

University of Georgia

PEANUT RESPONSE TO POST APPLIED DIURON

YEAR 2

Trial ID: PE-15-20

Study Dir.:

Location: PONDER FARM

Investigator: Eric P. Prostko

Reps: 4

Plots: 6 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.5 L (total for 4 plots; minimum=0.782 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	Rep 4
1	29 DAP DIURON	4 L		0.0 oz/a		POST	A		-	101	205	301	401
2	29 DAP DIURON	4 L		4.0 oz/a		POST	A	3.125 mL/mx	1496.9 mL	102	206	308	402
3	29 DAP DIURON	4 L		8.0 oz/a		POST	A	6.249 mL/mx	1493.8 mL	103	209	310	403
4	29 DAP DIURON	4 L		16.0 oz/a		POST	A	12.5 mL/mx	1487.5 mL	104	201	311	404
5	56 DAP DIURON	4 L		0.0 oz/a		POST	B		-	105	212	302	405
6	56 DAP DIURON	4 L		4.0 oz/a		POST	B	3.125 mL/mx	1496.9 mL	106	207	303	406
7	56 DAP DIURON	4 L		8.0 oz/a		POST	B	6.249 mL/mx	1493.8 mL	107	202	306	407
8	56 DAP DIURON	4 L		16.0 oz/a		POST	B	12.5 mL/mx	1487.5 mL	108	203	305	408
9	88 DAP DIURON	4 L		0.0 oz/a		POST	C		-	109	211	304	409
10	88 DAP DIURON	4 L		4.0 oz/a		POST	C	3.125 mL/mx	1496.9 mL	110	204	312	410
11	88 DAP DIURON	4 L		8.0 oz/a		POST	C	6.249 mL/mx	1493.8 mL	111	210	307	411
12	88 DAP DIURON	4 L		16.0 oz/a		POST	C	12.5 mL/mx	1487.5 mL	112	208	309	412

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

STRONGARM @ 0.45 OZ/A + PROWL H2O @ 32 OZ/A + VALOR @ 3 OZ/A - PRE - 04/28/20
 SELECT MAX @ 12 OZ/A + NIS - JUNE 1/JUNE 26/JULY 1
 WARRANT @ 48 OZ/A - JULY 1

DIGGING DATE: SEPTEMBER 22

HARVEST DATE: OCTOBER 2

HARVEST MOISTURE:

YIELDS ADJUSTED TO 10%

2% YIELD DEDUCTION FOR FM

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) FOR PEANUT YIELD LOSS, THERE WAS A SIGNIFICANT INTERACTION BETWEEN TIME OF APPLICATION AND RATE (P=0.0001).

A) WHEN APPLIED AT 29 DAP, ALL DIURON RATES CAUSED SIGNIFICANT PEANUT YIELD LOSSES AS FOLLOWS: 4 OZ/A = 10% YIELD LOSS; 8 OZ/A = 11% YIELD LOSS; 16 OZ/A = 16% YIELD LOSS.

B) WHEN APPLIED AT 56 DAP, ALL DIURON RATES CAUSED SIGNIFICANT YIELD LOSSES AS FOLLOWS: 4 OZ/A = 29% YIELD LOSS; 8 OZ/A = 29% YIELD LOSS; 16 OZ/A = 60% YIELD LOSS.

C) WHEN APPLIED AT 88 DAP, ALL DIURON RATES CAUSED SIGNIFICANT YIELD LOSSES AS FOLLOWS: 4 OZ/A = 33% YIELD LOSS; 8 OZ/A = 46% YIELD LOSS; 16 OZ/A = 65% YIELD LOSS.

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D) WHEN DIURON WAS APPLIED AT 4 OZ/A, YIELD LOSSES WERE GREATER WHEN APPLIED 56 OR 88 DAP WHEN COMPARED TO 29 DAP. NO DIFFERENCE BETWEEN 56 DAP AND 88 DAP.

E) DIURON APPLIED AT 8 OZ/A AND 16 OZ/A CAUSED GREATER YIELD LOSSES WHEN APPLIED AT 56 AND 88 DAP WHEN COMPARED TO 30 DAP. WHEN 8 OZ/A OR 16 OZ/A WAS APPLIED, GREATEST YIELD LOSSES OCCURRED WHEN APPLIED 88 DAP (I.E. 88 > 56 > 29 DAP)

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YEAR 2

Trial ID: PE-15-20

Study Dir.:

Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: _____ **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. _____ **2.** _____

Crop 1: ARAHY PEANUT **Variety:** GA-06G **Planting Date:** May-4-20
Planting Method: MONOSEM TWIN ROW **Rate:** 3.5 SEED/FT **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** DRY **Emergence Date:** _____

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

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; 1 TON LIME/A PREPLANT; 1000 LBS/A GYPSUM

Previous: Crops _____ **Pesticides** _____ **Year** 2019
 1. COTTON _____

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.61 **% Sand:** 94 **% Silt:** 2 **% Clay:** 4
pH: 6.0 **CEC:** 2.2 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-5-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
2. May-7-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
3. May-13-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
4. May-14-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
5. May-17-20	_____	0.11	IN	RAINFALL	_____	_____
6. May-20-20	_____	1.3	IN	RAINFALL	_____	_____
7. May-22-20	_____	1.2	IN	RAINFALL	_____	_____
8. May-26-20	_____	0.26	IN	RAINFALL	_____	_____
9. May-28-20	_____	0.41	IN	RAINFALL	_____	_____
10. May-29-20	_____	0.19	IN	RAINFALL	_____	_____
11. Jun-6-20	_____	0.07	IN	RAINFALL	_____	_____
12. Jun-7-20	_____	0.59	IN	RAINFALL	_____	_____
13. Jun-9-20	_____	0.15	IN	RAINFALL	_____	_____
14. Jun-12-20	_____	2.67	IN	RAINFALL	_____	_____
15. Jun-19-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
16. Jun-22-20	_____	0.61	IN	RAINFALL	_____	_____
17. Jun-24-20	_____	0.65	IN	SPRINKLER - LATERAL MOVE	_____	_____
18. Jul-5-20	_____	0.5	IN	RAINFALL	_____	_____
19. Jul-6-20	_____	0.6	IN	RAINFALL	_____	_____

Overall Moisture Conditions:

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

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PEANUT RESPONSE TO POST APPLIED DIURON

YEAR 2

Trial ID: PE-15-20

Study Dir.:

Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Jun-2-20	Jun-29-20	Jul-31-20			
Time of Day:	7:30 AM	7:30 AM	6:45 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	29 DAP	56 DAP	88 DAP			
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE			
Air Temp., Unit:	68 F	76 F	74 F			
% Relative Humidity:	85	95	96			
Wind Velocity, Unit:	2 MPH	2 MPH	0 MPH			
Dew Presence (Y/N):	Y	Y	N			
Water Hardness:	--	--	--			
Soil Temp., Unit:	77 F	81 F	77 F			
Soil Moisture:	OPTIMUM	OPTIMUM	WET			
% Cloud Cover:	60	100	85			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:	ARAHY	6" TALL	14" TALL			
Stage Scale:	5"W;V6	R4	R6			
Height, Unit:	3 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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PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2									
Trial ID: PE-15-20		Study Dir.:							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code		Arahy Plant - Stunting Percent Jun-9-20	Arahy Leaf - Chlorosis Percent Jun-9-20	Arahy Plant - Stunting Percent Jun-25-20	Arahy Plant - Chlorosis Percent Jun-25-20	Arahy Plant - Stunting Percent Jul-7-20	Arahy Plant - Chlorosis Percent Jul-7-20	Arahy Plant - Necrosis Percent Jul-7-20	Arahy Plant - Stunting Percent Jul-22-20
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 Rate Unit Stg Code		1	2	3	4	5	6	7	8
TABLE OF R MEANS									
Replicate 1		2.1	5.4	4.6	2.9	5.8	15.0	5.8	6.3
Replicate 2		1.7	5.4	3.8	3.3	7.1	15.0	6.3	5.8
Replicate 3		0.8	5.4	2.9	2.9	6.3	15.0	5.8	5.8
Replicate 4		2.5	5.0	5.0	4.2	4.6	15.4	5.8	7.9
TABLE OF A (TIMING) MEANS									
1 29 DAP A		5.3 a	15.9 a	12.2 a	10.0 a	13.8 a	0.6 b	0.0 b	7.2 b
2 56 DAP B		0.0 b	0.0 b	0.0 b	0.0 b	4.1 b	44.7 a	17.8 a	12.2 a
3 88 DAP C		0.0 b	0.0 b	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b	0.0 c
LSD P=.10		1.69	0.50	2.20	1.40	3.02	0.86	0.50	2.79
Standard Deviation		2.47	0.72	3.20	2.04	4.39	1.25	0.72	4.06
CV		139.20	13.58	78.78	61.24	73.93	8.28	12.15	62.88
TABLE OF B (RATE) MEANS									
1 DIURON 4 L 0.0 oz/a POST		0.0 b	0.0 c	0.0 c	0.0 b	0.0 c	0.0 c	0.0 c	0.0 c
2 DIURON 4 L 4.0 oz/a POST		2.1 a	5.4 b	2.9 b	4.2 a	5.4 b	17.1 b	1.3 c	4.2 b
3 DIURON 4 L 8.0 oz/a POST		2.5 a	5.8 b	5.4 ab	4.2 a	8.3 a	21.7 a	5.4 b	6.7 b
4 DIURON 4 L 16.0 oz/a POST		2.5 a	10.0 a	7.9 a	5.0 a	10.0 a	21.7 a	17.1 a	15.0 a
LSD P=.10		1.84	0.90	2.55	1.14	2.89	0.54	1.77	2.57
Standard Deviation		2.47	1.20	3.41	1.52	3.86	0.72	2.37	3.44
CV		139.20	22.64	83.95	45.64	64.95	4.78	39.90	53.20
TABLE OF A (TIMING) B (RATE) MEANS									
1 29 DAP 1 DIURON 4 L 0.0 oz/a POST A		0.0 b	0.0 c	0.0 d	0.0 c	0.0 e	0.0 d	0.0 d	0.0 e
2 56 DAP 1 DIURON 4 L 0.0 oz/a POST B		0.0 b	0.0 c	0.0 d	0.0 c	0.0 e	0.0 d	0.0 d	0.0 e
3 88 DAP 1 DIURON 4 L 0.0 oz/a POST C		0.0 b	0.0 c	0.0 d	0.0 c	0.0 e	0.0 d	0.0 d	0.0 e
1 29 DAP 2 DIURON 4 L 4.0 oz/a POST A		6.3 a	16.3 b	8.8 c	12.5 b	12.5 c	2.5 c	0.0 d	5.0 d
2 56 DAP 2 DIURON 4 L 4.0 oz/a POST B		0.0 b	0.0 c	0.0 d	0.0 c	3.8 de	48.8 b	3.8 c	7.5 cd
3 88 DAP 2 DIURON 4 L 4.0 oz/a POST C		0.0 b	0.0 c	0.0 d	0.0 c	0.0 e	0.0 d	0.0 d	0.0 e
1 29 DAP 3 DIURON 4 L 8.0 oz/a POST A		7.5 a	17.5 b	16.3 b	12.5 b	18.8 b	0.0 d	0.0 d	8.8 cd
2 56 DAP 3 DIURON 4 L 8.0 oz/a POST B		0.0 b	0.0 c	0.0 d	0.0 c	6.3 d	65.0 a	16.3 b	11.3 bc
3 88 DAP 3 DIURON 4 L 8.0 oz/a POST C		0.0 b	0.0 c	0.0 d	0.0 c	0.0 e	0.0 d	0.0 d	0.0 e
1 29 DAP 4 DIURON 4 L 16.0 oz/a POST A		7.5 a	30.0 a	23.8 a	15.0 a	23.8 a	0.0 d	0.0 d	15.0 b
2 56 DAP 4 DIURON 4 L 16.0 oz/a POST B		0.0 b	0.0 c	0.0 d	0.0 c	6.3 d	65.0 a	51.3 a	30.0 a
3 88 DAP 4 DIURON 4 L 16.0 oz/a POST C		0.0 b	0.0 c	0.0 d	0.0 c	0.0 e	0.0 d	0.0 d	0.0 e
LSD P=.10		3.02	1.47	4.18	1.87	4.39	1.53	2.91	3.79

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 YEAR 2								
Trial ID: PE-15-20 Study Dir.: Location: PONDER FARM Investigator: Eric P. Prostko								
Weed Code			----	----	----	----	----	----
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated	Plant -	Leaf -	Plant -	Plant -	Plant -	Plant -	Plant -	Plant -
Rating Data Type	Stunting	Chlorosis	Stunting	Chlorosi	Stunting	Chlorosi	Necrosis	Stunting
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	Jun-9-20	Jun-9-20	Jun-25-20	Jun-25-20	Jul-7-20	Jul-7-20	Jul-7-20	Jul-22-20
PRM Data Type								
# Subsamples, Dec.								
Trt Treatment Form Form Rate Grow Appl								
No. Name Conc Type Rate Unit Stg Code	1	2	3	4	5	6	7	8
Standard Deviation	2.47	1.20	3.41	1.52	3.58	1.25	2.37	3.09
CV	139.20	22.64	83.95	45.64	60.23	8.28	39.90	47.85

Means followed by same letter or symbol do not significantly differ ($P \geq 10$, 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 YEAR 2								
Trial ID: PE-15-20 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 Plant - Chlorosi Percent Jul-22-20	----- Arahy Plant - Necrosis Percent Jul-22-20	----- Arahy Plant - Stunting Percent Aug-4-20	----- Arahy Leaf - Chlorosi Percent Aug-4-20	----- Arahy Leaf - Necrosis Percent Aug-4-20	----- Arahy Plant - Stunting Percent Aug-12-20	----- Arahy Leaf - Chlorosi Percent Aug-12-20	
Trt Treatment Form Form Rate Grow Appl No. Name Conc Type Rate Unit Stg Code	9	10	11	12	13	14	15	
TABLE OF R MEANS								
Replicate 1	3.3	5.4	8.3	5.8	2.1	7.9	6.7	
Replicate 2	3.8	5.4	7.1	8.3	2.1	5.4	6.7	
Replicate 3	2.9	5.4	6.7	8.8	2.1	5.4	6.7	
Replicate 4	3.8	5.8	5.0	9.2	2.1	7.5	6.7	
TABLE OF A (TIMING) MEANS								
1 29 DAP A	0.0 b	0.0 b	5.0 b	0.6 c	0.0 b	4.1 b	0.0 b	
2 56 DAP B	10.3 a	16.6 a	15.3 a	6.6 b	6.3 a	11.6 a	0.0 b	
3 88 DAP C	0.0 b	0.0 b	0.0 c	16.9 a	0.0 b	4.1 b	20.0 a	
LSD P=.10	0.95	0.50	4.64	2.20	.	4.54	.	
Standard Deviation	1.38	0.72	6.76	3.20	0.00	6.61	0.00	
CV	40.20	13.07	99.80	39.90	0.00	100.79	0.00	
TABLE OF B (RATE) MEANS								
1 DIURON 4 L 0.0 oz/a POST	0.0 c	0.0 d	0.0 c	0.0 c	0.0 b	0.0 d	0.0 c	
2 DIURON 4 L 4.0 oz/a POST	5.4 a	2.1 c	5.0 b	9.6 b	0.0 b	3.8 c	10.0 a	
3 DIURON 4 L 8.0 oz/a POST	5.4 a	3.3 b	6.3 b	10.8 ab	0.0 b	6.7 b	10.0 a	
4 DIURON 4 L 16.0 oz/a POST	2.9 b	16.7 a	15.8 a	11.7 a	8.3 a	15.8 a	6.7 b	
LSD P=.10	0.90	0.54	2.65	2.04	.	1.77	.	
Standard Deviation	1.20	0.72	3.54	2.73	0.00	2.37	0.00	
CV	34.99	13.07	52.34	34.06	0.00	36.10	0.00	
TABLE OF A (TIMING) B (RATE) MEANS								
1 29 DAP A	0.0 c	0.0 d	0.0 d	0.0 d	0.0 b	0.0 d	0.0 c	
1 DIURON 4 L 0.0 oz/a POST								
2 56 DAP B	0.0 c	0.0 d	0.0 d	0.0 d	0.0 b	0.0 d	0.0 c	
1 DIURON 4 L 0.0 oz/a POST								
3 88 DAP C	0.0 c	0.0 d	0.0 d	0.0 d	0.0 b	0.0 d	0.0 c	
1 DIURON 4 L 0.0 oz/a POST								
1 29 DAP A	0.0 c	0.0 d	5.0 cd	2.5 d	0.0 b	3.8 bcd	0.0 c	
2 DIURON 4 L 4.0 oz/a POST								
2 56 DAP B	16.3 a	6.3 c	10.0 bc	7.5 c	0.0 b	5.0 bcd	0.0 c	
2 DIURON 4 L 4.0 oz/a POST								
3 88 DAP C	0.0 c	0.0 d	0.0 d	18.8 b	0.0 b	2.5 cd	30.0 a	
2 DIURON 4 L 4.0 oz/a POST								
1 29 DAP A	0.0 c	0.0 d	5.0 cd	0.0 d	0.0 b	5.0 bcd	0.0 c	
3 DIURON 4 L 8.0 oz/a POST								
2 56 DAP B	16.3 a	10.0 b	13.8 b	7.5 c	0.0 b	8.8 b	0.0 c	
3 DIURON 4 L 8.0 oz/a POST								
3 88 DAP C	0.0 c	0.0 d	0.0 d	25.0 a	0.0 b	6.3 bc	30.0 a	
3 DIURON 4 L 8.0 oz/a POST								
1 29 DAP A	0.0 c	0.0 d	10.0 bc	0.0 d	0.0 b	7.5 bc	0.0 c	
4 DIURON 4 L 16.0 oz/a POST								
2 56 DAP B	8.8 b	50.0 a	37.5 a	11.3 c	25.0 a	32.5 a	0.0 c	
4 DIURON 4 L 16.0 oz/a POST								
3 88 DAP C	0.0 c	0.0 d	0.0 d	23.8 a	0.0 b	7.5 bc	20.0 b	
4 DIURON 4 L 16.0 oz/a POST								
LSD P=.10	1.47	0.88	5.70	4.30	.	5.63	.	

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 YEAR 2							
Trial ID: PE-15-20 Study Dir.: Location: PONDER FARM Investigator: Eric P. Prostko							
Weed Code	----	----	----	----	----	----	----
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated	Plant -	Plant -	Plant -	Leaf -	Leaf -	Plant -	Leaf -
Rating Data Type	Chlorosi	Necrosis	Stunting	Chlorosi	Necrosis	Stunting	Chlorosi
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	Jul-22-20	Jul-22-20	Aug-4-20	Aug-4-20	Aug-4-20	Aug-12-20	Aug-12-20
PRM Data Type							
# Subsamples, Dec.							
Trt Treatment Form Form Rate Grow Appl							
No. Name Conc Type Rate Unit Stg Code	9	10	11	12	13	14	15
Standard Deviation	1.20	0.72	4.65	3.51	0.00	4.59	0.00
CV	34.99	13.07	68.62	43.77	0.00	69.94	0.00

Means followed by same letter or symbol do not significantly differ ($P \geq .10$, 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 YEAR 2							
Trial ID: PE-15-20		Study Dir.:					
Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code		Arahy	-----	-----	-----	-----	-----
Crop Code		Leaf -	Arahy	Leaf -	Leaf -	DIRTY -	CLEAN -
Part Rated		Necrosis	Stunting	Chlorosi	Necrosis	YIELD	YIELD
Rating Data Type		Percent	Percent	Percent	Percent	LBS/PLOT	LBS/A
Rating Unit		Aug-12-20	Sep-2-20	Sep-2-20	Sep-2-20	Oct-2-20	Oct-2-20
Rating Date						T1	TY2
PRM Data Type						- 1	- 0
# Subsamples, Dec.							
Trt Treatment Form Form	Rate Grow Appl						
No. Name Conc Type Rate Unit Stg Code		16	17	18	19	20	21
TABLE OF R MEANS							
Replicate 1		6.7	5.4	3.8	5.4	13.5	13.2
Replicate 2		6.7	5.4	3.3	5.0	13.7	13.4
Replicate 3		7.1	5.0	3.8	5.0	13.9	13.6
Replicate 4		6.7	6.3	2.5	5.4	12.8	12.5
TABLE OF A (TIMING) MEANS							
1 29 DAP	A	0.0 c	0.6 c	0.0 b	0.0 b	16.3 a	16.0 a
2 56 DAP	B	6.3 b	6.6 b	0.0 b	0.0 b	12.6 b	12.4 b
3 88 DAP	C	14.1 a	9.4 a	10.0 a	15.6 a	11.4 c	11.2 c
LSD P=.10		0.50	1.88	1.40	0.57	0.98	0.96
Standard Deviation		0.72	2.73	2.04	0.83	1.42	1.40
CV		10.66	49.49	61.24	16.00	10.58	10.58
TABLE OF B (RATE) MEANS							
1 DIURON 4 L 0.0 oz/a POST		0.0 d	0.0 d	0.0 d	0.0 d	17.9 a	17.6 a
2 DIURON 4 L 4.0 oz/a POST		3.3 c	2.1 c	6.7 a	2.5 c	13.6 b	13.3 b
3 DIURON 4 L 8.0 oz/a POST		5.4 b	3.8 b	5.4 b	5.4 b	12.8 c	12.5 c
4 DIURON 4 L 16.0 oz/a POST		18.3 a	16.3 a	1.3 c	12.9 a	9.5 d	9.3 d
LSD P=.10		0.54	1.26	1.02	1.08	0.66	0.65
Standard Deviation		0.72	1.68	1.36	1.44	0.88	0.87
CV		10.66	30.50	40.82	27.71	6.57	6.57
TABLE OF A (TIMING) B (RATE) MEANS							
1 29 DAP 1 DIURON 4 L 0.0 oz/a POST	A	0.0 e	0.0 e	0.0 d	0.0 d	18.0 a	17.7 a
2 56 DAP 1 DIURON 4 L 0.0 oz/a POST	B	0.0 e	0.0 e	0.0 d	0.0 d	17.9 a	17.5 a
3 88 DAP 1 DIURON 4 L 0.0 oz/a POST	C	0.0 e	0.0 e	0.0 d	0.0 d	17.9 a	17.5 a
1 29 DAP 2 DIURON 4 L 4.0 oz/a POST	A	0.0 e	0.0 e	0.0 d	0.0 d	16.2 b	15.9 b
2 56 DAP 2 DIURON 4 L 4.0 oz/a POST	B	0.0 e	0.0 e	0.0 d	0.0 d	12.7 d	12.5 d
3 88 DAP 2 DIURON 4 L 4.0 oz/a POST	C	10.0 d	6.3 d	20.0 a	7.5 c	11.9 d	11.7 d
1 29 DAP 3 DIURON 4 L 8.0 oz/a POST	A	0.0 e	0.0 e	0.0 d	0.0 d	16.1 bc	15.8 bc
2 56 DAP 3 DIURON 4 L 8.0 oz/a POST	B	0.0 e	0.0 e	0.0 d	0.0 d	12.7 d	12.5 d
3 88 DAP 3 DIURON 4 L 8.0 oz/a POST	C	16.3 c	11.3 c	16.3 b	16.3 b	9.6 e	9.4 e
1 29 DAP 4 DIURON 4 L 16.0 oz/a POST	A	0.0 e	2.5 e	0.0 d	0.0 d	15.1 c	14.8 c
2 56 DAP 4 DIURON 4 L 16.0 oz/a POST	B	25.0 b	26.3 a	0.0 d	0.0 d	7.2 f	7.0 f
3 88 DAP 4 DIURON 4 L 16.0 oz/a POST	C	30.0 a	20.0 b	3.8 c	38.8 a	6.3 f	6.1 f
LSD P=.10		0.88	2.91	1.67	1.77	1.04	1.02

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.

University of Georgia

PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2								
Trial ID: PE-15-20 Study Dir.: Location: PONDER FARM Investigator: Eric P. Prostko								
Weed Code	Arahy	-----	-----	-----	-----	-----	-----	-----
Crop Code	Leaf -	Arahy	Leaf -	Leaf -	Leaf -	DIRTY -	CLEAN -	CLEAN -
Part Rated	Necrosis	Stunting	Chlorosi	Necrosis	Necrosis	YIELD	YIELD	YIELD
Rating Data Type	Percent	Percent	Percent	Percent	Percent	LBS/PLOT	LBS/PLOT	LBS/A
Rating Unit	Aug-12-20	Sep-2-20	Sep-2-20	Sep-2-20	Sep-2-20	Oct-2-20	Oct-2-20	Oct-2-20
Rating Date								
PRM Data Type							T1	TY2
# Subsamples, Dec.						- 1	- 1	- 0
Trt Treatment Form Form Rate Grow Appl								
No. Name Conc Type Rate Unit Stg Code	16	17	18	19	20	21	22	
Standard Deviation	0.72	2.37	1.36	1.44	0.85	0.84	237.7	
CV	10.66	42.92	40.82	27.71	6.33	6.33	6.3	

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.

University of Georgia

PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2					
Trial ID: PE-15-20		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 YIELD - LOSS PERCENT Oct-2-20 - 1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg Appl Code
					23
TABLE OF R MEANS					
Replicate 1				26.1	
Replicate 2				22.8	
Replicate 3				25.7	
Replicate 4				25.1	
TABLE OF A (TIMING) MEANS					
1 29 DAP				A	9.3 c
2 56 DAP				B	29.3 b
3 88 DAP				C	36.2 a
LSD P=.10				5.68	
Standard Deviation				8.27	
CV				33.17	
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				24.1 c	
3 DIURON 4 L 8.0 oz/a POST				28.6 b	
4 DIURON 4 L 16.0 oz/a POST				47.0 a	
LSD P=.10				3.83	
Standard Deviation				5.12	
CV				20.56	
TABLE OF A (TIMING) B (RATE) MEANS					
1 29 DAP 1 DIURON 4 L 0.0 oz/a POST				A	0.0 g
2 56 DAP 1 DIURON 4 L 0.0 oz/a POST				B	0.0 g
3 88 DAP 1 DIURON 4 L 0.0 oz/a POST				C	0.0 g
1 29 DAP 2 DIURON 4 L 4.0 oz/a POST				A	10.3 f
2 56 DAP 2 DIURON 4 L 4.0 oz/a POST				B	28.7 d
3 88 DAP 2 DIURON 4 L 4.0 oz/a POST				C	33.4 d
1 29 DAP 3 DIURON 4 L 8.0 oz/a POST				A	10.8 f
2 56 DAP 3 DIURON 4 L 8.0 oz/a POST				B	28.6 d
3 88 DAP 3 DIURON 4 L 8.0 oz/a POST				C	46.4 c
1 29 DAP 4 DIURON 4 L 16.0 oz/a POST				A	16.2 e
2 56 DAP 4 DIURON 4 L 16.0 oz/a POST				B	59.9 b
3 88 DAP 4 DIURON 4 L 16.0 oz/a POST				C	65.0 a
LSD P=.10				5.14	

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 YEAR 2	
Trial ID: PE-15-20 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	Oct-2-20
PRM Data Type	
# Subsamples, Dec.	- 1
Trt Treatment Form Form Rate Grow Appl	
No. Name Conc Type Rate Unit Stg Code	23
Standard Deviation	4.19
CV	16.82

Means followed by same letter or symbol do not significantly differ ($P \geq .10$, 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 YEAR 2						
Trial ID: PE-15-20		Study Dir.:				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For Arahya Plant Stunting Percent Jun-9-20 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	674.479167				
R	3	18.229167	6.076389	1.000	0.4155	
A	2	301.041667	150.520833	24.771	0.0013	1.7
RA	6	36.458333	6.076389			
B	3	51.562500	17.187500	2.829	0.0989	1.8
RB	9	54.687500	6.076389			
AB	6	103.125000	17.187500	2.829	0.0405	3.0
RAB	18	109.375000	6.076389			
COMPLETE FACTORIAL AOV For Arahya Leaf Chlrosis Percent Jun-9-20 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	4570.312500				
R	3	1.562500	0.520833	0.360	0.7826	
A	2	2709.375000	1354.687500	2601.000	0.0001	0.5
RA	6	3.125000	0.520833			
B	3	605.729167	201.909722	139.560	0.0001	0.9
RB	9	13.020833	1.446759			
AB	6	1211.458333	201.909722	139.560	0.0001	1.5
RAB	18	26.041667	1.446759			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Stunting Percent Jun-25-20 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	3232.812500				
R	3	30.729167	10.243056	0.881	0.4697	
A	2	1584.375000	792.187500	77.339	0.0001	2.2
RA	6	61.458333	10.243056			
B	3	414.062500	138.020833	11.866	0.0018	2.6
RB	9	104.687500	11.631944			
AB	6	828.125000	138.020833	11.866	0.0001	4.2
RAB	18	209.375000	11.631944			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Chlorosi Percent Jun-25-20 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	1716.666667				
R	3	12.500000	4.166667	1.800	0.1833	
A	2	1066.666667	533.333333	128.000	0.0001	1.4
RA	6	25.000000	4.166667			
B	3	183.333333	61.111111	26.400	0.0001	1.1
RB	9	20.833333	2.314815			
AB	6	366.666667	61.111111	26.400	0.0001	1.9
RAB	18	41.666667	2.314815			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Stunting Percent Jul-7-20 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	3482.812500				
R	3	39.062500	13.020833	1.018	0.4078	
A	2	1596.875000	798.437500	41.432	0.0003	3.0
RA	6	115.625000	19.270833			
B	3	693.229167	231.076389	15.537	0.0007	2.9
RB	9	133.854167	14.872685			
AB	6	673.958333	112.326389	8.783	0.0001	4.4
RAB	18	230.208333	12.789352			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Chlorosi Percent Jul-7-20 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	32424.479167				
R	3	1.562500	0.520833	0.333	0.8014	
A	2	21007.291667	10503.645833	6722.334	0.0001	0.9
RA	6	9.375000	1.562500			
B	3	3818.229167	1272.743056	2443.667	0.0001	0.5
RB	9	4.687500	0.520833			
AB	6	7555.208333	1259.201389	805.889	0.0001	1.5
RAB	18	28.125000	1.562500			

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.

University of Georgia

PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2							
Trial ID: PE-15-20		Study Dir.:					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE FACTORIAL AOV For ---- Arahya Plant Necrosis Percent Jul-7-20 (Data Column 7)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	10082.812500					
R	3	1.562500	0.520833	0.093	0.9631		
A	2	3384.375000	1692.187500	3249.000	0.0001	0.5	
RA	6	3.125000	0.520833				
B	3	2180.729167	726.909722	129.495	0.0001	1.8	
RB	9	50.520833	5.613426				
AB	6	4361.458333	726.909722	129.495	0.0001	2.9	
RAB	18	101.041667	5.613426				
COMPLETE FACTORIAL AOV For ---- Arahya Plant Stunting Percent Jul-22-20 (Data Column 8)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	4047.916667					
R	3	35.416667	11.805556	1.236	0.3256		
A	2	1201.041667	600.520833	36.411	0.0004	2.8	
RA	6	98.958333	16.493056				
B	3	1439.583333	479.861111	40.647	0.0001	2.6	
RB	9	106.250000	11.805556				
AB	6	994.791667	165.798611	17.364	0.0001	3.8	
RAB	18	171.875000	9.548611				
COMPLETE FACTORIAL AOV For ---- Arahya Plant Chlorosi Percent Jul-22-20 (Data Column 9)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	1907.812500					
R	3	5.729167	1.909722	1.320	0.2988		
A	2	1134.375000	567.187500	297.000	0.0001	0.9	
RA	6	11.458333	1.909722				
B	3	239.062500	79.687500	55.080	0.0001	0.9	
RB	9	13.020833	1.446759				
AB	6	478.125000	79.687500	55.080	0.0001	1.5	
RAB	18	26.041667	1.446759				
COMPLETE FACTORIAL AOV For ---- Arahya Plant Necrosis Percent Jul-22-20 (Data Column 10)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	9111.979167					
R	3	1.562500	0.520833	1.000	0.4155		
A	2	2926.041667	1463.020833	2809.000	0.0001	0.5	
RA	6	3.125000	0.520833				
B	3	2055.729167	685.243056	1315.667	0.0001	0.5	
RB	9	4.687500	0.520833				
AB	6	4111.458333	685.243056	1315.667	0.0001	0.9	
RAB	18	9.375000	0.520833				
COMPLETE FACTORIAL AOV For ---- Arahya Plant Stunting Percent Aug-4-20 (Data Column 11)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	6024.479167					
R	3	68.229167	22.743056	1.054	0.3932		
A	2	1951.041667	975.520833	21.365	0.0019	4.6	
RA	6	273.958333	45.659722				
B	3	1576.562500	525.520833	41.848	0.0001	2.7	
RB	9	113.020833	12.557870				
AB	6	1653.125000	275.520833	12.764	0.0001	5.7	
RAB	18	388.541667	21.585648				
COMPLETE FACTORIAL AOV For ---- Arahya Leaf Chlorosi Percent Aug-4-20 (Data Column 12)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	4486.979167					
R	3	80.729167	26.909722	2.183	0.1253		
A	2	2163.541667	1081.770833	105.610	0.0001	2.2	
RA	6	61.458333	10.243056				
B	3	1055.729167	351.909722	47.140	0.0001	2.0	
RB	9	67.187500	7.465278				
AB	6	836.458333	139.409722	11.310	0.0001	4.3	
RAB	18	221.875000	12.326389				

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 YEAR 2						
Trial ID: PE-15-20		Study Dir.:				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For ---- Arahya Leaf Necrosis Percent Aug-4-20 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	2291.666667				
R	3	0.000000	0.000000	0.000	1.0000	
A	2	416.666667	208.333333	0.000	1.0000	.
RA	6	0.000000	0.000000			
B	3	625.000000	208.333333	0.000	1.0000	.
RB	9	0.000000	0.000000			
AB	6	1250.000000	208.333333	0.000	1.0000	.
RAB	18	0.000000	0.000000			
COMPLETE FACTORIAL AOV For Arahya Plant Stunting Percent Aug-12-20 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	4107.812500				
R	3	64.062500	21.354167	1.014	0.4097	
A	2	600.000000	300.000000	6.857	0.0282	4.5
RA	6	262.500000	43.750000			
B	3	1643.229167	547.743056	97.577	0.0001	1.8
RB	9	50.520833	5.613426			
AB	6	1108.333333	184.722222	8.769	0.0001	5.6
RAB	18	379.166667	21.064815			
COMPLETE FACTORIAL AOV For Arahya Leaf Chlorosi Percent Aug-12-20 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	6666.666667				
R	3	0.000000	0.000000	0.000	1.0000	
A	2	4266.666667	2133.333333	0.000	1.0000	.
RA	6	0.000000	0.000000			
B	3	800.000000	266.666667	0.000	1.0000	.
RB	9	0.000000	0.000000			
AB	6	1600.000000	266.666667	0.000	1.0000	.
RAB	18	0.000000	0.000000			
COMPLETE FACTORIAL AOV For Arahya Leaf Necrosis Percent Aug-12-20 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	5374.479167				
R	3	1.562500	0.520833	1.000	0.4155	
A	2	1588.541667	794.270833	1525.000	0.0001	0.5
RA	6	3.125000	0.520833			
B	3	2318.229167	772.743056	1483.667	0.0001	0.5
RB	9	4.687500	0.520833			
AB	6	1448.958333	241.493056	463.667	0.0001	0.9
RAB	18	9.375000	0.520833			
COMPLETE FACTORIAL AOV For ----- Arahya Stunting Percent Sep-2-20 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	3761.979167				
R	3	9.895833	3.298611	0.588	0.6309	
A	2	638.541667	319.270833	42.767	0.0003	1.9
RA	6	44.791667	7.465278			
B	3	1926.562500	642.187500	226.469	0.0001	1.3
RB	9	25.520833	2.835648			
AB	6	1015.625000	169.270833	30.155	0.0001	2.9
RAB	18	101.041667	5.613426			
COMPLETE FACTORIAL AOV For ----- Arahya Leaf Chlorosi Percent Sep-2-20 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	2266.666667				
R	3	12.500000	4.166667	2.250	0.1174	
A	2	1066.666667	533.333333	128.000	0.0001	1.4
RA	6	25.000000	4.166667			
B	3	370.833333	123.611111	66.750	0.0001	1.0
RB	9	16.666667	1.851852			
AB	6	741.666667	123.611111	66.750	0.0001	1.7
RAB	18	33.333333	1.851852			

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.

University of Georgia

PEANUT RESPONSE TO POST APPLIED DIURON							
YEAR 2							
Trial ID: PE-15-20		Study Dir.:					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE FACTORIAL AOV For ----- Arahya Leaf Necrosis Percent Sep-2-20 (Data Column 19)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	6047.916667					
R	3	2.083333	0.694444	0.333	0.8014		
A	2	2604.166667	1302.083333	1875.000	0.0001	0.6	
RA	6	4.166667	0.694444				
B	3	1127.083333	375.694444	180.333	0.0001	1.1	
RB	9	18.750000	2.083333				
AB	6	2254.166667	375.694444	180.333	0.0001	1.8	
RAB	18	37.500000	2.083333				
COMPLETE FACTORIAL AOV For ----- ARAHY DIRTY YIELD LBS/PLOT Oct-2-20 1 (Data Column 20)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	789.238125					
R	3	8.675625	2.891875	3.982	0.0244		
A	2	211.121250	105.560625	52.091	0.0002	1.0	
RA	6	12.158750	2.026458				
B	3	434.562292	144.854097	185.529	0.0001	0.7	
RB	9	7.026875	0.780764				
AB	6	102.622083	17.103681	23.553	0.0001	1.0	
RAB	18	13.071250	0.726181				
COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/PLOT Oct-2-20 T1 1 (Data Column 21)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	757.984295					
R	3	8.332070	2.777357	3.982	0.0244		
A	2	202.760849	101.380424	52.091	0.0002	1.0	
RA	6	11.677264	1.946211				
B	3	417.353625	139.117875	185.529	0.0001	0.6	
RB	9	6.748611	0.749846				
AB	6	98.558249	16.426375	23.553	0.0001	1.0	
RAB	18	12.553629	0.697424				
COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/A Oct-2-20 TY2 0 (Data Column 22)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	61391123.731076					
R	3	674836.086789	224945.362263	3.982	0.0244		
A	2	16422129.608867	8211064.804434	52.091	0.0002	273	
RA	6	945772.007232	157628.667872				
B	3	33802557.899199	11267519.299733	185.529	0.0001	184	
RB	9	546587.574653	60731.952739				
AB	6	7982489.461539	1330414.910257	23.553	0.0001	291	
RAB	18	1016751.092796	56486.171822				
COMPLETE FACTORIAL AOV For ----- ARAHY YIELD LOSS PERCENT Oct-2-20 1 (Data Column 23)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	24005.170000					
R	3	78.335000	26.111667	1.486	0.2520		
A	2	6240.413750	3120.206875	45.655	0.0002	5.7	
RA	6	410.061250	68.343542				
B	3	13469.396667	4489.798889	171.034	0.0001	3.8	
RB	9	236.258333	26.250926				
AB	6	3254.434583	542.405764	30.870	0.0001	5.1	
RAB	18	316.270417	17.570579				
<u>Part Rated</u>							
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)							
Leaf = LEAF / FOLIAGE							
<u>PRM Data Type</u>							
T1 = [20]*0.98							
TY2 = 284.592*[21]							

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 YEAR 2												
Trial ID: PE-15-20				Study Dir.:								
Location: PONDER FARM				Investigator: Eric P. Prostko								
Weed Code						----		----		----		----
Crop Code				Arahy		Arahy		Arahy		Arahy		Arahy
Part Rated				Plant -		Leaf -		Plant -		Plant -		Plant -
Rating Data Type				Stunting		Chlorosis		Stunting		Chlorosis		Necrosis
Rating Unit				Percent		Percent		Percent		Percent		Percent
Rating Date				Jun-9-20		Jun-9-20		Jun-25-20		Jul-7-20		Jul-7-20
PRM Data Type												
# Subsamples, Dec.												
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4
11	88 DAP						C	111	0.0	0.0	0.0	0.0
	DIURON	4 L		8.0 oz/a	POST			210	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0
								411	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
12	88 DAP						C	112	0.0	0.0	0.0	0.0
	DIURON	4 L		16.0 oz/a	POST			208	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0
								412	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0

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PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2														
Trial ID: PE-15-20		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.														
Trt Treatment Form Form														
No. Name	Conc	Type	Rate	Grow Unit	Appl Stg	Code	Plot	8	9	10	11	12	13	14
1 29 DAP					A	101		0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIURON	4 L		0.0 oz/a	POST		205		0.0	0.0	0.0	0.0	0.0	0.0	0.0
						301		0.0	0.0	0.0	0.0	0.0	0.0	0.0
						401		0.0	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	0.0
2 29 DAP					A	102		0.0	0.0	0.0	10.0	0.0	0.0	0.0
DIURON	4 L		4.0 oz/a	POST		206		10.0	0.0	0.0	5.0	0.0	0.0	5.0
						308		0.0	0.0	0.0	0.0	0.0	0.0	0.0
						402		10.0	0.0	0.0	5.0	10.0	0.0	10.0
						Mean =		5.0	0.0	0.0	5.0	2.5	0.0	3.8
3 29 DAP					A	103		10.0	0.0	0.0	15.0	0.0	0.0	10.0
DIURON	4 L		8.0 oz/a	POST		209		5.0	0.0	0.0	0.0	0.0	0.0	0.0
						310		10.0	0.0	0.0	5.0	0.0	0.0	0.0
						403		10.0	0.0	0.0	0.0	0.0	0.0	10.0
						Mean =		8.8	0.0	0.0	5.0	0.0	0.0	5.0
4 29 DAP					A	104		20.0	0.0	0.0	15.0	0.0	0.0	15.0
DIURON	4 L		16.0 oz/a	POST		201		10.0	0.0	0.0	10.0	0.0	0.0	0.0
						311		5.0	0.0	0.0	0.0	0.0	0.0	0.0
						404		25.0	0.0	0.0	15.0	0.0	0.0	15.0
						Mean =		15.0	0.0	0.0	10.0	0.0	0.0	7.5
5 56 DAP					B	105		0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIURON	4 L		0.0 oz/a	POST		212		0.0	0.0	0.0	0.0	0.0	0.0	0.0
						302		0.0	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	0.0
						Mean =		0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 56 DAP					B	106		5.0	15.0	5.0	10.0	0.0	0.0	10.0
DIURON	4 L		4.0 oz/a	POST		207		5.0	15.0	5.0	10.0	10.0	0.0	0.0
						303		10.0	15.0	5.0	15.0	10.0	0.0	10.0
						406		10.0	20.0	10.0	5.0	10.0	0.0	0.0
						Mean =		7.5	16.3	6.3	10.0	7.5	0.0	5.0
7 56 DAP					B	107		10.0	15.0	10.0	20.0	0.0	0.0	15.0
DIURON	4 L		8.0 oz/a	POST		202		10.0	20.0	10.0	20.0	10.0	0.0	10.0
						306		15.0	15.0	10.0	10.0	10.0	0.0	10.0
						407		10.0	15.0	10.0	5.0	10.0	0.0	0.0
						Mean =		11.3	16.3	10.0	13.8	7.5	0.0	8.8
8 56 DAP					B	108		30.0	10.0	50.0	30.0	10.0	25.0	30.0
DIURON	4 L		16.0 oz/a	POST		203		30.0	10.0	50.0	40.0	10.0	25.0	40.0
						305		30.0	5.0	50.0	50.0	10.0	25.0	30.0
						408		30.0	10.0	50.0	30.0	15.0	25.0	30.0
						Mean =		30.0	8.8	50.0	37.5	11.3	25.0	32.5
9 88 DAP					C	109		0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIURON	4 L		0.0 oz/a	POST		211		0.0	0.0	0.0	0.0	0.0	0.0	0.0
						304		0.0	0.0	0.0	0.0	0.0	0.0	0.0
						409		0.0	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	0.0
10 88 DAP					C	110		0.0	0.0	0.0	0.0	20.0	0.0	5.0
DIURON	4 L		4.0 oz/a	POST		204		0.0	0.0	0.0	0.0	20.0	0.0	0.0
						312		0.0	0.0	0.0	0.0	20.0	0.0	0.0
						410		0.0	0.0	0.0	0.0	15.0	0.0	5.0
						Mean =		0.0	0.0	0.0	0.0	18.8	0.0	2.5

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PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2										
Trial ID: PE-15-20		Study Dir.:								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code		----		----		----		----		----
Crop Code		Arahy		Arahy		Arahy		Arahy		Arahy
Part Rated		Plant -		Plant -		Plant -		Leaf -		Plant -
Rating Data Type		Stunting		Chlorosi		Necrosis		Chlorosi		Stunting
Rating Unit		Percent		Percent		Percent		Percent		Percent
Rating Date		Jul-22-20		Jul-22-20		Jul-22-20		Aug-4-20		Aug-12-20
PRM Data Type										
# Subsamples, Dec.										
Trt Treatment Form Form	Rate Grow Appl									
No. Name	Conc Type Rate Unit Stg Code Plot	8	9	10	11	12	13	14		
11 88 DAP	C 111	0.0	0.0	0.0	0.0	20.0	0.0	5.0		
DIURON	210	0.0	0.0	0.0	0.0	20.0	0.0	5.0		
	307	0.0	0.0	0.0	0.0	30.0	0.0	5.0		
	411	0.0	0.0	0.0	0.0	30.0	0.0	10.0		
	Mean =	0.0	0.0	0.0	0.0	25.0	0.0	6.3		
12 88 DAP	C 112	0.0	0.0	0.0	0.0	20.0	0.0	5.0		
DIURON	208	0.0	0.0	0.0	0.0	30.0	0.0	5.0		
	309	0.0	0.0	0.0	0.0	25.0	0.0	10.0		
	412	0.0	0.0	0.0	0.0	20.0	0.0	10.0		
	Mean =	0.0	0.0	0.0	0.0	23.8	0.0	7.5		

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PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2											
Trial ID: PE-15-20 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.											- 1
Trt Treatment Form Form	Rate Grow	Appl									
No. Name	Conc Type	Rate Unit	Stg	Code Plot							
					15	16	17	18	19	20	
1 29 DAP				A	101	0.0	0.0	0.0	0.0	0.0	19.3
DIURON	4 L	0.0 oz/a	POST		205	0.0	0.0	0.0	0.0	0.0	17.0
					301	0.0	0.0	0.0	0.0	0.0	18.5
					401	0.0	0.0	0.0	0.0	0.0	17.3
					Mean =	0.0	0.0	0.0	0.0	0.0	18.0
2 29 DAP				A	102	0.0	0.0	0.0	0.0	0.0	18.5
DIURON	4 L	4.0 oz/a	POST		206	0.0	0.0	0.0	0.0	0.0	16.6
					308	0.0	0.0	0.0	0.0	0.0	15.7
					402	0.0	0.0	0.0	0.0	0.0	13.9
					Mean =	0.0	0.0	0.0	0.0	0.0	16.2
3 29 DAP				A	103	0.0	0.0	0.0	0.0	0.0	16.7
DIURON	4 L	8.0 oz/a	POST		209	0.0	0.0	0.0	0.0	0.0	15.5
					310	0.0	0.0	0.0	0.0	0.0	16.7
					403	0.0	0.0	0.0	0.0	0.0	15.4
					Mean =	0.0	0.0	0.0	0.0	0.0	16.1
4 29 DAP				A	104	0.0	0.0	5.0	0.0	0.0	15.2
DIURON	4 L	16.0 oz/a	POST		201	0.0	0.0	0.0	0.0	0.0	16.8
					311	0.0	0.0	0.0	0.0	0.0	15.3
					404	0.0	0.0	5.0	0.0	0.0	13.0
					Mean =	0.0	0.0	2.5	0.0	0.0	15.1
5 56 DAP				B	105	0.0	0.0	0.0	0.0	0.0	17.8
DIURON	4 L	0.0 oz/a	POST		212	0.0	0.0	0.0	0.0	0.0	18.7
					302	0.0	0.0	0.0	0.0	0.0	19.0
					405	0.0	0.0	0.0	0.0	0.0	16.1
					Mean =	0.0	0.0	0.0	0.0	0.0	17.9
6 56 DAP				B	106	0.0	0.0	0.0	0.0	0.0	13.2
DIURON	4 L	4.0 oz/a	POST		207	0.0	0.0	0.0	0.0	0.0	13.0
					303	0.0	0.0	0.0	0.0	0.0	12.4
					406	0.0	0.0	0.0	0.0	0.0	12.3
					Mean =	0.0	0.0	0.0	0.0	0.0	12.7
7 56 DAP				B	107	0.0	0.0	0.0	0.0	0.0	12.5
DIURON	4 L	8.0 oz/a	POST		202	0.0	0.0	0.0	0.0	0.0	12.6
					306	0.0	0.0	0.0	0.0	0.0	12.8
					407	0.0	0.0	0.0	0.0	0.0	13.0
					Mean =	0.0	0.0	0.0	0.0	0.0	12.7
8 56 DAP				B	108	0.0	25.0	20.0	0.0	0.0	6.8
DIURON	4 L	16.0 oz/a	POST		203	0.0	25.0	30.0	0.0	0.0	6.6
					305	0.0	25.0	30.0	0.0	0.0	7.7
					408	0.0	25.0	25.0	0.0	0.0	7.5
					Mean =	0.0	25.0	26.3	0.0	0.0	7.2
9 88 DAP				C	109	0.0	0.0	0.0	0.0	0.0	17.3
DIURON	4 L	0.0 oz/a	POST		211	0.0	0.0	0.0	0.0	0.0	17.8
					304	0.0	0.0	0.0	0.0	0.0	18.6
					409	0.0	0.0	0.0	0.0	0.0	17.8
					Mean =	0.0	0.0	0.0	0.0	0.0	17.9
10 88 DAP				C	110	30.0	10.0	10.0	20.0	10.0	11.1
DIURON	4 L	4.0 oz/a	POST		204	30.0	10.0	5.0	20.0	10.0	12.1
					312	30.0	10.0	0.0	20.0	5.0	12.3
					410	30.0	10.0	10.0	20.0	5.0	12.1
					Mean =	30.0	10.0	6.3	20.0	7.5	11.9

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PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2														
Trial ID: PE-15-20				Study Dir.:										
Location: PONDER FARM				Investigator: Eric P. Prostko										
Weed Code								Arahy Leaf - Chlorosi Percent Aug-12-20	Arahy Leaf - Necrosis Percent Aug-12-20	Arahy Stunting Percent Sep-2-20	Arahy Leaf - Chlorosi Percent Sep-2-20	Arahy Leaf - Necrosis Percent Sep-2-20	ARAHY DIRTY - YIELD LBS/PLOT Oct-2-20 - 1	
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	Rate	Unit	Stg	Code	Plot	15	16	17	18	19	20
11	88 DAP DIURON	4 L		8.0 oz/a	POST	C	111		30.0	15.0	10.0	20.0	15.0	7.9
							210	30.0	15.0	10.0	15.0	9.8		
							307	30.0	20.0	10.0	20.0	11.3		
							411	30.0	15.0	15.0	10.0	20.0	9.4	
							Mean =	30.0	16.3	11.3	16.3	16.3	9.6	
12	88 DAP DIURON	4 L		16.0 oz/a	POST	C	112		20.0	30.0	20.0	5.0	40.0	5.7
							208	20.0	30.0	20.0	5.0	35.0	7.7	
							309	20.0	30.0	20.0	5.0	40.0	6.3	
							412	20.0	30.0	20.0	0.0	40.0	5.3	
							Mean =	20.0	30.0	20.0	3.8	38.8	6.3	

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PEANUT RESPONSE TO POST APPLIED DIURON YEAR 2									
Trial ID: PE-15-20		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.									
Trt Treatment Form Form									
No. Name	Conc	Type	Rate	Grow Unit	Appl Stg	Code	Plot		
								21	22
									23
1 29 DAP					A	101		18.9	5383
DIURON	4 L		0.0 oz/a	POST		205		16.7	4741
						301		18.1	5160
						401		17.0	4825
						Mean =		17.7	5027
2 29 DAP					A	102		18.1	5160
DIURON	4 L		4.0 oz/a	POST		206		16.3	4630
						308		15.4	4379
						402		13.6	3877
						Mean =		15.9	4511
3 29 DAP					A	103		16.4	4658
DIURON	4 L		8.0 oz/a	POST		209		15.2	4323
						310		16.4	4658
						403		15.1	4295
						Mean =		15.8	4483
4 29 DAP					A	104		14.9	4239
DIURON	4 L		16.0 oz/a	POST		201		16.5	4686
						311		15.0	4267
						404		12.7	3626
						Mean =		14.8	4204
5 56 DAP					B	105		17.4	4964
DIURON	4 L		0.0 oz/a	POST		212		18.3	5215
						302		18.6	5299
						405		15.8	4490
						Mean =		17.5	4992
6 56 DAP					B	106		12.9	3681
DIURON	4 L		4.0 oz/a	POST		207		12.7	3626
						303		12.2	3458
						406		12.1	3430
						Mean =		12.5	3549
7 56 DAP					B	107		12.3	3486
DIURON	4 L		8.0 oz/a	POST		202		12.3	3514
						306		12.5	3570
						407		12.7	3626
						Mean =		12.5	3549
8 56 DAP					B	108		6.7	1897
DIURON	4 L		16.0 oz/a	POST		203		6.5	1841
						305		7.5	2148
						408		7.4	2092
						Mean =		7.0	1994
9 88 DAP					C	109		17.0	4825
DIURON	4 L		0.0 oz/a	POST		211		17.4	4964
						304		18.2	5188
						409		17.4	4964
						Mean =		17.5	4985
10 88 DAP					C	110		10.9	3096
DIURON	4 L		4.0 oz/a	POST		204		11.9	3375
						312		12.1	3430
						410		11.9	3375
						Mean =		11.7	3319

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PEANUT RESPONSE TO POST APPLIED DIURON

YEAR 2

Trial ID: PE-15-20

Study Dir.:

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	----	----	----
Crop Code	ARAHY	ARAHY	ARAHY
Part Rated	CLEAN -	CLEAN -	YIELD -
Rating Data Type	YIELD	YIELD	LOSS
Rating Unit	LBS/PLOT	LBS/A	PERCENT
Rating Date	Oct-2-20	Oct-2-20	Oct-2-20
PRM Data Type	T1	TY2	
# Subsamples, Dec.	- 1	- 0	- 1
Trt Treatment Form Form Rate Grow Appl			
No. Name Conc Type Rate Unit Stg Code Plot	21	22	23
11 88 DAP			
DIURON 4 L 8.0 oz/a POST C 111	7.7	2203	54.3
	9.6	2733	44.9
	11.1	3152	39.2
	9.2	2622	47.2
Mean =	9.4	2677	46.4
12 88 DAP			
DIURON 4 L 16.0 oz/a POST C 112	5.6	1590	67.0
	7.5	2148	56.7
	6.2	1757	66.1
	5.2	1478	70.2
Mean =	6.1	1743	65.0

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PEANUT RESPONSE TO POST APPLIED DIURON

YEAR 2

Trial ID: PE-15-20

Study Dir.:

Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated

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

Leaf = LEAF / FOLIAGE

PRM Data Type

T1 = [20]*0.98

TY2 = 284.592*[21]