

# University of Georgia

WEED CONTROL IN GRAIN SORGHUM WITH HUSKIE  
 Trial ID: SG-02-17      Study Dir.: KEITH RUCKER  
 Location: PONDER FARM      Investigator: Eric P. Prosko

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC							101	204	314	405
2	HUSKIE	2.06	EC	13.0 oz/a	POST	B	10.16 ml/mx	102	203	305	412
	AATREX	4	L	16.0 oz/a	POST	B	12.5 ml/mx				
	AMS XTRA	3.2	SL	2.5 % v/v	POST	B	37.5 ml/mx				
	NIS			0.25 % v/v	POST	B	3.75 ml/mx				
3	HUSKIE	2.06	EC	16.0 oz/a	POST	B	12.5 ml/mx	103	202	313	402
	AATREX	4	L	16.0 oz/a	POST	B	12.5 ml/mx				
	AMS XTRA	3.2	SL	2.5 % v/v	POST	B	37.5 ml/mx				
	NIS			0.25 % v/v	POST	B	3.75 ml/mx				
4	HUSKIE	2.06	EC	13.0 oz/a	POST	B	10.16 ml/mx	104	212	304	401
	AATREX	4	L	16.0 oz/a	POST	B	12.5 ml/mx				
	2,4-D ESTER	4	EC	4.0 oz/a	POST	B	3.125 ml/mx				
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B	37.5 ml/mx				
	NIS			0.25 % v/v	POST	B	3.75 ml/mx				
5	HUSKIE	2.06	EC	13.0 oz/a	POST	B	10.16 ml/mx	105	210	312	414
	AATREX	4	L	16.0 oz/a	POST	B	12.5 ml/mx				
	CLARITY	4	SL	4.0 oz/a	POST	B	3.125 ml/mx				
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B	37.5 ml/mx				
	NIS			0.25 % v/v	POST	B	3.75 ml/mx				
6	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A	12.5 ml/mx	106	205	308	407
	HUSKIE	2.06	EC	13.0 oz/a	POST2	C	10.16 ml/mx				
	AATREX	4	L	16.0 oz/a	POST2	C	12.5 ml/mx				
	AMS XTRA	3.4	SL	2.5 % v/v	POST2	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST2	C	3.75 ml/mx				
7	NTC							107	211	309	410
8	WARRANT	3	CS	48.0 oz/a	PRE	A	37.5 ml/mx	108	201	303	406
	AATREX	4	L	48.0 oz/a	POST2	C	37.5 ml/mx				
	COC			1.0 % v/v	POST2	C	15.0 ml/mx				
9	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A	12.5 ml/mx	109	206	301	403
	AATREX	4	L	48.0 oz/a	POST2	C	37.5 ml/mx				
	COC			1.0 % v/v	POST2	C	15.0 ml/mx				
10	HUSKIE	2.06	EC	13.0 oz/a	POST	B	10.16 ml/mx	110	209	310	408
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B	37.5 ml/mx				
	NIS			0.25 % v/v	POST	B	3.75 ml/mx				
11	HUSKIE	2.06	EC	16.0 oz/a	POST	B	12.5 ml/mx	111	208	306	411
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B	37.5 ml/mx				
	NIS			0.25 % v/v	POST	B	3.75 ml/mx				
12	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A	12.5 ml/mx	112	214	307	409
	HUSKIE	2.06	EC	13.0 oz/a	POST2	C	10.16 ml/mx				
	AMS XTRA	3.4	SL	2.5 % v/v	POST2	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST2	C	3.75 ml/mx				
13	WARRANT	3	ME	48.0 oz/a	PRE	A	37.5 ml/mx	113	207	302	413
	HUSKIE	2.06	EC	13.0 oz/a	POST2	C	10.16 ml/mx				
	AATREX	4	L	16.0 oz/a	POST2	C	12.5 ml/mx				
	AMS XTRA	3.4	SL	2.5 % v/v	POST2	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST2	C	3.75 ml/mx				
14	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A	12.5 ml/mx	114	213	311	404
	AATREX	4	L	48.0 oz/a	POST2	C	37.5 ml/mx				
	PROWL H20	3.8	SC	32.0 oz/a	POST2	C	25.0 ml/mx				
	COC			1.0 % v/v	POST2	C	15.0 ml/mx				

Sort Order: Treatment

# University of Georgia

WEED CONTROL IN GRAIN SORGHUM WITH HUSKIE

Trial ID: SG-02-17      Study Dir.: KEITH RUCKER  
Location: PONDER FARM      Investigator: Eric P. Prostko

## Trial Comments

HUSKIE = PYRASULFOTOLE (0.31 LBS) + BROMOXYNIL (1.75 LBS) + MEFENPYR (SAFENER)  
COC = RELIABLE  
NIS = ADEPT

YIELD DATA WAS NOT COLLECTED DUE TO SEVERE BIRD DAMAGE.

ANNUAL GRASS: A NON-UNIFORM MIXTURE OF TEXAS PANICUM, GOOSEGRASS, CROWFOOTGRASS, AND CRABGRASS.

### **SUMMARY:**

- 1) PRE APPLICATIONS OF WARRANT AND DUAL DID NOT CAUSE ANY CROP INJURY AND PROVIDED EXCELLENT EARLY SEASON CONTROL OF PALMER AMARANTH.
- 2) POST APPLICATIONS OF HUSKIE CAUSED SIGNIFICANT SORGHUM STUNTING AND LEAF CHLOROSIS (WHITENING). LEAF CHLOROSIS WAS REDUCED WHEN HUSKIE WAS TANK-MIXED WITH ATRAZINE. CHLOROSIS USUALLY SUBSIDES IN APPROXIMATELY 14-21 DAT.
- 3) ON JUNE 8 (59 DAP), PALMER AMARANTH CONTROL EXCEEDED 96% WITH ALL TREATMENTS.

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WEED CONTROL IN GRAIN SORGHUM WITH HUSKIE

Trial ID: SG-02-17      Study Dir.: KEITH RUCKER  
 Location: PONDER FARM      Investigator: Eric P. Prostko

### GENERAL TRIAL INFORMATION

**Study Director:** KEITH RUCKER      **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.** AGRASS      TEXAS PANICUM/CRABGRASS

**Weed 3.** \_\_\_\_\_      **4.** \_\_\_\_\_

**Crop 1:** SORBI SORGHUM      **Variety:** DKS 37-07      **Planting Date:** Apr-10-17  
**Planting Method:** MONOSEM      **Rate:** 87210 SEED/A      **Depth:** 1.5 IN  
**Perennial Age:** \_\_\_\_\_      **Row Spacing:** 30 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:** CONCEP TREATED; PONCHO/VOTIVO SEED TRT;

**Previous: Crops**      **Pesticides**      **Year**  
 1. COTTON      2016      \_\_\_\_\_

### MAINTENANCE

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

### SOIL DESCRIPTION

**Texture:** SAND      **% OM:** 0.78      **% Sand:** 94      **% Silt:** 4      **% Clay:** 2  
**pH:** 6.4      **CEC:** 4.1      **Soil Name:** TIFTON      **Fertility Level:** GOOD

### MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-11-17		0.5	IN			
2. Apr-13-17		0.5	IN			
3. Apr-21-17		0.5	IN			
4. Apr-23-17		0.17	IN			
5. Apr-25-17		0.5	IN			
6. Apr-28-17		0.5	IN			
7. May-1-17		0.1	IN			
8. May-2-17		0.75	IN			
9. May-2-17		0.01	IN			
10. May-4-17		1.47	IN			
11. May-9-17		0.75	IN			
12. May-12-17		0.75	IN			

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

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APPLICATION DESCRIPTION						
	A	B	C	D	E	F
Application Date:	Apr-11-17	Apr-25-17	May-8-17	_____	_____	_____
Time of Day:	7:30 AM	8:00 AM	7:15 AM	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	BROADCAST	_____	_____	_____
Application Timing:	PRE	POST	POST2	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE	_____	_____	_____
Air Temp., Unit:	55 f	60 F	51 F	_____	_____	_____
% Relative Humidity:	93	96	93	_____	_____	_____
Wind Velocity, Unit:	0 MPH	4 MPH	0 MPH	_____	_____	_____
Dew Presence (Y/N):	Y	Y	Y	_____	_____	_____
Water Hardness:	---	---	---	_____	_____	_____
Soil Temp., Unit:	65 f	64 F	60 F	_____	_____	_____
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM	_____	_____	_____
% Cloud Cover:	20	0	0	_____	_____	_____

CROP STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Crop 1 Stage: SORBI	_____	_____	_____	_____	_____	_____
Stage Scale:	_____	V5	V6	_____	_____	_____
Height, Unit:	_____	5 IN	8 IN	_____	_____	_____

WEED STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Weed 1 Stage: AMAPA	_____	1-2"	2"	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 2 Stage: AGRASS	_____	1-2"	2-4"	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT						
	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	_____	_____	_____
Operating Pressure:	35	35	35	_____	_____	_____
Nozzle Type:	AIXR	AIXR	AIXR	_____	_____	_____
Nozzle Size:	11002	11002	11002	_____	_____	_____
Nozzle Spacing, Unit:	18	IN 18	IN 20	_____	_____	_____
Nozzles/Row:	2	2	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	72	IN 72	IN 60	_____	_____	_____
Boom Height, Unit:	20	IN 20	IN 20	_____	_____	_____
Ground Speed, Unit:	3.5	MPH 3.5	MPH 3.5	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____
Carrier:	WATER	WATER	WATER	_____	_____	_____
Spray Volume, Unit:	15	GPA 15	GPA 15	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____
Propellant:	CO2	CO2	CO2	_____	_____	_____
Tank Mix (Y/N):	---	---	---	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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WEED CONTROL IN GRAIN SORGHUM WITH HUSKIE														
Trial ID: SG-02-17		Study Dir.: KEITH RUCKER												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- SORBI	AMAPA -----	----- SORBI	----- SORBI	AMAPA -----	A.GRASS -----	----- SORBI		
						STUNT	CONTROL	STUNT	LEAF	CONTROL	CONTROL	STUNT		
						PERCENT Apr-24-17	PERCENT Apr-24-17	PERCENT May-1-17	CHLORO May-1-17	PERCENT May-1-17	PERCENT May-1-17	PERCENT May-16-17		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	1	2	3	4	5	6	7
1	NTC							0.0 a	0.0 c	0.0 d	0.0 d	0.0 b	0.0 d	0.0 g
2	HUSKIE	2.06	EC	13.0 oz/a	POST	B		0.0 a	0.0 c	43.8 a	13.8 bc	100.0 a	97.5 ab	17.5 b
	AATREX	4	L	16.0 oz/a	POST	B								
	AMS XTRA	3.2	SL	2.5 % v/v	POST	B								
	NIS			0.25 % v/v	POST	B								
3	HUSKIE	2.06	EC	16.0 oz/a	POST	B		0.0 a	0.0 c	43.8 a	17.5 b	100.0 a	95.0 ab	17.5 b
	AATREX	4	L	16.0 oz/a	POST	B								
	AMS XTRA	3.2	SL	2.5 % v/v	POST	B								
	NIS			0.25 % v/v	POST	B								
4	HUSKIE	2.06	EC	13.0 oz/a	POST	B		0.0 a	0.0 c	43.8 a	11.3 c	100.0 a	90.0 abc	23.8 a
	AATREX	4	L	16.0 oz/a	POST	B								
	2,4-D ESTER	4	EC	4.0 oz/a	POST	B								
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B								
	NIS			0.25 % v/v	POST	B								
5	HUSKIE	2.06	EC	13.0 oz/a	POST	B		0.0 a	0.0 c	36.3 b	15.0 bc	100.0 a	91.3 abc	16.3 bc
	AATREX	4	L	16.0 oz/a	POST	B								
	CLARITY	4	SL	4.0 oz/a	POST	B								
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B								
	NIS			0.25 % v/v	POST	B								
6	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A		0.0 a	100.0 a	7.5 c	0.0 d	98.8 a	88.8 abc	6.3 def
	HUSKIE	2.06	EC	13.0 oz/a	POST2	C								
	AATREX	4	L	16.0 oz/a	POST2	C								
	AMS XTRA	3.4	SL	2.5 % v/v	POST2	C								
	NIS			0.25 % v/v	POST2	C								
7	NTC							0.0 a	0.0 c	0.0 d	0.0 d	0.0 b	0.0 d	0.0 g
8	WARRANT	3	CS	48.0 oz/a	PRE	A		0.0 a	98.8 b	6.3 c	0.0 d	96.3 a	92.5 abc	3.8 fg
	AATREX	4	L	48.0 oz/a	POST2	C								
	COC			1.0 % v/v	POST2	C								
9	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A		0.0 a	100.0 a	11.3 c	0.0 d	100.0 a	93.8 ab	7.5 def
	AATREX	4	L	48.0 oz/a	POST2	C								
	COC			1.0 % v/v	POST2	C								
10	HUSKIE	2.06	EC	13.0 oz/a	POST	B		0.0 a	0.0 c	38.8 ab	37.5 a	100.0 a	91.3 abc	16.3 bc
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B								
	NIS			0.25 % v/v	POST	B								
11	HUSKIE	2.06	EC	16.0 oz/a	POST	B		0.0 a	0.0 c	38.8 ab	36.3 a	97.5 a	80.0 c	11.3 cd
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B								
	NIS			0.25 % v/v	POST	B								
12	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A		0.0 a	100.0 a	6.3 c	0.0 d	97.5 a	97.5 ab	10.0 de
	HUSKIE	2.06	EC	13.0 oz/a	POST2	C								
	AMS XTRA	3.4	SL	2.5 % v/v	POST2	C								
	NIS			0.25 % v/v	POST2	C								
13	WARRANT	3	ME	48.0 oz/a	PRE	A		0.0 a	98.8 b	7.5 c	0.0 d	95.0 a	86.3 bc	5.0 efg
	HUSKIE	2.06	EC	13.0 oz/a	POST2	C								
	AATREX	4	L	16.0 oz/a	POST2	C								
	AMS XTRA	3.4	SL	2.5 % v/v	POST2	C								
	NIS			0.25 % v/v	POST2	C								

Means followed by same letter or symbol 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.  
 Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.

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Weed Code							-----	AMAPA	-----	-----	AMAPA	A. GRASS	-----	
Crop Code							SORBI	-----	SORBI	SORBI	-----	-----	-----	SORBI
Part Rated							STUNT	CONTROL	STUNT	LEAF	CONTROL	CONTROL	CONTROL	STUNT
Rating Data Type							STUNT	CONTROL	STUNT	LEAF	CONTROL	CONTROL	CONTROL	STUNT
Rating Unit							PERCENT	PERCENT	PERCENT	CHLORO	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							Apr-24-17	Apr-24-17	May-1-17	May-1-17	May-1-17	May-1-17	May-1-17	May-16-17
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg Code	1	2	3	4	5	6	7	
14	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A	0.0 a	99.8 ab	7.5 c	0.0 d	93.8 a	100.0 a	0.0 g	
	AATREX	4	L	48.0 oz/a	POST2	C								
	PROWL H20	3.8	SC	32.0 oz/a	POST2	C								
	COC			1.0 % v/v	POST2	C								
LSD P=.10							.	1.08	5.55	3.87	5.25	11.14	4.75	
Standard Deviation							0.00	0.90	4.66	3.25	4.41	9.35	3.99	
CV							0.0	2.12	22.39	34.67	5.24	11.86	41.34	
Grand Mean							0.00	42.66	20.80	9.38	84.20	78.84	9.64	
Bartlett's X2							0.0	6.057	10.802	8.938	8.177	13.827	3.996	
P(Bartlett's X2)							.	0.048*	0.46	0.063	0.147	0.181	0.912	
Replicate F							0.000	2.653	0.734	1.394	0.819	1.367	10.865	
Replicate Prob(F)							1.0000	0.0620	0.5380	0.2589	0.4914	0.2672	0.0001	
Treatment F							0.000	12833.379	62.041	68.051	262.561	52.193	14.793	
Treatment Prob(F)							1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	

Means followed by same letter or symbol 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.  
 Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							----- SORBI LEAF CHLORO May-16-17	AMAPA ----- CONTROL PERCENT May-16-17	A.GRASS ----- CONTROL PERCENT May-16-17	----- SORBI HEAD - EMERGENC PERCENT Jun-8-17	AMAPA ----- CONTROL PERCENT Jun-8-17	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Stg	Appl Code	8	9	10	11	12
1	NTC							0.0 b	0.0 c	0.0 d	25.0 bc	0.0 d
2	HUSKIE AATREX AMS XTRA NIS	2.06 4 3.2	EC L SL	13.0 16.0 2.5 0.25	oz/a oz/a % v/v % v/v	POST POST POST POST	B B B B	0.0 b	100.0 a	83.8 ab	13.8 bcd	100.0 a
3	HUSKIE AATREX AMS XTRA NIS	2.06 4 3.2	EC L SL	16.0 16.0 2.5 0.25	oz/a oz/a % v/v % v/v	POST POST POST POST	B B B B	0.0 b	100.0 a	86.3 ab	10.0 bcd	100.0 a
4	HUSKIE AATREX 2,4-D ESTER AMS XTRA NIS	2.06 4 4 3.4	EC L EC SL	13.0 16.0 4.0 2.5 0.25	oz/a oz/a oz/a % v/v % v/v	POST POST POST POST POST	B B B B B	0.0 b	100.0 a	62.5 bc	5.0 cd	100.0 a
5	HUSKIE AATREX CLARITY AMS XTRA NIS	2.06 4 4 3.4	EC L SL SL	13.0 16.0 4.0 2.5 0.25	oz/a oz/a oz/a % v/v % v/v	POST POST POST POST POST	B B B B B	0.0 b	100.0 a	75.0 abc	2.5 cd	100.0 a
6	DUAL MAGNUM HUSKIE AATREX AMS XTRA NIS	7.62 2.06	EC EC	16.0 13.0	oz/a oz/a	PRE POST2	A C	22.5 a	98.8 ab	78.8 ab	96.3 a	100.0 a
7	NTC							0.0 b	0.0 c	0.0 d	0.0 d	0.0 d
8	WARRANT AATREX COC	3 4	CS L	48.0 48.0 1.0	oz/a oz/a % v/v	PRE POST2 POST2	A C C	0.0 b	100.0 a	82.5 ab	97.5 a	100.0 a
9	DUAL MAGNUM AATREX COC	7.62 4	EC L	16.0 48.0 1.0	oz/a oz/a % v/v	PRE POST2 POST2	A C C	3.8 b	100.0 a	96.3 a	81.3 a	100.0 a
10	HUSKIE AMS XTRA NIS	2.06 3.4	EC SL	13.0 2.5 0.25	oz/a % v/v % v/v	POST POST POST	B B B	0.0 b	96.3 b	81.3 ab	32.5 b	96.3 c
11	HUSKIE AMS XTRA NIS	2.06 3.4	EC SL	16.0 2.5 0.25	oz/a % v/v % v/v	POST POST POST	B B B	0.0 b	97.5 ab	48.8 c	22.5 bcd	100.0 a
12	DUAL MAGNUM HUSKIE AMS XTRA NIS	7.62 2.06 3.4	EC EC SL	16.0 13.0 2.5 0.25	oz/a oz/a % v/v % v/v	PRE POST2 POST2 POST2	A C C C	25.0 a	97.5 ab	92.5 ab	97.5 a	97.5 bc
13	WARRANT HUSKIE AATREX AMS XTRA NIS	3 2.06 4 3.4	ME EC L SL	48.0 13.0 16.0 2.5 0.25	oz/a oz/a oz/a % v/v % v/v	PRE POST2 POST2 POST2 POST2	A C C C C	20.0 a	98.8 ab	63.8 bc	82.5 a	100.0 a

Means followed by same letter or symbol 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.  
Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.

# University of Georgia

Weed Code							-----	AMAPA	A. GRASS	-----	AMAPA
Crop Code							SORBI	-----	-----	SORBI	-----
Part Rated							LEAF	CONTROL	CONTROL	HEAD -	CONTROL
Rating Data Type							CHLORO	PERCENT	PERCENT	EMERGENC	PERCENT
Rating Unit							May-16-17	May-16-17	May-16-17	Jun-8-17	Jun-8-17
Rating Date							8	9	10	11	12
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg Code	8	9	10	11	12
14	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	0.0 b	98.8 ab	98.8 a	100.0 a	98.8 ab
	AATREX	4 L		48.0 oz/a	POST2	C					
	PROWL H20	3.8 SC		32.0 oz/a	POST2	C					
	COC			1.0 % v/v	POST2	C					
LSD P=.10							5.70	2.66	26.85	20.98	1.94
Standard Deviation							4.78	2.23	22.53	17.61	1.63
CV							93.99	2.63	33.21	37.0	1.91
Grand Mean							5.09	84.82	67.86	47.59	85.18
Bartlett's X2							4.247	3.975	31.015	33.04	2.036
P(Bartlett's X2)							0.236	0.553	0.001*	0.001*	0.361
Replicate F							0.020	2.028	0.736	2.812	1.121
Replicate Prob(F)							0.9962	0.1259	0.5368	0.0519	0.3525
Treatment F							15.903	1036.101	7.963	22.317	1963.448
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol 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.  
 Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.



# University of Georgia

WEED CONTROL IN GRAIN SORGHUM WITH HUSKIE

Trial ID: SG-02-17      Study Dir.: KEITH RUCKER  
Location: PONDER FARM      Investigator: Eric P. Prostko

Weed Code

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

# University of Georgia

WEED CONTROL IN GRAIN SORGHUM WITH HUSKIE														
Trial ID: SG-02-17		Study Dir.: KEITH RUCKER												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- SORBI	AMAPA -----	----- SORBI	----- SORBI	AMAPA -----	A.GRASS -----			
						STUNT PERCENT Apr-24-17	CONTROL PERCENT Apr-24-17	STUNT PERCENT May-1-17	LEAF CHLORO May-1-17	CONTROL PERCENT May-1-17	CONTROL PERCENT May-1-17			
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
								204	0.0	0.0	0.0	0.0	0.0	0.0
								314	0.0	0.0	0.0	0.0	0.0	0.0
								405	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 HUSKIE	2.06	EC	13.0	oz/a	POST	B	102	0.0	0.0	45.0	10.0	100.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	203	0.0	0.0	40.0	15.0	100.0	100.0
	AMS XTRA	3.2	SL	2.5	% v/v	POST	B	305	0.0	0.0	50.0	15.0	100.0	90.0
	NIS			0.25	% v/v	POST	B	412	0.0	0.0	40.0	15.0	100.0	100.0
								Mean =	0.0	0.0	43.8	13.8	100.0	97.5
	3 HUSKIE	2.06	EC	16.0	oz/a	POST	B	103	0.0	0.0	45.0	20.0	100.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	202	0.0	0.0	40.0	20.0	100.0	85.0
	AMS XTRA	3.2	SL	2.5	% v/v	POST	B	313	0.0	0.0	50.0	15.0	100.0	100.0
	NIS			0.25	% v/v	POST	B	402	0.0	0.0	40.0	15.0	100.0	95.0
								Mean =	0.0	0.0	43.8	17.5	100.0	95.0
	4 HUSKIE	2.06	EC	13.0	oz/a	POST	B	104	0.0	0.0	50.0	10.0	100.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	212	0.0	0.0	50.0	10.0	100.0	65.0
	2,4-D ESTER	4	EC	4.0	oz/a	POST	B	304	0.0	0.0	40.0	15.0	100.0	100.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	401	0.0	0.0	35.0	10.0	100.0	95.0
	NIS			0.25	% v/v	POST	B							
								Mean =	0.0	0.0	43.8	11.3	100.0	90.0
	5 HUSKIE	2.06	EC	13.0	oz/a	POST	B	105	0.0	0.0	45.0	15.0	100.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	210	0.0	0.0	40.0	15.0	100.0	90.0
	CLARITY	4	SL	4.0	oz/a	POST	B	312	0.0	0.0	30.0	15.0	100.0	85.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	414	0.0	0.0	30.0	15.0	100.0	90.0
	NIS			0.25	% v/v	POST	B							
								Mean =	0.0	0.0	36.3	15.0	100.0	91.3
	6 DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE	A	106	0.0	100.0	10.0	0.0	100.0	100.0
	HUSKIE	2.06	EC	13.0	oz/a	POST2	C	205	0.0	100.0	5.0	0.0	95.0	100.0
	AATREX	4	L	16.0	oz/a	POST2	C	308	0.0	100.0	5.0	0.0	100.0	65.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST2	C	407	0.0	100.0	10.0	0.0	100.0	90.0
	NIS			0.25	% v/v	POST2	C							
								Mean =	0.0	100.0	7.5	0.0	98.8	88.8
	7 NTC							107	0.0	0.0	0.0	0.0	0.0	0.0
								211	0.0	0.0	0.0	0.0	0.0	0.0
								309	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
	8 WARRANT	3	CS	48.0	oz/a	PRE	A	108	0.0	95.0	15.0	0.0	95.0	95.0
	AATREX	4	L	48.0	oz/a	POST2	C	201	0.0	100.0	0.0	0.0	100.0	100.0
	COC			1.0	% v/v	POST2	C	303	0.0	100.0	5.0	0.0	100.0	100.0
								406	0.0	100.0	5.0	0.0	90.0	75.0
								Mean =	0.0	98.8	6.3	0.0	96.3	92.5
	9 DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE	A	109	0.0	100.0	5.0	0.0	100.0	100.0
	AATREX	4	L	48.0	oz/a	POST2	C	206	0.0	100.0	15.0	0.0	100.0	100.0
	COC			1.0	% v/v	POST2	C	301	0.0	100.0	15.0	0.0	100.0	75.0
								403	0.0	100.0	10.0	0.0	100.0	100.0
								Mean =	0.0	100.0	11.3	0.0	100.0	93.8
	10 HUSKIE	2.06	EC	13.0	oz/a	POST	B	110	0.0	0.0	40.0	50.0	100.0	95.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	209	0.0	0.0	40.0	40.0	100.0	85.0
	NIS			0.25	% v/v	POST	B	310	0.0	0.0	35.0	30.0	100.0	100.0
								408	0.0	0.0	40.0	30.0	100.0	85.0
								Mean =	0.0	0.0	38.8	37.5	100.0	91.3
	11 HUSKIE	2.06	EC	16.0	oz/a	POST	B	111	0.0	0.0	40.0	45.0	100.0	85.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	208	0.0	0.0	40.0	35.0	100.0	90.0
	NIS			0.25	% v/v	POST	B	306	0.0	0.0	40.0	30.0	100.0	60.0
								411	0.0	0.0	35.0	35.0	90.0	85.0
								Mean =	0.0	0.0	38.8	36.3	97.5	80.0

# University of Georgia

Weed Code							-----	AMAPA	-----	-----	AMAPA	A.GRASS
Crop Code							SORBI	-----	SORBI	SORBI	-----	-----
Part Rated							STUNT	CONTROL	STUNT	LEAF	CONTROL	CONTROL
Rating Data Type							PERCENT	PERCENT	PERCENT	CHLORO	PERCENT	PERCENT
Rating Unit							Apr-24-17	Apr-24-17	May-1-17	May-1-17	May-1-17	May-1-17
Rating Date												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	1	2	3	4	5	6
12	DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE A 112	0.0	100.0	10.0	0.0	100.0	95.0
	HUSKIE	2.06	EC	13.0	oz/a	POST2 C 214	0.0	100.0	5.0	0.0	100.0	95.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST2 C 307	0.0	100.0	5.0	0.0	100.0	100.0
	NIS			0.25	% v/v	POST2 C 409	0.0	100.0	5.0	0.0	90.0	100.0
						Mean =	0.0	100.0	6.3	0.0	97.5	97.5
13	WARRANT	3	ME	48.0	oz/a	PRE A 113	0.0	95.0	0.0	0.0	90.0	85.0
	HUSKIE	2.06	EC	13.0	oz/a	POST2 C 207	0.0	100.0	5.0	0.0	100.0	95.0
	AATREX	4	L	16.0	oz/a	POST2 C 302	0.0	100.0	10.0	0.0	100.0	80.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST2 C 413	0.0	100.0	15.0	0.0	90.0	85.0
	NIS			0.25	% v/v	POST2 C						
						Mean =	0.0	98.8	7.5	0.0	95.0	86.3
14	DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE A 114	0.0	99.0	5.0	0.0	100.0	100.0
	AATREX	4	L	48.0	oz/a	POST2 C 213	0.0	100.0	5.0	0.0	100.0	100.0
	PROWL H20	3.8	SC	32.0	oz/a	POST2 C 311	0.0	100.0	10.0	0.0	75.0	100.0
	COC			1.0	% v/v	POST2 C 404	0.0	100.0	10.0	0.0	100.0	100.0
						Mean =	0.0	99.8	7.5	0.0	93.8	100.0

# University of Georgia

Weed Code		-----		-----		AMAPA		A.GRASS		-----		AMAPA		
Crop Code		SORBI		SORBI		-----		-----		SORBI		-----		
Part Rated										HEAD -				
Rating Data Type						CONTROL		CONTROL		EMERGENC		CONTROL		
Rating Unit						PERCENT		PERCENT		PERCENT		PERCENT		
Rating Date						May-16-17		May-16-17		Jun-8-17		Jun-8-17		
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
								204	0.0	0.0	0.0	0.0	0.0	0.0
								314	0.0	0.0	0.0	0.0	0.0	0.0
								405	0.0	0.0	0.0	0.0	100.0	0.0
								Mean =	0.0	0.0	0.0	0.0	25.0	0.0
2	HUSKIE	2.06	EC	13.0	oz/a	POST	B	102	10.0	0.0	100.0	95.0	0.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	203	15.0	0.0	100.0	90.0	0.0	100.0
	AMS XTRA	3.2	SL	2.5	% v/v	POST	B	305	25.0	0.0	100.0	65.0	5.0	100.0
	NIS			0.25	% v/v	POST	B	412	20.0	0.0	100.0	85.0	50.0	100.0
								Mean =	17.5	0.0	100.0	83.8	13.8	100.0
3	HUSKIE	2.06	EC	16.0	oz/a	POST	B	103	10.0	0.0	100.0	100.0	0.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	202	20.0	0.0	100.0	65.0	0.0	100.0
	AMS XTRA	3.2	SL	2.5	% v/v	POST	B	313	25.0	0.0	100.0	90.0	10.0	100.0
	NIS			0.25	% v/v	POST	B	402	15.0	0.0	100.0	90.0	30.0	100.0
								Mean =	17.5	0.0	100.0	86.3	10.0	100.0
4	HUSKIE	2.06	EC	13.0	oz/a	POST	B	104	15.0	0.0	100.0	100.0	0.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	212	25.0	0.0	100.0	0.0	0.0	100.0
	2,4-D ESTER	4	EC	4.0	oz/a	POST	B	304	30.0	0.0	100.0	65.0	10.0	100.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	401	25.0	0.0	100.0	85.0	10.0	100.0
	NIS			0.25	% v/v	POST	B							
								Mean =	23.8	0.0	100.0	62.5	5.0	100.0
5	HUSKIE	2.06	EC	13.0	oz/a	POST	B	105	10.0	0.0	100.0	95.0	0.0	100.0
	AATREX	4	L	16.0	oz/a	POST	B	210	20.0	0.0	100.0	65.0	0.0	100.0
	CLARITY	4	SL	4.0	oz/a	POST	B	312	15.0	0.0	100.0	75.0	10.0	100.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	414	20.0	0.0	100.0	65.0	0.0	100.0
	NIS			0.25	% v/v	POST	B							
								Mean =	16.3	0.0	100.0	75.0	2.5	100.0
6	DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE	A	106	0.0	20.0	100.0	100.0	100.0	100.0
	HUSKIE	2.06	EC	13.0	oz/a	POST2	C	205	0.0	30.0	95.0	100.0	100.0	100.0
	AATREX	4	L	16.0	oz/a	POST2	C	308	10.0	15.0	100.0	50.0	100.0	100.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST2	C	407	15.0	25.0	100.0	65.0	85.0	100.0
	NIS			0.25	% v/v	POST2	C							
								Mean =	6.3	22.5	98.8	78.8	96.3	100.0
7	NTC							107	0.0	0.0	0.0	0.0	0.0	0.0
								211	0.0	0.0	0.0	0.0	0.0	0.0
								309	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
8	WARRANT	3	CS	48.0	oz/a	PRE	A	108	0.0	0.0	100.0	90.0	100.0	100.0
	AATREX	4	L	48.0	oz/a	POST2	C	201	0.0	0.0	100.0	90.0	100.0	100.0
	COC			1.0	% v/v	POST2	C	303	15.0	0.0	100.0	100.0	90.0	100.0
								406	0.0	0.0	100.0	50.0	100.0	100.0
								Mean =	3.8	0.0	100.0	82.5	97.5	100.0
9	DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE	A	109	0.0	0.0	100.0	100.0	75.0	100.0
	AATREX	4	L	48.0	oz/a	POST2	C	206	10.0	15.0	100.0	100.0	60.0	100.0
	COC			1.0	% v/v	POST2	C	301	10.0	0.0	100.0	85.0	100.0	100.0
								403	10.0	0.0	100.0	100.0	90.0	100.0
								Mean =	7.5	3.8	100.0	96.3	81.3	100.0
10	HUSKIE	2.06	EC	13.0	oz/a	POST	B	110	10.0	0.0	95.0	90.0	10.0	95.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	209	10.0	0.0	100.0	65.0	40.0	100.0
	NIS			0.25	% v/v	POST	B	310	25.0	0.0	95.0	85.0	50.0	95.0
								408	20.0	0.0	95.0	85.0	30.0	95.0
								Mean =	16.3	0.0	96.3	81.3	32.5	96.3
11	HUSKIE	2.06	EC	16.0	oz/a	POST	B	111	10.0	0.0	100.0	65.0	0.0	100.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	208	10.0	0.0	100.0	65.0	20.0	100.0
	NIS			0.25	% v/v	POST	B	306	15.0	0.0	100.0	0.0	40.0	100.0
								411	10.0	0.0	90.0	65.0	30.0	100.0
								Mean =	11.3	0.0	97.5	48.8	22.5	100.0

# University of Georgia

Weed Code							-----	-----	AMAPA	A.GRASS	-----	AMAPA
Crop Code							SORBI	SORBI	-----	-----	SORBI	-----
Part Rated											HEAD -	
Rating Data Type							STUNT	LEAF	CONTROL	CONTROL	EMERGENC	CONTROL
Rating Unit							PERCENT	CHLORO	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							May-16-17	May-16-17	May-16-17	May-16-17	Jun-8-17	Jun-8-17
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	7	8	9	10	11	12
12	DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE A 112	10.0	25.0	100.0	100.0	100.0	100.0
	HUSKIE	2.06	EC	13.0	oz/a	POST2 C 214	10.0	25.0	100.0	85.0	100.0	100.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST2 C 307	10.0	30.0	100.0	90.0	90.0	100.0
	NIS			0.25	% v/v	POST2 C 409	10.0	20.0	90.0	95.0	100.0	90.0
						Mean =	10.0	25.0	97.5	92.5	97.5	97.5
13	WARRANT	3	ME	48.0	oz/a	PRE A 113	0.0	30.0	100.0	0.0	100.0	100.0
	HUSKIE	2.06	EC	13.0	oz/a	POST2 C 207	0.0	0.0	100.0	100.0	50.0	100.0
	AATREX	4	L	16.0	oz/a	POST2 C 302	10.0	25.0	100.0	65.0	100.0	100.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST2 C 413	10.0	25.0	95.0	90.0	80.0	100.0
	NIS			0.25	% v/v	POST2 C						
						Mean =	5.0	20.0	98.8	63.8	82.5	100.0
14	DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE A 114	0.0	0.0	100.0	100.0	100.0	100.0
	AATREX	4	L	48.0	oz/a	POST2 C 213	0.0	0.0	100.0	100.0	100.0	100.0
	PROWL H20	3.8	SC	32.0	oz/a	POST2 C 311	0.0	0.0	95.0	95.0	100.0	95.0
	COC			1.0	% v/v	POST2 C 404	0.0	0.0	100.0	100.0	100.0	100.0
						Mean =	0.0	0.0	98.8	98.8	100.0	98.8

# University of Georgia

WEED CONTROL IN GRAIN SORGHUM WITH HUSKIE

Trial ID: SG-02-17      Study Dir.: KEITH RUCKER  
Location: PONDER FARM      Investigator: Eric P. Prostko

Weed Code

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