

University of Georgia

PEANUT TOLERANCE TO BRAKE OR VALOR WEED-FREE			
Trial ID: PE-11-18		Study Dir.: KYLE BRISCOE	
Location:		Investigator: Eric P. Prostko	

Reps: 4		Plots: 6 by 25 feet											
Spray vol: 15 GAL/AC				Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)									
Trt	Treatment	Form	Form	Rate	Grow	Appl	Amt	Product	Rep				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4	
1	NTC								101	203	307	405	
2	BRAKE	1.2	SL	16.0	oz/a	PRE	A	12.5 mL/mx	102	207	305	409	
3	BRAKE	1.2	SL	21.0	oz/a	PRE	A	16.4 mL/mx	103	202	309	402	
4	BRAKE	1.2	SL	32.0	oz/a	PRE	A	25.0 mL/mx	104	201	304	406	
5	BRAKE	1.2	SL	42.0	oz/a	PRE	A	32.81 mL/mx	105	204	310	401	
6	BRAKE	1.2	SL	64.0	oz/a	PRE	A	49.99 mL/mx	106	205	301	403	
7	VALOR EZ	4	L	3.0	oz/a	PRE	A	2.343 mL/mx	107	206	302	404	
8	VALOR EZ	4	L	6.0	oz/a	PRE	A	4.687 mL/mx	108	209	303	408	
9	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx	109	210	308	410	
10	VALOR SX	51	WG	6.0	oz/a	PRE	A	4.493 g/mx	110	208	306	407	

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

HAND-WEEDED AS NEEDED

PROWL H2O @ 32 OZ/A + STRONGARM 85WG @ 0.45 OZ/A - PRE - MAY 1, 2018

CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A - MAY 14

YIELD DATA FROM PLOTS 103, 203, AND 303 WERE NOT USED DUE TO MECHANICAL PLANTER PROBLEM.

DIGGING DATE: SEPTEMBER 17

HARVEST DATE: SEPTEMBER 20

HARVEST MOISTURE: 11%

YIELD ADJUSTED TO 10%

2% DEDUCTED FROM YIELD FOR FM, ROCKS, ETC.

SUMMARY:

1) BRAKE CAUSED TRANSITORY CROP INJURY IN THE FORM OF STUNTING AND CHLOROSIS (BLEACHING). GENERALLY INJURY INCREASED WITH RATE.

2) NEITHER BRAKE NOR VALOR, AT ANY RATE, HAD AN EFFECT ON PEANUT YIELD (P=0.6431, CV = 7.65).

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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. _____ 2. _____																																																																																																																																								
Crop 1: ARAHY PEANUT Variety: GA-06G Planting Date: Apr-30-18 Planting Method: MONOSEM TWIN ROW Rate: 3.1 SEED/F Depth: 2 IN Perennial Age: _____ Row Spacing: _____ Seed Bed: _____ Soil Temperature: _____ Soil Moisture: DRY TO OPT 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: THIMET 20G INFR @ 7.5 LBS/A; 400 LBS/A 5-15-30 PPLNT; DYNASTY PD SEED TRT; 36"-9" TWIN ROWS																																																																																																																																								
Previous: Crops Pesticides Year 1. CORN 2017 _____																																																																																																																																								
MAINTENANCE																																																																																																																																								
Field Prep./Maintenance: _____ Form Form Form Rate <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Treatment Name</th> <th>Conc</th> <th>Unit</th> <th>Type</th> <th>Rate</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>				No.	Date	Treatment Name	Conc	Unit	Type	Rate	Unit	1.	_____	_____	_____	_____	_____	_____	_____																																																																																																																					
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Texture: SAND % OM: 0.93 % Sand: 94 % Silt: 4 % Clay: 2 pH: 6.4 CEC: 4.1 Soil Name: TIFTON Fertility Level: GOOD																																																																																																																																								
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Overall Moisture Conditions: _____ Closest Weather Station: _____ Distance: _____ Unit: _____																																																																																																																																								

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		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	May-1-18						
Time of Day:	7:30 AM						
Application Method:	BROADCAST						
Application Timing:	PRE						
Applic. Placement:	SOIL						
Air Temp., Unit:	55 F						
% Relative Humidity:	89						
Wind Velocity, Unit:	1 MPH						
Dew Presence (Y/N):	N						
Water Hardness:	--						
Soil Temp., Unit:	64 F						
Soil Moisture:	DRY/OPT						
% Cloud Cover:	0						

		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1	Stage: ARAHY						
	Stage Scale:						
	Height, Unit:						

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage:						
	Stage Scale:						
	Density, Unit:						

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK						
Operating Pressure:	27						
Nozzle Type:	AIXR						
Nozzle Size:	11002						
Nozzle Spacing, Unit:	15 IN						
Nozzles/Row:	2						
Band Width, Unit:							
Boom Length, Unit:	60 IN						
Boom Height, Unit:	20 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):							

Trt No	Treatment Application Comment

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PEANUT TOLERANCE TO BRAKE OR VALOR WEED-FREE									
Trial ID: PE-11-18		Study Dir.: KYLE BRISCOE							
Location:		Investigator: Eric P. Prostko							
Weed Code									
Crop Code									
Part Rated									
Rating Data Type									
Rating Unit									
Rating Date									
Trt-Eval Interval									
PRM Data Type									
# Subsamples, Dec.									
Trt Treatment	Form	Form	Rate	Grow	Appl				
No. Name	Conc	Type	Rate	Unit	Stg	Code			
1 NTC							1	2	3
2 BRAKE	1.2 SL	16.0 oz/a	PRE	A			4	5	6
3 BRAKE	1.2 SL	21.0 oz/a	PRE	A			7		
4 BRAKE	1.2 SL	32.0 oz/a	PRE	A					
5 BRAKE	1.2 SL	42.0 oz/a	PRE	A					
6 BRAKE	1.2 SL	64.0 oz/a	PRE	A					
7 VALOR EZ	4 L	3.0 oz/a	PRE	A					
8 VALOR EZ	4 L	6.0 oz/a	PRE	A					
9 VALOR SX	51 WG	3.0 oz/a	PRE	A					
10 VALOR SX	51 WG	6.0 oz/a	PRE	A					
Tukey's HSD P=.10									
Standard Deviation									
CV									
Grand Mean									
Levene's F									
Levene's Prob(F)									
Replicate F									
Replicate Prob(F)									
Treatment F									
Treatment Prob(F)									

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12

Could not calculate Tukey's HSD (% mean diff) for columns 9 because error mean square = 0.

Weed Code	-----	-----	-----	-----	-----
Crop Code	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY
Part Rated	PLANT -	PLANT -	PLOT -	PLOT -	PLOT -
Rating Data Type	STUNTING	CHLOROSI	YIELD	YIELD	YIELD
Rating Unit	PERCENT	PERCENT	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Jul-20-18	Jul-20-18	Sep-20-18	Sep-20-18	Sep-20-18
Trt-Eval Interval	80 DA-A	80 DA-A	142 DA-A	142 DA-A	142 DA-A
PRM Data Type				T1	TY2
# Subsamples, Dec.			- 2	- 2	- 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 a	0.0 a	24.02 a	23.54 a	6759 a
2 BRAKE 1.2 SL 16.0 oz/a PRE A	0.0 a	0.0 a	24.09 a	23.61 a	6779 a
3 BRAKE 1.2 SL 21.0 oz/a PRE A	0.0 a	0.0 a	22.62 a	22.16 a	6365 a
4 BRAKE 1.2 SL 32.0 oz/a PRE A	1.3 a	0.0 a	23.23 a	22.76 a	6536 a
5 BRAKE 1.2 SL 42.0 oz/a PRE A	0.0 a	0.0 a	22.36 a	21.92 a	6293 a
6 BRAKE 1.2 SL 64.0 oz/a PRE A	0.0 a	0.0 a	22.52 a	22.07 a	6337 a
7 VALOR EZ 4 L 3.0 oz/a PRE A	0.0 a	0.0 a	24.61 a	24.12 a	6927 a
8 VALOR EZ 4 L 6.0 oz/a PRE A	1.7 a	0.0 a	22.47 a	22.02 a	6323 a
9 VALOR SX 51 WG 3.0 oz/a PRE A	0.0 a	0.0 a	23.29 a	22.82 a	6554 a
10 VALOR SX 51 WG 6.0 oz/a PRE A	2.5 a	0.0 a	23.16 a	22.70 a	6519 a
Tukey's HSD P=.10	3.37	.	3.965	3.885	1115.8
Standard Deviation	1.52	0.00	1.778	1.743	500.5
CV	280.0	0.0	7.65	7.65	7.65
Grand Mean	0.54	0.00	23.235	22.771	6539.1
Levene's F	2.437	0.00	0.799	0.799	0.799
Levene's Prob(F)	0.036*	0.00*	0.62	0.62	0.62
Replicate F	0.755	0.000	1.435	1.435	1.435
Replicate Prob(F)	0.5305	1.0000	0.2583	0.2583	0.2583
Treatment F	1.479	0.000	0.772	0.772	0.772
Treatment Prob(F)	0.2118	1.0000	0.6431	0.6431	0.6431

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12
Could not calculate Tukey's HSD (% mean diff) for columns: 9 because error mean square = 0.

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PEANUT TOLERANCE TO BRAKE OR VALOR WEED-FREE Trial ID: PE-11-18 Study Dir.: KYLE BRISCOE Location: Investigator: Eric P. Prostko
Part Rated PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) PRM Data Type T1 = [10]*0.98 TY2 = 287.1733*[11]

PEANUT TOLERANCE TO BRAKE OR VALOR WEED-FREE Trial ID: PE-11-18 Study Dir.: KYLE BRISCOE Location: Investigator: Eric P. Prostko

Weed Code							----- ARAHY PLANT - STUNTING PERCENT May-9-18 8 DA-A	----- ARAHY PLANT - STUNTING PERCENT May-14-18 13 DA-A	----- ARAHY PLANT - CHLOROSI PERCENT May-14-18 13 DA-A	----- ARAHY PLANT - STUNTING PERCENT May-24-18 23 DA-A	----- ARAHY PLANT - CHLOROSI PERCENT May-24-18 23 DA-A	----- ARAHY PLANT - STUNTING PERCENT Jun-21-18 44 DA-A		
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
							203		.	.	.	.	.	.
							307		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	BRAKE	1.2	SL	16.0	oz/a	PRE	A	102	10.0	5.0	10.0	0.0	10.0	0.0
							207		0.0	5.0	10.0	0.0	10.0	0.0
							305		10.0	5.0	10.0	0.0	10.0	0.0
							409		10.0	5.0	0.0	0.0	10.0	0.0
							Mean =		7.5	5.0	7.5	0.0	10.0	0.0
3	BRAKE	1.2	SL	21.0	oz/a	PRE	A	103	.	.	.	.	.	.
							202		0.0	5.0	15.0	0.0	20.0	0.0
							309		10.0	5.0	15.0	0.0	30.0	0.0
							402		0.0	5.0	10.0	0.0	20.0	5.0
							Mean =		3.3	5.0	13.3	0.0	23.3	1.7
4	BRAKE	1.2	SL	32.0	oz/a	PRE	A	104	10.0	5.0	30.0	0.0	30.0	15.0
							201		0.0	5.0	30.0	10.0	30.0	5.0
							304		10.0	10.0	30.0	0.0	40.0	5.0
							406		0.0	5.0	15.0	0.0	30.0	0.0
							Mean =		5.0	6.3	26.3	2.5	32.5	6.3
5	BRAKE	1.2	SL	42.0	oz/a	PRE	A	105	10.0	5.0	40.0	0.0	40.0	10.0
							204		0.0	5.0	40.0	10.0	50.0	10.0
							310		0.0	5.0	50.0	0.0	50.0	5.0
							401		0.0	5.0	40.0	0.0	50.0	10.0
							Mean =		2.5	5.0	42.5	2.5	47.5	8.8
6	BRAKE	1.2	SL	64.0	oz/a	PRE	A	106	0.0	5.0	50.0	0.0	50.0	15.0
							205		10.0	5.0	50.0	10.0	60.0	15.0
							301		10.0	5.0	50.0	10.0	60.0	10.0
							403		0.0	5.0	50.0	0.0	65.0	10.0
							Mean =		5.0	5.0	50.0	5.0	58.8	12.5
7	VALOR EZ	4	L	3.0	oz/a	PRE	A	107	10.0	5.0	0.0	10.0	0.0	10.0
							206		0.0	5.0	0.0	10.0	0.0	10.0
							302		10.0	5.0	0.0	10.0	0.0	0.0
							404		0.0	10.0	0.0	10.0	0.0	15.0
							Mean =		5.0	6.3	0.0	10.0	0.0	8.8
8	VALOR EZ	4	L	6.0	oz/a	PRE	A	108	20.0	15.0	0.0	20.0	0.0	30.0
							209		10.0	15.0	0.0	30.0	0.0	25.0
							303		.	.	.	.	.	.
							408		10.0	15.0	0.0	20.0	0.0	20.0
							Mean =		13.3	15.0	0.0	23.3	0.0	25.0
9	VALOR SX	51	WG	3.0	oz/a	PRE	A	109	10.0	5.0	0.0	10.0	0.0	10.0
							210		10.0	5.0	0.0	10.0	0.0	10.0
							308		10.0	10.0	0.0	10.0	0.0	5.0
							410		0.0	5.0	0.0	10.0	0.0	5.0
							Mean =		7.5	6.3	0.0	10.0	0.0	7.5
10	VALOR SX	51	WG	6.0	oz/a	PRE	A	110	0.0	10.0	0.0	20.0	0.0	20.0
							208		10.0	15.0	0.0	30.0	0.0	30.0
							306		10.0	15.0	0.0	30.0	0.0	20.0
							407		10.0	10.0	0.0	20.0	0.0	20.0
							Mean =		7.5	12.5	0.0	25.0	0.0	22.5

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Weed Code													
Crop Code													
Part Rated													
Rating Data Type													
Rating Unit													
Rating Date													
Trt-Eval Interval													
PRM Data Type													
# Subsamples, Dec.													
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	22.80	22.34	6417
						203		.	.	.	.	.	.
						307		0.0	0.0	0.0	25.70	25.19	7233
						405		0.0	0.0	0.0	23.55	23.08	6628
						Mean =		0.0	0.0	0.0	24.02	23.54	6759
2 BRAKE	1.2 SL	16.0 oz/a	PRE	A		102		0.0	0.0	0.0	22.40	21.95	6304
						207		0.0	0.0	0.0	25.55	25.04	7191
						305		0.0	0.0	0.0	25.25	24.75	7106
						409		0.0	0.0	0.0	23.15	22.69	6515
						Mean =		0.0	0.0	0.0	24.09	23.61	6779
3 BRAKE	1.2 SL	21.0 oz/a	PRE	A		103		.	.	.	.	.	.
						202		0.0	0.0	0.0	23.40	22.93	6585
						309		0.0	0.0	0.0	23.75	23.28	6684
						402		0.0	0.0	0.0	20.70	20.29	5826
						Mean =		0.0	0.0	0.0	22.62	22.16	6365
4 BRAKE	1.2 SL	32.0 oz/a	PRE	A		104		5.0	5.0	0.0	21.60	21.17	6079
						201		0.0	0.0	0.0	22.10	21.66	6220
						304		0.0	0.0	0.0	25.55	25.04	7191
						406		0.0	0.0	0.0	23.65	23.18	6656
						Mean =		1.3	1.3	0.0	23.23	22.76	6536
5 BRAKE	1.2 SL	42.0 oz/a	PRE	A		105		5.0	0.0	0.0	24.00	23.52	6754
						204		5.0	0.0	0.0	24.50	24.01	6895
						310		5.0	0.0	0.0	21.05	20.63	5924
						401		5.0	0.0	0.0	19.90	19.50	5600
						Mean =		5.0	0.0	0.0	22.36	21.92	6293
6 BRAKE	1.2 SL	64.0 oz/a	PRE	A		106		10.0	0.0	0.0	22.75	22.30	6403
						205		10.0	0.0	0.0	23.70	23.23	6670
						301		5.0	0.0	0.0	.	.	.
						403		5.0	0.0	0.0	21.10	20.68	5938
						Mean =		7.5	0.0	0.0	22.52	22.07	6337
7 VALOR EZ	4 L	3.0 oz/a	PRE	A		107		0.0	0.0	0.0	25.85	25.33	7275
						206		0.0	0.0	0.0	26.50	25.97	7458
						302		0.0	0.0	0.0	24.20	23.72	6811
						404		0.0	0.0	0.0	21.90	21.46	6163
						Mean =		0.0	0.0	0.0	24.61	24.12	6927
8 VALOR EZ	4 L	6.0 oz/a	PRE	A		108		0.0	0.0	0.0	22.70	22.25	6388
						209		0.0	5.0	0.0	22.30	21.85	6276
						303		.	.	.	.	.	.
						408		0.0	0.0	0.0	22.40	21.95	6304
						Mean =		0.0	1.7	0.0	22.47	22.02	6323
9 VALOR SX	51 WG	3.0 oz/a	PRE	A		109		0.0	0.0	0.0	24.85	24.35	6994
						210		0.0	0.0	0.0	22.95	22.49	6459
						308		0.0	0.0	0.0	24.35	23.86	6853
						410		0.0	0.0	0.0	21.00	20.58	5910
						Mean =		0.0	0.0	0.0	23.29	22.82	6554
10 VALOR SX	51 WG	6.0 oz/a	PRE	A		110		0.0	5.0	0.0	20.40	19.99	5741
						208		0.0	0.0	0.0	23.10	22.64	6501
						306		0.0	5.0	0.0	22.60	22.15	6360
						407		0.0	0.0	0.0	26.55	26.02	7472
						Mean =		0.0	2.5	0.0	23.16	22.70	6519

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PEANUT TOLERANCE TO BRAKE OR VALOR WEED-FREE	
Trial ID: PE-11-18	Study Dir.: KYLE BRISCOE
Location:	Investigator: Eric P. Prostko
Part Rated	
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)	
PRM Data Type	
T1 = [10]*0.98	
TY2 = 287.1733*[11]	