

University of Georgia

SPARTAN CHARGE FOR WEED CONTROL IN PEANUT

Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3

Plots: 6 by 25 feet

Spray vol: 15 gal/ac

Mix size: 1.5 liters (min .58658)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3
1	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	101	212	301
	SPARTAN CHARGE	3.5	SC	4.0	oz/a	PRE	A	3.125 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
2	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	102	205	303
	SPARTAN CHARGE	3.5	SC	6.0	oz/a	PRE	A	4.687 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
3	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	103	207	305
	AUTHORITY ASSIST	4	EC	4.0	oz/a	PRE	A	3.125 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
4	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	104	202	312
	AUTHORITY ASSIST	4	EC	6.0	oz/a	PRE	A	4.687 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
5	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	105	208	311
	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
6	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	106	209	306
	STRONGARM	84	WG	0.45	oz/a	PRE	A	0.337 g/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
7	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	107	210	308
	SPARTAN CHARGE	3.5	EC	4.0	oz/a	EPOST	B	3.125 ml/mx			
	DYNEAMIC			0.375	% v/v	EPOST	B	5.624 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
8	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	108	206	310
	SPARTAN CHARGE	3.5	EC	4.0	oz/a	EPOST	B	3.125 ml/mx			
	HM0128			0.83	% v/v	EPOST	B	12.45 ml/mx			
	DYNEAMIC			0.375	% v/v	EPOST	B	5.624 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
9	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	109	204	309
	SPARTAN CHARGE	3.5	EC	4.0	oz/a	EPOST	B	3.125 ml/mx			
	HM0128			1.67	% v/v	EPOST	B	25.05 ml/mx			
	DYNEAMIC			0.375	% v/v	EPOST	B	5.624 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
10	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	110	201	307
	GRAMOXONE INTEON	2	SL	8.0	oz/a	EPOST	B	6.249 ml/mx			
	DYNEAMIC			0.375	% v/v	EPOST	B	5.624 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
11	PROWL H2O	3.8	SC	32.0	oz/a	PRE	A	25.0 ml/mx	111	203	304
	GRAMOXONE INTEON	2	SL	8.0	oz/a	EPOST	B	6.249 ml/mx			
	HM0128			0.83	% v/v	EPOST	B	12.45 ml/mx			
	DYNEAMIC			0.375	% v/v	EPOST	B	5.624 ml/mx			
	CADRE	2	AS	4.0	oz/a	POST	C	3.125 ml/mx			
	COC			1.0	% v/v	POST	C	15.0 ml/mx			
12	NTC								112	211	302

Sort Order: Treatment

University of Georgia

SPARTAN CHARGE FOR WEED CONTROL IN PEANUT

Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

SPARTAN CHARGE = SPARTAN (3.15 LBS/GAL) + AIM (0.35 LBS/GAL)
 AUTHORITY ASSIST = SPARTAN (3.33 LBS/GAL) + PURSUIT (0.67 LBS/GAL)

16 OZ/A = 0.83% V/V

32 OZ/A = 1.67% V/V

HM0128 = ELE-MAX NUTRIENT CONCENTRATION (HELENA) WHICH CONTAINS THE FOLLOWING STUFF:
 11% NITROGEN; 8% POTASH; 5% POTASSIUM; 0.02% BORON; 0.0005% COBALT; 0.05% COPPER;
 0.1% IRON; 0.05% MANGANESE; 0.0005% MOLYBDENUM; 0.05% ZINC

CLETHODIM 2E @ 24 OZ/A + 1% COC - JUNE 30

MISSING DATA POINTS IN PLOT 101 DUE TO SPRAYING ERROR

DIGGING DATE: SEPTEMBER 21
 HARVEST DATE: SEPTEMBER 27
 HARVEST MOISTURE: 13.1%
 YIELD ADJUSTED TO 10%

SUMMARY:

- 1) PRE APPLICATIONS OF SPARTAN CHARGE @ 6 OZ/A CAUSED SIGNIFICANT PEANUT STUNTING. HOWEVER, THIS INJURY WAS LESS THAN THAT CAUSED BY VALOR.
- 2) EPOST APPLICATIONS OF SPARTAN CHARGE CAUSED SIGNIFICANT PEANUT STUNTING. ADDITIONS OF HM0128 TO SPARTAN CHARGE DID NOT REDUCE INJURY. EPOST APPLICATIONS OF SPARTAN CHARGE WERE MORE INJURIOUS THAN GRAMOXONE INTEON.
- 3) ADDITIONS OF HM0128 TO GRAMOXONE INTEON DID NOT REDUCED PEANUT INJURY.
- 3) EPOST APPLICATIONS OF SPARTAN CHARGE WERE LESS EFFECTIVE THAN GRAMOXONE INTEON IN CONTROLLING TEXAS PANICUM.
- 4) ALL TREATMENTS PROVIDED GOOD TO EXCELLENT CONTROL OF PALMER AMARANTH (>85%),
- 5) PALMER AMARANTH CONTROL WITH PRE SYSTEMS THAT INCLUDED SPARTAN CHARGE WERE EQUIVALENT TO VALOR SYSTEMS (90+% CONTROL).
- 6) ALL HERBICIDE TREATED PLOTS HAD HIGHER YIELDS THAN THE NTC. GENERALLY, THERE WERE NO MAJOR DIFFERENCES IN YIELD BETWEEN HERBICIDE TREATMENTS.

SPARTAN CHARGE FOR WEED CONTROL IN PEANUT

CROP AND PEST DESCRIPTION									
Weed 1.	PANTE	TEXAS PANICUM	2.	AMAPA	PALMER AMARANTH				
Crop 1:	ARAHY	PEANUT	Variety:	GA-06G		Planting Date:	May-9-11		
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:				

Previous: Crops	Pesticides	Year
1.		

Field Prep./Maintenance:

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

Texture: SAND % OM: 1.02 % Sand: 94 % Silt: 4 % Clay: 2
pH: 6.0 CEC: Soil Name: TIFTON Fertility Level:

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-11-11		0.5		SPRINKLER - LATERAL MOVE		
2. May-17-11		0.5		SPRINKLER - LATERAL MOVE		
3. May-24-11		0.5		SPRINKLER - LATERAL MOVE		
4. May-26-11		0.5		SPRINKLER - LATERAL MOVE		

Overall Moisture Conditions:

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

	APPLICATION SCHEDULE					
	A	B	C	D	E	F
Application Date:	May-11-11	May-27-11	Jun-14-11			
Time of Day:	8:00 AM	7:30 AM	7:00 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	PRE	EPOST	POST			
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE			
Air Temp., Unit:	79 F	73 F	77 F			
% Relative Humidity:	65	98	75			
Wind Velocity, Unit:	0 MPH	1.5 MPH	1 MPH			
Dew Presence (Y/N):	N	Y	N			
Water Hardness:	--	--	--			
Soil Temp., Unit:	75 F	78 F	80 F			
Soil Moisture:	DRY	OPTIMUM	DRY			
% Cloud Cover:	30	75	10			

		A	B	C	D	E	F
Crop 1	Stage: ARAHY	4" WIDE	6" WIDE				
	Stage Scale:	V4	R1				
	Height, Unit:	2 IN	4 IN				

		A	B	C	D	E	F
Weed 1	Stage: PANTE	1-2"	1-3"				
	Stage Scale:						
	Density, Unit:						
Weed 2	Stage: AMAPA	0.5-1"	5-8"				
	Stage Scale:						
	Density, Unit:						

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Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL
 Location: PONDER FARM Investigator: Eric P. Prostko

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME		SAME			
Operating Pressure:	38						
Nozzle Type:	FLAT FAN						
Nozzle Size:	11002DG						
Nozzle Spacing, Unit:	20	IN					
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60	IN					
Boom Height, Unit:	17	IN					
Ground Speed, Unit:	3.5	MPH					
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:	WATER						
Spray Volume, Unit:	15	GPA					
Spray pH:							
Propellant:	CO2						
Tank Mix (Y/N):							

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SPARTAN CHARGE FOR WEED CONTROL IN PEANUT											
Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL Location: PONDER FARM Investigator: Eric P. Prostko											
Weed Code						----- ARAHY PLANT - STUNT	PANTE ----- CONTROL	AMAPA ----- CONTROL	----- ARAHY PLANT - STUNT	----- ARAHY LEAF - BURN	AMAPA ----- CONTROL
Crop Code											
Part Rated											
Rating Data Type											
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						May-24-11	May-24-11	May-24-11	Jun-3-11	Jun-3-11	Jun-3-11
PRM Data Type											
# Subsamples, Dec.											
Trt Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Unit	Stg	Code	1	2	3	4	5	6
1 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	4.8 ef	79.5 a	100.0 a	0.0 e	0.0 b	99.0 a
SPARTAN CHARGE	3.5 SC		4.0 oz/a	PRE	A						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
2 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	11.7 bcd	91.7 a	100.0 a	3.3 de	6.7 ab	99.0 a
SPARTAN CHARGE	3.5 SC		6.0 oz/a	PRE	A						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
3 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	6.7 c-f	85.0 a	100.0 a	3.3 de	6.7 ab	99.0 a
AUTHORITY ASSIST	4 EC		4.0 oz/a	PRE	A						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
4 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	15.0 b	91.7 a	100.0 a	0.0 e	0.0 b	99.0 a
AUTHORITY ASSIST	4 EC		6.0 oz/a	PRE	A						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
5 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	25.0 a	85.0 a	100.0 a	6.7 d	6.7 ab	99.0 a
VALOR SX	51 WG		3.0 oz/a	PRE	A						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
6 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	13.3 bc	91.7 a	100.0 a	0.0 e	0.0 b	99.0 a
STRONGARM	84 WG		0.45 oz/a	PRE	A						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
7 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	11.7 bcd	83.3 a	100.0 a	43.3 ab	6.7 ab	99.0 a
SPARTAN CHARGE	3.5 EC		4.0 oz/a	EPOST	B						
DYNEAMIC			0.375 % v/v	EPOST	B						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
8 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	5.0 def	85.0 a	96.7 a	45.0 a	6.7 ab	99.0 a
SPARTAN CHARGE	3.5 EC		4.0 oz/a	EPOST	B						
HM0128			0.83 % v/v	EPOST	B						
DYNEAMIC			0.375 % v/v	EPOST	B						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
9 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	13.3 bc	83.3 a	100.0 a	40.0 b	10.0 ab	99.0 a
SPARTAN CHARGE	3.5 EC		4.0 oz/a	EPOST	B						
HM0128			1.67 % v/v	EPOST	B						
DYNEAMIC			0.375 % v/v	EPOST	B						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
10 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	10.0 b-e	88.3 a	100.0 a	15.0 c	16.7 a	99.0 a
GRAMOXONE INTEON	2 SL		8.0 oz/a	EPOST	B						
DYNEAMIC			0.375 % v/v	EPOST	B						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						
11 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	3.3 ef	90.0 a	96.7 a	13.3 c	15.0 a	99.0 a
GRAMOXONE INTEON	2 SL		8.0 oz/a	EPOST	B						
HM0128			0.83 % v/v	EPOST	B						
DYNEAMIC			0.375 % v/v	EPOST	B						
CADRE	2 AS		4.0 oz/a	POST	C						
COC			1.0 % v/v	POST	C						

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.

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SPARTAN CHARGE FOR WEED CONTROL IN PEANUT						
Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL Location: PONDER FARM Investigator: Eric P. Prostko						
Weed Code Crop Code Part Rated Rating Data Type	----- ARAHY PLANT - STUNT	PANTE ----- CONTROL	AMAPA ----- CONTROL	----- ARAHY PLANT - STUNT	----- ARAHY LEAF - BURN	AMAPA ----- CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date PRM Data Type # Subsamples, Dec.	May-24-11	May-24-11	May-24-11	Jun-3-11	Jun-3-11	Jun-3-11
Trt Treatment Form Form Rate Grow Appl No. Name Conc Type Rate Unit Stg Code	1	2	3	4	5	6
12 NTC	0.0 f	0.0 b	0.0 b	0.0 e	0.0 b	0.0 b
LSD (P=.10)	6.10	13.49	3.23	4.56	9.30	0.00
Standard Deviation	4.34	9.60	2.30	3.24	6.62	0.00
CV	43.48	12.07	2.52	22.89	105.95	0.0
Grand Mean	9.98	79.55	91.11	14.17	6.25	90.75
Bartlett's X2	5.029	11.195	0.0	1.073	3.297	0.0
P(Bartlett's X2)	0.754	0.343	.	0.956	0.771	.
Replicate F	1.454	3.334	2.100	5.349	1.473	0.000
Replicate Prob(F)	0.2563	0.0553	0.1474	0.0133	0.2520	1.0000
Treatment F	7.032	20.919	467.727	92.429	2.216	0.000
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0563	1.0000

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SPARTAN CHARGE FOR WEED CONTROL IN PEANUT												
Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL Location: PONDER FARM Investigator: Eric P. Prostko												
Weed Code							PANTE	-----	AMAPA	PANTE	AMAPA	PANTE
Crop Code							-----	-----	-----	-----	-----	-----
Part Rated							CONTROL	ARAHY PLANT - STUNT	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							Jun-3-11	Jun-14-11	Jun-14-11	Jun-14-11	Jun-27-11	Jun-27-11
PRM Data Type												
# Subsamples, Dec.												
Trt Treatment	Form Form	Rate	Grow	Appl								
No. Name	Conc Type	Unit	Stg	Code	7	8	9	10	11	12		
1 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	82.8 b	0.0 c	99.1 a	50.5 a	96.9 a	77.8 c		
SPARTAN CHARGE	3.5 SC	4.0 oz/a	PRE	A								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
2 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	93.0 ab	1.7 c	96.0 ab	76.7 a	92.7 a	85.0 abc		
SPARTAN CHARGE	3.5 SC	6.0 oz/a	PRE	A								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
3 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	88.3 ab	0.0 c	99.0 a	50.0 a	99.0 a	80.0 bc		
AUTHORITY ASSIST	4 EC	4.0 oz/a	PRE	A								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
4 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	91.3 ab	0.0 c	99.0 a	53.3 a	91.0 a	85.0 abc		
AUTHORITY ASSIST	4 EC	6.0 oz/a	PRE	A								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
5 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	92.7 ab	3.3 c	99.0 a	68.3 a	99.0 a	83.3 abc		
VALOR SX	51 WG	3.0 oz/a	PRE	A								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
6 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	88.3 ab	0.0 c	99.0 a	68.3 a	97.7 a	85.0 abc		
STRONGARM	84 WG	0.45 oz/a	PRE	A								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
7 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	90.0 ab	18.3 a	99.0 a	60.0 a	97.7 a	78.3 bc		
SPARTAN CHARGE	3.5 EC	4.0 oz/a	EPOST	B								
DYNEAMIC		0.375 % v/v	EPOST	B								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
8 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	89.7 ab	18.3 a	99.0 a	60.0 a	99.0 a	78.3 bc		
SPARTAN CHARGE	3.5 EC	4.0 oz/a	EPOST	B								
HM0128		0.83 % v/v	EPOST	B								
DYNEAMIC		0.375 % v/v	EPOST	B								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
9 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	90.0 ab	20.0 a	99.0 a	58.3 a	99.0 a	76.7 c		
SPARTAN CHARGE	3.5 EC	4.0 oz/a	EPOST	B								
HM0128		1.67 % v/v	EPOST	B								
DYNEAMIC		0.375 % v/v	EPOST	B								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
10 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	96.3 a	3.3 c	92.7 b	88.3 a	94.7 a	93.3 ab		
GRAMOXONE INTEON	2 SL	8.0 oz/a	EPOST	B								
DYNEAMIC		0.375 % v/v	EPOST	B								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								
11 PROWL H2O	3.8 SC	32.0 oz/a	PRE	A	97.7 a	8.3 b	97.7 ab	90.0 a	99.0 a	96.3 a		
GRAMOXONE INTEON	2 SL	8.0 oz/a	EPOST	B								
HM0128		0.83 % v/v	EPOST	B								
DYNEAMIC		0.375 % v/v	EPOST	B								
CADRE	2 AS	4.0 oz/a	POST	C								
COC		1.0 % v/v	POST	C								

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.

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Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL Location: PONDER FARM Investigator: Eric P. Prostko						
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.	PANTE ----- CONTROL PERCENT Jun-3-11	----- ARAHY PLANT - STUNT PERCENT Jun-14-11	AMAPA ----- CONTROL PERCENT Jun-14-11	PANTE ----- CONTROL PERCENT Jun-14-11	AMAPA ----- CONTROL PERCENT Jun-27-11	PANTE ----- CONTROL PERCENT Jun-27-11
Trt Treatment Form Form Rate Grow Appl No. Name Conc Type Rate Unit Stg Code	7	8	9	10	11	12
12 NTC	0.0 c	0.0 c	0.0 c	0.0 b	0.0 b	0.0 d
LSD (P=.10)	10.53	4.28	5.27	37.17	8.08	13.35
Standard Deviation	7.50	3.04	3.75	26.45	5.75	9.50
CV	8.99	49.79	4.17	43.86	6.47	12.4
Grand Mean	83.34	6.11	89.87	60.32	88.8	76.6
Bartlett's X2	12.675	3.466	3.913	22.653	9.779	10.927
P(Bartlett's X2)	0.242	0.629	0.141	0.012*	0.082	0.363
Replicate F	2.509	5.700	0.348	0.479	0.012	1.180
Replicate Prob(F)	0.1054	0.0105	0.7104	0.6260	0.9881	0.3268
Treatment F	37.577	21.164	171.499	2.321	71.667	20.599
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0468	0.0001	0.0001

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.

University of Georgia

SPARTAN CHARGE FOR WEED CONTROL IN PEANUT										
Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL Location: PONDER FARM Investigator: Eric P. Prostko										
Weed Code							----- ARAHY PLANT - STUNT	AMAPA ----- CONTROL	----- ARAHY YIELD	----- ARAHY YIELD
Crop Code										
Part Rated										
Rating Data Type										
Rating Unit							PERCENT	PERCENT	LBS/PLOT	LBS/A
Rating Date							Jun-27-11	Aug-25-11	Sep-27-11	Sep-27-11
PRM Data Type										TY1
# Subsamples, Dec.									- 2	- 0
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Unit	Stg	Code	13	14	15	16	
1 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	0.0 b	96.5 ab	15.40 ab	4318 ab	
SPARTAN CHARGE	3.5 SC		4.0 oz/a	PRE	A					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
2 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	1.7 b	91.0 ab	13.50 ab	3785 ab	
SPARTAN CHARGE	3.5 SC		6.0 oz/a	PRE	A					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
3 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	0.0 b	99.0 a	14.12 ab	3958 ab	
AUTHORITY ASSIST	4 EC		4.0 oz/a	PRE	A					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
4 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	0.0 b	86.3 b	14.15 ab	3968 ab	
AUTHORITY ASSIST	4 EC		6.0 oz/a	PRE	A					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
5 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	1.7 b	99.0 a	13.32 b	3734 b	
VALOR SX	51 WG		3.0 oz/a	PRE	A					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
6 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	0.0 b	93.0 ab	14.30 ab	4010 ab	
STRONGARM	84 WG		0.45 oz/a	PRE	A					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
7 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	13.3 a	94.7 ab	13.42 ab	3762 ab	
SPARTAN CHARGE	3.5 EC		4.0 oz/a	EPOST	B					
DYNEAMIC			0.375 % v/v	EPOST	B					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
8 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	13.3 a	97.7 ab	14.45 ab	4052 ab	
SPARTAN CHARGE	3.5 EC		4.0 oz/a	EPOST	B					
HM0128			0.83 % v/v	EPOST	B					
DYNEAMIC			0.375 % v/v	EPOST	B					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
9 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	15.0 a	97.7 ab	14.03 ab	3935 ab	
SPARTAN CHARGE	3.5 EC		4.0 oz/a	EPOST	B					
HM0128			1.67 % v/v	EPOST	B					
DYNEAMIC			0.375 % v/v	EPOST	B					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
10 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	3.3 b	89.7 ab	15.83 a	4440 a	
GRAMOXONE INTEON	2 SL		8.0 oz/a	EPOST	B					
DYNEAMIC			0.375 % v/v	EPOST	B					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					
11 PROWL H2O	3.8 SC		32.0 oz/a	PRE	A	5.0 b	96.0 ab	13.77 ab	3860 ab	
GRAMOXONE INTEON	2 SL		8.0 oz/a	EPOST	B					
HM0128			0.83 % v/v	EPOST	B					
DYNEAMIC			0.375 % v/v	EPOST	B					
CADRE	2 AS		4.0 oz/a	POST	C					
COC			1.0 % v/v	POST	C					

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

University of Georgia

SPARTAN CHARGE FOR WEED CONTROL IN PEANUT

Trial ID: PE-26-11 Study Dir.: RUSTY MITCHELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	-----	AMAPA	-----	-----
Crop Code	ARAHY	-----	ARAHY	ARAHY
Part Rated	PLANT -			
Rating Data Type	STUNT	CONTROL	YIELD	YIELD
Rating Unit	PERCENT	PERCENT	LBS/PLOT	LBS/A
Rating Date	Jun-27-11	Aug-25-11	Sep-27-11	Sep-27-11
PRM Data Type				TY1
# Subsamples, Dec.			- 2	- 0
Trt Treatment	Form Form	Rate	Grow	Appl
No. Name	Conc Type Rate Unit Stg Code			
12 NTC	13	14	15	16
	0.0 b	0.0 c	0.00 c	0 c
LSD (P=.10)	5.52	10.49	2.095	587.5
Standard Deviation	3.93	7.46	1.491	418.1
CV	88.33	8.61	11.45	11.45
Grand Mean	4.44	86.71	13.02	3651.75
Bartlett's X2	1.813	11.833	4.668	4.668
P(Bartlett's X2)	0.936	0.159	0.912	0.912
Replicate F	0.315	0.135	2.675	2.675
Replicate Prob(F)	0.7329	0.8746	0.0923	0.0923
Treatment F	6.817	41.007	23.466	23.466
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)
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University of Georgia

SPARTAN CHARGE FOR WEED CONTROL IN PEANUT	
Trial ID: PE-26-11	Study Dir.: RUSTY MITCHELL
Location: PONDER FARM	Investigator: Eric P. Prostko
<u>Weed Code</u> PANTE = PANICUM, TEXAS / PANICUM TEXANUM BUCKL. AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. <u>Part Rated</u> PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) LEAF = LEAF / FOLIAGE <u>PRM Data Type</u> TY1 = 280.3973*[15]	