

University of Georgia

PEANUT CULTIVAR RESPONSE TO PRE APPLICATIONS OF ZIDUA - YEAR 2									
Trial ID: PE-05-13		Study Dir.: PETER EURE							
Location: PONDER FARM		Investigator: Eric P. Prostko							

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 gal/ac Mix size: 1.5 liters (min .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Rep 1	2	3	4
1	GEORGIA-06G ZIDUA	85 WG		0.0 oz/a	PRE	A			101	207	304	407
2	GEORGIA-06G ZIDUA	85 WG		2.0 oz/a	PRE	A		1.498 g/mx	104	201	307	404
3	GEORGIA-06G ZIDUA	85 WG		4.0 oz/a	PRE	A		2.996 g/mx	107	204	301	401
4	GEORGIA GREENER ZIDUA	85 WG		0.0 oz/a	PRE	A			102	208	305	402
5	GEORGIA GREENER ZIDUA	85 WG		2.0 oz/a	PRE	A		1.498 g/mx	105	202	308	405
6	GEORGIA GREENER ZIDUA	85 WG		4.0 oz/a	PRE	A		2.996 g/mx	108	205	302	408
7	TIFGUARD ZIDUA	85 WG		0.0 oz/a	PRE	A			103	209	306	403
8	TIFGUARD ZIDUA	85 WG		2.0 oz/a	PRE	A		1.498 g/mx	106	203	309	406
9	TIFGUARD ZIDUA	85 WG		4.0 oz/a	PRE	A		2.996 g/mx	109	206	303	409

Sort Order: Treatment

Trial Comments

PROWL H20 @ 34 OZ/A + VALOR @ 3 OZ/A + STRONGARM @ 0.225 OZ/A - MAY 8 ENTIRE PLOT AREA

PRE'S WERE DELAYED FOR 5 DAYS BECAUSE OF WINDY/RAINY WEATHER

ON 5/6/13 - DAY OF PRE - RADICAL WAS 0.25"-0.5" LONG

CRACKING: MAY 10

DIGGING: SEPTEMBER 20

HARVEST: SEPTEMBER 30

HARVEST MOISTURE: 14.2%

YIELDS ADJUSTED TO 10% MOISTURE

SUMMARY:

1) Peanut Plant Stand

At 18 days after planting (DAP), peanut plant stand was not influenced by pyroxasulfone rate or peanut variety.

2) Peanut Stunting

Peanut stunting at 20 DAP was not influenced by the interaction of peanut cultivar and pyroxasulfone rate. Pyroxasulfone applied at 2 or 4 oz/A caused 8 and 11% peanut stunting, respectively. Regardless of peanut cultivar and pyroxasulfone rate, peanut stunting 115 DAP ranged from 0 to 3%.

3) Peanut Plant Height

On September 7 (124 DAT), there was a significant interaction between pyroxasulfone rate and peanut variety. GA-06G plant heights were reduced by pyroxasulfone. GA-Greener and Tifguard plant heights were not reduced.

4) Peanut Maturity

Pyroxasulfone rate had no effect on the number of black pods at harvest. More brown pods were present with pyroxasulfone at 4 oz/A. Less other pods were present with pyroxasulfone at 4 oz/A.

5) Peanut Yield

Yield was not influenced by pyroxasulfone rate. However, yield was influenced by cultivar. Greatest yields were observed from GA-06G (6495 lbs/A), while GA-Greener (5949 lbs/A) and Tifguard (5906 lbs/A) had lower yields.

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Trial Status: _____ City: _____		Initiation Date: _____ State/Prov.: _____																																																																																																			
Conducted Under GLP (Y/N): N		Country: _____ Postal Code: _____																																																																																																			
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Objective: _____																																																																																																					
Conclusions: _____																																																																																																					
CROP AND PEST DESCRIPTION																																																																																																					
Weed 1. _____ 2. _____																																																																																																					
Crop 1: ARAHY PEANUT Planting Method: MONSOEM TWIN ROW Perennial Age: _____ Soil Temperature: _____		Variety: SEVERAL Rate: 3.1 Row Spacing: _____ Soil Moisture: _____																																																																																																			
Planting Date: May-1-13 SEED/FT Seed Bed: _____ Emergence Date: _____		Depth: 2 IN IN																																																																																																			
Plot Width, Unit: 6 FT Site Type: _____		Plot Length, Unit: 25 FT Study Design: SPLPLO																																																																																																			
Tillage Type: CONVENTIONAL Trial Initiation Comments: THIMET 20G INFR @ 3.5 LBS/A; DYNASTY PD SEED TRT; 36"-9" TWIN ROW SPACING																																																																																																					
Previous: Crops 1. _____		Pesticides _____																																																																																																			
Year _____		_____																																																																																																			
MAINTENANCE																																																																																																					
Field Prep./Maintenance: _____																																																																																																					
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SOIL DESCRIPTION																																																																																																					
Texture: SAND % OM: 0.52 % Sand: 94 % Silt: 2 % Clay: 4 pH: 6.1 CEC: 3.7 Soil Name: TIFTON Fertility Level: GOOD																																																																																																					
MOISTURE CONDITIONS																																																																																																					
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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-6-13						
Time of Day:	7:30 AM						
Application Method:	BROADCAST						
Application Timing:	PRE						
Applic. Placement:	SOIL						
Air Temp., Unit:	56 F						
% Relative Humidity:	78						
Wind Velocity, Unit:	2 MPH						
Dew Presence (Y/N):	N						
Water Hardness:	--						
Soil Temp., Unit:	60 F						
Soil Moisture:	WET						
% 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:	40						
Nozzle Type:	AIXR						
Nozzle Size:	11002						
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):	--						

Trt No	Treatment Application Comment

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Trial ID: PE-05-13		Study Dir.: PETER EURE								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code					-----	-----	-----	-----	-----	-----
Crop Code					ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY
Part Rated					PLANT -	PLANT -	PLANT -	PLANT -	PLANT -	PLANT -
Rating Data Type					POPULATI	POPULATI	STUNTING	STUNTING	STUNTING	STUNTING
Rating Unit					#/3 FT	#/3 FT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					May-16-13	May-24-13	May-16-13	May-26-13	Jul-22-13	Aug-29-13
Crop Stage										
Crop Stage Scale										
Trt-Eval Interval					10 DA-A	18 DA-A	10 DA-A	20 DA-A	77 DA-A	115 DA-A
PRM Data Type										
# Subsamples, Dec.										
Trt Treatment	Form Form	Rate Grow	Appl							
No. Name	Conc Type	Rate Unit	Stg Code	1	2	4	5	6	7	
TABLE OF R MEANS										
Replicate 1				11.7	14.0	7.8	6.7	7.2	3.3	
Replicate 2				11.6	13.7	4.4	5.6	6.1	1.7	
Replicate 3				10.1	14.0	2.2	5.6	2.8	1.1	
Replicate 4				9.4	13.2	2.8	6.7	7.2	1.1	
TABLE OF A (Variety) MEANS										
1 GEORGIA-06G				12.1	14.0	4.2	5.8	4.6	1.7	
2 GEORGIA GREENER				10.1	14.1	3.3	5.8	7.9	2.5	
3 TIFGUARD				9.9	13.1	5.4	6.7	5.0	1.3	
TABLE OF B (Pyrox Rate) MEANS										
1 ZIDUA 85 WG 0.0 oz/a PRE A				11.5	13.7	0.0	0.0	0.0	0.0	
2 ZIDUA 85 WG 2.0 oz/a PRE A				10.5	12.9	5.0	7.5	7.5	2.5	
3 ZIDUA 85 WG 4.0 oz/a PRE A				10.1	14.6	7.9	10.8	10.0	2.9	
TABLE OF A (Variety) B (Pyrox Rate) MEANS										
1 GEORGIA-06G 1 ZIDUA 85 WG 0.0 oz/a PRE A				12.5	14.0	0.0	0.0	0.0	0.0	
2 GEORGIA GREENER 1 ZIDUA 85 WG 0.0 oz/a PRE A				11.8	14.0	0.0	0.0	0.0	0.0	
3 TIFGUARD 1 ZIDUA 85 WG 0.0 oz/a PRE A				10.3	13.0	0.0	0.0	0.0	0.0	
1 GEORGIA-06G 2 ZIDUA 85 WG 2.0 oz/a PRE A				11.0	13.8	7.5	8.8	7.5	2.5	
2 GEORGIA GREENER 2 ZIDUA 85 WG 2.0 oz/a PRE A				10.5	12.3	2.5	5.0	8.8	2.5	
3 TIFGUARD 2 ZIDUA 85 WG 2.0 oz/a PRE A				10.0	12.8	5.0	8.8	6.3	2.5	
1 GEORGIA-06G 3 ZIDUA 85 WG 4.0 oz/a PRE A				12.8	14.3	5.0	8.8	6.3	2.5	
2 GEORGIA GREENER 3 ZIDUA 85 WG 4.0 oz/a PRE A				8.0	16.0	7.5	12.5	15.0	5.0	
3 TIFGUARD 3 ZIDUA 85 WG 4.0 oz/a PRE A				9.5	13.5	11.3	11.3	8.8	1.3	

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Weed Code						
Crop Code						
Part Rated						
Rating Data Type						
Rating Unit						
Rating Date						
Crop Stage						
Crop Stage Scale						
Trt-Eval Interval						
PRM Data Type						
# Subsamples, Dec.						
	----- ARAHY PLANT - HEIGHT CM Sep-7-13 5 PLANT AVERAGE 124 DA-A	----- ARAHY POD - BLACK PERCENT Sep-19-13 136 DA-A	----- ARAHY POD - BROWN PERCENT Sep-19-13 136 DA-A	----- ARAHY POD - OTHER PERCENT Sep-19-13 136 DA-A	----- ARAHY PODTOT - YIELD LBS/PLOT Sep-30-13 147 DA-A	----- ARAHY PODTOT - YIELD LBS/A Sep-30-13 147 DA-A TY1 - 1
Trt Treatment	Form Form	Rate Grow	Appl			
No. Name	Conc Type	Rate Unit	Stg Code			
	9	11	12	13	15	16
TABLE OF R MEANS						
Replicate 1	34.4	10.0	34.4	54.8	21.589	5976.8
Replicate 2	34.6	5.9	31.8	62.9	21.657	5995.6
Replicate 3	34.4	4.7	31.8	64.7	22.128	6126.0
Replicate 4	32.6	5.2	32.9	61.7	23.017	6372.1
TABLE OF A (Variety) MEANS						
1 GEORGIA-06G	34.8	4.1	33.9	62.0	23.463	6495.5
2 GEORGIA GREENER	32.4	9.3	30.2	60.7	21.488	5949.0
3 TIFGUARD	34.8	5.9	34.1	60.3	21.342	5908.4
TABLE OF B (Pyrox Rate) MEANS						
1 ZIDUA 85 WG 0.0 oz/a PRE A	34.9	5.4	27.6	66.9	22.579	6251.0
2 ZIDUA 85 WG 2.0 oz/a PRE A	32.9	6.1	33.9	59.5	21.972	6082.8
3 ZIDUA 85 WG 4.0 oz/a PRE A	34.2	7.8	36.7	56.6	21.742	6019.1
TABLE OF A (Variety) B (Pyrox Rate) MEANS						
1 GEORGIA-06G 1 ZIDUA 85 WG 0.0 oz/a PRE A	37.3	5.0	26.8	68.3	23.725	6568.2
2 GEORGIA GREENER 1 ZIDUA 85 WG 0.0 oz/a PRE A	33.3	5.8	29.8	64.5	21.900	6063.0
3 TIFGUARD 1 ZIDUA 85 WG 0.0 oz/a PRE A	34.3	5.5	26.3	68.0	22.113	6121.8
1 GEORGIA-06G 2 ZIDUA 85 WG 2.0 oz/a PRE A	34.0	3.8	33.5	62.8	23.900	6616.7
2 GEORGIA GREENER 2 ZIDUA 85 WG 2.0 oz/a PRE A	31.8	9.8	27.8	61.0	20.853	5773.0
3 TIFGUARD 2 ZIDUA 85 WG 2.0 oz/a PRE A	33.0	4.8	40.5	54.8	21.163	5858.8
1 GEORGIA-06G 3 ZIDUA 85 WG 4.0 oz/a PRE A	33.0	3.5	41.5	55.0	22.763	6301.8
2 GEORGIA GREENER 3 ZIDUA 85 WG 4.0 oz/a PRE A	32.3	12.5	33.0	56.5	21.713	6011.1
3 TIFGUARD 3 ZIDUA 85 WG 4.0 oz/a PRE A	37.3	7.5	35.5	58.3	20.750	5744.6

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COMPLETE SPLIT-PLOT AOV For ----- ARAHY PLANT POPULATI #/3 FT May-16-13 10 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	193.638889				
R	3	32.305556	10.768519	3.313	0.0436	1.5
A	2	34.888889	17.444444	3.438	0.1012	1.8
ERROR A	6	30.444444	5.074074	1.561	0.2154	2.6
B	2	12.722222	6.361111	1.957	0.1702	1.3
AB	4	24.777778	6.194444	1.906	0.1532	2.2
ERROR B	18	58.500000	3.250000			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY PLANT POPULATI #/3 FT May-16-13 10 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	193.638889				
R	3	32.305556	10.768519	2.906	0.0554	1.6
A	2	34.888889	17.444444	4.707	0.0189	1.3
B	2	12.722222	6.361111	1.716	0.2010	1.3
AB	4	24.777778	6.194444	1.671	0.1894	2.3
ERROR	24	88.944444	3.706019			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY PLANT POPULATI #/3 FT May-24-13 18 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	121.222222				
R	3	3.666667	1.222222	0.362	0.7814	1.5
A	2	7.388889	3.694444	1.137	0.3814	1.4
ERROR A	6	19.500000	3.250000	0.962	0.4779	2.6
B	2	16.722222	8.361111	2.474	0.1124	1.3
AB	4	13.111111	3.277778	0.970	0.4481	2.3
ERROR B	18	60.833333	3.379630			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY PLANT POPULATI #/3 FT May-24-13 18 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	121.222222				
R	3	3.666667	1.222222	0.365	0.7788	1.5
A	2	7.388889	3.694444	1.104	0.3479	1.3
B	2	16.722222	8.361111	2.498	0.1034	1.3
AB	4	13.111111	3.277778	0.979	0.4374	2.2
ERROR	24	80.333333	3.347222			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY PLANT STUNTING PERCENT May-16-13 10 DA-A (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	1157.638889				
R	3	168.750000	56.250000	2.558	0.0873	3.8
A	2	26.388889	13.194444	1.000	0.4219	2.9
ERROR A	6	79.166667	13.194444	0.600	0.7268	6.6
B	2	384.722222	192.361111	8.747	0.0022	3.3
AB	4	102.777778	25.694444	1.168	0.3576	5.7
ERROR B	18	395.833333	21.990741			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY PLANT STUNTING PERCENT May-16-13 10 DA-A (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	1157.638889				
R	3	168.750000	56.250000	2.842	0.0591	3.6
A	2	26.388889	13.194444	0.667	0.5227	3.1
B	2	384.722222	192.361111	9.719	0.0008	3.1
AB	4	102.777778	25.694444	1.298	0.2988	5.4
ERROR	24	475.000000	19.791667			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY PLANT STUNTING PERCENT May-26-13 20 DA-A (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	1105.555556				
R	3	11.111111	3.703704	0.308	0.8195	2.8
A	2	5.555556	2.777778	0.231	0.8007	2.8
ERROR A	6	72.222222	12.037037	1.000	0.4552	4.9
B	2	738.888889	369.444444	30.692	0.0001	2.5
AB	4	61.111111	15.277778	1.269	0.3185	4.3
ERROR B	18	216.666667	12.037037			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY PLANT STUNTING PERCENT May-26-13 20 DA-A (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	1105.555556				
R	3	11.111111	3.703704	0.308	0.8196	2.8
A	2	5.555556	2.777778	0.231	0.7957	2.4
B	2	738.888889	369.444444	30.692	0.0001	2.4
AB	4	61.111111	15.277778	1.269	0.3095	4.2
ERROR	24	288.888889	12.037037			

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COMPLETE SPLIT-PLOT AOV For ----- ARAHY PLANT STUNTING PERCENT Jul-22-13 77 DA-A (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	1525.000000				
R	3	119.444444	39.814815	1.522	0.2429	4.2
A	2	79.166667	39.583333	2.165	0.1960	3.4
ERROR A	6	109.722222	18.287037	0.699	0.6539	7.2
B	2	650.000000	325.000000	12.425	0.0004	3.6
AB	4	95.833333	23.958333	0.916	0.4760	6.3
ERROR B	18	470.833333	26.157407			
FACTORIAL/POOLED ERROR AOV For ----- ARAHY PLANT STUNTING PERCENT Jul-22-13 77 DA-A (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	1525.000000				
R	3	119.444444	39.814815	1.646	0.2052	4.0
A	2	79.166667	39.583333	1.636	0.2157	3.4
B	2	650.000000	325.000000	13.435	0.0001	3.4
AB	4	95.833333	23.958333	0.990	0.4317	6.0
ERROR	24	580.555556	24.189815			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY PLANT STUNTING PERCENT Aug-29-13 115 DA-A (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	357.638889				
R	3	29.861111	9.953704	1.049	0.3951	2.5
A	2	9.722222	4.861111	0.429	0.6699	2.7
ERROR A	6	68.055556	11.342593	1.195	0.3529	4.4
B	2	59.722222	29.861111	3.146	0.0673	2.2
AB	4	19.444444	4.861111	0.512	0.7276	3.8
ERROR B	18	170.833333	9.490741			
FACTORIAL/POOLED ERROR AOV For ----- ARAHY PLANT STUNTING PERCENT Aug-29-13 115 DA-A (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	357.638889				
R	3	29.861111	9.953704	1.000	0.4098	2.5
A	2	9.722222	4.861111	0.488	0.6196	2.2
B	2	59.722222	29.861111	3.000	0.0687	2.2
AB	4	19.444444	4.861111	0.488	0.7442	3.8
ERROR	24	238.888889	9.953704			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY PLANT HEIGHT CM Sep-7-13 5 PLANT AVERAGE 124 DA-A (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	292.000000				
R	3	25.111111	8.370370	1.502	0.2480	1.9
A	2	45.166667	22.583333	3.469	0.0997	2.0
ERROR A	6	39.055556	6.509259	1.168	0.3660	3.3
B	2	24.500000	12.250000	2.198	0.1400	1.7
AB	4	57.833333	14.458333	2.594	0.0714	2.9
ERROR B	18	100.333333	5.574074			
FACTORIAL/POOLED ERROR AOV For ----- ARAHY PLANT HEIGHT CM Sep-7-13 5 PLANT AVERAGE 124 DA-A (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	292.000000				
R	3	25.111111	8.370370	1.441	0.2555	1.9
A	2	45.166667	22.583333	3.888	0.0345	1.7
B	2	24.500000	12.250000	2.109	0.1433	1.7
AB	4	57.833333	14.458333	2.489	0.0702	2.9
ERROR	24	139.388889	5.807870			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY POD BLACK PERCENT Sep-19-13 136 DA-A (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	810.888889				
R	3	158.444444	52.814815	2.831	0.0676	3.5
A	2	170.388889	85.194444	15.621	0.0042	1.9
ERROR A	6	32.722222	5.453704	0.292	0.9328	6.1
B	2	37.388889	18.694444	1.002	0.3867	3.1
AB	4	76.111111	19.027778	1.020	0.4236	5.3
ERROR B	18	335.833333	18.657407			
FACTORIAL/POOLED ERROR AOV For ----- ARAHY POD BLACK PERCENT Sep-19-13 136 DA-A (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	810.888889				
R	3	158.444444	52.814815	3.439	0.0328	3.2
A	2	170.388889	85.194444	5.548	0.0105	2.7
B	2	37.388889	18.694444	1.217	0.3136	2.7
AB	4	76.111111	19.027778	1.239	0.3210	4.7
ERROR	24	368.555556	15.356481			

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COMPLETE SPLIT-PLOT AOV For ----- ARAHY POD BROWN PERCENT Sep-19-13 136 DA-A (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	3045.222222				
R	3	43.000000	14.333333	0.172	0.9140	7.5
A	2	117.722222	58.861111	0.747	0.5130	7.0
ERROR A	6	472.500000	78.750000	0.944	0.4886	12.9
B	2	520.722222	260.361111	3.121	0.0686	6.5
AB	4	389.777778	97.444444	1.168	0.3577	11.2
ERROR B	18	1501.500000	83.416667			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY POD BROWN PERCENT Sep-19-13 136 DA-A (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	3045.222222				
R	3	43.000000	14.333333	0.174	0.9128	7.3
A	2	117.722222	58.861111	0.716	0.4990	6.3
B	2	520.722222	260.361111	3.165	0.0602	6.3
AB	4	389.777778	97.444444	1.185	0.3427	11.0
ERROR	24	1974.000000	82.250000			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY POD OTHER PERCENT Sep-19-13 136 DA-A (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	3604.000000				
R	3	505.555556	168.518519	1.551	0.2359	8.5
A	2	18.666667	9.333333	0.213	0.8141	5.3
ERROR A	6	263.111111	43.851852	0.403	0.8671	14.8
B	2	681.166667	340.583333	3.134	0.0680	7.4
AB	4	179.166667	44.791667	0.412	0.7976	12.8
ERROR B	18	1956.333333	108.685185			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY POD OTHER PERCENT Sep-19-13 136 DA-A (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	3604.000000				
R	3	505.555556	168.518519	1.822	0.1700	7.8
A	2	18.666667	9.333333	0.101	0.9044	6.7
B	2	681.166667	340.583333	3.683	0.0403	6.7
AB	4	179.166667	44.791667	0.484	0.7470	11.6
ERROR	24	2219.444444	92.476852			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY PODTOT YIELD LBS/PLOT Sep-30-13 147 DA-A (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	76.174875				
R	3	11.689231	3.896410	3.772	0.0292	0.831
A	2	33.667117	16.833558	35.789	0.0005	0.544
ERROR A	6	2.822128	0.470355	0.455	0.8319	1.439
B	2	4.493450	2.246725	2.175	0.1425	0.719
AB	4	4.909233	1.227308	1.188	0.3496	1.246
ERROR B	18	18.593717	1.032984			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY PODTOT YIELD LBS/PLOT Sep-30-13 147 DA-A (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	76.174875				
R	3	11.689231	3.896410	4.367	0.0137	0.762
A	2	33.667117	16.833558	18.865	0.0001	0.660
B	2	4.493450	2.246725	2.518	0.1017	0.660
AB	4	4.909233	1.227308	1.375	0.2720	1.143
ERROR	24	21.415844	0.892327			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY PODTOT YIELD LBS/A Sep-30-13 147 DA-A TY1 1 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	5838409.209945				
R	3	895918.914639	298639.638213	3.772	0.0292	230.0
A	2	2580409.932001	1290204.966001	35.789	0.0005	150.6
ERROR A	6	216301.461728	36050.243621	0.455	0.8319	398.4
B	2	344399.644429	172199.822215	2.175	0.1425	199.2
AB	4	376267.281136	94066.820284	1.188	0.3496	345.0
ERROR B	18	1425111.976013	79172.887556			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY PODTOT YIELD LBS/A Sep-30-13 147 DA-A TY1 1 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	5838409.209945				
R	3	895918.914639	298639.638213	4.367	0.0137	210.9
A	2	2580409.932001	1290204.966001	18.865	0.0001	182.7
B	2	344399.644429	172199.822215	2.518	0.1017	182.7
AB	4	376267.281136	94066.820284	1.375	0.2720	316.4
ERROR	24	1641413.437740	68392.226573			

Part Rated

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

PODTOT = POD - TOTAL

PRM Data Type

TY1 = 276.848*[C15]

University of Georgia

PEANUT CULTIVAR RESPONSE TO PRE APPLICATIONS OF ZIDUA - YEAR 2												
Trial ID: PE-05-13		Study Dir.: PETER EURE										
Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code							-----	-----	-----	-----	-----	
Crop Code							ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	
Part Rated							PLANT -	PLANT -	PLANT -	PLANT -	PLANT -	
Rating Data Type							POPULATI	POPULATI	STUNTING	STUNTING	STUNTING	
Rating Unit							#/3 FT	#/3 FT	PERCENT	PERCENT	PERCENT	
Rating Date							May-16-13	May-24-13	May-16-13	May-26-13	Jul-22-13	
Crop Stage												
Crop Stage Scale												
Trt-Eval Interval							10 DA-A	18 DA-A	10 DA-A	20 DA-A	77 DA-A	
PRM Data Type												
# Subsamples, Dec.												
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	7	
1	GEORGIA-06G ZIDUA	85	WG	0.0 oz/a	PRE	A	101		14.0	14.0	0.0	
							207	13.0	15.0	0.0	0.0	0.0
							304	13.0	16.0	0.0	0.0	0.0
							407	10.0	11.0	0.0	0.0	0.0
							Mean =	12.5	14.0	0.0	0.0	0.0
2	GEORGIA-06G ZIDUA	85	WG	2.0 oz/a	PRE	A	104		15.0	14.0	10.0	
							201	11.0	14.0	0.0	5.0	0.0
							307	9.0	12.0	10.0	15.0	10.0
							404	9.0	15.0	10.0	10.0	0.0
							Mean =	11.0	13.8	7.5	8.8	7.5
3	GEORGIA-06G ZIDUA	85	WG	4.0 oz/a	PRE	A	107		13.0	15.0	10.0	
							204	13.0	12.0	10.0	10.0	10.0
							301	16.0	17.0	0.0	10.0	0.0
							401	9.0	13.0	0.0	5.0	5.0
							Mean =	12.8	14.3	5.0	8.8	6.3
4	GEORGIA GREENER ZIDUA	85	WG	0.0 oz/a	PRE	A	102		12.0	13.0	0.0	
							208	13.0	14.0	0.0	0.0	0.0
							305	11.0	15.0	0.0	0.0	0.0
							402	11.0	14.0	0.0	0.0	0.0
							Mean =	11.8	14.0	0.0	0.0	0.0
5	GEORGIA GREENER ZIDUA	85	WG	2.0 oz/a	PRE	A	105		12.0	12.0	10.0	
							202	10.0	10.0	0.0	0.0	5.0
							308	10.0	11.0	0.0	5.0	5.0
							405	10.0	16.0	0.0	5.0	10.0
							Mean =	10.5	12.3	2.5	5.0	8.8
6	GEORGIA GREENER ZIDUA	85	WG	4.0 oz/a	PRE	A	108		8.0	16.0	20.0	
							205	8.0	16.0	10.0	15.0	20.0
							302	8.0	17.0	0.0	5.0	0.0
							408	8.0	15.0	0.0	15.0	20.0
							Mean =	8.0	16.0	7.5	12.5	15.0
7	TIFGUARD ZIDUA	85	WG	0.0 oz/a	PRE	A	103		10.0	13.0	0.0	
							209	13.0	15.0	0.0	0.0	0.0
							306	9.0	12.0	0.0	0.0	0.0
							403	9.0	12.0	0.0	0.0	0.0
							Mean =	10.3	13.0	0.0	0.0	0.0
8	TIFGUARD ZIDUA	85	WG	2.0 oz/a	PRE	A	106		10.0	14.0	10.0	
							203	14.0	12.0	10.0	10.0	5.0
							309	5.0	12.0	0.0	10.0	5.0
							406	11.0	13.0	0.0	10.0	10.0
							Mean =	10.0	12.8	5.0	8.8	6.3
9	TIFGUARD ZIDUA	85	WG	4.0 oz/a	PRE	A	109		11.0	15.0	10.0	
							206	9.0	15.0	10.0	10.0	15.0
							303	10.0	14.0	10.0	5.0	0.0
							409	8.0	10.0	15.0	15.0	10.0
							Mean =	9.5	13.5	11.3	11.3	8.8

University of Georgia

PEANUT CULTIVAR RESPONSE TO PRE
APPLICATIONS OF ZIDUA - YEAR 2

Trial ID: PE-05-13 Study Dir.: PETER EURE
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated

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

PODTOT = POD - TOTAL

PRM Data Type

TY1 = 276.848*[C15]