

University of Georgia

COMPARING TOUGH TO OTHER WEED CONTROL SYSTEMS IN PEANUT

Trial ID: PE-19-16 Study Dir.: LIESBETH BOSMAN
 Location: PONDER FARM Investigator: Eric P. Prostko

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	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	NTC							101	211	310	408
2	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	102	205	309	410
	VALOR SX	51	WG	3.0 oz/a	PRE	A	2.247 g/mx				
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx				
	TOUGH	5	EC	9.0 oz/a	POST	C	7.03 ml/mx				
	2,4-DB	1.75	SL	18.0 oz/a	POST	C	14.06 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C	12.5 ml/mx				
3	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	103	206	304	402
	TOUGH	5	EC	9.0 oz/a	EPOST	B	7.03 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	EPOST	B	14.06 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B	12.5 ml/mx				
	TOUGH	5	EC	9.0 oz/a	POST	C	7.03 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	POST	C	14.06 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C	12.5 ml/mx				
4	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	104	201	305	403
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B	9.374 ml/mx				
	STORM	4	SL	16.0 oz/a	EPOST	B	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B	12.5 ml/mx				
	TOUGH	5	EC	9.0 oz/a	POST	C	7.03 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	POST	C	14.06 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C	12.5 ml/mx				
5	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	105	209	303	409
	VALOR SX	51	WG	3.0 oz/a	PRE	A	2.247 g/mx				
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx				
	TOUGH	5	EC	9.0 oz/a	POST	C	7.03 ml/mx				
	2,4-DB	1.75	SL	18.0 oz/a	POST	C	14.06 ml/mx				
	WARRANT	3	ME	48.0 oz/a	POST	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST	C	3.75 ml/mx				
6	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	106	202	311	401
	TOUGH	5	EC	9.0 oz/a	EPOST	B	7.03 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	EPOST	B	14.06 ml/mx				
	WARRANT	3	ME	48.0 oz/a	EPOST	B	37.5 ml/mx				
	NIS			0.25 % v/v	EPOST	B	3.75 ml/mx				
	TOUGH	5	EC	9.0 oz/a	POST	C	7.03 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	POST	C	14.06 ml/mx				
	WARRANT	3	ME	48.0 oz/a	POST	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST	C	3.75 ml/mx				
7	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	107	210	306	411
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B	9.374 ml/mx				
	STORM	4	SL	16.0 oz/a	EPOST	B	12.5 ml/mx				
	WARRANT	3	ME	48.0 oz/a	EPOST	B	37.5 ml/mx				
	NIS			0.25 % v/v	EPOST	B	3.75 ml/mx				
	TOUGH	5	EC	9.0 oz/a	POST	C	7.03 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	POST	C	14.06 ml/mx				
	WARRANT	3	ME	48.0 oz/a	POST	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST	C	3.75 ml/mx				
8	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	108	207	302	405
	VALOR SX	51	WG	3.0 oz/a	PRE	A	2.247 g/mx				
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx				
	CADRE	2	AS	4.0 oz/a	POST	C	3.125 ml/mx				
	2,4-DB	1.75	SL	18.0 oz/a	POST	C	14.06 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C	12.5 ml/mx				

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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	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
9	PROWL H2O	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	109	203	307	406
	VALOR SX	51	WG	3.0 oz/a	PRE	A	2.247 g/mx				
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx				
	CADRE	2	AS	4.0 oz/a	POST	C	3.125 ml/mx				
	2,4-DB	1.75	SL	18.0 oz/a	POST	C	14.06 ml/mx				
	WARRANT	3	ME	48.0 oz/a	POST	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST	C	3.75 ml/mx				
10	PROWL H2O	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	110	204	308	404
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B	9.374 ml/mx				
	STORM	4	SL	16.0 oz/a	EPOST	B	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B	12.5 ml/mx				
	CADRE	2	AS	4.0 oz/a	POST	C	3.125 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	POST	C	14.06 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C	12.5 ml/mx				
11	PROWL H2O	3.8	SC	32.0 oz/a	PRE	A	25.0 ml/mx	111	208	301	407
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B	9.374 ml/mx				
	STORM	4	SL	16.0 oz/a	EPOST	B	12.5 ml/mx				
	WARRANT	3	ME	48.0 oz/a	EPOST	B	37.5 ml/mx				
	NIS			0.25 % v/v	EPOST	B	3.75 ml/mx				
	CADRE	2	AS	4.0 oz/a	POST	C	3.125 ml/mx				
	2,4-DB	1.75	EC	18.0 oz/a	POST	C	14.06 ml/mx				
	WARRANT	3	ME	48.0 oz/a	POST	C	37.5 ml/mx				
	NIS			0.25 % v/v	POST	C	3.75 ml/mx				

Sort Order: Treatment

Trial Comments

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

DIGGING DATE: SEPTEMBER 8

HARVEST DATE: SEPTEMBER 12

HARVEST MOISTURE: 10.7%

YIELDS ADJUSTED TO 10%

3% DEDUCTED FOR FM.

SUMMARY:

1) VALOR (PRE) CAUSED SLIGHT PEANUT STUNTING EARLY IN THE SEASON.

2) GRAMOXONE + STORM + DUAL MAGNUM (EPOST) CAUSED TYPICAL PEANUT LEAF BURN.

3) EPOST APPLICATIONS OF TOUGH WERE LESS INJURIOUS TO PEANUT THAN THE GRAMOXONE TREATMENTS.

4) GENERALLY, ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH. HOWEVER, THIS WAS MOST LIKELY DUE TO THE CONTROL PROVIDED BY THE RESIDUAL HERBICIDES AND NOT THE POST HERBICIDES.

5) ANNUAL GRASS CONTROL WITH ALL TREATMENTS ON AUGUST 10 (107 DAP) RANGED BETWEEN 84 TO 95%.

6) ALL HERBICIDE TREATMENTS RESULTED IN GREATER YIELDS THAN THE NTC. GENERALLY, THERE WERE NO DIFFERENCES IN PEANUT YIELD BETWEEN ANY HERBICIDE TREATMENTS EXCEPT FOR THE FOLLOWING:

PROWL FB TOUGH + 2,4-DB + DUAL MAGNUM FB TOUGH + 2,4-DB + DUAL MAGNUM > PROWL FB GRAMOXONE + STORM + WARRANT FB TOUGH + 2,4-DB + WARRANT (4409 LBS/A VS. 3183 LBS/A).

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COMPARING TOUGH TO OTHER WEED CONTROL SYSTEMS IN PEANUT

Trial ID: PE-19-16 Study Dir.: LIESBETH BOSMAN
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: LIESBETH BOSMAN **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 CRAB/CROW/GOOSE/PANICUM

Crop 1: ARAHY PEANUT **Variety:** GA-06G **Planting Date:** Apr-25-16
Planting Method: MONOSEM TWIN ROW **Rate:** 3.1 SEED/FT **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4

Site Type: _____ **Study Design:** RACOB
Tillage Type: CONVENTIONAL
Trial Initiation Comments: 36"-9" TWIN ROWS; DYNASTY PD SEED TRT; THIMET INFR;

Previous: Crops **Pesticides** **Year**
 1. SOYBEAN 2015

MAINTENANCE

Field Prep./Maintenance:

No.	Date	Treatment Name	Form	Form	Form	Rate	Rate	Unit
			Conc	Unit	Type	Rate		
1.								

SOIL DESCRIPTION

Texture: SAND **% OM:** _____ **% Sand:** 92 **% Silt:** 6 **% Clay:** 2
pH: 6.0 **CEC:** 2.9 **Soil Name:** FUQUAY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-26-16		0.5	IN	SPRINKLER - LATERAL MOVE		
2. May-10-16		0.5	IN	SPRINKLER - LATERAL MOVE		
3. May-12-16		0.5	IN	SPRINKLER - LATERAL MOVE		
4. May-16-16		0.5	IN	SPRINKLER - LATERAL MOVE		
5. May-17-16		1.54	IN	RAINFALL		
6. May-19-16		0.33	IN	RAINFALL		
7. May-25-16		0.75	IN	SPRINKLER - LATERAL MOVE		
8. May-27-16		0.75	IN	SPRINKLER - LATERAL MOVE		
9. May-31-16		0.75	IN	SPRINKLER - LATERAL MOVE		

Overall Moisture Conditions:

Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-26-16	May-18-16	Jun-9-16			
Time of Day:	8:45 AM	8:00 AM	7:30 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	PRE	EPOST	POST			
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE			
Air Temp., Unit:	76 F	68 F	66 F			
% Relative Humidity:	53	95	86			
Wind Velocity, Unit:	4 MPH	0 MPH	0 MPH			
Dew Presence (Y/N):	N	Y	Y			
Water Hardness:	--	--	--			
Soil Temp., Unit:	69 F	72 F	70 F			
Soil Moisture:	OPTIMUM	WET	WET			
% Cloud Cover:	0	95	20			

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CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ARAHY	_____	3-5" WIDE	TWINS LAP	_____	_____	_____
Stage Scale:	_____	V3-V4	R1	_____	_____	_____
Height, Unit:	_____	4 IN	7 IN	_____	_____	_____

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage: AMAPA	_____	3" TALL	NONE UP	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 2 Stage: AGRASS	_____	1-3" TALL	2-6" TALL	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	SAME AS B	_____	_____	_____
Operating Pressure:	28	37	_____	_____	_____	_____
Nozzle Type:	AIXR	AIXR	_____	_____	_____	_____
Nozzle Size:	11002	11002	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN 20 IN	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN 60 IN	_____	_____	_____	_____
Boom Height, Unit:	20	IN 20 IN	_____	_____	_____	_____
Ground Speed, Unit:	3.0	MPH 3.5 MPH	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____
Carrier:	WATER	WATER	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____
Propellant:	CO2	CO2	_____	_____	_____	_____
Tank Mix (Y/N):	-	-	-	-	-	-

Trt No	Treatment Application Comment
_____	_____

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COMPARING TOUGH TO OTHER WEED CONTROL SYSTEMS IN PEANUT										
Trial ID: PE-19-16		Study Dir.: LIESBETH BOSMAN								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code						-----	AMAPA	AMAPA	AGRASS	-----
Crop Code						-----	-----	-----	-----	-----
Part Rated						-----	-----	-----	-----	-----
Rating Data Type						-----	-----	-----	-----	-----
Rating Unit						-----	-----	-----	-----	-----
Rating Date						-----	-----	-----	-----	-----
PRM Data Type						-----	-----	-----	-----	-----
# Subsamples, Dec.						-----	-----	-----	-----	-----
Trt Treatment	Form Form	Rate	Grow	Appl						
No. Name	Conc Type	Unit	Stg	Code						
1 NTC						1	2	3	4	5
						0.0 b	0.0 b	0.0 c	0.0 c	0.0 c
2 PROWL H20	3.8 SC	32.0 oz/a	PRE	A		15.0 a	99.0 a	99.0 a	99.0 a	0.0 c
VALOR SX	51 WG	3.0 oz/a	PRE	A						
STRONGARM	84 WG	0.225 oz/a	PRE	A						
TOUGH	5 EC	9.0 oz/a	POST	C						
2,4-DB	1.75 SL	18.0 oz/a	POST	C						
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	C						
3 PROWL H20	3.8 SC	32.0 oz/a	PRE	A		7.5 a	98.0 a	98.0 ab	97.0 ab	0.0 c
TOUGH	5 EC	9.0 oz/a	EPOST	B						
2,4-DB	1.75 EC	18.0 oz/a	EPOST	B						
DUAL MAGNUM	7.62 EC	16.0 oz/a	EPOST	B						
TOUGH	5 EC	9.0 oz/a	POST	C						
2,4-DB	1.75 EC	18.0 oz/a	POST	C						
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	C						
4 PROWL H20	3.8 SC	32.0 oz/a	PRE	A		7.5 a	99.0 a	99.0 a	99.0 a	11.3 b
GRAMOXONE	2 SL	12.0 oz/a	EPOST	B						
STORM	4 SL	16.0 oz/a	EPOST	B						
DUAL MAGNUM	7.62 EC	16.0 oz/a	EPOST	B						
TOUGH	5 EC	9.0 oz/a	POST	C						
2,4-DB	1.75 EC	18.0 oz/a	POST	C						
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	C						
5 PROWL H20	3.8 SC	32.0 oz/a	PRE	A		15.0 a	99.0 a	99.0 a	98.0 ab	0.0 c
VALOR SX	51 WG	3.0 oz/a	PRE	A						
STRONGARM	84 WG	0.225 oz/a	PRE	A						
TOUGH	5 EC	9.0 oz/a	POST	C						
2,4-DB	1.75 SL	18.0 oz/a	POST	C						
WARRANT	3 ME	48.0 oz/a	POST	C						
NIS		0.25 % v/v	POST	C						
6 PROWL H20	3.8 SC	32.0 oz/a	PRE	A		7.5 a	99.0 a	97.7 b	99.0 a	0.0 c
TOUGH	5 EC	9.0 oz/a	EPOST	B						
2,4-DB	1.75 EC	18.0 oz/a	EPOST	B						
WARRANT	3 ME	48.0 oz/a	EPOST	B						
NIS		0.25 % v/v	EPOST	B						
TOUGH	5 EC	9.0 oz/a	POST	C						
2,4-DB	1.75 EC	18.0 oz/a	POST	C						
WARRANT	3 ME	48.0 oz/a	POST	C						
NIS		0.25 % v/v	POST	C						
7 PROWL H20	3.8 SC	32.0 oz/a	PRE	A		15.0 a	99.0 a	99.0 a	99.0 a	13.8 a
GRAMOXONE	2 SL	12.0 oz/a	EPOST	B						
STORM	4 SL	16.0 oz/a	EPOST	B						
WARRANT	3 ME	48.0 oz/a	EPOST	B						
NIS		0.25 % v/v	EPOST	B						
TOUGH	5 EC	9.0 oz/a	POST	C						
2,4-DB	1.75 EC	18.0 oz/a	POST	C						
WARRANT	3 ME	48.0 oz/a	POST	C						
NIS		0.25 % v/v	POST	C						
8 PROWL H20	3.8 SC	32.0 oz/a	PRE	A		11.3 a	99.0 a	99.0 a	95.8 b	0.0 c
VALOR SX	51 WG	3.0 oz/a	PRE	A						
STRONGARM	84 WG	0.225 oz/a	PRE	A						
CADRE	2 AS	4.0 oz/a	POST	C						
2,4-DB	1.75 SL	18.0 oz/a	POST	C						
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	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.

Missing data estimates are included in columns: Average=3,4,5

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ARAHY PLANT - STUNTING PERCENT May-4-16	AMAPA ----- CONTROL PERCENT May-4-16	AMAPA ----- CONTROL PERCENT May-26-16	AGRASS ----- CONTROL PERCENT May-26-16	----- ARAHY LEAF - BURN PERCENT May-26-16	AMAPA ----- CONTROL PERCENT Jul-7-16	AGRASS ----- CONTROL PERCENT Jul-7-16
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Unit	Stg	Code	1	2	3	4	5	6	7
9	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	12.5 a	99.0 a	99.0 a	96.8 ab	0.0 c	99.0 a	95.8 ab
	VALOR SX	51	WG	3.0 oz/a	PRE	A							
	STRONGARM	84	WG	0.225 oz/a	PRE	A							
	CADRE	2	AS	4.0 oz/a	POST	C							
	2,4-DB	1.75	SL	18.0 oz/a	POST	C							
	WARRANT	3	ME	48.0 oz/a	POST	C							
	NIS			0.25 % v/v	POST	C							
10	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	7.5 a	98.0 a	99.0 a	99.0 a	11.3 b	99.0 a	95.5 ab
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B							
	STORM	4	SL	16.0 oz/a	EPOST	B							
	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B							
	CADRE	2	AS	4.0 oz/a	POST	C							
	2,4-DB	1.75	EC	18.0 oz/a	POST	C							
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C							
11	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	10.0 a	98.0 a	99.0 a	99.0 a	15.0 a	99.0 a	95.8 ab
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B							
	STORM	4	SL	16.0 oz/a	EPOST	B							
	WARRANT	3	ME	48.0 oz/a	EPOST	B							
	NIS			0.25 % v/v	EPOST	B							
	CADRE	2	AS	4.0 oz/a	POST	C							
	2,4-DB	1.75	EC	18.0 oz/a	POST	C							
	WARRANT	3	ME	48.0 oz/a	POST	C							
	NIS			0.25 % v/v	POST	C							
LSD P=.10							6.58	1.24	0.96	2.29	1.65	1.04	5.43
Standard Deviation							5.48	1.03	0.80	1.91	1.37	0.87	4.53
CV							55.44	1.15	0.89	2.14	29.44	0.97	5.31
Grand Mean							9.89	89.73	89.79	89.23	4.66	89.82	85.25
Bartlett's X2							5.498	0.0	0.05	2.755	0.0	0.0	9.994
P(Bartlett's X2)							0.789	1.00	0.824	0.431	.	.	0.351
Replicate F							2.137	1.250	2.071	3.493	0.302	0.645	19.253
Replicate Prob(F)							0.1163	0.3092	0.1258	0.0281	0.8236	0.5921	0.0001
Treatment F							2.765	3321.819	5512.248	965.232	91.108	4724.130	157.133
Treatment Prob(F)							0.0151	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							AMAPA ----- CONTROL PERCENT Aug-10-16	AGRASS ----- CONTROL PERCENT Aug-10-16	----- ARAHY PLOT - YIELD LBS/PLOT Sep-12-16 T1 - 2	----- ARAHY PLOT - YIELD LBS/PLOT Sep-12-16 T1 - 2	----- ARAHY PLOT - YIELD LBS/A Sep-12-16 TY2 - 0	
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code	8	9	10	11	12
1	NTC							0.0 c	0.0 b	0.00 c	0.00 c	0 c
2	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	99.0 a	89.3 a	13.51 ab	13.11 ab	3777 ab
	VALOR SX	51	WG	3.0	oz/a	PRE	A					
	STRONGARM	84	WG	0.225	oz/a	PRE	A					
	TOUGH	5	EC	9.0	oz/a	POST	C					
	2,4-DB	1.75	SL	18.0	oz/a	POST	C					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	C					
3	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	96.8 b	83.5 a	15.78 a	15.30 a	4409 a
	TOUGH	5	EC	9.0	oz/a	EPOST	B					
	2,4-DB	1.75	EC	18.0	oz/a	EPOST	B					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	B					
	TOUGH	5	EC	9.0	oz/a	POST	C					
	2,4-DB	1.75	EC	18.0	oz/a	POST	C					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	C					
4	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	99.0 a	88.5 a	14.79 ab	14.34 ab	4133 ab
	GRAMOXONE	2	SL	12.0	oz/a	EPOST	B					
	STORM	4	SL	16.0	oz/a	EPOST	B					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	B					
	TOUGH	5	EC	9.0	oz/a	POST	C					
	2,4-DB	1.75	EC	18.0	oz/a	POST	C					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	C					
5	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	99.0 a	85.0 a	14.88 ab	14.43 ab	4158 ab
	VALOR SX	51	WG	3.0	oz/a	PRE	A					
	STRONGARM	84	WG	0.225	oz/a	PRE	A					
	TOUGH	5	EC	9.0	oz/a	POST	C					
	2,4-DB	1.75	SL	18.0	oz/a	POST	C					
	WARRANT	3	ME	48.0	oz/a	POST	C					
	NIS			0.25	% v/v	POST	C					
6	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	98.0 ab	85.0 a	15.09 ab	14.63 ab	4217 ab
	TOUGH	5	EC	9.0	oz/a	EPOST	B					
	2,4-DB	1.75	EC	18.0	oz/a	EPOST	B					
	WARRANT	3	ME	48.0	oz/a	EPOST	B					
	NIS			0.25	% v/v	EPOST	B					
	TOUGH	5	EC	9.0	oz/a	POST	C					
	2,4-DB	1.75	EC	18.0	oz/a	POST	C					
	WARRANT	3	ME	48.0	oz/a	POST	C					
	NIS			0.25	% v/v	POST	C					
7	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	99.0 a	88.5 a	11.39 b	11.05 b	3183 b
	GRAMOXONE	2	SL	12.0	oz/a	EPOST	B					
	STORM	4	SL	16.0	oz/a	EPOST	B					
	WARRANT	3	ME	48.0	oz/a	EPOST	B					
	NIS			0.25	% v/v	EPOST	B					
	TOUGH	5	EC	9.0	oz/a	POST	C					
	2,4-DB	1.75	EC	18.0	oz/a	POST	C					
	WARRANT	3	ME	48.0	oz/a	POST	C					
	NIS			0.25	% v/v	POST	C					
8	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	99.0 a	88.5 a	14.76 ab	14.32 ab	4126 ab
	VALOR SX	51	WG	3.0	oz/a	PRE	A					
	STRONGARM	84	WG	0.225	oz/a	PRE	A					
	CADRE	2	AS	4.0	oz/a	POST	C					
	2,4-DB	1.75	SL	18.0	oz/a	POST	C					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	C					

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Weed Code							AMAPA	AGRASS	-----	-----	-----
Crop Code							-----	-----	-----	-----	-----
Part Rated							CONTROL	CONTROL	ARAHY	ARAHY	ARAHY
Rating Data Type							PERCENT	PERCENT	PLOT -	PLOT -	PLOT -
Rating Unit							Aug-10-16	Aug-10-16	YIELD	YIELD	YIELD
Rating Date									LBS/PLOT	LBS/PLOT	LBS/A
PRM Data Type									Sep-12-16	Sep-12-16	Sep-12-16
# Subsamples, Dec.									- 2	T1 - 2	TY2 - 0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code	8	9	10	11	12
9	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	99.0 a	92.0 a	14.61 ab	14.17 ab	4084 ab
	VALOR SX	51	WG	3.0 oz/a	PRE	A					
	STRONGARM	84	WG	0.225 oz/a	PRE	A					
	CADRE	2	AS	4.0 oz/a	POST	C					
	2,4-DB	1.75	SL	18.0 oz/a	POST	C					
	WARRANT	3	ME	48.0 oz/a	POST	C					
	NIS			0.25 % v/v	POST	C					
10	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	99.0 a	90.5 a	13.45 ab	13.05 ab	3759 ab
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B					
	STORM	4	SL	16.0 oz/a	EPOST	B					
	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B					
	CADRE	2	AS	4.0 oz/a	POST	C					
	2,4-DB	1.75	EC	18.0 oz/a	POST	C					
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C					
11	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	99.0 a	94.5 a	12.10 ab	11.74 ab	3382 ab
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B					
	STORM	4	SL	16.0 oz/a	EPOST	B					
	WARRANT	3	ME	48.0 oz/a	EPOST	B					
	NIS			0.25 % v/v	EPOST	B					
	CADRE	2	AS	4.0 oz/a	POST	C					
	2,4-DB	1.75	EC	18.0 oz/a	POST	C					
	WARRANT	3	ME	48.0 oz/a	POST	C					
	NIS			0.25 % v/v	POST	C					
LSD P=.10							1.80	11.65	3.349	3.248	936.0
Standard Deviation							1.50	9.71	2.790	2.707	779.9
CV							1.68	12.06	21.87	21.87	21.87
Grand Mean							89.70	80.48	12.759	12.376	3566.1
Bartlett's X2							1.762	4.489	13.781	13.781	13.781
P(Bartlett's X2)							0.184	0.876	0.13	0.13	0.13
Replicate F							0.734	15.697	2.516	2.516	2.516
Replicate Prob(F)							0.5397	0.0001	0.0771	0.0771	0.0771
Treatment F							1568.171	30.683	10.106	10.106	10.106
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001

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COMPARING TOUGH TO OTHER WEED CONTROL SYSTEMS IN PEANUT			
Trial ID:	PE-19-16	Study Dir.:	LIESBETH BOSMAN
Location:	PONDER FARM	Investigator:	Eric P. Prostko
Weed Code AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. Part Rated PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) LEAF = LEAF / FOLIAGE PRM Data Type T1 = [10]*0.97 TY2 = 288.1413*[11]			

COMPARING TOUGH TO OTHER WEED CONTROL SYSTEMS IN PEANUT													
Trial ID:		PE-19-16		Study Dir.:		LIESBETH BOSMAN							
Location:		PONDER FARM		Investigator:		Eric P. Prostko							
Weed Code							-----	AMAPA	AMAPA	AGRASS	-----	AMAPA	
Crop Code							ARAHY	-----	-----	-----	ARAHY	-----	
Part Rated							PLANT -				LEAF -		
Rating Data Type							STUNTING	CONTROL	CONTROL	CONTROL	BURN	CONTROL	
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date							May-4-16	May-4-16	May-26-16	May-26-16	May-26-16	Jul-7-16	
PRM Data Type													
# Subsamples, Dec.													
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Stg	Code	Plot	1	2	3	4	5	6
1	NTC						101	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
							310	0.0	0.0	0.0	0.0	0.0	0.0
							408	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	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	102	10.0	99.0	99.0	99.0	0.0	99.0
	VALOR SX	51	WG	3.0 oz/a	PRE	A	205	10.0	99.0	99.0	99.0	0.0	99.0
	STRONGARM	84	WG	0.225 oz/a	PRE	A	309	20.0	99.0	99.0	99.0	0.0	99.0
	TOUGH	5	EC	9.0 oz/a	POST	C	410	20.0	99.0	99.0	99.0	0.0	99.0
	2,4-DB	1.75	SL	18.0 oz/a	POST	C							
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C							
							Mean =	15.0	99.0	99.0	99.0	0.0	99.0
3	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	103	10.0	99.0	95.0	95.0	0.0	95.0
	TOUGH	5	EC	9.0 oz/a	EPOST	B	206	10.0	99.0	99.0	99.0	0.0	99.0
	2,4-DB	1.75	EC	18.0 oz/a	EPOST	B	304	10.0	99.0	99.0	99.0	0.0	99.0
	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B	402	0.0	95.0	99.0	95.0	0.0	99.0
	TOUGH	5	EC	9.0 oz/a	POST	C							
	2,4-DB	1.75	EC	18.0 oz/a	POST	C							
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C							
							Mean =	7.5	98.0	98.0	97.0	0.0	98.0
4	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	104	10.0	99.0	99.0	99.0	10.0	99.0
	GRAMOXONE	2	SL	12.0 oz/a	EPOST	B	201	0.0	99.0	99.0	99.0	10.0	99.0
	STORM	4	SL	16.0 oz/a	EPOST	B	305	10.0	99.0	99.0	99.0	10.0	99.0
	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B	403	10.0	99.0	99.0	99.0	15.0	99.0
	TOUGH	5	EC	9.0 oz/a	POST	C							
	2,4-DB	1.75	EC	18.0 oz/a	POST	C							
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C							
							Mean =	7.5	99.0	99.0	99.0	11.3	99.0
5	PROWL H20	3.8	SC	32.0 oz/a	PRE	A	105	10.0	99.0	99.0	95.0	0.0	99.0
	VALOR SX	51	WG	3.0 oz/a	PRE	A	209	20.0	99.0	99.0	99.0	0.0	99.0
	STRONGARM	84	WG	0.225 oz/a	PRE	A	303	20.0	99.0	99.0	99.0	0.0	99.0
	TOUGH	5	EC	9.0 oz/a	POST	C	409	10.0	99.0	99.0	99.0	0.0	99.0
	2,4-DB	1.75	SL	18.0 oz/a	POST	C							
	WARRANT	3	ME	48.0 oz/a	POST	C							
	NIS			0.25 % v/v	POST	C							

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ARAHY PLANT - STUNTING PERCENT May-4-16	AMAPA ----- CONTROL PERCENT May-4-16	AMAPA ----- CONTROL PERCENT May-26-16	AGRASS ----- CONTROL PERCENT May-26-16	----- ARAHY LEAF - BURN PERCENT May-26-16	AMAPA ----- CONTROL PERCENT Jul-7-16
Trt Treatment	Form	Form	Rate	Grow	Appl							
No. Name	Conc	Type	Rate	Unit	Stg	Code Plot	1	2	3	4	5	6
8 PROWL H20	3.8	SC	32.0	oz/a	PRE	A 108	10.0	99.0	99.0	90.0	0.0	99.0
VALOR SX	51	WG	3.0	oz/a	PRE	A 207	15.0	99.0	99.0	99.0	0.0	99.0
STRONGARM	84	WG	0.225	oz/a	PRE	A 302	10.0	99.0	99.0	95.0	0.0	99.0
CADRE	2	AS	4.0	oz/a	POST	C 405	10.0	99.0	99.0	99.0	0.0	99.0
2,4-DB	1.75	SL	18.0	oz/a	POST	C						
DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	C						
Mean =							11.3	99.0	99.0	95.8	0.0	99.0
9 PROWL H20	3.8	SC	32.0	oz/a	PRE	A 109	20.0	99.0	99.0	90.0	0.0	99.0
VALOR SX	51	WG	3.0	oz/a	PRE	A 203	10.0	99.0	99.0	99.0	0.0	99.0
STRONGARM	84	WG	0.225	oz/a	PRE	A 307	20.0	99.0	99.0	99.0	0.0	99.0
CADRE	2	AS	4.0	oz/a	POST	C 406	0.0	99.0	99.0	99.0	0.0	99.0
2,4-DB	1.75	SL	18.0	oz/a	POST	C						
WARRANT	3	ME	48.0	oz/a	POST	C						
NIS			0.25	% v/v	POST	C						
Mean =							12.5	99.0	99.0	96.8	0.0	99.0
10 PROWL H20	3.8	SC	32.0	oz/a	PRE	A 110	10.0	99.0	99.0	99.0	10.0	99.0
GRAMOXONE	2	SL	12.0	oz/a	EPOST	B 204	10.0	99.0	99.0	99.0	10.0	99.0
STORM	4	SL	16.0	oz/a	EPOST	B 308	10.0	99.0	99.0	99.0	15.0	99.0
DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	B 404	0.0	95.0	99.0	99.0	10.0	99.0
CADRE	2	AS	4.0	oz/a	POST	C						
2,4-DB	1.75	EC	18.0	oz/a	POST	C						
DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	C						
Mean =							7.5	98.0	99.0	99.0	11.3	99.0
11 PROWL H20	3.8	SC	32.0	oz/a	PRE	A 111	20.0	99.0	99.0	99.0	15.0	99.0
GRAMOXONE	2	SL	12.0	oz/a	EPOST	B 208	10.0	99.0	99.0	99.0	15.0	99.0
STORM	4	SL	16.0	oz/a	EPOST	B 301	10.0	95.0	99.0	99.0	15.0	99.0
WARRANT	3	ME	48.0	oz/a	EPOST	B 407	0.0	99.0	99.0	99.0	15.0	99.0
NIS			0.25	% v/v	EPOST	B						
CADRE	2	AS	4.0	oz/a	POST	C						
2,4-DB	1.75	EC	18.0	oz/a	POST	C						
WARRANT	3	ME	48.0	oz/a	POST	C						
NIS			0.25	% v/v	POST	C						
Mean =							10.0	98.0	99.0	99.0	15.0	99.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							AGRASS ----- CONTROL PERCENT Jul-7-16	AMAPA ----- CONTROL PERCENT Aug-10-16	AGRASS ----- CONTROL PERCENT Aug-10-16	----- ARAHY PLOT - YIELD LBS/PLOT Sep-12-16 T1 - 2	----- ARAHY PLOT - YIELD LBS/PLOT Sep-12-16 T1 - 2	----- ARAHY PLOT - YIELD LBS/A Sep-12-16 TY2 - 0
Trt Treatment	Form Form	Rate	Grow	Appl			7	8	9	10	11	12
No. Name	Conc Type	Rate Unit	Stg	Code Plot								
1 NTC					101		0.0	0.0	0.0	0.00	0.00	0
					211		0.0	0.0	0.0	0.00	0.00	0
					310		0.0	0.0	0.0	0.00	0.00	0
					408		0.0	0.0	0.0	0.00	0.00	0
					Mean =		0.0	0.0	0.0	0.00	0.00	0
2 PROWL H20	3.8 SC	32.0 oz/a	PRE	A	102		75.0	99.0	60.0	14.50	14.07	4053
VALOR SX	51 WG	3.0 oz/a	PRE	A	205		99.0	99.0	99.0	12.60	12.22	3522
STRONGARM	84 WG	0.225 oz/a	PRE	A	309		99.0	99.0	99.0	12.85	12.46	3592
TOUGH	5 EC	9.0 oz/a	POST	C	410		99.0	99.0	99.0	14.10	13.68	3941
2,4-DB	1.75 SL	18.0 oz/a	POST	C								
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	C								
					Mean =		93.0	99.0	89.3	13.51	13.11	3777
3 PROWL H20	3.8 SC	32.0 oz/a	PRE	A	103		75.0	90.0	50.0	14.55	14.11	4067
TOUGH	5 EC	9.0 oz/a	EPOST	B	206		99.0	99.0	99.0	10.40	10.09	2907
2,4-DB	1.75 EC	18.0 oz/a	EPOST	B	304		95.0	99.0	95.0	17.05	16.54	4765
DUAL MAGNUM	7.62 EC	16.0 oz/a	EPOST	B	402		95.0	99.0	90.0	21.10	20.47	5897
TOUGH	5 EC	9.0 oz/a	POST	C								
2,4-DB	1.75 EC	18.0 oz/a	POST	C								
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	C								
					Mean =		91.0	96.8	83.5	15.78	15.30	4409
4 PROWL H20	3.8 SC	32.0 oz/a	PRE	A	104		80.0	99.0	65.0	13.45	13.05	3759
GRAMOXONE	2 SL	12.0 oz/a	EPOST	B	201		95.0	99.0	95.0	14.75	14.31	4123
STORM	4 SL	16.0 oz/a	EPOST	B	305		99.0	99.0	99.0	13.75	13.34	3843
DUAL MAGNUM	7.62 EC	16.0 oz/a	EPOST	B	403		95.0	99.0	95.0	17.20	16.68	4807
TOUGH	5 EC	9.0 oz/a	POST	C								
2,4-DB	1.75 EC	18.0 oz/a	POST	C								
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	C								
					Mean =		92.3	99.0	88.5	14.79	14.34	4133
5 PROWL H20	3.8 SC	32.0 oz/a	PRE	A	105		80.0	99.0	65.0	14.85	14.40	4151
VALOR SX	51 WG	3.0 oz/a	PRE	A	209		99.0	99.0	95.0	13.30	12.90	3717
STRONGARM	84 WG	0.225 oz/a	PRE	A	303		90.0	99.0	85.0	18.10	17.56	5059
TOUGH	5 EC	9.0 oz/a	POST	C	409		95.0	99.0	95.0	13.25	12.85	3703
2,4-DB	1.75 SL	18.0 oz/a	POST	C								
WARRANT	3 ME	48.0 oz/a	POST	C								
NIS		0.25 % v/v	POST	C								
					Mean =		91.0	99.0	85.0	14.88	14.43	4158
6 PROWL H20	3.8 SC	32.0 oz/a	PRE	A	106		80.0	99.0	65.0	11.50	11.16	3214
TOUGH	5 EC	9.0 oz/a	EPOST	B	202		90.0	99.0	85.0	20.05	19.45	5604
2,4-DB	1.75 EC	18.0 oz/a	EPOST	B	311		99.0	99.0	95.0	11.60	11.25	3242
WARRANT	3 ME	48.0 oz/a	EPOST	B	401		95.0	95.0	95.0	17.20	16.68	4807
NIS		0.25 % v/v	EPOST	B								
TOUGH	5 EC	9.0 oz/a	POST	C								
2,4-DB	1.75 EC	18.0 oz/a	POST	C								
WARRANT	3 ME	48.0 oz/a	POST	C								
NIS		0.25 % v/v	POST	C								
					Mean =		91.0	98.0	85.0	15.09	14.63	4217
7 PROWL H20	3.8 SC	32.0 oz/a	PRE	A	107		85.0	99.0	70.0	11.55	11.20	3228
GRAMOXONE	2 SL	12.0 oz/a	EPOST	B	210		95.0	99.0	90.0	11.10	10.77	3102
STORM	4 SL	16.0 oz/a	EPOST	B	306		99.0	99.0	99.0	12.65	12.27	3536
WARRANT	3 ME	48.0 oz/a	EPOST	B	411		99.0	99.0	95.0	10.25	9.94	2865
NIS		0.25 % v/v	EPOST	B								
TOUGH	5 EC	9.0 oz/a	POST	C								
2,4-DB	1.75 EC	18.0 oz/a	POST	C								
WARRANT	3 ME	48.0 oz/a	POST	C								
NIS		0.25 % v/v	POST	C								
					Mean =		94.5	99.0	88.5	11.39	11.05	3183

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							AGRASS ----- CONTROL PERCENT Jul-7-16	AMAPA ----- CONTROL PERCENT Aug-10-16	AGRASS ----- CONTROL PERCENT Aug-10-16	----- ARAHY PLOT - YIELD LBS/PLOT Sep-12-16 - 2	----- ARAHY PLOT - YIELD LBS/PLOT Sep-12-16 T1 - 2	----- ARAHY PLOT - YIELD LBS/A Sep-12-16 TY2 - 0
Trt Treatment	Form	Form	Rate	Grow	Appl							
No. Name	Conc	Type	Unit	Stg	Code	Plot	7	8	9	10	11	12
8 PROWL H20	3.8	SC	32.0 oz/a	PRE	A	108	99.0	99.0	95.0	11.45	11.11	3200
VALOR SX	51	WG	3.0 oz/a	PRE	A	207	99.0	99.0	99.0	10.50	10.19	2935
STRONGARM	84	WG	0.225 oz/a	PRE	A	302	95.0	99.0	65.0	20.05	19.45	5604
CADRE	2	AS	4.0 oz/a	POST	C	405	99.0	99.0	95.0	17.05	16.54	4765
2,4-DB	1.75	SL	18.0 oz/a	POST	C							
DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C							
Mean =							98.0	99.0	88.5	14.76	14.32	4126
9 PROWL H20	3.8	SC	32.0 oz/a	PRE	A	109	90.0	99.0	75.0	12.45	12.08	3480
VALOR SX	51	WG	3.0 oz/a	PRE	A	203	95.0	99.0	95.0	17.10	16.59	4779
STRONGARM	84	WG	0.225 oz/a	PRE	A	307	99.0	99.0	99.0	14.50	14.07	4053
CADRE	2	AS	4.0 oz/a	POST	C	406	99.0	99.0	99.0	14.40	13.97	4025
2,4-DB	1.75	SL	18.0 oz/a	POST	C							
WARRANT	3	ME	48.0 oz/a	POST	C							
NIS			0.25 % v/v	POST	C							
Mean =							95.8	99.0	92.0	14.61	14.17	4084
10 PROWL H20	3.8	SC	32.0 oz/a	PRE	A	110	85.0	99.0	65.0	9.90	9.60	2767
GRAMOXONE	2	SL	12.0 oz/a	EPOST	B	204	99.0	99.0	99.0	13.60	13.19	3801
STORM	4	SL	16.0 oz/a	EPOST	B	308	99.0	99.0	99.0	17.00	16.49	4751
DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST	B	404	99.0	99.0	99.0	13.30	12.90	3717
CADRE	2	AS	4.0 oz/a	POST	C							
2,4-DB	1.75	EC	18.0 oz/a	POST	C							
DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	C							
Mean =							95.5	99.0	90.5	13.45	13.05	3759
11 PROWL H20	3.8	SC	32.0 oz/a	PRE	A	111	90.0	99.0	85.0	8.95	8.68	2501
GRAMOXONE	2	SL	12.0 oz/a	EPOST	B	208	99.0	99.0	99.0	10.30	9.99	2879
STORM	4	SL	16.0 oz/a	EPOST	B	301	95.0	99.0	95.0	18.05	17.51	5045
WARRANT	3	ME	48.0 oz/a	EPOST	B	407	99.0	99.0	99.0	11.10	10.77	3102
NIS			0.25 % v/v	EPOST	B							
CADRE	2	AS	4.0 oz/a	POST	C							
2,4-DB	1.75	EC	18.0 oz/a	POST	C							
WARRANT	3	ME	48.0 oz/a	POST	C							
NIS			0.25 % v/v	POST	C							
Mean =							95.8	99.0	94.5	12.10	11.74	3382

University of Georgia

COMPARING TOUGH TO OTHER WEED CONTROL SYSTEMS IN PEANUT

Trial ID:	PE-19-16	Study Dir.:	LIESBETH BOSMAN
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code

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

Part Rated

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

LEAF = LEAF / FOLIAGE

PRM Data Type

T1 = [10]*0.97

TY2 = 288.1413*[11]