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PEANUT RESPONSE TO POST APPLIED DIURON

Trial ID: PE-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3
1	30 DAP DIURON	4 L		0.0 oz/a		POST	A		-	101	205	301
2	30 DAP DIURON	4 L		4.0 oz/a		POST	A	3.125 mL/mx	1496.9 mL	102	206	308
3	30 DAP DIURON	4 L		8.0 oz/a		POST	A	6.249 mL/mx	1493.8 mL	103	209	310
4	30 DAP DIURON	4 L		16.0 oz/a		POST	A	12.5 mL/mx	1487.5 mL	104	201	311
5	57 DAP DIURON	4 L		0.0 oz/a		POST	B		-	105	212	302
6	57 DAP DIURON	4 L		4.0 oz/a		POST	B	3.125 mL/mx	1496.9 mL	106	207	303
7	57 DAP DIURON	4 L		8.0 oz/a		POST	B	6.249 mL/mx	1493.8 mL	107	202	306
8	57 DAP DIURON	4 L		16.0 oz/a		POST	B	12.5 mL/mx	1487.5 mL	108	203	305
9	93 DAP DIURON	4 L		0.0 oz/a		POST	C		-	109	211	304
10	93 DAP DIURON	4 L		4.0 oz/a		POST	C	3.125 mL/mx	1496.9 mL	110	204	312
11	93 DAP DIURON	4 L		8.0 oz/a		POST	C	6.249 mL/mx	1493.8 mL	111	210	307
12	93 DAP DIURON	4 L		16.0 oz/a		POST	C	12.5 mL/mx	1487.5 mL	112	208	309

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

STRONGARM @ 0.45 OZ/A + PROWL H2O @ 32 OZ/A - PRE - MAY 2

CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A + ACEPHATE @ 8 OZ/A - MAY 23

SELECT MAX @ 16 OZ/A + ADEPT @ 0.25% V/V - JUNE 4

DIGGING DATE: SEPTEMBER 18

HARVEST DATE: SEPTEMBER 23

HARVEST MOISTURE: 8.4%

YIELDS ADJUSTED TO 10%

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

SUMMARY:

1) GENERALLY, POST APPLICATIONS OF DIURON CAUSED VARIOUS DEGREES OF PEANUT INJURY IN THE FORM OF LEAF CHLOROSIS/NECROSIS, AND OVERALL PLANT STUNTING. THIS INJURY TENDED TO INCREASE WITH RATE.

2) DIURON APPLICATIONS MADE AT 93 DAP RESULTED IN SIGNIFICANT PEANUT DEFOLIATION RANGING FROM 10% TO 47% DEPENDING UPON RATE.

2) FOR PEANUT YIELD LOSS, THERE WAS A SIGNIFICANT INTERACTION BETWEEN TIME OF APPLICATION AND RATE (P=0.0006).

A) WHEN APPLIED AT 30 DAP, DIURON HAD NO EFFECT ON YIELD LOSS AT ANY RATE. YIELD LOSS WAS LESS THAN 7%.

B) WHEN APPLIED AT 57 DAP, ALL DIURON RATES CAUSED SIGNIFICANT YIELD LOSSES AS FOLLOWS: 4 OZ/A = 18% YIELD LOSS; 8 OZ/A = 29% YIELD LOSS; 16 OZ/A = 36% YIELD LOSS.

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C) WHEN APPLIED AT 93 DAP, ALL DIURON RATES CAUSED SIGNIFICANT YIELD LOSSES AS FOLLOWS: 4 OZ/A = 14% YIELD LOSS; 8 OZ/A = 28% YIELD LOSS; 16 OZ/A = 49% YIELD LOSS.

D) WHEN DIURON WAS APPLIED AT 4 OZ/A, YIELD LOSSES WERE GREATER WHEN APPLIED 57 OR 93 DAP.

E) DIURON APPLIED AT 8 OZ/A AND 16 OZ/A CAUSED GREATER YIELD LOSSES WHEN APPLIED AT 57 AND 93 DAP WHEN COMPARED TO 30 DAP. WHEN 8 OZ/A WAS APPLIED THERE WERE NO DIFFERENCES BETWEEN 57 AND 93 DAP. WHEN 16 OZ/A WAS APPLIED, GREATER YIELD LOSSES OCCURRED WHEN APPLIED 93 DAP (I.E. 93 > 57 > 30 DAP).

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GENERAL TRIAL INFORMATION

Study Director: _____ **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: E **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-30-19
Planting Method: MONOSEM TWIN ROW **Rate:** 3.5 **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:** 3
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** FACTOR
Trial Initiation Comments: 300 LBS/A 5-15-30; THIMET INFR @ 6.6 LBS/A; RANCONA
 VPD SEED TRT;36"-9" TWIN ROW SPACING

Previous: Crops Pesticides Year
 1. FIELD CORN 2018

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.58 **% Sand:** 94 **% Silt:** 2 **% Clay:** 4
pH: 6.2 **CEC:** 2.4 **Soil Name:** FUQUAY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-29-19	0.5		IN SPRINKLER - LATERAL MOVE		
2.	May-3-19	0.6		IN SPRINKLER - LATERAL MOVE		
3.	May-4-19	0.15		IN RAINFALL		
4.	May-6-19	0.5		IN SPRINKLER - LATERAL MOVE		
5.	May-9-19	0.195		IN RAINFALL		
6.	May-10-19	0.11		IN RAINFALL		
7.	May-11-19	0.65		IN RAINFALL		
8.	May-12-19	0.27		IN RAINFALL		
9.	May-17-19	0.62		IN RAINFALL		
10.	May-29-19	0.5		IN SPRINKLER - LATERAL MOVE		
11.	Jun-3-19	0.5		IN SPRINKLER - LATERAL MOVE		

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	May-30-19	Jun-26-19	Aug-1-19			
Time of Day:	8:00 A.M.	7:00 AM	7:45 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	30 DAP	57 DAP	93 DAP			
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE			
Air Temp., Unit:	71 F	74 F	72 F			
% Relative Humidity:	93	90	87			
Wind Velocity, Unit:	1 MPH	1 MPH	0 MPH			
Dew Presence (Y/N):	Y	Y	Y			
Water Hardness:	--	--	--			
Soil Temp., Unit:	79 F	81 F	80 F			
Soil Moisture:	OPTIMAL	OPTIMUM	OPTIMUM			
% Cloud Cover:	0	5	0			

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CROP STAGE AT EACH APPLICATION							
		A	B	C	D	E	F
Crop 1	Stage: ARAHY	10" TALL	18" TALL				
	Stage Scale:	R1; 4"	R4-R5	R6			
	Height, Unit:	10 IN	18 IN				

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	SAME AS A		SAME AS A			
Operating Pressure:	40	PSI					
Nozzle Type:	AIXR						
Nozzle Size:	11002						
Nozzle Spacing, Unit:	20	IN					
Nozzles/Row:							
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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Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Arahy Leaf - Chlorosi Percent	Arahy Stunting Percent	Arahy Leaf - Chlorosi Percent	Arahy Stunting Percent	Arahy Leaf - Chlorosi Percent	Arahy Leaf - Chlorosi Percent	Arahy Leaf - Necrosis Percent	Arahy Chlorosi Percent	Arahy Stunting Percent		
PRM Data Type						Jun-5-19	Jun-11-19	Jun-11-19	Jun-26-19	Jun-26-19	Jul-8-19	Jul-8-19	Jul-22-19	Jul-22-19		
# Subsamples, Dec.																
Trt No.	Treatment Name	Form	Form	Rate	Grow Unit	Appl Stg	Code	1	2	3	4	5	6	7	8	9
TABLE OF R MEANS																
Replicate 1						3.8	2.5	3.3	1.7	0.4	8.8	2.9	3.3	2.9		
Replicate 2						5.0	1.3	3.3	0.4	0.0	8.3	2.9	3.3	1.3		
Replicate 3						4.6	2.1	3.3	2.1	0.4	8.3	3.3	3.8	1.7		
TABLE OF A (TIMING) MEANS																
1 30 DAP						A	13.3 a	5.8 a	10.0 a	4.2 a	0.8 -	0.0 b	0.0 b	0.0 b	1.7 b	
2 57 DAP						B	0.0 b	0.0 b	0.0 b	0.0 b	0.0 -	25.4 a	9.2 a	10.4 a	4.2 a	
3 93 DAP						C	0.0 b	0.0 b	0.0 b	0.0 b	0.0 -	0.0 b	0.0 b	0.0 b	0.0 b	
LSD P=.10							1.92	1.92	. .	2.61	0.73	0.73	0.73	0.73	1.70	
Standard Deviation							2.20	2.20	0.00	3.00	0.83	0.83	0.83	0.83	1.95	
CV							49.61	113.39	0.00	216.33	300.00	9.84	27.27	24.00	100.51	
TABLE OF B (RATE) MEANS																
1 DIURON 4 L 0.0 oz/a POST							0.0 d	0.0 c	0.0 c	0.0 b	0.0 -	0.0 d	0.0 d	0.0 b	0.0 c	
2 DIURON 4 L 4.0 oz/a POST							3.3 c	0.6 c	3.3 b	1.1 b	0.0 -	5.6 c	1.7 c	3.3 a	1.1 bc	
3 DIURON 4 L 8.0 oz/a POST							5.6 b	2.8 b	3.3 b	1.1 b	0.6 -	11.7 b	3.3 b	5.6 a	2.8 ab	
4 DIURON 4 L 16.0 oz/a POST							8.9 a	4.4 a	6.7 a	3.3 a	0.6 -	16.7 a	7.2 a	5.0 a	3.9 a	
LSD P=.10							1.59	0.99	. .	1.17	1.17	0.76	0.76	2.29	2.11	
Standard Deviation							1.73	1.08	0.00	1.27	1.27	0.83	0.83	2.50	2.31	
CV							39.03	55.33	0.00	91.65	458.26	9.84	27.27	72.00	118.67	
TABLE OF A (TIMING) B (RATE) MEANS																
1 30 DAP 1 DIURON 4 L 0.0 oz/a POST						A	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	0.0 d	0.0 d	0.0 c	0.0 c	
2 57 DAP 1 DIURON 4 L 0.0 oz/a POST						B	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	0.0 d	0.0 d	0.0 c	0.0 c	
3 93 DAP 1 DIURON 4 L 0.0 oz/a POST						C	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	0.0 d	0.0 d	0.0 c	0.0 c	
1 30 DAP 2 DIURON 4 L 4.0 oz/a POST						A	10.0 c	1.7 c	10.0 b	3.3 b	0.0 -	0.0 d	0.0 d	0.0 c	1.7 bc	
2 57 DAP 2 DIURON 4 L 4.0 oz/a POST						B	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	16.7 c	5.0 c	10.0 b	1.7 bc	
3 93 DAP 2 DIURON 4 L 4.0 oz/a POST						C	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	0.0 d	0.0 d	0.0 c	0.0 c	
1 30 DAP 3 DIURON 4 L 8.0 oz/a POST						A	16.7 b	8.3 b	10.0 b	3.3 b	1.7 -	0.0 d	0.0 d	0.0 c	1.7 bc	
2 57 DAP 3 DIURON 4 L 8.0 oz/a POST						B	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	35.0 b	10.0 b	16.7 a	6.7 a	
3 93 DAP 3 DIURON 4 L 8.0 oz/a POST						C	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	0.0 d	0.0 d	0.0 c	0.0 c	
1 30 DAP 4 DIURON 4 L 16.0 oz/a POST						A	26.7 a	13.3 a	20.0 a	10.0 a	1.7 -	0.0 d	0.0 d	0.0 c	3.3 b	
2 57 DAP 4 DIURON 4 L 16.0 oz/a POST						B	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	50.0 a	21.7 a	15.0 a	8.3 a	
3 93 DAP 4 DIURON 4 L 16.0 oz/a POST						C	0.0 d	0.0 d	0.0 c	0.0 c	0.0 -	0.0 d	0.0 d	0.0 c	0.0 c	
LSD P=.10							2.52	1.57	. .	1.85	1.85	1.21	1.21	3.64	2.48	
Standard Deviation							1.73	1.08	0.00	1.27	1.27	0.83	0.83	2.50	1.70	
CV							39.03	55.33	0.00	91.65	458.26	9.84	27.27	72.00	87.48	

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trial ID: PE-02-19		Study Dir.: Investigator: Eric P. Prostko														
Location: PONDER FARM																
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	PRM Data Type	# Subsamples, Dec.	Arahy Stunting Percent Aug-8-19	Arahy Leaf - Chlorosi Percent Aug-8-19	Arahy Chlorosi Percent Aug-14-19	Arahy Necrosis Percent Aug-21-19	----- ARAHY Defoliat Percent Sep-16-19	----- ARAHY PLOT - YIELD LBS/PLOT Sep-23-19	----- ARAHY PLOT - YIELD LBS/PLOT Sep-23-19 T1	----- ARAHY PLOT - YIELD LBS/A Sep-23-19 TY2	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	10	11	12	13	14	15	16	17	
TABLE OF R MEANS																
Replicate 1								0.8	9.2	6.7	4.2	7.5	18.8	18.4	5445	
Replicate 2								0.8	9.6	7.5	4.2	6.7	19.5	19.1	5643	
Replicate 3								0.8	9.6	7.5	5.0	5.8	20.4	20.0	5911	
TABLE OF A (TIMING) MEANS																
1 30 DAP								A	0.0 b	0.4 c	0.0 b	0.0 b	0.0 b	22.8 a	22.3 a	6590 a
2 57 DAP								B	2.5 a	6.3 b	0.8 b	0.0 b	0.0 b	18.3 b	17.9 b	5289 b
3 93 DAP								C	0.0 b	21.7 a	20.8 a	13.3 a	20.0 a	17.7 b	17.3 b	5122 b
LSD P=.10									2.46	2.29	1.45	2.51	1.48	1.45	428.6	
Standard Deviation								0.00	2.83	2.64	1.67	2.89	1.70	1.67	492.4	
CV								0.00	29.92	36.49	37.50	43.30	8.69	8.69	8.7	
TABLE OF B (RATE) MEANS																
1 DIURON 4 L 0.0 oz/a POST								0.0 -	0.0 c	0.0 c	0.0 d	0.0 d	23.1 a	22.6 a	6681 a	
2 DIURON 4 L 4.0 oz/a POST								0.0 -	9.4 b	7.8 b	1.7 c	3.3 c	20.6 b	20.2 b	5960 b	
3 DIURON 4 L 8.0 oz/a POST								1.1 -	12.2 b	10.0 ab	5.6 b	7.8 b	18.3 c	17.9 c	5297 c	
4 DIURON 4 L 16.0 oz/a POST								2.2 -	16.1 a	11.1 a	10.6 a	15.6 a	16.3 d	16.0 d	4728 d	
LSD P=.10								2.49	3.71	2.33	0.88	1.97	1.83	1.79	528.7	
Standard Deviation								2.72	4.05	2.55	0.96	2.15	1.99	1.95	577.2	
CV								326.60	42.93	35.25	21.65	32.27	10.19	10.19	10.2	
TABLE OF A (TIMING) B (RATE) MEANS																
1 30 DAP 1 DIURON 4 L 0.0 oz/a POST								A	0.0 -	0.0 f	0.0 d	0.0 d	0.0 d	23.7 a	23.3 a	6874 a
2 57 DAP 1 DIURON 4 L 0.0 oz/a POST								B	0.0 -	0.0 f	0.0 d	0.0 d	0.0 d	23.0 a	22.5 a	6652 a
3 93 DAP 1 DIURON 4 L 0.0 oz/a POST								C	0.0 -	0.0 f	0.0 d	0.0 d	0.0 d	22.5 ab	22.1 ab	6517 ab
1 30 DAP 2 DIURON 4 L 4.0 oz/a POST								A	0.0 -	1.7 ef	0.0 d	0.0 d	0.0 d	23.1 a	22.7 a	6701 a
2 57 DAP 2 DIURON 4 L 4.0 oz/a POST								B	0.0 -	6.7 de	0.0 d	0.0 d	0.0 d	18.8 cd	18.5 cd	5455 cd
3 93 DAP 2 DIURON 4 L 4.0 oz/a POST								C	0.0 -	20.0 c	23.3 b	5.0 c	10.0 c	19.8 bc	19.4 bc	5725 bc
1 30 DAP 3 DIURON 4 L 8.0 oz/a POST								A	0.0 -	0.0 f	0.0 d	0.0 d	0.0 d	21.8 ab	21.4 ab	6314 ab
2 57 DAP 3 DIURON 4 L 8.0 oz/a POST								B	3.3 -	10.0 d	0.0 d	0.0 d	0.0 d	16.5 de	16.1 de	4770 de
3 93 DAP 3 DIURON 4 L 8.0 oz/a POST								C	0.0 -	26.7 b	30.0 a	16.7 b	23.3 b	16.6 de	16.3 de	4808 de
1 30 DAP 4 DIURON 4 L 16.0 oz/a POST								A	0.0 -	0.0 f	0.0 d	0.0 d	0.0 d	22.3 ab	21.9 ab	6469 ab
2 57 DAP 4 DIURON 4 L 16.0 oz/a POST								B	6.7 -	8.3 d	3.3 c	0.0 d	0.0 d	14.8 ef	14.5 ef	4277 ef
3 93 DAP 4 DIURON 4 L 16.0 oz/a POST								C	0.0 -	40.0 a	30.0 a	31.7 a	46.7 a	11.9 f	11.6 f	3437 f
LSD P=.10								3.96	6.44	3.28	1.40	3.13	2.92	2.86	846.7	
Standard Deviation								2.72	4.42	2.26	0.96	2.15	2.01	1.97	581.8	
CV								326.60	46.83	31.25	21.65	32.27	10.27	10.27	10.3	

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Trial ID: PE-02-19		Study Dir.:		
Location: PONDER FARM		Investigator: Eric P. Prostko		
Weed Code				-----
Crop Code				ARAHY
Part Rated				YIELD -
Rating Data Type				LOSS
Rating Unit				PERCENT
Rating Date				Sep-23-19
PRM Data Type				
# Subsamples, Dec.				- 1
Trt No.	Treatment Name	Form Conc	Rate Unit	Grow Stg
		Form Type	Rate Unit	Appl Code
				18
TABLE OF R MEANS				
Replicate 1				
18.4				
Replicate 2				
15.5				
Replicate 3				
13.4				
TABLE OF A (TIMING) MEANS				
1 30 DAP A 3.9 b				
2 57 DAP B 20.7 a				
3 93 DAP C 22.7 a				
LSD P=.10 6.60				
Standard Deviation 7.58				
CV 48.06				
TABLE OF B (RATE) MEANS				
1 DIURON 4 L 0.0 oz/a POST 0.0 d				
2 DIURON 4 L 4.0 oz/a POST 13.1 c				
3 DIURON 4 L 8.0 oz/a POST 20.8 b				
4 DIURON 4 L 16.0 oz/a POST 29.2 a				
LSD P=.10 4.82				
Standard Deviation 5.26				
CV 33.32				
TABLE OF A (TIMING) B (RATE) MEANS				
1 30 DAP A 0.0 e				
1 DIURON 4 L 0.0 oz/a POST				
2 57 DAP B 0.0 e				
1 DIURON 4 L 0.0 oz/a POST				
3 93 DAP C 0.0 e				
1 DIURON 4 L 0.0 oz/a POST				
1 30 DAP A 6.6 de				
2 DIURON 4 L 4.0 oz/a POST				
2 57 DAP B 18.4 c				
2 DIURON 4 L 4.0 oz/a POST				
3 93 DAP C 14.3 cd				
2 DIURON 4 L 4.0 oz/a POST				
1 30 DAP A 5.8 de				
3 DIURON 4 L 8.0 oz/a POST				
2 57 DAP B 28.6 b				
3 DIURON 4 L 8.0 oz/a POST				
3 93 DAP C 28.0 b				
3 DIURON 4 L 8.0 oz/a POST				
1 30 DAP A 3.2 e				
4 DIURON 4 L 16.0 oz/a POST				
2 57 DAP B 36.0 b				
4 DIURON 4 L 16.0 oz/a POST				
3 93 DAP C 48.5 a				
4 DIURON 4 L 16.0 oz/a POST				
LSD P=.10 8.65				
Standard Deviation 5.94				
CV 37.66				

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COMPLETE FACTORIAL AOV For Arahy Leaf Chlorosi Percent Jun-5-19 (Data Column 1)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	2638.888889					
R	2	9.722222	4.861111	1.615	0.2392		
A	2	1422.222222	711.111111	146.286	0.0002	1.9	
RA	4	19.444444	4.861111				
B	3	377.777778	125.925926	41.846	0.0002	1.6	
RB	6	18.055556	3.009259				
AB	6	755.555556	125.925926	41.846	0.0001	2.5	
RAB	12	36.111111	3.009259				
COMPLETE FACTORIAL AOV For Arahy Stunting Percent Jun-11-19 (Data Column 2)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	663.888889					
R	2	9.722222	4.861111	4.200	0.0414		
A	2	272.222222	136.111111	28.000	0.0044	1.9	
RA	4	19.444444	4.861111				
B	3	113.888889	37.962963	32.800	0.0004	1.0	
RB	6	6.944444	1.157407				
AB	6	227.777778	37.962963	32.800	0.0001	1.6	
RAB	12	13.888889	1.157407				
COMPLETE FACTORIAL AOV For Arahy Leaf Chlorosi Percent Jun-11-19 (Data Column 3)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	1400.000000					
R	2	0.000000	0.000000	0.000	1.0000		
A	2	800.000000	400.000000	0.000	1.0000		
RA	4	0.000000	0.000000				
B	3	200.000000	66.666667	0.000	1.0000		
RB	6	0.000000	0.000000				
AB	6	400.000000	66.666667	0.000	1.0000		
RAB	12	0.000000	0.000000				
COMPLETE FACTORIAL AOV For Arahy Stunting Percent Jun-26-19 (Data Column 4)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	380.555556					
R	2	18.055556	9.027778	5.571	0.0194		
A	2	138.888889	69.444444	7.692	0.0426	2.6	
RA	4	36.111111	9.027778				
B	3	52.777778	17.592593	10.857	0.0077	1.2	
RB	6	9.722222	1.620370				
AB	6	105.555556	17.592593	10.857	0.0003	1.9	
RAB	12	19.444444	1.620370				
COMPLETE FACTORIAL AOV For Arahy Leaf Chlorosi Percent Jun-26-19 (Data Column 5)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	47.222222					
R	2	1.388889	0.694444	0.429	0.6610		
A	2	5.555556	2.777778	4.000	0.1111	0.7	
RA	4	2.777778	0.694444				
B	3	2.777778	0.925926	0.571	0.6542	1.2	
RB	6	9.722222	1.620370				
AB	6	5.555556	0.925926	0.571	0.7461	1.9	
RAB	12	19.444444	1.620370				
COMPLETE FACTORIAL AOV For Arahy Leaf Chlorosi Percent Jul-8-19 (Data Column 6)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	9440.972222					
R	2	1.388889	0.694444	1.000	0.3966		
A	2	5168.055556	2584.027778	3721.000	0.0001	0.7	
RA	4	2.777778	0.694444				
B	3	1418.750000	472.916667	681.000	0.0001	0.8	
RB	6	4.166667	0.694444				
AB	6	2837.500000	472.916667	681.000	0.0001	1.2	
RAB	12	8.333333	0.694444				

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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PEANUT RESPONSE TO POST APPLIED DIURON							
Trial ID: PE-02-19		Study Dir.:					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE FACTORIAL AOV For Arah Leaf Necrosis Percent Jul-8-19 (Data Column 7)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	1463.888889					
R	2	1.388889	0.694444	1.000	0.3966		
A	2	672.222222	336.111111	484.000	0.0001	0.7	
RA	4	2.777778	0.694444				
B	3	258.333333	86.111111	124.000	0.0001	0.8	
RB	6	4.166667	0.694444				
AB	6	516.666667	86.111111	124.000	0.0001	1.2	
RAB	12	8.333333	0.694444				
COMPLETE FACTORIAL AOV For Arah Chlorosi Percent Jul-22-19 (Data Column 8)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	1490.972222					
R	2	1.388889	0.694444	0.111	0.8957		
A	2	868.055556	434.027778	625.000	0.0001	0.7	
RA	4	2.777778	0.694444				
B	3	168.750000	56.250000	9.000	0.0122	2.3	
RB	6	37.500000	6.250000				
AB	6	337.500000	56.250000	9.000	0.0007	3.6	
RAB	12	75.000000	6.250000				
COMPLETE FACTORIAL AOV For Arah Stunting Percent Jul-22-19 (Data Column 9)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	363.888889					
R	2	18.055556	9.027778	3.120	0.0811		
A	2	105.555556	52.777778	13.818	0.0160	1.7	
RA	4	15.277778	3.819444				
B	3	80.555556	26.851852	5.043	0.0444	2.1	
RB	6	31.944444	5.324074				
AB	6	77.777778	12.962963	4.480	0.0131	2.5	
RAB	12	34.722222	2.893519				
COMPLETE FACTORIAL AOV For Arah Stunting Percent Aug-8-19 (Data Column 10)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	275.000000					
R	2	0.000000	0.000000	0.000	1.0000		
A	2	50.000000	25.000000	0.000	1.0000		
RA	4	0.000000	0.000000				
B	3	30.555556	10.185185	1.375	0.3376	2.5	
RB	6	44.444444	7.407407				
AB	6	61.111111	10.185185	1.375	0.3001	4.0	
RAB	12	88.888889	7.407407				
COMPLETE FACTORIAL AOV For Arah Leaf Chlorosi Percent Aug-8-19 (Data Column 11)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	5938.888889					
R	2	1.388889	0.694444	0.036	0.9652		
A	2	2893.055556	1446.527778	181.130	0.0001	2.5	
RA	4	31.944444	7.986111				
B	3	1272.222222	424.074074	25.803	0.0008	3.7	
RB	6	98.611111	16.435185				
AB	6	1406.944444	234.490741	11.988	0.0002	6.4	
RAB	12	234.722222	19.560185				
COMPLETE FACTORIAL AOV For Arah Chlorosi Percent Aug-14-19 (Data Column 12)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	5322.222222					
R	2	5.555556	2.777778	0.545	0.5933		
A	2	3338.888889	1669.444444	240.400	0.0001	2.3	
RA	4	27.777778	6.944444				
B	3	677.777778	225.925926	34.857	0.0003	2.3	
RB	6	38.888889	6.481481				
AB	6	1172.222222	195.370370	38.364	0.0001	3.3	
RAB	12	61.111111	5.092593				

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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PEANUT RESPONSE TO POST APPLIED DIURON							
Trial ID: PE-02-19		Study Dir.:					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE FACTORIAL AOV For Arahy Necrosis Percent Aug-21-19 (Data Column 13)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	3238.888889					
R	2	5.555556	2.777778	3.000	0.0878		
A	2	1422.222222	711.111111	256.000	0.0001	1.5	
RA	4	11.111111	2.777778				
B	3	594.444444	198.148148	214.000	0.0001	0.9	
RB	6	5.555556	0.925926				
AB	6	1188.888889	198.148148	214.000	0.0001	1.4	
RAB	12	11.111111	0.925926				
COMPLETE FACTORIAL AOV For ----- ARAHY Defoliat Percent Sep-16-19 (Data Column 14)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	7000.000000					
R	2	16.666667	8.333333	1.800	0.2072		
A	2	3200.000000	1600.000000	192.000	0.0001	2.5	
RA	4	33.333333	8.333333				
B	3	1222.222222	407.407407	88.000	0.0001	2.0	
RB	6	27.777778	4.629630				
AB	6	2444.444444	407.407407	88.000	0.0001	3.1	
RAB	12	55.555556	4.629630				
COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-23-19 1 (Data Column 15)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	592.063056					
R	2	15.637222	7.818611	1.938	0.1865		
A	2	184.707222	92.353611	31.953	0.0035	1.5	
RA	4	11.561111	2.890278				
B	3	228.883056	76.294352	19.215	0.0018	1.8	
RB	6	23.822778	3.970463				
AB	6	79.032778	13.172130	3.265	0.0385	2.9	
RAB	12	48.418889	4.034907				
COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-23-19 T1 1 (Data Column 16)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	568.617359					
R	2	15.017988	7.508994	1.938	0.1865		
A	2	177.392816	88.696408	31.953	0.0035	1.5	
RA	4	11.103291	2.775823				
B	3	219.819287	73.273096	19.215	0.0018	1.8	
RB	6	22.879396	3.813233				
AB	6	75.903080	12.650513	3.265	0.0385	2.9	
RAB	12	46.501501	3.875125				
COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/A Sep-23-19 TY2 0 (Data Column 17)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	49672882.653064					
R	2	1311931.047168	655965.523584	1.938	0.1865		
A	2	15496559.173091	7748279.586546	31.953	0.0035	429	
RA	4	969953.639520	242488.409880				
B	3	19202821.478563	6400940.492854	19.215	0.0018	529	
RB	6	1998682.461136	333113.743523				
AB	6	6630688.842116	1105114.807019	3.265	0.0385	847	
RAB	12	4062246.011470	338520.500956				
COMPLETE FACTORIAL AOV For ----- ARAHY YIELD LOSS PERCENT Sep-23-19 1 (Data Column 18)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	35	9652.796389					
R	2	152.335556	76.167778	2.157	0.1584		
A	2	2567.823889	1283.911944	22.326	0.0068	6.6	
RA	4	230.034444	57.508611				
B	3	4161.849722	1387.283241	50.192	0.0001	4.8	
RB	6	165.837778	27.639630				
AB	6	1951.136111	325.189352	9.208	0.0006	8.6	
RAB	12	423.778889	35.314907				
Part Rated							
Leaf = LEAF / FOLIAGE							
PRM Data Type							
T1 = [C15]*0.98							
TY2 = 295.5627*[16]							

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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PEANUT RESPONSE TO POST APPLIED DIURON														
Trial ID: PE-02-19		Study Dir.:												
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.	Arahy Stunting Percent Jul-22-19	Arahy Stunting Percent Aug-8-19	Arahy Leaf - Chlorosi Percent Aug-8-19	Arahy Chlorosi Percent Aug-14-19	Arahy Necrosis Percent Aug-21-19	----- ARAHY Defoliat Percent Sep-16-19	----- ARAHY PLOT - YIELD LBS/PLOT Sep-23-19
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code Plot	9	10	11	12	13	14	15
1	30 DAP DIURON	4 L		0.0 oz/a	POST	A	101	0.0	0.0	0.0	0.0	0.0	0.0	23.1
							205	0.0	0.0	0.0	0.0	0.0	0.0	22.5
							301	0.0	0.0	0.0	0.0	0.0	0.0	25.6
							Mean =	0.0	0.0	0.0	0.0	0.0	0.0	23.7
2	30 DAP DIURON	4 L		4.0 oz/a	POST	A	102	5.0	0.0	0.0	0.0	0.0	0.0	21.9
							206	0.0	0.0	0.0	0.0	0.0	0.0	27.8
							308	0.0	0.0	5.0	0.0	0.0	0.0	19.7
							Mean =	1.7	0.0	1.7	0.0	0.0	0.0	23.1
3	30 DAP DIURON	4 L		8.0 oz/a	POST	A	103	5.0	0.0	0.0	0.0	0.0	0.0	22.7
							209	0.0	0.0	0.0	0.0	0.0	0.0	19.4
							310	0.0	0.0	0.0	0.0	0.0	0.0	23.3
							Mean =	1.7	0.0	0.0	0.0	0.0	0.0	21.8
4	30 DAP DIURON	4 L		16.0 oz/a	POST	A	104	5.0	0.0	0.0	0.0	0.0	0.0	21.7
							201	0.0	0.0	0.0	0.0	0.0	0.0	22.9
							311	5.0	0.0	0.0	0.0	0.0	0.0	22.4
							Mean =	3.3	0.0	0.0	0.0	0.0	0.0	22.3
5	57 DAP DIURON	4 L		0.0 oz/a	POST	B	105	0.0	0.0	0.0	0.0	0.0	0.0	23.5
							212	0.0	0.0	0.0	0.0	0.0	0.0	20.6
							302	0.0	0.0	0.0	0.0	0.0	0.0	24.8
							Mean =	0.0	0.0	0.0	0.0	0.0	0.0	23.0
6	57 DAP DIURON	4 L		4.0 oz/a	POST	B	106	5.0	0.0	10.0	0.0	0.0	0.0	17.1
							207	0.0	0.0	10.0	0.0	0.0	0.0	17.8
							303	0.0	0.0	0.0	0.0	0.0	0.0	21.6
							Mean =	1.7	0.0	6.7	0.0	0.0	0.0	18.8
7	57 DAP DIURON	4 L		8.0 oz/a	POST	B	107	5.0	0.0	10.0	0.0	0.0	0.0	14.8
							202	10.0	10.0	10.0	0.0	0.0	0.0	17.1
							306	5.0	0.0	10.0	0.0	0.0	0.0	17.5
							Mean =	6.7	3.3	10.0	0.0	0.0	0.0	16.5
8	57 DAP DIURON	4 L		16.0 oz/a	POST	B	108	10.0	10.0	10.0	5.0	0.0	0.0	11.4
							203	5.0	0.0	5.0	0.0	0.0	0.0	16.7
							305	10.0	10.0	10.0	5.0	0.0	0.0	16.2
							Mean =	8.3	6.7	8.3	3.3	0.0	0.0	14.8
9	93 DAP DIURON	4 L		0.0 oz/a	POST	C	109	0.0	0.0	0.0	0.0	0.0	0.0	22.4
							211	0.0	0.0	0.0	0.0	0.0	0.0	21.3
							304	0.0	0.0	0.0	0.0	0.0	0.0	23.8
							Mean =	0.0	0.0	0.0	0.0	0.0	0.0	22.5
10	93 DAP DIURON	4 L		4.0 oz/a	POST	C	110	0.0	0.0	10.0	15.0	5.0	10.0	20.1
							204	0.0	0.0	30.0	30.0	5.0	10.0	19.6
							312	0.0	0.0	20.0	25.0	5.0	10.0	19.6
							Mean =	0.0	0.0	20.0	23.3	5.0	10.0	19.8
11	93 DAP DIURON	4 L		8.0 oz/a	POST	C	111	0.0	0.0	30.0	30.0	15.0	30.0	15.4
							210	0.0	0.0	20.0	30.0	15.0	20.0	16.5
							307	0.0	0.0	30.0	30.0	20.0	20.0	17.9
							Mean =	0.0	0.0	26.7	30.0	16.7	23.3	16.6
12	93 DAP DIURON	4 L		16.0 oz/a	POST	C	112	0.0	0.0	40.0	30.0	30.0	50.0	11.5
							208	0.0	0.0	40.0	30.0	30.0	50.0	11.6
							309	0.0	0.0	40.0	30.0	35.0	40.0	12.5
							Mean =	0.0	0.0	40.0	30.0	31.7	46.7	11.9

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PEANUT RESPONSE TO POST APPLIED DIURON											
Trial ID: PE-02-19		Study Dir.:									
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.	----- ARAHY PLOT - YIELD LBS/PLOT Sep-23-19 T1 - 1	----- ARAHY PLOT - YIELD LBS/A Sep-23-19 TY2 - 0	----- ARAHY YIELD - LOSS PERCENT Sep-23-19	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Appl Code	Plot	16	17	18
1	30 DAP DIURON	4 L		0.0 oz/a	POST	A	101	22.6	6691	0.0	
							205	22.1	6517	0.0	
							301	25.1	7415	0.0	
							Mean =	23.3	6874	0.0	
2	30 DAP DIURON	4 L		4.0 oz/a	POST	A	102	21.5	6343	5.1	
							206	27.2	8052	0.0	
							308	19.3	5706	14.6	
							Mean =	22.7	6701	6.6	
3	30 DAP DIURON	4 L		8.0 oz/a	POST	A	103	22.2	6575	1.6	
							209	19.0	5619	15.9	
							310	22.8	6749	0.0	
							Mean =	21.4	6314	5.8	
4	30 DAP DIURON	4 L		16.0 oz/a	POST	A	104	21.3	6285	5.9	
							201	22.4	6633	0.7	
							311	22.0	6488	2.9	
							Mean =	21.9	6469	3.2	
5	57 DAP DIURON	4 L		0.0 oz/a	POST	B	105	23.0	6807	0.0	
							212	20.2	5967	0.0	
							302	24.3	7183	0.0	
							Mean =	22.5	6652	0.0	
6	57 DAP DIURON	4 L		4.0 oz/a	POST	B	106	16.8	4953	25.9	
							207	17.4	5156	22.8	
							303	21.2	6256	6.4	
							Mean =	18.5	5455	18.4	
7	57 DAP DIURON	4 L		8.0 oz/a	POST	B	107	14.5	4287	35.8	
							202	16.8	4953	25.9	
							306	17.2	5069	24.1	
							Mean =	16.1	4770	28.6	
8	57 DAP DIURON	4 L		16.0 oz/a	POST	B	108	11.2	3302	50.6	
							203	16.4	4837	27.6	
							305	15.9	4692	29.7	
							Mean =	14.5	4277	36.0	
9	93 DAP DIURON	4 L		0.0 oz/a	POST	C	109	22.0	6488	0.0	
							211	20.9	6170	0.0	
							304	23.3	6894	0.0	
							Mean =	22.1	6517	0.0	
10	93 DAP DIURON	4 L		4.0 oz/a	POST	C	110	19.7	5822	12.9	
							204	19.2	5677	15.0	
							312	19.2	5677	15.0	
							Mean =	19.4	5725	14.3	
11	93 DAP DIURON	4 L		8.0 oz/a	POST	C	111	15.1	4461	33.2	
							210	16.2	4779	28.5	
							307	17.5	5185	22.4	
							Mean =	16.3	4808	28.0	
12	93 DAP DIURON	4 L		16.0 oz/a	POST	C	112	11.3	3331	50.1	
							208	11.4	3360	49.7	
							309	12.3	3621	45.8	
							Mean =	11.6	3437	48.5	

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PEANUT RESPONSE TO POST APPLIED DIURON

Trial ID: PE-02-19 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated
Leaf = LEAF / FOLIAGE
PRM Data Type
T1 = [C15]*0.98
TY2 = 295.5627*[16]