ULTRA PROVIDED BETTER GRASS CONTROL THAN REFLEX OR WARRANT ALONE.

7) GENERALLY, NO DIFFERENCES IN WEED CONTROL WERE OBSERVED BETWEEN PREFIX AND WARRANT ULTRA TREATMENTS.

8) ALL TREATMENTS EXCEPT WARRANT, REFLEX, AND WARRANT ULTRA @ 50 OZ/A APPLIED PRE RESULTED IN YIELDS HIGHER THAN THE NTC. GENERALLY, THERE WERE NO DIFFERENCES IN SOYBEAN YIELD BETWEEN OTHER TREATMENTS. BUT, AUTHORITY MTZ (PRE) FB WARRANT ULTRA (50 OZ/A) + ROUNDUP (POST2) AND WARRANT (PRE) FB WARRANT ULTRA (60 OZ/A) + ROUNDUP (POST1) HAD LOWER YIELDS THAN WARRANT (PRE) FB PREFIX + ROUNDUP (POST2).

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Trial ID: SB-12-15      Study Dir.: MARK BRAXTON (2015-01-24\_02-25-2015)  
 Location: ATTAPULGUS      Investigator: Eric P. Prostko

### GENERAL TRIAL INFORMATION

**Study Director:** MARK BRAXTON (2015-01-24\_02-25)      **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.** AMAPA PALMER AMARANTH      **2.** DEDTO FLORIDA BEGGARWEED  
**Weed 3.** MOLVE CARPETWEED      **4.** AGRASS PANICUM+CRAB+CROW+GOOSE  
**Weed 5.** IAQTA SMALLFLOWER MG      **6.** \_\_\_\_\_

**Crop 1:** GLYMA SOYBEAN      **Variety:** ASGROW AG7934      **Planting Date:** May-12-15  
**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:** 25 FT      **Reps:** 4  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** CONVENTIONAL      **Study Design:** RACOBL  
**Trial Initiation Comments:** \_\_\_\_\_

<b>Previous: Crops</b>	<b>Pesticides</b>	<b>Year</b>
1. COTTON	2014	_____

### MAINTENANCE

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

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

### SOIL DESCRIPTION

**Texture:** LOAMY SAND      **% OM:** 1.49      **% Sand:** 86      **% Silt:** 6      **% Clay:** 8  
**pH:** 6.0      **CEC:** \_\_\_\_\_      **Soil Name:** ORANGEBURG      **Fertility Level:** GOOD

### MOISTURE CONDITIONS

**On: Date**      **Time**      **Amount**      **Unit**      **Type**      **Interval**      **Unit**  
 1. May-13-15 \_\_\_\_\_ 0.5 IN SPRINKLER - CENTER PIVOT \_\_\_\_\_

**Overall Moisture Conditions:** \_\_\_\_\_  
**Closest Weather Station:** \_\_\_\_\_      **Distance:** \_\_\_\_\_      **Unit:** \_\_\_\_\_

### APPLICATION DESCRIPTION

	A	B	C	D	E	F
<b>Application Date:</b>	May-13-15	May-27-15	Jun-15-15	_____	_____	_____
<b>Time of Day:</b>	8:11 AM	8:15 AM	8:15 AM	_____	_____	_____
<b>Application Method:</b>	BROADCAST	BROADCAST	BROADCAST	_____	_____	_____
<b>Application Timing:</b>	PRE	POST1	POST2	_____	_____	_____
<b>Applic. Placement:</b>	SOIL	FOLIAGE	FOLIAGE	_____	_____	_____
<b>Air Temp., Unit:</b>	71 F	68 F	86 F	_____	_____	_____
<b>% Relative Humidity:</b>	85	100	64	_____	_____	_____
<b>Wind Velocity, Unit:</b>	0 MPH	0 MPH	0 MPH	_____	_____	_____
<b>Dew Presence (Y/N):</b>	N	N	Y	_____	_____	_____
<b>Water Hardness:</b>	---	---	---	_____	_____	_____
<b>Soil Temp., Unit:</b>	79 F	75 F	80 F	_____	_____	_____
<b>Soil Moisture:</b>	OPTIMUM	WET	OPTIMUM	_____	_____	_____
<b>% Cloud Cover:</b>	100	100	0	_____	_____	_____

### CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
<b>Crop 1 Stage:</b> GLYMA	_____	_____	_____	_____	_____	_____
<b>Stage Scale:</b>	_____	V2	V8	_____	_____	_____
<b>Height, Unit:</b>	_____	4 IN	15 IN	_____	_____	_____

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
<b>Weed 1</b>	<b>Stage:</b> AMAPA	1-4"					
	<b>Stage Scale:</b>						
	<b>Density, Unit:</b>						
<b>Weed 2</b>	<b>Stage:</b> DEDTO		4-6"				
	<b>Stage Scale:</b>						
	<b>Density, Unit:</b>						
<b>Weed 3</b>	<b>Stage:</b> MOLVE						
	<b>Stage Scale:</b>						
	<b>Density, Unit:</b>						
<b>Weed 4</b>	<b>Stage:</b> AGRASS	1-2"	4-12"				
	<b>Stage Scale:</b>						
	<b>Density, Unit:</b>						
<b>Weed 5</b>	<b>Stage:</b> IAQTA	1-2"	5"				
	<b>Stage Scale:</b>						
	<b>Density, Unit:</b>						

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
<b>Appl. Equipment:</b>	BACKPACK						
<b>Operating Pressure:</b>	40						
<b>Nozzle Type:</b>	AIXR						
<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 Code						----- GLYMA PLANT - STUNTING PERCENT May-27-15	AMAPA ----- CONTROL PERCENT May-27-15	ANNUAL GRASS CONTROL PERCENT May-27-15	IAQTA ----- CONTROL PERCENT May-27-15	MOLVE ----- CONTROL PERCENT May-27-15	----- GLYMA PLANT - STUNTING PERCENT Jun-5-15
Trt Treatment	Form Form	Rate Grow	Appl			1	2	3	4	5	6
No. Name	Conc Type	Rate Unit Stg	Code								
1 WARRANT	3 CS	48.0 oz/a PRE	A			10.0 ab	99.0 a	68.8 bcd	0.0 c	99.0 a	0.0 d
2 REFLEX	2 EC	16.0 oz/a PRE	A			6.7 b	99.0 a	93.5 a	89.5 b	99.0 a	16.7 a
3 MON 63479	3.49 CS	50 oz/a PRE	A			10.0 ab	99.0 a	94.5 a	99.0 a	99.0 a	1.7 cd
4 MON 63479	3.49 CS	60 oz/a PRE	A			12.5 ab	99.0 a	98.0 a	98.0 a	99.0 a	3.8 bcd
5 PREFIX	5.29 EC	32 oz/a PRE	A			12.5 ab	99.0 a	99.0 a	98.0 a	99.0 a	1.3 d
6 MON 63479	3.49 CS	50 oz/a PRE	A			6.7 b	99.0 a	99.0 a	98.0 a	99.0 a	1.7 cd
WARRANT	3 CS	48 oz/a POST2	C								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST2	C								
7 MON 63479	3.49 CS	60 oz/a PRE	A			12.5 ab	99.0 a	99.0 a	99.0 a	99.0 a	2.5 cd
WARRANT	3 CS	48 oz/a POST2	C								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST2	C								
8 WARRANT	3 CS	48 oz/a PRE	A			10.0 ab	99.0 a	47.5 d	0.0 c	99.0 a	12.5 ab
MON 63479	3.49 CS	50 oz/a POST1	B								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST1	B								
9 WARRANT	3 CS	48 oz/a PRE	A			7.5 b	99.0 a	86.3 ab	0.0 c	99.0 a	11.3 abc
MON 63479	3.49 CS	60 oz/a POST1	B								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST1	B								
10 WARRANT	3 CS	48 oz/a PRE	A			10.0 ab	99.0 a	57.5 cd	0.0 c	99.0 a	0.0 d
MON 63479	3.49 CS	50 oz/a POST2	C								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST2	C								
11 WARRANT	3 CS	48 oz/a PRE	A			10.0 ab	99.0 a	68.8 bcd	0.0 c	99.0 a	12.5 ab
PREFIX	5.29 EC	32 oz/a POST1	B								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST1	B								
12 WARRANT	3 CS	48 oz/a PRE	A			12.5 ab	99.0 a	70.0 bc	0.0 c	99.0 a	0.0 d
PREFIX	5.29 EC	32 oz/a POST2	C								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST2	C								
13 VALOR SX	51 WG	2 oz/a PRE	A			10.0 ab	99.0 a	92.3 a	99.0 a	99.0 a	0.0 d
MON 63479	3.49 CS	50 oz/a POST2	C								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST2	C								
14 AUTHORITY MTZ	45 DF	11 oz/a PRE	A			15.0 a	99.0 a	67.3 bcd	99.0 a	99.0 a	6.7 bcd
MON 63479	3.49 CS	50 oz/a POST2	C								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST2	C								
15 FIERCE	76 WG	3.75 oz/a PRE	A			11.3 ab	99.0 a	99.0 a	99.0 a	99.0 a	5.0 bcd
MON 63479	3.49 CS	50 oz/a POST2	C								
ROUNDUP POWERMAX	4.5 SL	32 oz/a POST2	C								
16 NTC						0.0 c	0.0 b	0.0 e	0.0 c	0.0 b	0.0 d
LSD P=.10						5.01	.	19.64	3.57	.	8.43
Standard Deviation						4.21	0.00	16.54	3.01	0.00	7.08
CV						42.86	0.0	21.34	5.48	0.0	150.1
Grand Mean						9.82	92.81	77.52	54.91	92.81	4.71
Bartlett's X2						3.601	0.0	34.991	15.765	0.0	34.841
P(Bartlett's X2)						0.936	.	0.001*	0.001*	.	0.001*
Replicate F						2.238	0.000	2.392	1.482	0.000	0.887
Replicate Prob(F)						0.0986	1.0000	0.0810	0.2322	1.0000	0.4563
Treatment F						2.704	0.000	10.455	1108.878	0.000	2.441
Treatment Prob(F)						0.0061	1.0000	0.0001	0.0001	1.0000	0.0128

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: Average=1.6  
 Could not calculate LSD (% mean diff) for columns 2,5,8,11,12,14 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						----- GLYMA LEAF - BURN PERCENT Jun-5-15	AMAPA ----- CONTROL PERCENT Jun-5-15	ANNUAL GRASS CONTROL PERCENT Jun-5-15	IAQTA ----- CONTROL PERCENT Jun-5-15	MOLVE ----- CONTROL PERCENT Jun-5-15	AMAPA ----- CONTROL PERCENT Jun-15-15	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
1	WARRANT	3	CS	48.0 oz/a	PRE	A	0.0 c	99.0 a	43.8 d	0.0 b	99.0 a	99.0 a
2	REFLEX	2	EC	16.0 oz/a	PRE	A	0.0 c	99.0 a	66.3 bc	99.0 a	99.0 a	99.0 a
3	MON 63479	3.49	CS	50 oz/a	PRE	A	0.0 c	99.0 a	96.8 a	98.0 a	99.0 a	99.0 a
4	MON 63479	3.49	CS	60 oz/a	PRE	A	0.0 c	99.0 a	98.0 a	99.0 a	99.0 a	99.0 a
5	PREFIX	5.29	EC	32 oz/a	PRE	A	0.0 c	99.0 a	97.0 a	98.0 a	99.0 a	99.0 a
6	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 3 4.5	CS CS SL	50 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	0.0 c	99.0 a	98.0 a	99.0 a	99.0 a	99.0 a
7	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 3 4.5	CS CS SL	60 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	0.0 c	99.0 a	94.5 a	98.0 a	99.0 a	99.0 a
8	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 50 oz/a 32 oz/a	PRE POST1 POST1	A B B	15.0 b	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
9	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 60 oz/a 32 oz/a	PRE POST1 POST1	A B B	16.3 ab	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
10	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	0.0 c	99.0 a	16.3 ef	0.0 b	99.0 a	99.0 a
11	WARRANT PREFIX ROUNDUP POWERMAX	3 5.29 4.5	CS EC SL	48 oz/a 32 oz/a 32 oz/a	PRE POST1 POST1	A B B	17.5 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
12	WARRANT PREFIX ROUNDUP POWERMAX	3 5.29 4.5	CS EC SL	48 oz/a 32 oz/a 32 oz/a	PRE POST2 POST2	A C C	0.0 c	99.0 a	48.8 cd	0.0 b	99.0 a	99.0 a
13	VALOR SX MON 63479 ROUNDUP POWERMAX	51 3.49 4.5	WG CS SL	2 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	0.0 c	99.0 a	82.5 ab	99.0 a	99.0 a	99.0 a
14	AUTHORITY MTZ MON 63479 ROUNDUP POWERMAX	45 3.49 4.5	DF CS SL	11 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	0.0 c	99.0 a	33.8 de	99.0 a	99.0 a	99.0 a
15	FIERCE MON 63479 ROUNDUP POWERMAX	76 3.49 4.5	WG CS SL	3.75 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	0.0 c	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
16	NTC						0.0 c	0.0 b	0.0 f	0.0 b	0.0 b	0.0 b
LSD P=.10							1.61	.	19.49	1.02	.	.
Standard Deviation							1.36	0.00	16.41	0.86	0.00	0.00
CV							44.63	0.0	22.41	1.16	0.0	0.0
Grand Mean							3.05	92.81	73.22	74.06	92.81	92.81
Bartlett's X2							0.777	0.0	46.579	0.0	0.0	0.0
P(Bartlett's X2)							0.678	.	0.001*	1.00	.	.
Replicate F							1.901	0.000	1.337	1.241	0.000	0.000
Replicate Prob(F)							0.1429	1.0000	0.2743	0.3062	1.0000	1.0000
Treatment F							93.282	0.000	17.054	10558.896	0.000	0.000
Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	1.0000	1.0000

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						ANNUAL GRASS	AMAPA -----	ANNUAL GRASS	DEDTO -----	AMAPA -----	DEDTO -----	
						CONTROL PERCENT Jun-15-15	CONTROL PERCENT Jul-1-15	CONTROL PERCENT Jul-1-15	CONTROL PERCENT Jul-1-15	CONTROL PERCENT Aug-31-15	CONTROL PERCENT Aug-31-15	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	13	14	15	16	17	18
1	WARRANT	3	CS	48.0 oz/a	PRE	A	42.5 c	99.0 a	20.0 c	25.0 c	99.0 a	21.3 c
2	REFLEX	2	EC	16.0 oz/a	PRE	A	79.8 b	99.0 a	57.5 b	24.8 c	99.0 a	0.0 c
3	MON 63479	3.49	CS	50 oz/a	PRE	A	95.8 a	99.0 a	89.8 a	74.5 ab	99.0 a	49.8 b
4	MON 63479	3.49	CS	60 oz/a	PRE	A	98.0 a	99.0 a	93.5 a	83.3 ab	99.0 a	86.8 a
5	PREFIX	5.29	EC	32 oz/a	PRE	A	98.0 a	99.0 a	93.5 a	71.0 b	99.0 a	58.5 b
6	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 3 4.5	CS CS SL	50 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	99.0 a	99.0 a	99.0 a	99.0 a	98.0 a	99.0 a
7	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 3 4.5	CS CS SL	60 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	97.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
8	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 50 oz/a 32 oz/a	PRE POST1 POST1	A B B	99.0 a	99.0 a	98.0 a	99.0 a	99.0 a	99.0 a
9	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 60 oz/a 32 oz/a	PRE POST1 POST1	A B B	99.0 a	99.0 a	99.0 a	99.0 a	98.0 a	99.0 a
10	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	26.3 d	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
11	WARRANT PREFIX ROUNDUP POWERMAX	3 5.29 4.5	CS EC SL	48 oz/a 32 oz/a 32 oz/a	PRE POST1 POST1	A B B	98.0 a	99.0 a	99.0 a	99.0 a	99.0 a	74.3 ab
12	WARRANT PREFIX ROUNDUP POWERMAX	3 5.29 4.5	CS EC SL	48 oz/a 32 oz/a 32 oz/a	PRE POST2 POST2	A C C	51.3 c	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
13	VALOR SX MON 63479 ROUNDUP POWERMAX	51 3.49 4.5	WG CS SL	2 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	75.0 b	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
14	AUTHORITY MTZ MON 63479 ROUNDUP POWERMAX	45 3.49 4.5	DF CS SL	11 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	51.3 c	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
15	FIERCE MON 63479 ROUNDUP POWERMAX	76 3.49 4.5	WG CS SL	3.75 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
16	NTC						0.0 e	0.0 b	0.0 d	0.0 d	0.0 b	0.0 c
LSD P=.10							13.00	.	10.19	21.01	0.85	26.15
Standard Deviation							10.95	0.00	8.58	17.69	0.71	22.02
CV							14.49	0.0	10.22	22.31	0.77	29.82
Grand Mean							75.55	92.81	83.95	79.28	92.69	73.84
Bartlett's X2							43.817	0.0	20.426	2.454	0.0	1.399
P(Bartlett's X2)							0.001*	.	0.001*	0.653	.	0.844
Replicate F							2.370	0.000	2.114	1.742	0.652	2.396
Replicate Prob(F)							0.0831	1.0000	0.1118	0.1720	0.5858	0.0806
Treatment F							33.378	0.000	51.729	13.805	4781.968	11.191
Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

## University of Georgia

Weed Code						----- GLYMA PLOT - YIELD LBS Nov-17-15	----- GLYMA PLOT - MOSITURE PERCENT Nov-17-15	----- GLYMA PLOT - YIELD BU/A Nov-17-15 TY1	
Crop Code									
Part Rated									
Rating Data Type									
Rating Unit									
Rating Date									
PRM Data Type									
# Subsamples, Dec.						- 2	- 2	- 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	19	20	21
1	WARRANT	3	CS	48.0 oz/a	PRE	A	0.67 b	4.69 b	3 c
2	REFLEX	2	EC	16.0 oz/a	PRE	A	2.06 b	4.67 b	9 c
3	MON 63479	3.49	CS	50 oz/a	PRE	A	2.50 b	5.47 b	11 c
4	MON 63479	3.49	CS	60 oz/a	PRE	A	11.61 a	18.28 a	53 ab
5	PREFIX	5.29	EC	32 oz/a	PRE	A	10.70 a	18.47 a	49 ab
6	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 3 4.5	CS CS SL	50 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	12.33 a	17.58 a	57 ab
7	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 3 4.5	CS CS SL	60 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	12.99 a	18.37 a	59 ab
8	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 50 oz/a 32 oz/a	PRE POST1 POST1	A B B	11.35 a	17.84 a	52 ab
9	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 60 oz/a 32 oz/a	PRE POST1 POST1	A B B	10.45 a	18.42 a	47 b
10	WARRANT MON 63479 ROUNDUP POWERMAX	3 3.49 4.5	CS CS SL	48 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	11.73 a	18.06 a	53 ab
11	WARRANT PREFIX ROUNDUP POWERMAX	3 5.29 4.5	CS EC SL	48 oz/a 32 oz/a 32 oz/a	PRE POST1 POST1	A B B	11.78 a	18.13 a	54 ab
12	WARRANT PREFIX ROUNDUP POWERMAX	3 5.29 4.5	CS EC SL	48 oz/a 32 oz/a 32 oz/a	PRE POST2 POST2	A C C	13.85 a	17.90 a	63 a
13	VALOR SX MON 63479 ROUNDUP POWERMAX	51 3.49 4.5	WG CS SL	2 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	12.08 a	17.97 a	55 ab
14	AUTHORITY MTZ MON 63479 ROUNDUP POWERMAX	45 3.49 4.5	DF CS SL	11 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	10.44 a	17.87 a	48 b
15	FIERCE MON 63479 ROUNDUP POWERMAX	76 3.49 4.5	WG CS SL	3.75 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	12.22 a	17.96 a	56 ab
16	NTC						0.00 b	0.00 b	0 c
LSD P=.10						2.906	5.239	13.1	
Standard Deviation						2.447	4.412	11.0	
CV						26.69	30.47	26.35	
Grand Mean						9.171	14.479	41.8	
Bartlett's X2						23.697	138.404	23.295	
P(Bartlett's X2)						0.05*	0.001*	0.056	
Replicate F						1.234	0.306	1.247	
Replicate Prob(F)						0.3084	0.8208	0.3041	
Treatment F						15.374	8.746	15.894	
Treatment Prob(F)						0.0001	0.0001	0.0001	



# University of Georgia

MON 63479 (WARRANT ULTRA) IN SOYBEANS

Trial ID: SB-12-15 Study Dir.: MARK BRAXTON (2015-01-24\_02-25-2015)  
Location: ATTAPULGUS Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.  
IAQTA = MORNINGGLORY, SMALLFLOWER / JACQUEMONTIA TAMNIFOLIA (L.) GRISEB.  
MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.  
DEDTO = BEGGARWEED, FLORIDA / DESMODIUM TORTUOSUM (SWEET) DC.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)  
LEAF = LEAF / FOLIAGE

PRM Data Type

TY1 =  $4.84 * [19] * (100 - [20]) / 87$

# University of Georgia

MON 63479 (WARRANT ULTRA) IN SOYBEANS

Trial ID: SB-12-15      Study Dir.: MARK BRAXTON (2015-01-24\_02-25-2015)  
 Location: ATTAPULGUS      Investigator: Eric P. Prostko

Weed Code						-----	AMAPA	ANNUAL	IAQTA	MOLVE	
Crop Code						GLYMA	-----	GRASS	-----	-----	
Part Rated						PLANT					
Rating Data Type						STUNTING	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date						May-27-15	May-27-15	May-27-15	May-27-15	May-27-15	
PRM Data Type											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code Plot	1	2	3	4	5
1	WARRANT	3 CS	48.0 oz/a	PRE	A	101	10.0	99.0	95.0	0.0	99.0
						207	10.0	99.0	85.0	0.0	99.0
						303	10.0	99.0	0.0	0.0	99.0
						405	10.0*	99.0	95.0	0.0	99.0
						Mean =	10.0	99.0	68.8	0.0	99.0
2	REFLEX	2 EC	16.0 oz/a	PRE	A	102	0.0	99.0	95.0	85.0	99.0
						203	10.0	99.0	95.0	75.0	99.0
						315	10.0	99.0	99.0	99.0	99.0
						408	6.7*	99.0	85.0	99.0	99.0
						Mean =	6.7	99.0	93.5	89.5	99.0
3	MON 63479	3.49 CS	50 oz/a	PRE	A	103	10.0	99.0	95.0	99.0	99.0
						205	10.0	99.0	99.0	99.0	99.0
						306	10.0	99.0	85.0	99.0	99.0
						402	10.0	99.0	99.0	99.0	99.0
						Mean =	10.0	99.0	94.5	99.0	99.0
4	MON 63479	3.49 CS	60 oz/a	PRE	A	104	10.0	99.0	95.0	95.0	99.0
						201	10.0	99.0	99.0	99.0	99.0
						313	10.0	99.0	99.0	99.0	99.0
						411	20.0	99.0	99.0	99.0	99.0
						Mean =	12.5	99.0	98.0	98.0	99.0
5	PREFIX	5.29 EC	32 oz/a	PRE	A	105	10.0	99.0	99.0	95.0	99.0
						206	10.0	99.0	99.0	99.0	99.0
						305	10.0	99.0	99.0	99.0	99.0
						413	20.0	99.0	99.0	99.0	99.0
						Mean =	12.5	99.0	99.0	98.0	99.0
6	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 CS 3 CS 4.5 SL	50 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	106	0.0	99.0	99.0	99.0	99.0
						216	10.0	99.0	99.0	95.0	99.0
						312	10.0	99.0	99.0	99.0	99.0
						415	6.7*	99.0	99.0	99.0	99.0
						Mean =	6.7	99.0	99.0	98.0	99.0
7	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 CS 3 CS 4.5 SL	60 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	107	10.0	99.0	99.0	99.0	99.0
						202	10.0	99.0	99.0	99.0	99.0
						304	10.0	99.0	99.0	99.0	99.0
						410	20.0	99.0	99.0	99.0	99.0
						Mean =	12.5	99.0	99.0	99.0	99.0
8	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL	48 oz/a 50 oz/a 32 oz/a	PRE POST1 POST1	A B B	108	10.0	99.0	65.0	0.0	99.0
						214	10.0	99.0	50.0	0.0	99.0
						307	10.0	99.0	0.0	0.0	99.0
						401	10.0	99.0	75.0	0.0	99.0
						Mean =	10.0	99.0	47.5	0.0	99.0
9	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL	48 oz/a 60 oz/a 32 oz/a	PRE POST1 POST1	A B B	109	10.0	99.0	95.0	0.0	99.0
						208	10.0	99.0	75.0	0.0	99.0
						309	0.0	99.0	85.0	0.0	99.0
						412	10.0	99.0	90.0	0.0	99.0
						Mean =	7.5	99.0	86.3	0.0	99.0
10	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL	48 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	110	10.0	99.0	65.0	0.0	99.0
						215	10.0	99.0	50.0	0.0	99.0
						302	0.0	99.0	40.0	0.0	99.0
						414	20.0	99.0	75.0	0.0	99.0
						Mean =	10.0	99.0	57.5	0.0	99.0
11	WARRANT PREFIX ROUNDUP POWERMAX	3 CS 5.29 EC 4.5 SL	48 oz/a 32 oz/a 32 oz/a	PRE POST1 POST1	A B B	111	10.0	99.0	50.0	0.0	99.0
						210	10.0	99.0	75.0	0.0	99.0
						316	10.0*	99.0	65.0	0.0	99.0
						404	10.0*	99.0	85.0	0.0	99.0
						Mean =	10.0	99.0	68.8	0.0	99.0

# University of Georgia

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- GLYMA PLANT - STUNTING PERCENT May-27-15	AMAPA ----- CONTROL PERCENT May-27-15	ANNUAL GRASS CONTROL PERCENT May-27-15	IAQTA ----- CONTROL PERCENT May-27-15	MOLVE ----- CONTROL PERCENT May-27-15
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code Plot	1	2	3	4	5
12 WARRANT	3	CS	48 oz/a	PRE	A	112	20.0	99.0	75.0	0.0	99.0
PREFIX	5.29	EC	32 oz/a	POST2	C	213	10.0	99.0	50.0	0.0	99.0
ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	311	10.0	99.0	90.0	0.0	99.0
						403	10.0	99.0	65.0	0.0	99.0
						Mean =	12.5	99.0	70.0	0.0	99.0
13 VALOR SX	51	WG	2 oz/a	PRE	A	113	10.0	99.0	99.0	99.0	99.0
MON 63479	3.49	CS	50 oz/a	POST2	C	211	10.0	99.0	95.0	99.0	99.0
ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	308	10.0	99.0	85.0	99.0	99.0
						409	10.0	99.0	90.0	99.0	99.0
						Mean =	10.0	99.0	92.3	99.0	99.0
14 AUTHORITY MTZ	45	DF	11 oz/a	PRE	A	114	10.0	99.0	99.0	99.0	99.0
MON 63479	3.49	CS	50 oz/a	POST2	C	209	10.0	99.0	40.0	99.0	99.0
ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	314	20.0	99.0	65.0	99.0	99.0
						416	20.0	99.0	65.0	99.0	99.0
						Mean =	15.0	99.0	67.3	99.0	99.0
15 FIERCE	76	WG	3.75 oz/a	PRE	A	115	10.0	99.0	99.0	99.0	99.0
MON 63479	3.49	CS	50 oz/a	POST2	C	212	15.0	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	310	10.0	99.0	99.0	99.0	99.0
						406	10.0	99.0	99.0	99.0	99.0
						Mean =	11.3	99.0	99.0	99.0	99.0
16 NTC						116	0.0	0.0	0.0	0.0	0.0
						204	0.0	0.0	0.0	0.0	0.0
						301	0.0	0.0	0.0	0.0	0.0
						407	0.0	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0	0.0

# University of Georgia

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						----- GLYMA PLANT - STUNTING PERCENT Jun-5-15	----- GLYMA LEAF - BURN PERCENT Jun-5-15	AMAPA ----- CONTROL PERCENT Jun-5-15	ANNUAL GRASS CONTROL PERCENT Jun-5-15	IAQTA ----- CONTROL PERCENT Jun-5-15			
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	6	7	8	9	10
1	WARRANT	3	CS	48.0	oz/a	PRE	A	101	0.0	0.0	99.0	65.0	0.0
								207	0.0	0.0	99.0	60.0	0.0
								303	0.0	0.0	99.0	0.0	0.0
								405	0.0	0.0	99.0	50.0	0.0
								Mean =	0.0	0.0	99.0	43.8	0.0
2	REFLEX	2	EC	16.0	oz/a	PRE	A	102	0.0	0.0	99.0	65.0	99.0
								203	50.0	0.0	99.0	85.0	99.0
								315	0.0	0.0	99.0	65.0	99.0
								408	16.7*	0.0	99.0	50.0	99.0
								Mean =	16.7	0.0	99.0	66.3	99.0
3	MON 63479	3.49	CS	50	oz/a	PRE	A	103	0.0	0.0	99.0	99.0	99.0
								205	0.0	0.0	99.0	90.0	99.0
								306	5.0	0.0	99.0	99.0	95.0
								402	1.7*	0.0	99.0	99.0	99.0
								Mean =	1.7	0.0	99.0	96.8	98.0
4	MON 63479	3.49	CS	60	oz/a	PRE	A	104	5.0	0.0	99.0	99.0	99.0
								201	0.0	0.0	99.0	95.0	99.0
								313	10.0	0.0	99.0	99.0	99.0
								411	0.0	0.0	99.0	99.0	99.0
								Mean =	3.8	0.0	99.0	98.0	99.0
5	PREFIX	5.29	EC	32	oz/a	PRE	A	105	5.0	0.0	99.0	99.0	99.0
								206	0.0	0.0	99.0	95.0	99.0
								305	0.0	0.0	99.0	95.0	95.0
								413	0.0	0.0	99.0	99.0	99.0
								Mean =	1.3	0.0	99.0	97.0	98.0
6	MON 63479	3.49	CS	50	oz/a	PRE	A	106	5.0	0.0	99.0	99.0	99.0
	WARRANT	3	CS	48	oz/a	POST2	C	216	0.0	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	312	0.0	0.0	99.0	99.0	99.0
								415	1.7*	0.0	99.0	95.0	99.0
								Mean =	1.7	0.0	99.0	98.0	99.0
7	MON 63479	3.49	CS	60	oz/a	PRE	A	107	0.0	0.0	99.0	85.0	95.0
	WARRANT	3	CS	48	oz/a	POST2	C	202	0.0	0.0	99.0	95.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	304	0.0	0.0	99.0	99.0	99.0
								410	10.0	0.0	99.0	99.0	99.0
								Mean =	2.5	0.0	99.0	94.5	98.0
8	WARRANT	3	CS	48	oz/a	PRE	A	108	5.0	10.0	99.0	99.0	99.0
	MON 63479	3.49	CS	50	oz/a	POST1	B	214	15.0	20.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B	307	15.0	15.0	99.0	99.0	99.0
								401	15.0	15.0	99.0	99.0	99.0
								Mean =	12.5	15.0	99.0	99.0	99.0
9	WARRANT	3	CS	48	oz/a	PRE	A	109	10.0	15.0	99.0	99.0	99.0
	MON 63479	3.49	CS	60	oz/a	POST1	B	208	15.0	15.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B	309	10.0	15.0	99.0	99.0	99.0
								412	10.0	20.0	99.0	99.0	99.0
								Mean =	11.3	16.3	99.0	99.0	99.0
10	WARRANT	3	CS	48	oz/a	PRE	A	110	0.0	0.0	99.0	0.0	0.0
	MON 63479	3.49	CS	50	oz/a	POST2	C	215	0.0	0.0	99.0	0.0	0.0
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C	302	0.0	0.0	99.0	0.0	0.0
								414	0.0	0.0	99.0	65.0	0.0
								Mean =	0.0	0.0	99.0	16.3	0.0
11	WARRANT	3	CS	48	oz/a	PRE	A	111	10.0	15.0	99.0	99.0	99.0
	PREFIX	5.29	EC	32	oz/a	POST1	B	210	15.0	20.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B	316	12.5*	15.0	99.0	99.0	99.0
								404	12.5*	20.0	99.0	99.0	99.0
								Mean =	12.5	17.5	99.0	99.0	99.0

# University of Georgia

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- GLYMA PLANT - STUNTING PERCENT Jun-5-15	----- GLYMA LEAF - BURN PERCENT Jun-5-15	AMAPA ----- CONTROL PERCENT Jun-5-15	ANNUAL GRASS CONTROL PERCENT Jun-5-15	IAQTA ----- CONTROL PERCENT Jun-5-15		
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	6	7	8	9	10
12	WARRANT	3	CS	48 oz/a	PRE	A	112		0.0	0.0	99.0	65.0	0.0
	PREFIX	5.29	EC	32 oz/a	POST2	C	213		0.0	0.0	99.0	0.0	0.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	311		0.0	0.0	99.0	65.0	0.0
							403		0.0	0.0	99.0	65.0	0.0
							Mean =		0.0	0.0	99.0	48.8	0.0
13	VALOR SX	51	WG	2 oz/a	PRE	A	113		0.0	0.0	99.0	85.0	99.0
	MON 63479	3.49	CS	50 oz/a	POST2	C	211		0.0	0.0	99.0	85.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	308		0.0	0.0	99.0	65.0	99.0
							409		0.0	0.0	99.0	95.0	99.0
							Mean =		0.0	0.0	99.0	82.5	99.0
14	AUTHORITY MTZ	45	DF	11 oz/a	PRE	A	114		5.0	0.0	99.0	75.0	99.0
	MON 63479	3.49	CS	50 oz/a	POST2	C	209		5.0	0.0	99.0	0.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	314		10.0	0.0	99.0	30.0	99.0
							416		6.7*	0.0	99.0	30.0	99.0
							Mean =		6.7	0.0	99.0	33.8	99.0
15	FIERCE	76	WG	3.75 oz/a	PRE	A	115		0.0	0.0	99.0	99.0	99.0
	MON 63479	3.49	CS	50 oz/a	POST2	C	212		10.0	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	310		10.0	0.0	99.0	99.0	99.0
							406		0.0	0.0	99.0	99.0	99.0
							Mean =		5.0	0.0	99.0	99.0	99.0
16	NTC						116		0.0	0.0	0.0	0.0	0.0
							204		0.0	0.0	0.0	0.0	0.0
							301		0.0	0.0	0.0	0.0	0.0
							407		0.0	0.0	0.0	0.0	0.0
							Mean =		0.0	0.0	0.0	0.0	0.0

# University of Georgia

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						MOLVE ----- CONTROL PERCENT Jun-5-15	AMAPA ----- CONTROL PERCENT Jun-15-15	ANNUAL GRASS CONTROL PERCENT Jun-15-15	AMAPA ----- CONTROL PERCENT Jul-1-15	ANNUAL GRASS CONTROL PERCENT Jul-1-15	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit Stg	Appl Code Plot	11	12	13	14	15
1	WARRANT	3 CS	48.0 oz/a	PRE	A	101	99.0	99.0	65.0	99.0	50.0
						207	99.0	99.0	50.0	99.0	30.0
						303	99.0	99.0	0.0	99.0	0.0
						405	99.0	99.0	55.0	99.0	0.0
						Mean =	99.0	99.0	42.5	99.0	20.0
2	REFLEX	2 EC	16.0 oz/a	PRE	A	102	99.0	99.0	65.0	99.0	65.0
						203	99.0	99.0	85.0	99.0	85.0
						315	99.0	99.0	70.0	99.0	50.0
						408	99.0	99.0	99.0	99.0	30.0
						Mean =	99.0	99.0	79.8	99.0	57.5
3	MON 63479	3.49 CS	50 oz/a	PRE	A	103	99.0	99.0	95.0	99.0	90.0
						205	99.0	99.0	90.0	99.0	85.0
						306	99.0	99.0	99.0	99.0	99.0
						402	99.0	99.0	99.0	99.0	85.0
						Mean =	99.0	99.0	95.8	99.0	89.8
4	MON 63479	3.49 CS	60 oz/a	PRE	A	104	99.0	99.0	99.0	99.0	95.0
						201	99.0	99.0	99.0	99.0	95.0
						313	99.0	99.0	99.0	99.0	99.0
						411	99.0	99.0	95.0	99.0	85.0
						Mean =	99.0	99.0	98.0	99.0	93.5
5	PREFIX	5.29 EC	32 oz/a	PRE	A	105	99.0	99.0	99.0	99.0	95.0
						206	99.0	99.0	95.0	99.0	95.0
						305	99.0	99.0	99.0	99.0	99.0
						413	99.0	99.0	99.0	99.0	85.0
						Mean =	99.0	99.0	98.0	99.0	93.5
6	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 CS 3 CS 4.5 SL	50 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	106	99.0	99.0	99.0	99.0	99.0
						216	99.0	99.0	99.0	99.0	99.0
						312	99.0	99.0	99.0	99.0	99.0
						415	99.0	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	99.0	99.0	99.0
7	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 CS 3 CS 4.5 SL	60 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	107	99.0	99.0	95.0	99.0	99.0
						202	99.0	99.0	95.0	99.0	99.0
						304	99.0	99.0	99.0	99.0	99.0
						410	99.0	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	97.0	99.0	99.0
8	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL	48 oz/a 50 oz/a 32 oz/a	PRE POST1 POST1	A B B	108	99.0	99.0	99.0	99.0	95.0
						214	99.0	99.0	99.0	99.0	99.0
						307	99.0	99.0	99.0	99.0	99.0
						401	99.0	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	99.0	99.0	98.0
9	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL	48 oz/a 60 oz/a 32 oz/a	PRE POST1 POST1	A B B	109	99.0	99.0	99.0	99.0	99.0
						208	99.0	99.0	99.0	99.0	99.0
						309	99.0	99.0	99.0	99.0	99.0
						412	99.0	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	99.0	99.0	99.0
10	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL	48 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	110	99.0	99.0	30.0	99.0	99.0
						215	99.0	99.0	20.0	99.0	99.0
						302	99.0	99.0	0.0	99.0	99.0
						414	99.0	99.0	55.0	99.0	99.0
						Mean =	99.0	99.0	26.3	99.0	99.0
11	WARRANT PREFIX ROUNDUP POWERMAX	3 CS 5.29 EC 4.5 SL	48 oz/a 32 oz/a 32 oz/a	PRE POST1 POST1	A B B	111	99.0	99.0	95.0	99.0	99.0
						210	99.0	99.0	99.0	99.0	99.0
						316	99.0	99.0	99.0	99.0	99.0
						404	99.0	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	98.0	99.0	99.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							MOLVE ----- CONTROL PERCENT Jun-5-15	AMAPA ----- CONTROL PERCENT Jun-15-15	ANNUAL GRASS CONTROL PERCENT Jun-15-15	AMAPA ----- CONTROL PERCENT Jul-1-15	ANNUAL GRASS CONTROL PERCENT Jul-1-15		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	Plot	11	12	13	14	15
12	WARRANT	3	CS	48 oz/a	PRE	A	112		99.0	99.0	55.0	99.0	99.0
	PREFIX	5.29	EC	32 oz/a	POST2	C	213		99.0	99.0	30.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	311		99.0	99.0	65.0	99.0	99.0
							403		99.0	99.0	55.0	99.0	99.0
							Mean =		99.0	99.0	51.3	99.0	99.0
13	VALOR SX	51	WG	2 oz/a	PRE	A	113		99.0	99.0	70.0	99.0	99.0
	MON 63479	3.49	CS	50 oz/a	POST2	C	211		99.0	99.0	80.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	308		99.0	99.0	65.0	99.0	99.0
							409		99.0	99.0	85.0	99.0	99.0
							Mean =		99.0	99.0	75.0	99.0	99.0
14	AUTHORITY MTZ	45	DF	11 oz/a	PRE	A	114		99.0	99.0	60.0	99.0	99.0
	MON 63479	3.49	CS	50 oz/a	POST2	C	209		99.0	99.0	35.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	314		99.0	99.0	50.0	99.0	99.0
							416		99.0	99.0	60.0	99.0	99.0
							Mean =		99.0	99.0	51.3	99.0	99.0
15	FIERCE	76	WG	3.75 oz/a	PRE	A	115		99.0	99.0	99.0	99.0	99.0
	MON 63479	3.49	CS	50 oz/a	POST2	C	212		99.0	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	310		99.0	99.0	99.0	99.0	99.0
							406		99.0	99.0	99.0	99.0	99.0
							Mean =		99.0	99.0	99.0	99.0	99.0
16	NTC						116		0.0	0.0	0.0	0.0	0.0
							204		0.0	0.0	0.0	0.0	0.0
							301		0.0	0.0	0.0	0.0	0.0
							407		0.0	0.0	0.0	0.0	0.0
							Mean =		0.0	0.0	0.0	0.0	0.0

# University of Georgia

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						DEDTO ----- CONTROL PERCENT Jul-1-15	AMAPA ----- CONTROL PERCENT Aug-31-15	DEDTO ----- CONTROL PERCENT Aug-31-15	----- GLYMA PLOT - YIELD LBS Nov-17-15	----- GLYMA PLOT - MOSITURE PERCENT Nov-17-15			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Plot	16	17	18	19	20
1	WARRANT	3 CS		48.0 oz/a	PRE	A	101		0.0	99.0	0.0	0.00	0.00
							207		50.0	99.0	85.0	0.00	0.00
							303		0.0	99.0	0.0	0.00	0.00
							405		50.0	99.0	0.0	2.69	18.76
							Mean =		25.0	99.0	21.3	0.67	4.69
2	REFLEX	2 EC		16.0 oz/a	PRE	A	102		99.0	99.0	0.0	0.00	0.00
							203		0.0	99.0	0.0	8.22	18.67
							315		0.0	99.0	0.0	0.00	0.00
							408		0.0	99.0	0.0	0.00	0.00
							Mean =		24.8	99.0	0.0	2.06	4.67
3	MON 63479	3.49 CS		50 oz/a	PRE	A	103		99.0	99.0	99.0	9.98	21.89
							205		99.0	99.0	50.0	0.00	0.00
							306		50.0	99.0	50.0	0.00	0.00
							402		50.0	99.0	0.0	0.00	0.00
							Mean =		74.5	99.0	49.8	2.50	5.47
4	MON 63479	3.49 CS		60 oz/a	PRE	A	104		85.0	99.0	99.0	10.53	18.60
							201		99.0	99.0	99.0	12.09	18.89
							313		99.0	99.0	99.0	14.03	17.76
							411		50.0	99.0	50.0	9.78	17.87
							Mean =		83.3	99.0	86.8	11.61	18.28
5	PREFIX	5.29 EC		32 oz/a	PRE	A	105		99.0	99.0	99.0	9.22	19.49
							206		85.0	99.0	85.0	9.77	17.59
							305		50.0	99.0	0.0	12.27	18.04
							413		50.0	99.0	50.0	11.54	18.74
							Mean =		71.0	99.0	58.5	10.70	18.47
6	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 CS 3 CS 4.5 SL		50 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	106 216 312		99.0 99.0 99.0	99.0 95.0 99.0	99.0 99.0 99.0	12.35 9.86 15.24	17.66 17.87 18.09
							415		99.0	99.0	99.0	11.86	16.70
							Mean =		99.0	98.0	99.0	12.33	17.58
7	MON 63479 WARRANT ROUNDUP POWERMAX	3.49 CS 3 CS 4.5 SL		60 oz/a 48 oz/a 32 oz/a	PRE POST2 POST2	A C C	107 202 304		99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	12.55 13.35 14.42	17.59 18.70 18.38
							410		99.0	99.0	99.0	11.63	18.81
							Mean =		99.0	99.0	99.0	12.99	18.37
8	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL		48 oz/a 50 oz/a 32 oz/a	PRE POST1 POST1	A B B	108 214 307		99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	9.74 11.15 12.35	17.64 17.60 17.50
							401		99.0	99.0	99.0	12.17	18.63
							Mean =		99.0	99.0	99.0	11.35	17.84
9	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL		48 oz/a 60 oz/a 32 oz/a	PRE POST1 POST1	A B B	109 208 309		99.0 99.0 99.0	95.0 99.0 99.0	99.0 99.0 99.0	10.88 9.52 10.24	18.56 17.75 18.70
							412		99.0	99.0	99.0	11.14	18.66
							Mean =		99.0	98.0	99.0	10.45	18.42
10	WARRANT MON 63479 ROUNDUP POWERMAX	3 CS 3.49 CS 4.5 SL		48 oz/a 50 oz/a 32 oz/a	PRE POST2 POST2	A C C	110 215 302		99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	13.59 12.16 9.90	18.20 17.57 18.75
							414		99.0	99.0	99.0	11.26	17.71
							Mean =		99.0	99.0	99.0	11.73	18.06
11	WARRANT PREFIX ROUNDUP POWERMAX	3 CS 5.29 EC 4.5 SL		48 oz/a 32 oz/a 32 oz/a	PRE POST1 POST1	A B B	111 210 316		99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 0.0	15.61 14.45 5.92	17.91 18.57 17.84
							404		99.0	99.0	99.0	11.15	18.20
							Mean =		99.0	99.0	74.3	11.78	18.13



# University of Georgia

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							DEDTO ----- CONTROL PERCENT Jul-1-15	AMAPA ----- CONTROL PERCENT Aug-31-15	DEDTO ----- CONTROL PERCENT Aug-31-15	----- GLYMA PLOT - YIELD LBS Nov-17-15 - 2	----- GLYMA PLOT - MOSITURE PERCENT Nov-17-15 - 2		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Plot	16	17	18	19	20
12	WARRANT	3	CS	48 oz/a	PRE	A	112		99.0	99.0	99.0	14.35	18.25
	PREFIX	5.29	EC	32 oz/a	POST2	C	213		99.0	99.0	99.0	12.72	17.58
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	311		99.0	99.0	99.0	15.18	17.76
							403		99.0	99.0	99.0	13.14	18.01
							Mean =		99.0	99.0	99.0	13.85	17.90
13	VALOR SX	51	WG	2 oz/a	PRE	A	113		99.0	99.0	99.0	13.79	17.72
	MON 63479	3.49	CS	50 oz/a	POST2	C	211		99.0	99.0	99.0	14.47	17.71
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	308		99.0	99.0	99.0	11.51	18.28
							409		99.0	99.0	99.0	8.54	18.16
							Mean =		99.0	99.0	99.0	12.08	17.97
14	AUTHORITY MTZ	45	DF	11 oz/a	PRE	A	114		99.0	99.0	99.0	12.88	17.98
	MON 63479	3.49	CS	50 oz/a	POST2	C	209		99.0	99.0	99.0	9.82	17.97
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	314		99.0	99.0	99.0	12.12	17.59
							416		99.0	99.0	99.0	6.92	17.93
							Mean =		99.0	99.0	99.0	10.44	17.87
15	FIERCE	76	WG	3.75 oz/a	PRE	A	115		99.0	99.0	99.0	11.94	17.48
	MON 63479	3.49	CS	50 oz/a	POST2	C	212		99.0	99.0	99.0	13.26	17.91
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	310		99.0	99.0	99.0	13.72	18.61
							406		99.0	99.0	99.0	9.95	17.83
							Mean =		99.0	99.0	99.0	12.22	17.96
16	NTC						116		0.0	0.0	0.0	0.00	0.00
							204		0.0	0.0	0.0	0.00	0.00
							301		0.0	0.0	0.0	0.00	0.00
							407		0.0	0.0	0.0	0.00	0.00
							Mean =		0.0	0.0	0.0	0.00	0.00

## University of Georgia

Weed Code							-----	
Crop Code							GLYMA	
Part Rated							PLOT -	
Rating Data Type							YIELD	
Rating Unit							BU/A	
Rating Date							Nov-17-15	
PRM Data Type							TY1	
# Subsamples, Dec.							- 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code Plot	
								21
1	WARRANT	3	CS	48.0	oz/a	PRE	A 101	0
							207	0
							303	0
							405	12
							Mean =	3
2	REFLEX	2	EC	16.0	oz/a	PRE	A 102	0
							203	37
							315	0
							408	0
							Mean =	9
3	MON 63479	3.49	CS	50	oz/a	PRE	A 103	43
							205	0
							306	0
							402	0
							Mean =	11
4	MON 63479	3.49	CS	60	oz/a	PRE	A 104	48
							201	55
							313	64
							411	45
							Mean =	53
5	PREFIX	5.29	EC	32	oz/a	PRE	A 105	41
							206	45
							305	56
							413	52
							Mean =	49
6	MON 63479	3.49	CS	50	oz/a	PRE	A 106	57
	WARRANT	3	CS	48	oz/a	POST2	C 216	45
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C 312	69
							415	55
							Mean =	57
7	MON 63479	3.49	CS	60	oz/a	PRE	A 107	58
	WARRANT	3	CS	48	oz/a	POST2	C 202	60
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C 304	65
							410	53
							Mean =	59
8	WARRANT	3	CS	48	oz/a	PRE	A 108	45
	MON 63479	3.49	CS	50	oz/a	POST1	B 214	51
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B 307	57
							401	55
							Mean =	52
9	WARRANT	3	CS	48	oz/a	PRE	A 109	49
	MON 63479	3.49	CS	60	oz/a	POST1	B 208	44
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B 309	46
							412	50
							Mean =	47
10	WARRANT	3	CS	48	oz/a	PRE	A 110	62
	MON 63479	3.49	CS	50	oz/a	POST2	C 215	56
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST2	C 302	45
							414	52
							Mean =	53
11	WARRANT	3	CS	48	oz/a	PRE	A 111	71
	PREFIX	5.29	EC	32	oz/a	POST1	B 210	65
	ROUNDUP POWERMAX	4.5	SL	32	oz/a	POST1	B 316	27
							404	51
							Mean =	54

# University of Georgia

Weed Code							----		
Crop Code							GLYMA		
Part Rated							PLOT -		
Rating Data Type							YIELD		
Rating Unit							BU/A		
Rating Date							Nov-17-15		
PRM Data Type							TY1		
# Subsamples, Dec.							- 0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	Plot	
								21	
12	WARRANT	3	CS	48 oz/a	PRE	A	112		65
	PREFIX	5.29	EC	32 oz/a	POST2	C	213		58
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	311		69
							403		60
							Mean =		63
13	VALOR SX	51	WG	2 oz/a	PRE	A	113		63
	MON 63479	3.49	CS	50 oz/a	POST2	C	211		66
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	308		52
							409		39
							Mean =		55
14	AUTHORITY MTZ	45	DF	11 oz/a	PRE	A	114		59
	MON 63479	3.49	CS	50 oz/a	POST2	C	209		45
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	314		56
							416		32
							Mean =		48
15	FIERCE	76	WG	3.75 oz/a	PRE	A	115		55
	MON 63479	3.49	CS	50 oz/a	POST2	C	212		61
	ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST2	C	310		62
							406		45
							Mean =		56
16	NTC						116		0
							204		0
							301		0
							407		0
							Mean =		0

# University of Georgia

MON 63479 (WARRANT ULTRA) IN SOYBEANS

Trial ID: SB-12-15 Study Dir.: MARK BRAXTON (2015-01-24\_02-25-2015)  
Location: ATTAPULGUS Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.  
IAQTA = MORNINGGLORY, SMALLFLOWER / JACQUEMONTIA TAMNIFOLIA (L.) GRISEB.  
MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.  
DEDTO = BEGGARWEED, FLORIDA / DESMODIUM TORTUOSUM (SWEET) DC.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)  
LEAF = LEAF / FOLIAGE

PRM Data Type

TY1 =  $4.84 * [19] * (100 - [20]) / 87$