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TIME OF DAY EFFECTS ON PEANUT HERBICIDES
 NON-CROP-BAREGROUND
 Trial ID: PE-26-15 Study Dir.: WEN CARTER
 Location: PONDER Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .58658)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3
1	7 AM GRAMOXONE	2 SL		12.0 oz/a		POST	A	9.374 ml/mx	101	207	305
	STORM	4 SL		16.0 oz/a		POST	A	12.5 ml/mx			
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
2	7 AM CADRE	2 AS		4.0 oz/a		POST	A	3.125 ml/mx	102	204	310
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
3	7 AM COBRA	2 EC		12.5 oz/a		POST	A	9.765 ml/mx	103	201	307
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
4	12 PM GRAMOXONE	2 SL		12.0 oz/a		POST	A	9.374 ml/mx	104	211	313
	STORM	4 SL		16.0 oz/a		POST	A	12.5 ml/mx			
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
5	12 PM CADRE	2 AS		4.0 oz/a		POST	A	3.125 ml/mx	105	206	309
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
6	12 PM COBRA	2 EC		12.5 oz/a		POST	A	9.765 ml/mx	106	210	303
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
7	5 PM GRAMOXONE	2 SL		12.0 oz/a		POST	A	9.374 ml/mx	107	213	306
	STORM	4 SL		16.0 oz/a		POST	A	12.5 ml/mx			
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
8	5 PM CADRE	2 AS		4.0 oz/a		POST	A	3.125 ml/mx	108	203	304
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
9	5 PM COBRA	2 EC		12.5 oz/a		POST	A	9.765 ml/mx	109	202	301
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
10	10 PM GRAMOXONE	2 SL		12.0 oz/a		POST	A	9.374 ml/mx	110	205	312
	STORM	4 SL		16.0 oz/a		POST	A	12.5 ml/mx			
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
11	10 PM CADRE	2 AS		4.0 oz/a		POST	A	3.125 ml/mx	111	208	302
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
12	10 PM COBRA	2 EC		12.5 oz/a		POST	A	9.765 ml/mx	112	209	311
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	A	12.5 ml/mx			
	2,4-DB	1.75 SL		18.0 oz/a		POST	A	14.06 ml/mx			
13	NTC								113	212	308

Sort Order: Treatment

Trial Comments

ANNUAL GRASS = TEXAS PANICUM + CRABGRASS + CROWFOOTGRASS

JUNE 23, 2015
 SUNRISE: 6:29 AM

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SUNSET: 8:41 PM

JUNE 23 - WEATHER DATA

7 AM: AIR = 74 F; 99% RH; 81 F 4" SOIL TEMP; 0 WIND; 0 CLOUD COVER; DEW - WET FROM RAIN

12 PM: AIR = 76 F; 88% RH; 84 F 4" SOIL TEMP; 6 MPH WIND; 0 CLOUD COVER; NO DEW

5 PM: AIR = 96 F; 51% RH; 89 F 4" SOIL TEMP; 7 MPH; 0 CLOUD COVER; NO DEW

10 PM: AIR = 73 F; 92% RH; 81 F 4" SOIL TEMP; 0 WIND; DARK; WET FROM RAIN

SUMMARY:

1) AT 15 DAT, THE FOLLOWING OBSERVATIONS WERE MADE:

PALMER AMARANTH CONTROL

A) A SIGNIFICANT INTERACTION WAS OBSERVED BETWEEN TIME OF DAY AND TREATMENT.

B) CADRE WAS MORE EFFECTIVE WHEN APPLIED AT 5 PM WHEN COMPARED TO OTHER TIMINGS. LOWEST CONTROL WITH CADRE WAS AT 7 AM OR 10 PM.

B) TIME OF DAY HAD NO EFFECT ON GRAMOXONE OR COBRA TREATMENTS.

ANNUAL GRASS CONTROL

A) A SIGNIFICANT INTERACTION WAS OBSERVED BETWEEN TIME OF DAY AND TREATMENT.

B) ANNUAL GRASS CONTROL WITH GRAMOXONE TREATMENTS WAS REDUCED AT 7 AM WHEN COMPARED TO 5 PM OR 10 PM.

C) TIME OF DAY DID NOT INFLUENCE GRASS CONTROL WITH CADRE TREATMENTS.

D) GRASS CONTROL WITH COBRA WAS BETTER AT 7 AM WHEN COMPARED TO OTHER TIMINGS.

FLORIDA BEGGARWEED CONTROL

A) A SIGNIFICANT INTERACTION WAS OBSERVED BETWEEN TIME OF DAY AND TREATMENT.

B) TIME OF DAY HAD NO EFFECT WITH GRAMOXONE OR CADRE TREATMENTS.

C) FLORIDA BEGGARWEED CONTROL WITH COBRA TREATMENTS WAS BETTER AT 7 AM.

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA	2-6" TALL	_____	_____	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
Density, Unit:		_____	_____	_____	_____	_____	_____
Weed 2	Stage: DEDTO	1-2" TALL	_____	_____	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
Density, Unit:		_____	_____	_____	_____	_____	_____
Weed 3	Stage: AGRASS	1-3" TALL	_____	_____	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
Density, Unit:		_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	34	_____	_____	_____	_____	_____	_____
Nozzle Type:	FLAT FAN	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002DG	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.0	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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TIME OF DAY EFFECTS ON PEANUT HERBICIDES NON-CROP-BAREGROUND Trial ID: PE-26-15 Study Dir.: WEN CARTER Location: PONDER Investigator: Eric P. Prostko							
	AMAPA ----- CONTROL PERCENT Jun-30-15 7 DA-A	ANNUAL GRASS ----- CONTROL PERCENT Jun-30-15 7 DA-A	DEDTO ----- CONTROL PERCENT Jun-30-15 7 DA-A	AMAPA ----- CONTROL PERCENT Jul-2-15 9 DA-A	ANNUAL GRASS ----- CONTROL PERCENT Jul-2-15 9 DA-A	DEDTO ----- CONTROL PERCENT Jul-2-15 9 DA-A	AMAPA ----- CONTROL PERCENT Jul-8-15 15 DA-A
Trt Treatment Form Form Rate Grow Appl No. Name Conc Type Rate Unit Stg Code	1	2	3	4	5	6	7
TABLE OF R MEANS							
Replicate 1	85.2	64.9	71.8	84.3	65.8	77.0	90.6
Replicate 2	87.7	68.8	72.0	87.7	74.2	74.0	91.4
Replicate 3	84.4	70.4	72.0	86.0	74.2	74.3	88.9
TABLE OF A (TIME OF DAY) MEANS							
1 7 AM	87.7 a	77.7 a	76.0 a	86.0 a	75.0 a	82.9 a	88.2 a
2 12 PM	84.9 a	71.1 a	69.9 a	86.0 a	75.0 a	73.2 b	91.0 a
3 5 PM	86.6 a	65.6 a	70.3 a	87.1 a	68.8 a	69.7 b	94.3 a
4 10 PM	83.9 a	57.8 a	71.4 a	84.9 a	66.7 a	74.7 ab	87.7 a
LSD P=.10	2.86	13.57	8.79	4.99	10.20	8.47	4.83
Standard Deviation	3.12	14.82	9.60	5.44	11.13	9.25	5.27
CV	3.64	21.78	13.34	6.33	15.60	12.31	5.84
TABLE OF B (TREATMENT) MEANS							
1 GRAMOXONE 2 SL 12.0 oz/a POST A	99.0 a	87.5 a	96.6 a	99.0 a	90.3 a	97.3 a	99.0 a
1 STORM 4 SL 16.0 oz/a POST A							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
2 CADRE 2 AS 4.0 oz/a POST A	59.6 b	68.7 b	54.6 c	60.0 b	74.6 a	55.0 c	72.9 b
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
2 2,4-DB 1.75 SL 18.0 oz/a POST A							
3 COBRA 2 EC 12.5 oz/a POST A	98.7 a	47.9 c	64.6 b	99.0 a	49.2 b	73.1 b	99.0 a
3 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
3 2,4-DB 1.75 SL 18.0 oz/a POST A							
LSD P=.10	4.61	16.30	5.89	5.02	17.85	3.81	3.84
Standard Deviation	5.30	18.73	6.77	5.77	20.50	4.38	4.41
CV	6.18	27.53	9.42	6.71	28.73	5.83	4.88
TABLE OF A (TIME OF DAY) B (TREATMENT) MEANS							
1 7 AM	99.0 a	85.0 ab	94.7 a	99.0 a	81.7 ab	97.7 a	99.0 a
1 GRAMOXONE 2 SL 12.0 oz/a POST A							
1 STORM 4 SL 16.0 oz/a POST A							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
2 12 PM	99.0 a	88.3 a	96.3 a	99.0 a	91.7 a	96.3 a	99.0 a
1 GRAMOXONE 2 SL 12.0 oz/a POST A							
1 STORM 4 SL 16.0 oz/a POST A							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
3 5 PM	99.0 a	88.3 a	97.7 a	99.0 a	96.3 a	99.0 a	99.0 a
1 GRAMOXONE 2 SL 12.0 oz/a POST A							
1 STORM 4 SL 16.0 oz/a POST A							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
4 10 PM	99.0 a	88.3 a	97.7 a	99.0 a	91.7 a	96.0 a	99.0 a
1 GRAMOXONE 2 SL 12.0 oz/a POST A							
1 STORM 4 SL 16.0 oz/a POST A							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
1 7 AM	65.0 a	76.3 abc	55.0 a	60.0 a	76.7 bc	56.7 c	66.7 d
2 CADRE 2 AS 4.0 oz/a POST A							
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
2 2,4-DB 1.75 SL 18.0 oz/a POST A							
2 12 PM	56.7 a	65.0 c	50.0 a	60.0 a	73.3 bcd	53.3 c	75.0 c
2 CADRE 2 AS 4.0 oz/a POST A							
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
2 2,4-DB 1.75 SL 18.0 oz/a POST A							
3 5 PM	61.7 a	68.3 c	58.3 a	63.3 a	73.3 bcd	56.7 c	85.0 b
2 CADRE 2 AS 4.0 oz/a POST A							
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A							
2 2,4-DB 1.75 SL 18.0 oz/a POST A							

Means followed by same letter 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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Weed Code							AMAPA	ANNUAL	DEDTO	AMAPA	ANNUAL	DEDTO	AMAPA
Crop Code							-----	GRASS	-----	-----	GRASS	-----	-----
Rating Data Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							Jun-30-15	Jun-30-15	Jun-30-15	Jul-2-15	Jul-2-15	Jul-2-15	Jul-8-15
Trt-Eval Interval							7 DA-A	7 DA-A	7 DA-A	9 DA-A	9 DA-A	9 DA-A	15 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	1	2	3	4	5	6	7
4	10 PM						55.0 a	65.0 c	55.0 a	56.7 a	75.0 bc	53.3 c	65.0 d
2	CADRE	2	AS	4.0	oz/a	POST A							
2	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST A							
2	2,4-DB	1.75	SL	18.0	oz/a	POST A							
1	7 AM						99.0 a	71.7 bc	78.3 a	99.0 a	66.7 cd	94.3 a	99.0 a
3	COBRA	2	EC	12.5	oz/a	POST A							
3	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST A							
3	2,4-DB	1.75	SL	18.0	oz/a	POST A							
2	12 PM						99.0 a	60.0 c	63.3 a	99.0 a	60.0 d	70.0 b	99.0 a
3	COBRA	2	EC	12.5	oz/a	POST A							
3	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST A							
3	2,4-DB	1.75	SL	18.0	oz/a	POST A							
3	5 PM						99.0 a	40.0 d	55.0 a	99.0 a	36.7 e	53.3 c	99.0 a
3	COBRA	2	EC	12.5	oz/a	POST A							
3	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST A							
3	2,4-DB	1.75	SL	18.0	oz/a	POST A							
4	10 PM						97.7 a	20.0 e	61.7 a	99.0 a	33.3 e	74.7 b	99.0 a
3	COBRA	2	EC	12.5	oz/a	POST A							
3	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST A							
3	2,4-DB	1.75	SL	18.0	oz/a	POST A							
LSD P=.10							4.28	16.50	11.14	7.92	14.96	13.19	7.67
Standard Deviation							2.94	11.34	7.65	5.44	10.28	9.06	5.27
CV							3.43	16.67	10.64	6.33	14.41	12.06	5.84

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Weed Code		ANNUAL	DEDTO
Crop Code		GRASS	-----
Rating Data Type		CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT
Rating Date		Jul-8-15	Jul-8-15
Trt-Eval Interval		15 DA-A	15 DA-A
Trt Treatment	Form Form	Rate Grow	Appl
No. Name	Conc Type	Rate Unit Stg	Code
			8 9
TABLE OF R MEANS			
Replicate 1			
			79.5 86.8
Replicate 2			
			80.3 79.7
Replicate 3			
			76.2 78.5
TABLE OF A (TIME OF DAY) MEANS			
1 7 AM			
			81.6 a 92.1 a
2 12 PM			
			77.8 a 76.9 a
3 5 PM			
			79.3 a 78.6 a
4 10 PM			
			76.0 a 79.1 a
LSD P=.10			
Standard Deviation			
CV			
			8.84 13.34
			9.65 14.56
			12.26 17.83
TABLE OF B (TREATMENT) MEANS			
1 GRAMOXONE 2 SL 12.0 oz/a POST A			
			89.8 a 96.3 a
1 STORM 4 SL 16.0 oz/a POST A			
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
2 CADRE 2 AS 4.0 oz/a POST A			
			88.3 a 86.8 b
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
2 2,4-DB 1.75 SL 18.0 oz/a POST A			
3 COBRA 2 EC 12.5 oz/a POST A			
			57.9 b 61.9 c
3 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
3 2,4-DB 1.75 SL 18.0 oz/a POST A			
LSD P=.10			
Standard Deviation			
CV			
			5.17 4.14
			5.94 4.76
			7.55 5.83
TABLE OF A (TIME OF DAY) B (TREATMENT) MEANS			
1 7 AM			
			81.7 b 96.0 ab
1 GRAMOXONE 2 SL 12.0 oz/a POST A			
1 STORM 4 SL 16.0 oz/a POST A			
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
2 12 PM			
			90.0 ab 94.3 ab
1 GRAMOXONE 2 SL 12.0 oz/a POST A			
1 STORM 4 SL 16.0 oz/a POST A			
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
3 5 PM			
			93.0 a 99.0 a
1 GRAMOXONE 2 SL 12.0 oz/a POST A			
1 STORM 4 SL 16.0 oz/a POST A			
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
4 10 PM			
			94.7 a 96.0 ab
1 GRAMOXONE 2 SL 12.0 oz/a POST A			
1 STORM 4 SL 16.0 oz/a POST A			
1 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
1 7 AM			
			93.0 a 92.7 ab
2 CADRE 2 AS 4.0 oz/a POST A			
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
2 2,4-DB 1.75 SL 18.0 oz/a POST A			
2 12 PM			
			85.0 ab 83.0 b
2 CADRE 2 AS 4.0 oz/a POST A			
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
2 2,4-DB 1.75 SL 18.0 oz/a POST A			
3 5 PM			
			88.3 ab 86.7 ab
2 CADRE 2 AS 4.0 oz/a POST A			
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST A			
2 2,4-DB 1.75 SL 18.0 oz/a POST A			

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COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Jun-30-15 7 DA-A (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	12862.750000				
R	2	69.500000	34.750000	4.023	0.0460	
A	3	76.750000	25.583333	2.624	0.1452	2.9
RA	6	58.500000	9.750000			
B	2	12325.166667	6162.583333	219.439	0.0001	4.6
RB	4	112.333333	28.083333			
AB	6	116.833333	19.472222	2.254	0.1088	4.3
RAB	12	103.666667	8.638889			

COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT Jun-30-15 7 DA-A (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	18800.972222				
R	2	190.888889	95.444444	0.742	0.4966	
A	3	1922.305556	640.768519	2.919	0.1224	13.6
RA	6	1317.111111	219.518519			
B	2	9408.388889	4704.194444	13.408	0.0168	16.3
RB	4	1403.444444	350.861111			
AB	6	3016.277778	502.712963	3.911	0.0213	16.5
RAB	12	1542.555556	128.546296			

COMPLETE FACTORIAL AOV For DEDTO ----- CONTROL PERCENT Jun-30-15 7 DA-A (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	13988.750000				
R	2	0.500000	0.250000	0.004	0.9957	
A	3	211.638889	70.546296	0.766	0.5534	8.8
RA	6	552.611111	92.101852			
B	2	11552.000000	5776.000000	125.907	0.0002	5.9
RB	4	183.500000	45.875000			
AB	6	785.777778	130.962963	2.236	0.1109	11.1
RAB	12	702.722222	58.560185			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Jul-2-15 9 DA-A (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	12968.000000				
R	2	66.666667	33.333333	1.125	0.3566	
A	3	22.222222	7.407407	0.250	0.8587	5.0
RA	6	177.777778	29.629630			
B	2	12168.000000	6084.000000	182.520	0.0001	5.0
RB	4	133.333333	33.333333			
AB	6	44.444444	7.407407	0.250	0.9500	7.9
RAB	12	355.555556	29.629630			

COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT Jul-2-15 9 DA-A (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	17474.305556				
R	2	566.722222	283.361111	2.680	0.1091	
A	3	496.750000	165.583333	1.336	0.3478	10.2
RA	6	743.500000	123.916667			
B	2	10355.055556	5177.527778	12.314	0.0195	17.8
RB	4	1681.777778	420.444444			
AB	6	2361.833333	393.638889	3.723	0.0251	15.0
RAB	12	1268.666667	105.722222			

COMPLETE FACTORIAL AOV For DEDTO ----- CONTROL PERCENT Jul-2-15 9 DA-A (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	15035.555556				
R	2	64.888889	32.444444	0.395	0.6821	
A	3	845.111111	281.703704	3.295	0.0996	8.5
RA	6	512.888889	85.481481			
B	2	10784.388889	5392.194444	280.925	0.0001	3.8
RB	4	76.777778	19.194444			
AB	6	1766.055556	294.342593	3.584	0.0285	13.2
RAB	12	985.444444	82.120370			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Jul-8-15 15 DA-A (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	6815.638889				
R	2	38.888889	19.444444	0.700	0.5158	
A	3	252.083333	84.027778	3.025	0.1153	4.8
RA	6	166.666667	27.777778			
B	2	5442.722222	2721.361111	139.956	0.0002	3.8
RB	4	77.777778	19.444444			
AB	6	504.166667	84.027778	3.025	0.0486	7.7
RAB	12	333.333333	27.777778			

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COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT Jul-8-15 15 DA-A (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	10344.000000				
R	2	116.666667	58.333333	1.315	0.3046	
A	3	150.222222	50.074074	0.538	0.6734	8.8
RA	6	558.444444	93.074074			
B	2	7765.166667	3882.583333	110.014	0.0003	5.2
RB	4	141.166667	35.291667			
AB	6	1079.944444	179.990741	4.057	0.0187	9.7
RAB	12	532.388889	44.365741			

COMPLETE FACTORIAL AOV For DEDTO ----- CONTROL PERCENT Jul-8-15 15 DA-A (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	35	13390.000000				
R	2	488.666667	244.333333	2.784	0.1016	
A	3	1333.111111	444.370370	2.096	0.2022	13.3
RA	6	1272.222222	212.037037			
B	2	7572.166667	3786.083333	167.033	0.0001	4.1
RB	4	90.666667	22.666667			
AB	6	1580.055556	263.342593	3.001	0.0498	13.6
RAB	12	1053.111111	87.759259			

Weed Code
 AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
 DEDTO = BEGGARWEED, FLORIDA / DESMODIUM TORTUOSUM (SWEET) DC.

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TIME OF DAY EFFECTS ON PEANUT HERBICIDES NON-CROP-BAREGROUND							AMAPA	ANNUAL	DEDTO	AMAPA	ANNUAL	DEDTO		
Trial ID: PE-26-15		Study Dir.: WEN CARTER					-----	GRASS	-----	-----	GRASS	-----		
Location: PONDER		Investigator: Eric P. Prostko					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Data Type						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Unit						Jun-30-15	Jun-30-15	Jun-30-15	Jul-2-15	Jul-2-15	Jul-2-15			
Rating Date						7 DA-A	7 DA-A	7 DA-A	9 DA-A	9 DA-A	9 DA-A			
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6
1	7 AM							101	99.0	90.0	99.0	99.0	90.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a		POST A		207	99.0	85.0	90.0	99.0	80.0	95.0
	STORM	4 SL		16.0 oz/a		POST A		305	99.0	80.0	95.0	99.0	75.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A								
								Mean =	99.0	85.0	94.7	99.0	81.7	97.7
2	7 AM							102	65.0	99.0	50.0	50.0	80.0	60.0
	CADRE	2 AS		4.0 oz/a		POST A		204	65.0	65.0	65.0	60.0	75.0	60.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		310	65.0	65.0	50.0	70.0	75.0	50.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	65.0	76.3	55.0	60.0	76.7	56.7
3	7 AM							103	99.0	65.0	75.0	99.0	60.0	99.0
	COBRA	2 EC		12.5 oz/a		POST A		201	99.0	85.0	95.0	99.0	80.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		307	99.0	65.0	65.0	99.0	60.0	85.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	99.0	71.7	78.3	99.0	66.7	94.3
4	12 PM							104	99.0	85.0	99.0	99.0	85.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a		POST A		211	99.0	85.0	95.0	99.0	95.0	95.0
	STORM	4 SL		16.0 oz/a		POST A		313	99.0	95.0	95.0	99.0	95.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A								
								Mean =	99.0	88.3	96.3	99.0	91.7	96.3
5	12 PM							105	50.0	65.0	50.0	50.0	75.0	60.0
	CADRE	2 AS		4.0 oz/a		POST A		206	65.0	65.0	50.0	70.0	70.0	50.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		309	55.0	65.0	50.0	60.0	75.0	50.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	56.7	65.0	50.0	60.0	73.3	53.3
6	12 PM							106	99.0	65.0	65.0	99.0	60.0	60.0
	COBRA	2 EC		12.5 oz/a		POST A		210	99.0	50.0	60.0	99.0	60.0	80.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		303	99.0	65.0	65.0	99.0	60.0	70.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	99.0	60.0	63.3	99.0	60.0	70.0
7	5 PM							107	99.0	90.0	99.0	99.0	99.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a		POST A		213	99.0	90.0	99.0	99.0	95.0	99.0
	STORM	4 SL		16.0 oz/a		POST A		306	99.0	85.0	95.0	99.0	95.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A								
								Mean =	99.0	88.3	97.7	99.0	96.3	99.0
8	5 PM							108	65.0	65.0	50.0	70.0	75.0	50.0
	CADRE	2 AS		4.0 oz/a		POST A		203	65.0	65.0	65.0	60.0	70.0	60.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		304	55.0	75.0	60.0	60.0	75.0	60.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	61.7	68.3	58.3	63.3	73.3	56.7
9	5 PM							109	99.0	0.0	50.0	99.0	0.0	50.0
	COBRA	2 EC		12.5 oz/a		POST A		202	99.0	55.0	50.0	99.0	50.0	50.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		301	99.0	65.0	65.0	99.0	60.0	60.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	99.0	40.0	55.0	99.0	36.7	53.3
10	10 PM							110	99.0	90.0	99.0	99.0	90.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a		POST A		205	99.0	85.0	95.0	99.0	90.0	90.0
	STORM	4 SL		16.0 oz/a		POST A		312	99.0	90.0	99.0	99.0	95.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A								
								Mean =	99.0	88.3	97.7	99.0	91.7	96.0
11	10 PM							111	50.0	65.0	50.0	50.0	75.0	50.0
	CADRE	2 AS		4.0 oz/a		POST A		208	65.0	65.0	50.0	70.0	75.0	50.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		302	50.0	65.0	65.0	50.0	75.0	60.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	55.0	65.0	55.0	56.7	75.0	53.3

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Weed Code						AMAPA	ANNUAL	DEDTO	AMAPA	ANNUAL	DEDTO			
Crop Code						----	GRASS	----	----	GRASS	----			
Rating Data Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Date						Jun-30-15	Jun-30-15	Jun-30-15	Jul-2-15	Jul-2-15	Jul-2-15			
Trt-Eval Interval						7 DA-A	7 DA-A	7 DA-A	9 DA-A	9 DA-A	9 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6
12	10 PM							112	99.0	0.0	75.0	99.0	0.0	99.0
	COBRA	2 EC		12.5 oz/a		POST A		209	99.0	30.0	50.0	99.0	50.0	60.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST A		311	95.0	30.0	60.0	99.0	50.0	65.0
	2,4-DB	1.75 SL		18.0 oz/a		POST A								
								Mean =	97.7	20.0	61.7	99.0	33.3	74.7
13	NTC							113	0.0	0.0	0.0	0.0	0.0	0.0
								212	0.0	0.0	0.0	0.0	0.0	0.0
								308	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

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Weed Code						AMAPA	ANNUAL	DEDTO	
Crop Code						-----	GRASS	-----	
Rating Data Type						CONTROL	CONTROL	CONTROL	
Rating Unit						PERCENT	PERCENT	PERCENT	
Rating Date						Jul-8-15	Jul-8-15	Jul-8-15	
Trt-Eval Interval						15 DA-A	15 DA-A	15 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code Plot	7	8	9
1	7 AM					101	99.0	90.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a	POST A	207	99.0	90.0	90.0
	STORM	4 SL		16.0 oz/a	POST A	305	99.0	65.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A				
						Mean =	99.0	81.7	96.0
2	7 AM					102	65.0	95.0	99.0
	CADRE	2 AS		4.0 oz/a	POST A	204	65.0	99.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A	310	70.0	85.0	80.0
	2,4-DB	1.75 SL		18.0 oz/a	POST A				
						Mean =	66.7	93.0	92.7
3	7 AM					103	99.0	60.0	99.0
	COBRA	2 EC		12.5 oz/a	POST A	201	99.0	85.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A	307	99.0	65.0	65.0
	2,4-DB	1.75 SL		18.0 oz/a	POST A				
						Mean =	99.0	70.0	87.7
4	12 PM					104	99.0	85.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a	POST A	211	99.0	90.0	99.0
	STORM	4 SL		16.0 oz/a	POST A	313	99.0	95.0	85.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A				
						Mean =	99.0	90.0	94.3
5	12 PM					105	65.0	90.0	99.0
	CADRE	2 AS		4.0 oz/a	POST A	206	85.0	80.0	80.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A	309	75.0	85.0	70.0
	2,4-DB	1.75 SL		18.0 oz/a	POST A				
						Mean =	75.0	85.0	83.0
6	12 PM					106	99.0	60.0	50.0
	COBRA	2 EC		12.5 oz/a	POST A	210	99.0	65.0	60.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A	303	99.0	50.0	50.0
	2,4-DB	1.75 SL		18.0 oz/a	POST A				
						Mean =	99.0	58.3	53.3
7	5 PM					107	99.0	99.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a	POST A	213	99.0	90.0	99.0
	STORM	4 SL		16.0 oz/a	POST A	306	99.0	90.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A				
						Mean =	99.0	93.0	99.0
8	5 PM					108	95.0	90.0	80.0
	CADRE	2 AS		4.0 oz/a	POST A	203	90.0	90.0	90.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A	304	70.0	85.0	90.0
	2,4-DB	1.75 SL		18.0 oz/a	POST A				
						Mean =	85.0	88.3	86.7
9	5 PM					109	99.0	50.0	50.0
	COBRA	2 EC		12.5 oz/a	POST A	202	99.0	60.0	40.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A	301	99.0	60.0	60.0
	2,4-DB	1.75 SL		18.0 oz/a	POST A				
						Mean =	99.0	56.7	50.0
10	10 PM					110	99.0	95.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a	POST A	205	99.0	90.0	90.0
	STORM	4 SL		16.0 oz/a	POST A	312	99.0	99.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A				
						Mean =	99.0	94.7	96.0
11	10 PM					111	70.0	90.0	99.0
	CADRE	2 AS		4.0 oz/a	POST A	208	65.0	85.0	70.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A	302	60.0	85.0	85.0
	2,4-DB	1.75 SL		18.0 oz/a	POST A				
						Mean =	65.0	86.7	84.7

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TIME OF DAY EFFECTS ON PEANUT HERBICIDES NON-CROP-BAREGROUND		
Trial ID:	PE-26-15	Study Dir.: WEN CARTER
Location:	PONDER	Investigator: Eric P. Prostko

<u>Weed Code</u> AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. DEDTO = BEGGARWÉED, FLORIDA / DESMODIUM TORTUOSUM (SWEET) DC.
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