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PEANUT RESPONSE TO CADRE/COBRA/ULTRA BLAZER DUAL MAGNUM/ZIDUA/2,4-DB TANK-MIXTURES											
Trial ID:		PE-05-18		Study Dir.:							
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Reps: 3		Plots: 6 by 25 feet									
Spray vol: 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	Code	Amt Product to Measure	Rep 1	2	3
1	31 DAP CADRE DUAL MAGNUM 2,4-DB	2 7.62 1.75	AS EC SL	4.0 16.0 18.0	oz/a oz/a oz/a	POST POST POST	A	3.125 mL/mx 12.5 mL/mx 14.06 mL/mx	101	211	307
2	31 DAP CADRE DUAL MAGNUM 2,4-DB ULTRA BLAZER	2 7.62 1.75 2	AS EC SL SL	4.0 16.0 18.0 24.0	oz/a oz/a oz/a oz/a	POST POST POST POST	A	3.125 mL/mx 12.5 mL/mx 14.06 mL/mx 18.75 mL/mx	102	214	305
3	31 DAP CADRE DUAL MAGNUM 2,4-DB COBRA	2 7.62 1.75 2	AS EC SL EC	4.0 16.0 18.0 12.5	oz/a oz/a oz/a oz/a	POST POST POST POST	A	3.125 mL/mx 12.5 mL/mx 14.06 mL/mx 9.765 mL/mx	103	209	304
4	31 DAP CADRE ZIDUA 2,4-DB NIS	2 4.17 1.75	AS SC SL	4.0 2.45 18.0 0.25	oz/a oz/a oz/a % v/v	POST POST POST POST	A	3.125 mL/mx 1.914 mL/mx 14.06 mL/mx 3.75 mL/mx	104	201	309
5	31 DAP CADRE ZIDUA 2,4-DB ULTRA BLAZER NIS	2 4.17 1.75 2	AS SC SL SL	4.0 2.45 18.0 24.0 0.25	oz/a oz/a oz/a oz/a % v/v	POST POST POST POST POST	A	3.125 mL/mx 1.914 mL/mx 14.06 mL/mx 18.75 mL/mx 3.75 mL/mx	105	202	310
6	31 DAP CADRE ZIDUA 2,4-DB COBRA NIS	2 4.17 1.75 2	AS SC SL EC	4.0 2.45 18.0 12.5 0.25	oz/a oz/a oz/a oz/a % v/v	POST POST POST POST POST	A	3.125 mL/mx 1.914 mL/mx 14.06 mL/mx 9.765 mL/mx 3.75 mL/mx	106	205	302
7	31 DAP NTC						A		107	206	311
8	46 DAP CADRE DUAL MAGNUM 2,4-DB	2 7.62 1.75	AS EC SL	4.0 16.0 18.0	oz/a oz/a oz/a	POST POST POST	B	3.125 mL/mx 12.5 mL/mx 14.06 mL/mx	108	207	306
9	46 DAP CADRE DUAL MAGNUM 2,4-DB ULTRA BLAZER	2 7.62 1.75 2	AS EC SL SL	4.0 16.0 18.0 24.0	oz/a oz/a oz/a oz/a	POST POST POST POST	B	3.125 mL/mx 12.5 mL/mx 14.06 mL/mx 18.75 mL/mx	109	203	314
10	46 DAP CADRE DUAL MAGNUM 2,4-DB COBRA	2 7.62 1.75 2	AS EC SL EC	4.0 16.0 18.0 12.5	oz/a oz/a oz/a oz/a	POST POST POST POST	B	3.125 mL/mx 12.5 mL/mx 14.06 mL/mx 9.765 mL/mx	110	212	313
11	46 DAP CADRE ZIDUA 2,4-DB NIS	2 4.17 1.75	AS SC SL	4.0 2.45 18.0 0.25	oz/a oz/a oz/a % v/v	POST POST POST POST	B	3.125 mL/mx 1.914 mL/mx 14.06 mL/mx 3.75 mL/mx	111	204	303

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Reps: 3

Plots: 6 by 25 feet

Spray vol: 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 Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3
12	46 DAP CADRE ZIDUA 2,4-DB ULTRA BLAZER NIS	2 AS 4.17 SC 1.75 SL 2 SL		4.0 oz/a 2.45 oz/a 18.0 oz/a 24.0 oz/a 0.25 % v/v	POST POST POST POST POST	B	3.125 mL/mx 1.914 mL/mx 14.06 mL/mx 18.75 mL/mx 3.75 mL/mx	112	210	301
13	46 DAP CADRE ZIDUA 2,4-DB COBRA NIS	2 AS 4.17 SC 1.75 SL 2 EC		4.0 oz/a 2.45 oz/a 18.0 oz/a 12.5 oz/a 0.25 % v/v	POST POST POST POST POST	B	3.125 mL/mx 1.914 mL/mx 14.06 mL/mx 9.765 mL/mx 3.75 mL/mx	113	208	312
14	46 DAP NTC					B		114	213	308

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

PROWL @ 32 OZ/A + STRONGARM @ 0.45 OZ/A - MAY 1

GRAMOXONE @ 12 OZ/A + STORM @ 16 OZ/A + DUAL MAGNUM @ 16 OZ/A - MAY 14

NIS - INDUCE

DIGGING DATE: SEPTEMBER 17

HARVEST DATE: SEPTEMBER 21

HARVEST MOISTURE: 10.3%

YIELDS ADJUSTED TO 10%

2% YIELD DEDUCTION FOR FM (ROCKS, STEMS, ETC.)

SUMMARY:

1) ADDITIONS OF COBRA OR ULTRA BLAZER TO CADRE + DUAL OR ZIDUA INCREASED PEANUT INJURY (I.E. LEAF NECROSIS) BY 10-15%.

2) FOR PEANUT YIELD, THERE WAS NO INTERACTION BETWEEN TIME OF APPLICATION AND HERBICIDE TREATMENT (P=0.3465).

3) WHEN AVERAGED OVER TREATMENT, TIME OF APPLICATION HAD NO EFFECT ON PEANUT YIELD (P=0.3468).

4) WHEN AVERAGED OVER TIME OF APPLICATION, TREATMENT EFFECTS WERE SIGNIFICANT (P=0.0126) FOR PEANUT YIELD AS FOLLOWS:

-ULTRA BLAZER TANK-MIXED WITH CADRE + DUAL MAGNUM + 2,4-DB CAUSED A SIGNIFICANT YIELD REDUCTION (-6.1%)

-ULTRA BLAZER HAD NO EFFECT ON PEANUT YIELD WHEN TANK-MIXED WITH CADRE + ZIDUA + 2,4-DB + NIS

-COBRA HAD NO EFFECT ON PEANUT YIELD WHEN TANK MIXED WITH CADRE + DUAL MAGNUM + 2,4-DB OR CADRE + ZIDUA + 2,4-DB + NIS

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PEANUT RESPONSE TO CADRE/COBRA/ULTRA BLAZER
DUAL MAGNUM/ZIDUA/2,4-DB TANK-MIXTURES
Trial ID: PE-05-18 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: Apr-30-18
Planting Method: MONOSEM TWIN ROW Rate: 3.1 SEED/FT Depth: 2 IN
Perennial Age: _____ Row Spacing: _____ Seed Bed: _____
Soil Temperature: _____ Soil Moisture: OPTIMUM Emergence Date: _____

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 3
Site Type: _____
Tillage Type: CONVENTIONAL Study Design: FACTOR
Trial Initiation Comments: 400 LBS/A 5-15-30 PREPLANT; THIMET INFR @ 3.5 LBS/A;
36"-9" TWIN ROWS; DYNASTY PD SEED TRT;
Previous: Crops Pesticides Year
1. FIELD CORN 2017 _____

MAINTENANCE

Field Prep./Maintenance: _____
Form Form Form Rate
No. Date Treatment Name Conc Unit Type Rate Unit
1. _____

SOIL DESCRIPTION

Texture: SAND % OM: 0.77 % Sand: 92 % Silt: 6 % Clay: 2
pH: 6.0 CEC: 2.6 Soil Name: TIFTON Fertility Level: GOOD

MOISTURE CONDITIONS

On: Date Time Amount Unit Type Interval Unit
1. May-2-18 _____ 0.5 IN SPRINKLER - LATERAL MOVE _____
2. May-8-18 _____ 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-31-18	Jun-15-18				
Time of Day:	7:40 AM	7:15 AM				
Application Method:	BROADCAST	BROADCAST				
Application Timing:	31 DAP	46 DAP				
Applic. Placement:	FOLIAGE	FOLIAGE				
Air Temp., Unit:	73 F	73 F				
% Relative Humidity:	99	100				
Wind Velocity, Unit:	2 MPH	2 MPH				
Dew Presence (Y/N):	Y	Y				
Water Hardness:	--	--				
Soil Temp., Unit:	76 F	75 F				
Soil Moisture:	WET	OPTIMUM				
% Cloud Cover:	100	100				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:	ARAHY	6" T; 9" W				
Stage Scale:	5" T; R1	R2				
Height, Unit:						

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		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	_____	_____	_____	_____	_____	_____
Operating Pressure:	46	_____	_____	_____	_____	_____	_____
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 CADRE/COBRA/ULTRA BLAZER DUAL MAGNUM/ZIDUA/2,4-DB TANK-MIXTURES									
Trial ID: PE-05-18		Study Dir.: Eric P. Prostko							
Location: PONDER FARM									
Weed Code				-----	-----	-----	-----	-----	-----
Crop Code				ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY
Part Rated				PLANT -	LEAF -	LEAF -	PLANT -	PLOT -	PLOT -
Rating Data Type				STUNTING	NECROSIS	NECROSIS	INJURY	YIELD	YIELD
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	LBS/PLOT	LBS/PLOT
Rating Date				Jun-5-18	Jun-5-18	Jun-19-18	Jul-25-18	Sep-21-18	Sep-21-18
PRM Data Type								T1	TY2
# Subsamples, Dec.								- 2	- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	1	2	3
TABLE OF R MEANS							4	5	6
Replicate 1							7		
Replicate 2									
Replicate 3									
TABLE OF A (TIMING) MEANS									
1 31 DAP A							10.0 a	15.2 a	0.0 b
2 46 DAP B							0.0 b	0.0 b	13.1 a
Tukey's HSD P=.10							0.0 a	0.0 a	0.0 a
Standard Deviation							24.89 a	24.40 a	24.57 a
CV							23.88	23.40	24.75
							6774	7106	7164
TABLE OF B (TREATMENT) MEANS									
1 CADRE 2 AS 4.0 oz/a POST							1.7 ab	0.0 c	0.0 c
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST									
1 2,4-DB 1.75 SL 18.0 oz/a POST									
2 CADRE 2 AS 4.0 oz/a POST							6.7 ab	15.0 a	15.0 a
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST									
2 2,4-DB 1.75 SL 18.0 oz/a POST									
2 ULTRA BLAZER 2 SL 24.0 oz/a POST									
3 CADRE 2 AS 4.0 oz/a POST							8.3 a	15.0 a	11.7 a
3 DUAL MAGNUM 7.62 EC 16.0 oz/a POST									
3 2,4-DB 1.75 SL 18.0 oz/a POST									
3 COBRA 2 EC 12.5 oz/a POST									
4 CADRE 2 AS 4.0 oz/a POST							5.0 ab	0.0 c	0.0 c
4 ZIDUA 4.17 SC 2.45 oz/a POST									
4 2,4-DB 1.75 SL 18.0 oz/a POST									
4									
5 CADRE 2 AS 4.0 oz/a POST							8.3 a	13.3 a	11.7 a
5 ZIDUA 4.17 SC 2.45 oz/a POST									
5 2,4-DB 1.75 SL 18.0 oz/a POST									
5 ULTRA BLAZER 2 SL 24.0 oz/a POST									
5									
6 CADRE 2 AS 4.0 oz/a POST							5.0 ab	10.0 b	7.5 b
6 ZIDUA 4.17 SC 2.45 oz/a POST									
6 2,4-DB 1.75 SL 18.0 oz/a POST									
6 COBRA 2 EC 12.5 oz/a POST									
6									
7 NTC							0.0 b	0.0 c	0.0 c
Tukey's HSD P=.10							0.0 a	0.0 a	0.0 a
Standard Deviation							25.41 ab	24.90 ab	25.62 ab
CV							25.32 ab	24.81 ab	24.57 a
							23.86 c	23.38 c	24.78
TABLE OF A (TIMING) B (TREATMENT) MEANS									
1 31 DAP A							3.3 bc	0.0 c	0.0 c
1 CADRE 2 AS 4.0 oz/a POST									
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST									
1 2,4-DB 1.75 SL 18.0 oz/a POST									
2 46 DAP B							0.0 c	0.0 c	0.0 c
1 CADRE 2 AS 4.0 oz/a POST									
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST									
1 2,4-DB 1.75 SL 18.0 oz/a POST									
1 31 DAP A							13.3 ab	30.0 a	0.0 c
2 CADRE 2 AS 4.0 oz/a POST									
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST									
2 2,4-DB 1.75 SL 18.0 oz/a POST									
2 ULTRA BLAZER 2 SL 24.0 oz/a POST									

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

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							----- ARAHY PLANT - STUNTING PERCENT Jun-5-18	----- ARAHY LEAF - NECROSIS PERCENT Jun-5-18	----- ARAHY LEAF - NECROSIS PERCENT Jun-19-18	----- ARAHY PLANT - INJURY PERCENT Jul-25-18	----- ARAHY PLOT - YIELD LBS/PLOT Sep-21-18	----- ARAHY PLOT - YIELD LBS/PLOT Sep-21-18	----- ARAHY PLOT - YIELD LBS/A Sep-21-18	
PRM Data Type # Subsamples, Dec.											- 2	T1 - 2	TY2 - 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	1	2	3	4	5	6	7
2	46 DAP					B		0.0 c	0.0 c	30.0 a	0.0 a	23.32 b	22.85 b	6614 b
2	CADRE	2 AS		4.0 oz/a	POST									
2	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST									
2	2,4-DB	1.75 SL		18.0 oz/a	POST									
2	ULTRA BLAZER	2 SL		24.0 oz/a	POST									
1	31 DAP					A		16.7 a	30.0 a	0.0 c	0.0 a	24.57 ab	24.08 ab	6968 ab
3	CADRE	2 AS		4.0 oz/a	POST									
3	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST									
3	2,4-DB	1.75 SL		18.0 oz/a	POST									
3	COBRA	2 EC		12.5 oz/a	POST									
2	46 DAP					B		0.0 c	0.0 c	23.3 a	0.0 a	23.57 ab	23.10 ab	6685 ab
3	CADRE	2 AS		4.0 oz/a	POST									
3	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST									
3	2,4-DB	1.75 SL		18.0 oz/a	POST									
3	COBRA	2 EC		12.5 oz/a	POST									
1	31 DAP					A		10.0 abc	0.0 c	0.0 c	0.0 a	24.78 ab	24.29 ab	7030 ab
4	CADRE	2 AS		4.0 oz/a	POST									
4	ZIDUA	4.17 SC		2.45 oz/a	POST									
4	2,4-DB	1.75 SL		18.0 oz/a	POST									
4														
2	46 DAP					B		0.0 c	0.0 c	0.0 c	0.0 a	24.30 ab	23.81 ab	6893 ab
4	CADRE	2 AS		4.0 oz/a	POST									
4	ZIDUA	4.17 SC		2.45 oz/a	POST									
4	2,4-DB	1.75 SL		18.0 oz/a	POST									
4														
1	31 DAP					A		16.7 a	26.7 a	0.0 c	0.0 a	24.75 ab	24.26 ab	7020 ab
5	CADRE	2 AS		4.0 oz/a	POST									
5	ZIDUA	4.17 SC		2.45 oz/a	POST									
5	2,4-DB	1.75 SL		18.0 oz/a	POST									
5	ULTRA BLAZER	2 SL		24.0 oz/a	POST									
5														
2	46 DAP					B		0.0 c	0.0 c	23.3 a	0.0 a	24.18 ab	23.70 ab	6859 ab
5	CADRE	2 AS		4.0 oz/a	POST									
5	ZIDUA	4.17 SC		2.45 oz/a	POST									
5	2,4-DB	1.75 SL		18.0 oz/a	POST									
5	ULTRA BLAZER	2 SL		24.0 oz/a	POST									
5														
1	31 DAP					A		10.0 abc	20.0 b	0.0 c	0.0 a	25.07 ab	24.57 ab	7110 ab
6	CADRE	2 AS		4.0 oz/a	POST									
6	ZIDUA	4.17 SC		2.45 oz/a	POST									
6	2,4-DB	1.75 SL		18.0 oz/a	POST									
6	COBRA	2 EC		12.5 oz/a	POST									
6														
2	46 DAP					B		0.0 c	0.0 c	15.0 b	0.0 a	25.85 a	25.33 a	7332 a
6	CADRE	2 AS		4.0 oz/a	POST									
6	ZIDUA	4.17 SC		2.45 oz/a	POST									
6	2,4-DB	1.75 SL		18.0 oz/a	POST									
6	COBRA	2 EC		12.5 oz/a	POST									
6														
1	31 DAP					A		0.0 c	0.0 c	0.0 c	0.0 a	25.07 ab	24.57 ab	7110 ab
7	NTC													
2	46 DAP					B		0.0 c	0.0 c	0.0 c	0.0 a	25.75 ab	25.24 ab	7304 ab
7	NTC													
Tukey's HSD P=.10								12.73	4.60	6.77		2.465	2.415	699.1
Standard Deviation								4.27	1.54	2.27	0.00	0.827	0.811	234.7
CV								85.45	20.25	34.69	0.00	3.346	3.346	3.3

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

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COMPLETE FACTORIAL AOV For ----- ARAHY PLANT STUNTING PERCENT Jun-5-18 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	41	2250.000000				
R	2	14.285714	7.142857	0.391	0.6845	
A	1	1050.000000	1050.000000	147.000	0.0067	2.4
RA	2	14.285714	7.142857			
B	6	366.666667	61.111111	3.348	0.0355	7.6
RB	12	219.047619	18.253968			
AB	6	366.666667	61.111111	3.348	0.0355	12.7
RAB	12	219.047619	18.253968			

COMPLETE FACTORIAL AOV For ----- ARAHY LEAF NECROSIS PERCENT Jun-5-18 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	41	6361.904762				
R	2	4.761905	2.380952	1.000	0.3966	
A	1	2438.095238	2438.095238	1024.000	0.0010	1.4
RA	2	4.761905	2.380952			
B	6	1928.571429	321.428571	135.000	0.0001	2.7
RB	12	28.571429	2.380952			
AB	6	1928.571429	321.428571	135.000	0.0001	4.6
RAB	12	28.571429	2.380952			

COMPLETE FACTORIAL AOV For ----- ARAHY LEAF NECROSIS PERCENT Jun-19-18 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	41	4974.404762				
R	2	4.761905	2.380952	0.462	0.6411	
A	1	1800.595238	1800.595238	756.250	0.0013	1.4
RA	2	4.761905	2.380952			
B	6	1520.238095	253.373016	49.115	0.0001	4.0
RB	12	61.904762	5.158730			
AB	6	1520.238095	253.373016	49.115	0.0001	6.8
RAB	12	61.904762	5.158730			

COMPLETE FACTORIAL AOV For ----- ARAHY PLANT INJURY PERCENT Jul-25-18 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	41	0.000000				
R	2	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	2	0.000000	0.000000			
B	6	0.000000	0.000000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	6	0.000000	0.000000	0.000	1.0000	.
RAB	12	0.000000	0.000000			

COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-21-18 2 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	41	54.194762				
R	2	15.420119	7.710060	11.263	0.0018	
A	1	1.100952	1.100952	1.488	0.3468	0.78
RA	2	1.479405	0.739702			
B	6	15.836429	2.639405	4.531	0.0126	1.36
RB	12	6.990714	0.582560			
AB	6	5.152381	0.858730	1.254	0.3465	2.46
RAB	12	8.214762	0.684563			

COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-21-18 T1 2 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	41	52.048649				
R	2	14.809482	7.404741	11.263	0.0018	
A	1	1.057355	1.057355	1.488	0.3468	0.76
RA	2	1.420820	0.710410			
B	6	15.209306	2.534884	4.531	0.0126	1.33
RB	12	6.713882	0.559490			
AB	6	4.948347	0.824724	1.254	0.3465	2.42
RAB	12	7.889457	0.657455			

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

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COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/A Sep-21-18 TY2 0 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	41	4360161.294040				
R	2	1240603.406268	620301.703134	11.263	0.0018	
A	1	88575.533673	88575.533673	1.488	0.3468	220
RA	2	119023.373373	59511.686687			
B	6	1274096.987719	212349.497953	4.531	0.0126	384
RB	12	562427.820973	46868.985081			
AB	6	414527.367796	69087.894633	1.254	0.3465	699
RAB	12	660906.804238	55075.567020			

Part Rated

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

LEAF = LEAF / FOLIAGE

PRM Data Type

T1 = [5]*0.98

TY2 = 289.432*[6]

PEANUT RESPONSE TO CADRE/COBRA/ULTRA BLAZER DUAL MAGNUM/ZIDUA/2,4-DB TANK-MIXTURES						
Trial ID:	PE-05-18	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	Rate	Grow	Appl		
No. Name	Conc Type	Rate Unit	Stg	Code Plot		
					1	2
1 31 DAP				A 101	0.0	0.0
CADRE	2 AS	4.0 oz/a	POST	211	0.0	0.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	307	10.0	0.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
Mean =					3.3	0.0
2 31 DAP				A 102	10.0	30.0
CADRE	2 AS	4.0 oz/a	POST	214	10.0	30.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	305	20.0	30.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
ULTRA BLAZER	2 SL	24.0 oz/a	POST			
Mean =					13.3	30.0
3 31 DAP				A 103	20.0	30.0
CADRE	2 AS	4.0 oz/a	POST	209	20.0	30.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	304	10.0	30.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
COBRA	2 EC	12.5 oz/a	POST			
Mean =					16.7	30.0
4 31 DAP				A 104	20.0	0.0
CADRE	2 AS	4.0 oz/a	POST	201	10.0	0.0
ZIDUA	4.17 SC	2.45 oz/a	POST	309	0.0	0.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
NIS		0.25 % v/v	POST			
Mean =					10.0	0.0
5 31 DAP				A 105	20.0	30.0
CADRE	2 AS	4.0 oz/a	POST	202	20.0	30.0
ZIDUA	4.17 SC	2.45 oz/a	POST	310	10.0	20.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
ULTRA BLAZER	2 SL	24.0 oz/a	POST			
NIS		0.25 % v/v	POST			
Mean =					16.7	26.7
6 31 DAP				A 106	10.0	20.0
CADRE	2 AS	4.0 oz/a	POST	205	10.0	20.0
ZIDUA	4.17 SC	2.45 oz/a	POST	302	10.0	20.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
COBRA	2 EC	12.5 oz/a	POST			
NIS		0.25 % v/v	POST			
Mean =					10.0	20.0
7 31 DAP				A 107	0.0	0.0
NTC				206	0.0	0.0
				311	0.0	0.0
Mean =					0.0	0.0
8 46 DAP				B 108	0.0	0.0
CADRE	2 AS	4.0 oz/a	POST	207	0.0	0.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	306	0.0	0.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
Mean =					0.0	0.0
9 46 DAP				B 109	0.0	0.0
CADRE	2 AS	4.0 oz/a	POST	203	0.0	0.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	314	0.0	0.0
2,4-DB	1.75 SL	18.0 oz/a	POST			
ULTRA BLAZER	2 SL	24.0 oz/a	POST			
Mean =					0.0	0.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ARAHY PLANT - STUNTING PERCENT Jun-5-18	----- ARAHY LEAF - NECROSIS PERCENT Jun-5-18	----- ARAHY LEAF - NECROSIS PERCENT Jun-19-18	----- ARAHY PLANT - INJURY PERCENT Jul-25-18	----- ARAHY PLOT - YIELD LBS/PLOT Sep-21-18	----- ARAHY PLOT - YIELD LBS/PLOT Sep-21-18 T1
Trt Treatment Form Form Rate Grow Appl No. Name Conc Type Rate Unit Stg Code Plot							1	2	3	4	5	6
10	46 DAP					B 110	0.0	0.0	20.0	0.0	21.45	21.02
	CADRE	2 AS	4.0 oz/a	POST		212	0.0	0.0	30.0	0.0	24.60	24.11
	DUAL MAGNUM	7.62 EC	16.0 oz/a	POST		313	0.0	0.0	20.0	0.0	24.65	24.16
	2,4-DB	1.75 SL	18.0 oz/a	POST								
	COBRA	2 EC	12.5 oz/a	POST								
	Mean =						0.0	0.0	23.3	0.0	23.57	23.10
11	46 DAP					B 111	0.0	0.0	0.0	0.0	22.65	22.20
	CADRE	2 AS	4.0 oz/a	POST		204	0.0	0.0	0.0	0.0	24.55	24.06
	ZIDUA	4.17 SC	2.45 oz/a	POST		303	0.0	0.0	0.0	0.0	25.70	25.19
	2,4-DB	1.75 SL	18.0 oz/a	POST								
	NIS		0.25 % v/v	POST								
	Mean =						0.0	0.0	0.0	0.0	24.30	23.81
12	46 DAP					B 112	0.0	0.0	20.0	0.0	22.70	22.25
	CADRE	2 AS	4.0 oz/a	POST		210	0.0	0.0	20.0	0.0	24.05	23.57
	ZIDUA	4.17 SC	2.45 oz/a	POST		301	0.0	0.0	30.0	0.0	25.80	25.28
	2,4-DB	1.75 SL	18.0 oz/a	POST								
	ULTRA BLAZER	2 SL	24.0 oz/a	POST								
	NIS		0.25 % v/v	POST								
	Mean =						0.0	0.0	23.3	0.0	24.18	23.70
13	46 DAP					B 113	0.0	0.0	15.0	0.0	25.80	25.28
	CADRE	2 AS	4.0 oz/a	POST		208	0.0	0.0	15.0	0.0	25.30	24.79
	ZIDUA	4.17 SC	2.45 oz/a	POST		312	0.0	0.0	15.0	0.0	26.45	25.92
	2,4-DB	1.75 SL	18.0 oz/a	POST								
	COBRA	2 EC	12.5 oz/a	POST								
	NIS		0.25 % v/v	POST								
	Mean =						0.0	0.0	15.0	0.0	25.85	25.33
14	46 DAP					B 114	0.0	0.0	0.0	0.0	25.55	25.04
	NTC					213	0.0	0.0	0.0	0.0	26.40	25.87
						308	0.0	0.0	0.0	0.0	25.30	24.79
	Mean =						0.0	0.0	0.0	0.0	25.75	25.24

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ARAHY PLOT - YIELD LBS/A Sep-21-18 TY2 - 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot
1	31 DAP					A	101
	CADRE	2	AS	4.0 oz/a	POST		211
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST		307
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	Mean =						7266
2	31 DAP					A	102
	CADRE	2	AS	4.0 oz/a	POST		214
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST		305
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	ULTRA BLAZER	2	SL	24.0 oz/a	POST		
	Mean =						6921
3	31 DAP					A	103
	CADRE	2	AS	4.0 oz/a	POST		209
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST		304
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	COBRA	2	EC	12.5 oz/a	POST		
	Mean =						6968
4	31 DAP					A	104
	CADRE	2	AS	4.0 oz/a	POST		201
	ZIDUA	4.17	SC	2.45 oz/a	POST		309
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	NIS			0.25 % v/v	POST		
	Mean =						7030
5	31 DAP					A	105
	CADRE	2	AS	4.0 oz/a	POST		202
	ZIDUA	4.17	SC	2.45 oz/a	POST		310
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	ULTRA BLAZER	2	SL	24.0 oz/a	POST		
	NIS			0.25 % v/v	POST		
	Mean =						7020
6	31 DAP					A	106
	CADRE	2	AS	4.0 oz/a	POST		205
	ZIDUA	4.17	SC	2.45 oz/a	POST		302
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	COBRA	2	EC	12.5 oz/a	POST		
	NIS			0.25 % v/v	POST		
	Mean =						7110
7	31 DAP					A	107
	NTC						206
							311
	Mean =						7110
8	46 DAP					B	108
	CADRE	2	AS	4.0 oz/a	POST		207
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST		306
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	Mean =						7096
9	46 DAP					B	109
	CADRE	2	AS	4.0 oz/a	POST		203
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST		314
	2,4-DB	1.75	SL	18.0 oz/a	POST		
	ULTRA BLAZER	2	SL	24.0 oz/a	POST		
	Mean =						6614

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Weed Code							-----
Crop Code							ARAHY
Part Rated							PLOT -
Rating Data Type							YIELD
Rating Unit							LBS/A
Rating Date							Sep-21-18
PRM Data Type							TY2
# Subsamples, Dec.							- 0
Trt	Treatment	Form	Form	Rate	Grow	Appl	
No.	Name	Conc	Type	Rate	Unit	Stg	Code Plot
10	46 DAP					B	110
	CADRE	2	AS	4.0	oz/a	POST	212
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	313
	2,4-DB	1.75	SL	18.0	oz/a	POST	
	COBRA	2	EC	12.5	oz/a	POST	
	Mean =						6685
11	46 DAP					B	111
	CADRE	2	AS	4.0	oz/a	POST	204
	ZIDUA	4.17	SC	2.45	oz/a	POST	303
	2,4-DB	1.75	SL	18.0	oz/a	POST	
	NIS			0.25	% v/v	POST	
	Mean =						6893
12	46 DAP					B	112
	CADRE	2	AS	4.0	oz/a	POST	210
	ZIDUA	4.17	SC	2.45	oz/a	POST	301
	2,4-DB	1.75	SL	18.0	oz/a	POST	
	ULTRA BLAZER	2	SL	24.0	oz/a	POST	
	NIS			0.25	% v/v	POST	
	Mean =						6859
13	46 DAP					B	113
	CADRE	2	AS	4.0	oz/a	POST	208
	ZIDUA	4.17	SC	2.45	oz/a	POST	312
	2,4-DB	1.75	SL	18.0	oz/a	POST	
	COBRA	2	EC	12.5	oz/a	POST	
	NIS			0.25	% v/v	POST	
	Mean =						7332
14	46 DAP					B	114
	NTC						213
							308
	Mean =						7304

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PEANUT RESPONSE TO CADRE/COBRA/ULTRA BLAZER
DUAL MAGNUM/ZIDUA/2,4-DB TANK-MIXTURES

Trial ID: PE-05-18

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 = [5]*0.98

TY2 = 289.432*[6]