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INFLUENCE OF TIME OF DAY APPLICATIONS ON PEANUT
 WEED CONTROL SYSTEMS - I
 Trial ID: PE-04A-15 Study Dir.: O.W. CARTER
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Amt Product to Measure	Rep 1	2	3	4
1	7 AM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	101	204	305	406
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	CADRE	2	AS	4.0	oz/a	POST	3.125 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
2	7 AM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	102	207	301	405
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	COBRA	2	EC	12.0	oz/a	POST	9.374 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
3	12 PM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	103	208	307	401
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	CADRE	2	AS	4.0	oz/a	POST	3.125 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
4	12 PM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	104	202	304	403
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	COBRA	2	EC	12.0	oz/a	POST	9.374 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
5	5 PM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	105	203	306	409
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	CADRE	2	AS	4.0	oz/a	POST	3.125 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
6	5 PM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	106	201	309	404
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	COBRA	2	EC	12.0	oz/a	POST	9.374 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
7	10 PM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	107	209	303	402
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	CADRE	2	AS	4.0	oz/a	POST	3.125 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
8	10 PM GRAMOXONE	2	SL	12.0	oz/a	EPOST	9.374 ml/mx	108	206	308	407
	STORM	4	SL	16.0	oz/a	EPOST	12.5 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	12.5 ml/mx				
	COBRA	2	EC	12.0	oz/a	POST	9.374 ml/mx				
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	12.5 ml/mx				
	2,4-DB	1.75	SL	16.0	oz/a	POST	12.5 ml/mx				
9	NTC							109	205	302	408

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Reps: 4
Spray vol: 15 GAL/AC
Sort Order: Treatment

Plots: 6 by 25 feet
Mix Size: 1.5 liters (calculated mix size .78211)

Trial Comments

PROWL H20 32 OZ/A PRE OVER WHOLE TEST (EXCEPT NTC) - TIME OF DAY NOT IMPORTANT

ANNUAL GRASS = CRABGRASS + TEXAS PANICUM + CROWFOOTGRASS

MAY 12 - EPOST - SUNRISE = 6:39 AM SUNSET = 8:20 PM

JUNE 3 - POST - SUNRISE = 6:29 AM SUNSET = 8:34 PM

DIGGING DATE: SEPTEMBER 14
HARVEST DATE: SEPTEMBER 18
HARVEST MOISTURE: 17.4%
YIELDS ADJUSTED TO 10%

SUMMARY:

1) THERE WAS NO INTERACTION BETWEEN TIME OF DAY OR HERBICIDE TREATMENT FOR ANY DATA COLLECTED EXCEPT PEANUT LEAF BURN ON JUNE 12.

2) TIME OF DAY EFFECTS WERE ONLY SIGNIFICANT FOR THE FOLLOWING DATA:

PEANUT LEAF BURN ON MAY 14 - 2 DAT (7 AM > 12 PM = 5 PM > 10 PM)

PEANUT LEAF BURN ON MAY 15 - 3 DAT (7 AM = 5 PM > 12 PM > 10 PM)

ANNUAL GRASS CONTROL ON JUNE 3 (7 AM < 10 PM; 12 PM < 5 PM = 10 PM)

3) TREATMENT EFFECTS WERE ONLY SIGNIFICANT FOR ANNUAL GRASS CONTROL ON JUNE 3 (CADRE > COBRA).

4) MOST IMPORTANTLY, PALMER AMARANTH CONTROL AND PEANUT YIELDS WERE NOT INFLUENCED BY TIME OF DAY OR HERBICIDE TREATMENT.

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA 2"	SAME	SAME	SAME	SAME	SAME	SAME
	Stage Scale:						
	Density, Unit: 25 FT2						
Weed 2	Stage: MOLVE 0.5"						
	Stage Scale:						
	Density, Unit:						
Weed 3	Stage: AGRASS 1-2"						
	Stage Scale:						
	Density, Unit:						

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME		SAME	SAME	SAME	SAME
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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INFLUENCE OF TIME OF DAY APPLICATIONS ON PEANUT WEED CONTROL SYSTEMS - I							
Trial ID: PE-04A-15		Study Dir.: O.W. CARTER					
Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code	-----	AMAPA	-----	AMAPA	-----	AMAPA	AMAPA
Crop Code	ARAHY	-----	ARAHY	-----	ARAHY	-----	AMAPA
Part Rated	LEAF -		LEAF -		PLANT -		
Rating Data Type	BURN	CONTROL	BURN	CONTROL	STUNTING	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May-14-15	May-14-15	May-15-15	May-15-15	May-26-15	May-26-15	Jun-3-15
Crop Stage	10:45 AM	10:45 AM	8:30 am	8:30 AM			
PRM Data Type							
# Subsamples, Dec.							
Trt Treatment	Form	Form	Rate	Grow			
No. Name	Conc	Type	Rate	Unit	Stg		
	1		2		3	4	5
	6		7				
TABLE OF R MEANS							
Replicate 1	25.0	97.9	36.9	99.0	5.0	93.1	94.9
Replicate 2	33.8	99.0	37.5	99.0	5.0	99.0	96.9
Replicate 3	30.0	99.0	33.1	99.0	6.3	99.0	96.9
Replicate 4	28.8	99.0	31.9	99.0	5.0	98.5	96.8
TABLE OF A (TIME OF DAY) MEANS							
1 7 AM	44.4 a	99.0 a	46.3 a	99.0 a	6.3 a	98.5 a	95.1 a
2 12 PM	31.3 b	97.9 a	31.3 b	99.0 a	6.3 a	94.3 a	94.1 a
3 5 PM	35.6 b	99.0 a	46.3 a	99.0 a	7.5 a	97.9 a	97.7 a
4 10 PM	6.3 c	99.0 a	15.6 c	99.0 a	1.3 a	99.0 a	98.5 a
LSD P=.10	4.89	1.46	6.58	.	4.86	4.78	3.79
Standard Deviation	5.34	1.59	7.17	0.00	5.30	5.22	4.14
CV	18.16	1.61	20.59	0.00	99.83	5.36	4.30
TABLE OF B (TREATMENT) MEANS							
1 GRAMOXONE 2 SL 12.0 oz/a EPOST	30.0 a	99.0 a	35.0 a	99.0 a	5.6 a	97.9 a	95.8 a
1 STORM 4 SL 16.0 oz/a EPOST							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST							
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 16.0 oz/a POST							
2 GRAMOXONE 2 SL 12.0 oz/a EPOST	28.8 a	98.4 a	34.7 a	99.0 a	5.0 a	96.9 a	96.8 a
2 STORM 4 SL 16.0 oz/a EPOST							
2 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST							
2 COBRA 2 EC 12.0 oz/a POST							
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST							
2 2,4-DB 1.75 SL 16.0 oz/a POST							
LSD P=.10	5.63	1.32	2.78	.	1.47	3.33	3.32
Standard Deviation	6.77	1.59	3.35	0.00	1.77	4.00	3.99
CV	23.05	1.61	9.60	0.00	33.28	4.11	4.14
TABLE OF A (TIME OF DAY) B (TREATMENT) MEANS							
1 7 AM	45.0 a	99.0 a	45.0 a	99.0 a	5.0 a	98.0 a	93.5 a
1 GRAMOXONE 2 SL 12.0 oz/a EPOST							
1 STORM 4 SL 16.0 oz/a EPOST							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST							
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 16.0 oz/a POST							
2 12 PM	35.0 a	99.0 a	30.0 a	99.0 a	5.0 a	98.0 a	92.3 a
1 GRAMOXONE 2 SL 12.0 oz/a EPOST							
1 STORM 4 SL 16.0 oz/a EPOST							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST							
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 16.0 oz/a POST							
3 5 PM	33.8 a	99.0 a	47.5 a	99.0 a	10.0 a	96.8 a	98.6 a
1 GRAMOXONE 2 SL 12.0 oz/a EPOST							
1 STORM 4 SL 16.0 oz/a EPOST							
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST							
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 16.0 oz/a POST							

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	-----		AMAPA	-----		AMAPA	-----			
Crop Code	ARAHY		-----	ARAHY		-----	ARAHY		-----	AMAPA			
Part Rated	LEAF -		-----	LEAF -		-----	PLANT -		-----	-----			
Rating Data Type	BURN		CONTROL	BURN		CONTROL	STUNTING		CONTROL	CONTROL			
Rating Unit	PERCENT		PERCENT	PERCENT		PERCENT	PERCENT		PERCENT	PERCENT			
Rating Date	May-14-15		May-14-15	May-15-15		May-15-15	May-26-15		May-26-15	Jun-3-15			
Crop Stage	10:45 AM		10:45 AM	8:30 am		8:30 AM							
PRM Data Type													
# Subsamples, Dec.													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	1	2	3	4	5	6	7
4	10 PM						6.3 a	99.0 a	17.5 a	99.0 a	2.5 a	99.0 a	99.0 a
1	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
1	STORM	4	SL	16.0 oz/a	EPOST								
1	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
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	16.0 oz/a	POST								
1	7 AM						43.8 a	99.0 a	47.5 a	99.0 a	7.5 a	99.0 a	96.8 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
2	12 PM						27.5 a	96.8 a	32.5 a	99.0 a	7.5 a	90.5 a	95.9 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
3	5 PM						37.5 a	99.0 a	45.0 a	99.0 a	5.0 a	99.0 a	96.8 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
4	10 PM						6.3 a	99.0 a	13.8 a	99.0 a	0.0 a	99.0 a	98.0 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
LSD P=.10							8.84	2.06	5.93	.	6.87	9.28	6.01
Standard Deviation							6.82	1.59	4.57	0.00	5.30	7.16	4.49
CV							23.22	1.61	13.13	0.00	99.83	7.35	4.66

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Weed Code	ANNUAL GRASS		MOLVE	AMAPA	----- ARAHY LEAF - BURN	AMAPA	----- ARAHY PLOT - YIELD	ARAHY PLOT - YIELD	
Crop Code	CONTROL PERCENT		CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	LBS/PLOT	LBS/A	
Part Rated	Jun-3-15		Jun-3-15	Jun-12-15	Jun-12-15	Jul-29-15	Sep-18-15	Sep-18-15	
Rating Data Type								TY1	
Rating Unit								- 0	
Rating Date									
Crop Stage									
PRM Data Type									
# Subsamples, Dec.							- 2		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg			
							8	9	
							10	11	
							12	13	
							14		
TABLE OF R MEANS									
Replicate 1									
							89.5	99.0	94.5
							6.8	92.9	22.03
							5871		
Replicate 2									
							94.4	99.0	99.0
							7.5	98.0	23.34
							6220		
Replicate 3									
							96.1	98.5	99.0
							8.1	99.0	24.96
							6652		
Replicate 4									
							98.0	99.0	88.5
							7.5	95.9	26.17
							6975		
TABLE OF A (TIME OF DAY) MEANS									
1 7 AM									
							93.4 bc	98.5 a	94.8 a
							8.1 b	93.8 a	24.37 a
							6495 a		
2 12 PM									
							91.0 c	99.0 a	88.4 a
							10.5 a	96.7 a	24.07 a
							6416 a		
3 5 PM									
							95.2 ab	99.0 a	98.9 a
							6.3 c	97.8 a	23.70 a
							6317 a		
4 10 PM									
							98.5 a	99.0 a	99.0 a
							5.0 c	97.5 a	24.34 a
							6488 a		
LSD P=.10									
							3.67	0.64	15.18
							4.00	0.70	16.56
							1.54	5.03	2.404
							1.68	5.49	699.0
							22.42	5.69	10.872
							10.9		
TABLE OF B (TREATMENT) MEANS									
1 GRAMOXONE 2 SL 12.0 oz/a EPOST									
							96.8 a	99.0 a	91.6 a
							1.6 b	94.5 a	24.57 a
							6549 a		
1 STORM 4 SL 16.0 oz/a EPOST									
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST									
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 16.0 oz/a POST									
2 GRAMOXONE 2 SL 12.0 oz/a EPOST									
							92.3 b	98.8 a	98.9 a
							13.4 a	98.4 a	23.67 a
							6309 a		
2 STORM 4 SL 16.0 oz/a EPOST									
2 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST									
2 COBRA 2 EC 12.0 oz/a POST									
2 DUAL MAGNUM 7.62 EC 16.0 oz/a POST									
2 2,4-DB 1.75 SL 16.0 oz/a POST									
LSD P=.10									
							3.70	0.59	11.68
							4.44	0.71	14.04
							1.94	4.82	2.566
							2.33	5.79	3.084
							31.21	6.00	12.786
							12.8		
TABLE OF A (TIME OF DAY) B (TREATMENT) MEANS									
1 7 AM									
							94.8 a	99.0 a	90.5 a
							0.0 e	88.5 a	24.08 a
							6417 a		
1 GRAMOXONE 2 SL 12.0 oz/a EPOST									
1 STORM 4 SL 16.0 oz/a EPOST									
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST									
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 16.0 oz/a POST									
2 12 PM									
							96.8 a	99.0 a	78.0 a
							6.3 d	96.8 a	24.94 a
							6646 a		
1 GRAMOXONE 2 SL 12.0 oz/a EPOST									
1 STORM 4 SL 16.0 oz/a EPOST									
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST									
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 16.0 oz/a POST									
3 5 PM									
							97.5 a	99.0 a	98.8 a
							0.0 e	96.6 a	24.33 a
							6484 a		
1 GRAMOXONE 2 SL 12.0 oz/a EPOST									
1 STORM 4 SL 16.0 oz/a EPOST									
1 DUAL MAGNUM 7.62 EC 16.0 oz/a EPOST									
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 16.0 oz/a POST									

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage PRM Data Type # Subsamples, Dec.				ANNUAL GRASS	MOLVE -----	AMAPA -----	----- ARAHY LEAF - BURN PERCENT	AMAPA ----- CONTROL PERCENT	----- ARAHY PLOT - YIELD LBS/PLOT	----- ARAHY PLOT - YIELD LBS/A			
				CONTROL PERCENT Jun-3-15	CONTROL PERCENT Jun-3-15	CONTROL PERCENT Jun-12-15	PERCENT Jun-12-15	PERCENT Jul-29-15	Sep-18-15	Sep-18-15			
									- 2	TY1 - 0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	8	9	10	11	12	13	14
4	10 PM						98.0 a	99.0 a	99.0 a	0.0 e	96.0 a	24.95 a	6650 a
1	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
1	STORM	4	SL	16.0 oz/a	EPOST								
1	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
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	16.0 oz/a	POST								
1	7 AM						92.0 a	98.0 a	99.0 a	16.3 a	99.0 a	24.67 a	6574 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
2	12 PM						85.2 a	99.0 a	98.8 a	14.8 a	96.6 a	23.21 a	6187 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
3	5 PM						92.9 a	99.0 a	99.0 a	12.5 b	99.0 a	23.08 a	6150 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
4	10 PM						99.0 a	99.0 a	99.0 a	10.0 c	99.0 a	23.74 a	6327 a
2	GRAMOXONE	2	SL	12.0 oz/a	EPOST								
2	STORM	4	SL	16.0 oz/a	EPOST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	EPOST								
2	COBRA	2	EC	12.0 oz/a	POST								
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST								
2	2,4-DB	1.75	SL	16.0 oz/a	POST								
LSD P=.10							7.21	1.08	25.35	1.90	9.04	4.553	1213.5
Standard Deviation							5.25	0.80	18.92	1.42	6.75	3.314	883.1
CV							5.56	0.81	19.87	19.00	7.00	13.736	13.7

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COMPLETE FACTORIAL AOV For ----- ARAHY LEAF BURN PERCENT May-14-15 10:45 AM (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	31	7687.500000				
R	3	312.500000	104.166667	2.239	0.1530	
A	3	6418.750000	2139.583333	75.146	0.0001	4.9
RA	9	256.250000	28.472222			
B	1	12.500000	12.500000	0.273	0.6376	5.6
RB	3	137.500000	45.833333			
AB	3	131.250000	43.750000	0.940	0.4608	8.8
RAB	9	418.750000	46.527778			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT May-14-15 10:45 AM (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	31	78.468750				
R	3	7.593750	2.531250	1.000	0.4363	
A	3	7.593750	2.531250	1.000	0.4363	1.5
RA	9	22.781250	2.531250			
B	1	2.531250	2.531250	1.000	0.3910	1.3
RB	3	7.593750	2.531250			
AB	3	7.593750	2.531250	1.000	0.4363	2.1
RAB	9	22.781250	2.531250			

COMPLETE FACTORIAL AOV For ----- ARAHY LEAF BURN PERCENT May-15-15 8:30 am (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	31	6074.218750				
R	3	183.593750	61.197917	2.925	0.0924	
A	3	5139.843750	1713.281250	33.283	0.0001	6.6
RA	9	463.281250	51.475694			
B	1	0.781250	0.781250	0.070	0.8088	2.8
RB	3	33.593750	11.197917			
AB	3	64.843750	21.614583	1.033	0.4233	5.9
RAB	9	188.281250	20.920139			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT May-15-15 8:30 AM (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	31	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	3	0.000000	0.000000	0.000	1.0000	
RA	9	0.000000	0.000000			
B	1	0.000000	0.000000	0.000	1.0000	
RB	3	0.000000	0.000000			
AB	3	0.000000	0.000000	0.000	1.0000	
RAB	9	0.000000	0.000000			

COMPLETE FACTORIAL AOV For ----- ARAHY PLANT STUNTING PERCENT May-26-15 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	31	796.875000				
R	3	9.375000	3.125000	0.111	0.9514	
A	3	184.375000	61.458333	2.185	0.1595	4.9
RA	9	253.125000	28.125000			
B	1	3.125000	3.125000	1.000	0.3910	1.5
RB	3	9.375000	3.125000			
AB	3	84.375000	28.125000	1.000	0.4363	6.9
RAB	9	253.125000	28.125000			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT May-26-15 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	31	1187.718750				
R	3	196.843750	65.614583	1.279	0.3394	
A	3	111.343750	37.114583	1.363	0.3150	4.8
RA	9	245.031250	27.225694			
B	1	9.031250	9.031250	0.563	0.5074	3.3
RB	3	48.093750	16.031250			
AB	3	115.593750	38.531250	0.751	0.5488	9.3
RAB	9	461.781250	51.309028			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Jun-3-15 (Data Column 7) Missing values in column 7 results in unbalanced data, Least Squares Analysis is preferred						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	29	526.923507				
R	3	23.657931	7.885977	0.391	0.7631	
A	3	104.136144	34.712048	2.027	0.1807	3.8
RA	9	154.129931	17.125548			
B	1	8.336470	8.336470	0.524	0.5216	3.3
RB	3	47.759411	15.919804			
AB	3	47.876647	15.958882	0.792	0.5358	6.0
RAB	7	141.026973	20.146710			

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COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT Jun-3-15 (Data Column 8) Missing values in column 8 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	28	1254.875328				
R	3	316.307356	105.435785	3.824	0.0762	
A	3	241.688685	80.562895	5.026	0.0257	3.7
RA	9	144.275823	16.030647			
B	1	161.579211	161.579211	8.188	0.0645	3.7
RB	3	59.204036	19.734679			
AB	3	166.407909	55.469303	2.012	0.2138	7.2
RAB	6	165.412308	27.568718			

COMPLETE FACTORIAL AOV For MOLVE ----- CONTROL PERCENT Jun-3-15 (Data Column 9) Missing values in column 9 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	29	15.663004				
R	3	1.608705	0.536235	0.829	0.5187	
A	3	1.599655	0.533218	1.086	0.4034	0.6
RA	9	4.418444	0.490938			
B	1	0.500084	0.500084	1.000	0.3910	0.6
RB	3	1.499916	0.499972			
AB	3	1.508966	0.502989	0.778	0.5426	1.1
RAB	7	4.527233	0.646748			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Jun-12-15 (Data Column 10) Missing values in column 10 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	29	7765.606992				
R	3	593.579759	197.859920	0.553	0.6625	
A	3	596.829319	198.943106	0.725	0.5620	15.2
RA	9	2468.462819	274.273647			
B	1	435.122313	435.122313	2.207	0.2340	11.7
RB	3	591.374590	197.124863			
AB	3	573.552717	191.184239	0.534	0.6736	25.4
RAB	7	2506.685475	358.097925			

COMPLETE FACTORIAL AOV For ----- ARAHY LEAF BURN PERCENT Jun-12-15 (Data Column 11) Missing values in column 11 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	29	1386.594356				
R	3	7.525360	2.508453	1.246	0.3633	
A	3	137.883293	45.961098	16.379	0.0005	1.5
RA	9	25.255046	2.806116			
B	1	1116.845066	1116.845066	205.489	0.0007	1.9
RB	3	16.305187	5.435062			
AB	3	68.685876	22.895292	11.371	0.0044	1.9
RAB	7	14.094529	2.013504			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Jul-29-15 (Data Column 12) Missing values in column 12 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	29	1200.225883				
R	3	177.147188	59.049063	1.296	0.3487	
A	3	82.205744	27.401915	0.909	0.4743	5.0
RA	9	271.330251	30.147806			
B	1	124.030215	124.030215	3.699	0.1502	4.8
RB	3	100.592288	33.530763			
AB	3	125.962265	41.987422	0.921	0.4785	9.0
RAB	7	318.957932	45.565419			

COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-18-15 2 (Data Column 13) Missing values in column 13 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	28	250.528060				
R	3	79.154073	26.384691	2.403	0.1661	
A	3	2.317085	0.772362	0.112	0.9507	2.40
RA	9	61.899502	6.877722			
B	1	6.482979	6.482979	0.682	0.4696	2.57
RB	3	28.538423	9.512808			
AB	3	6.256297	2.085432	0.190	0.8995	4.55
RAB	6	65.879701	10.979950			

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COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/A Sep-18-15 TY1 0 (Data Column 14) Missing values in column 14 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	28	17796098.973916				
R	3	5622658.698713	1874219.566238	2.403	0.1661	
A	3	164592.628469	54864.209490	0.112	0.9507	641
RA	9	4396991.165023	488554.573891			
B	1	460514.142918	460514.142918	0.682	0.4696	684
RB	3	2027208.411754	675736.137251			
AB	3	444412.295729	148137.431910	0.190	0.8995	1213
RAB	6	4679721.631310	779953.605218			

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.

Part Rated

LEAF = LEAF / FOLIAGE

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

PRM Data Type

TY1 = 266.5227*[13]

University of Georgia

INFLUENCE OF TIME OF DAY APPLICATIONS ON PEANUT WEED CONTROL SYSTEMS - I															
Trial ID: PE-04A-15		Study Dir.: O.W. CARTER													
Location: PONDER FARM		Investigator: Eric P. Prostko													
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Crop Stage	PRM Data Type	# Subsamples, Dec.	----- ARAHY LEAF - BURN PERCENT May-14-15 10:45 AM	AMAPA ----- CONTROL PERCENT May-14-15 10:45 AM	----- ARAHY LEAF - BURN PERCENT May-15-15 8:30 am	AMAPA ----- CONTROL PERCENT May-15-15 8:30 AM	----- ARAHY PLANT - STUNTING PERCENT May-26-15	AMAPA ----- CONTROL PERCENT May-26-15	AMAPA ----- CONTROL PERCENT Jun-3-15
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Plot		1	2	3	4	5	6	7
1	7 AM						101		40.0	99.0	60.0	99.0	0.0	95.0	85.0
	GRAMOXONE	2 SL		12.0 oz/a	EPOST	204		50.0	99.0	40.0	99.0	10.0	99.0	95.0	
	STORM	4 SL		16.0 oz/a	EPOST	305		50.0	99.0	40.0	99.0	10.0	99.0	95.0	
	DUAL MAGNUM	7.62 EC		16.0 oz/a	EPOST	406		40.0	99.0	40.0	99.0	0.0	99.0	99.0	
	CADRE	2 AS		4.0 oz/a	POST										
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST										
	2,4-DB	1.75 SL		16.0 oz/a	POST										
							Mean =	45.0	99.0	45.0	99.0	5.0	98.0	93.5	
2	7 AM						102		30.0	99.0	50.0	99.0	10.0	99.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a	EPOST	207		45.0	99.0	50.0	99.0	10.0	99.0	99.0	
	STORM	4 SL		16.0 oz/a	EPOST	301		50.0	99.0	50.0	99.0	10.0	99.0	90.0	
	DUAL MAGNUM	7.62 EC		16.0 oz/a	EPOST	405		50.0	99.0	40.0	99.0	0.0	99.0	99.0	
	COBRA	2 EC		12.0 oz/a	POST										
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST										
	2,4-DB	1.75 SL		16.0 oz/a	POST										
							Mean =	43.8	99.0	47.5	99.0	7.5	99.0	96.8	
3	12 PM						103		40.0	99.0	30.0	99.0	10.0	99.0	90.0
	GRAMOXONE	2 SL		12.0 oz/a	EPOST	208		40.0	99.0	40.0	99.0	0.0	99.0	95.0	
	STORM	4 SL		16.0 oz/a	EPOST	307		30.0	99.0	25.0	99.0	10.0	99.0	99.0	
	DUAL MAGNUM	7.62 EC		16.0 oz/a	EPOST	401		30.0	99.0	25.0	99.0	0.0	95.0	85.0	
	CADRE	2 AS		4.0 oz/a	POST										
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST										
	2,4-DB	1.75 SL		16.0 oz/a	POST										
							Mean =	35.0	99.0	30.0	99.0	5.0	98.0	92.3	
4	12 PM						104		20.0	90.0	30.0	99.0	0.0	65.0	94.6*
	GRAMOXONE	2 SL		12.0 oz/a	EPOST	202		30.0	99.0	40.0	99.0	10.0	99.0	99.0	
	STORM	4 SL		16.0 oz/a	EPOST	304		30.0	99.0	30.0	99.0	10.0	99.0	95.0	
	DUAL MAGNUM	7.62 EC		16.0 oz/a	EPOST	403		30.0	99.0	30.0	99.0	10.0	99.0	95.0	
	COBRA	2 EC		12.0 oz/a	POST										
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST										
	2,4-DB	1.75 SL		16.0 oz/a	POST										
							Mean =	27.5	96.8	32.5	99.0	7.5	90.5	95.9	
5	5 PM						105		20.0	99.0	50.0	99.0	10.0	90.0	97.2*
	GRAMOXONE	2 SL		12.0 oz/a	EPOST	203		50.0	99.0	50.0	99.0	10.0	99.0	99.0	
	STORM	4 SL		16.0 oz/a	EPOST	306		30.0	99.0	50.0	99.0	10.0	99.0	99.0	
	DUAL MAGNUM	7.62 EC		16.0 oz/a	EPOST	409		35.0	99.0	40.0	99.0	10.0	99.0	99.0	
	CADRE	2 AS		4.0 oz/a	POST										
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST										
	2,4-DB	1.75 SL		16.0 oz/a	POST										
							Mean =	33.8	99.0	47.5	99.0	10.0	96.8	98.6	
6	5 PM						106		40.0	99.0	50.0	99.0	10.0	99.0	99.0
	GRAMOXONE	2 SL		12.0 oz/a	EPOST	201		40.0	99.0	50.0	99.0	0.0	99.0	90.0	
	STORM	4 SL		16.0 oz/a	EPOST	309		40.0	99.0	40.0	99.0	0.0	99.0	99.0	
	DUAL MAGNUM	7.62 EC		16.0 oz/a	EPOST	404		30.0	99.0	40.0	99.0	10.0	99.0	99.0	
	COBRA	2 EC		12.0 oz/a	POST										
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST										
	2,4-DB	1.75 SL		16.0 oz/a	POST										
							Mean =	37.5	99.0	45.0	99.0	5.0	99.0	96.8	

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage PRM Data Type # Subsamples, Dec.							ANNUAL GRASS	MOLVE -----	AMAPA -----	----- ARAHY LEAF - BURN	AMAPA -----	----- ARAHY PLOT - YIELD	----- ARAHY PLOT - YIELD
							CONTROL PERCENT Jun-3-15	CONTROL PERCENT Jun-3-15	CONTROL PERCENT Jun-12-15	PERCENT Jun-12-15	CONTROL PERCENT Jul-29-15	LBS/PLOT Sep-18-15	LBS/A Sep-18-15
												- 2	TY1 - 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Plot Stg	8	9	10	11	12	13	14
1	7 AM					101	90.0	99.0	65.0	0.0	65.0	18.95	5051
	GRAMOXONE	2	SL	12.0	oz/a	EPOST 204	95.0	99.0	99.0	0.0	95.0	22.70	6050
	STORM	4	SL	16.0	oz/a	EPOST 305	99.0	99.0	99.0	0.0	99.0	26.05	6943
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST 406	95.0	99.0	99.0	0.0	95.0	28.60	7623
	CADRE	2	AS	4.0	oz/a	POST							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST							
	2,4-DB	1.75	SL	16.0	oz/a	POST							
						Mean =	94.8	99.0	90.5	0.0	88.5	24.08	6417
2	7 AM					102	80.0	99.0	99.0	15.0	99.0	22.80*	6077*
	GRAMOXONE	2	SL	12.0	oz/a	EPOST 207	99.0	99.0	99.0	15.0	99.0	26.15	6970
	STORM	4	SL	16.0	oz/a	EPOST 301	90.0	95.0	99.0	20.0	99.0	20.37	5428
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST 405	99.0	99.0	99.0	15.0	99.0	29.35	7822
	COBRA	2	EC	12.0	oz/a	POST							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST							
	2,4-DB	1.75	SL	16.0	oz/a	POST							
						Mean =	92.0	98.0	99.0	16.3	99.0	24.67	6574
3	12 PM					103	90.0	99.0	99.0	5.0	99.0	21.20	5650
	GRAMOXONE	2	SL	12.0	oz/a	EPOST 208	99.0	99.0	99.0	5.0	99.0	26.10	6956
	STORM	4	SL	16.0	oz/a	EPOST 307	99.0	99.0	99.0	5.0	99.0	27.45	7316
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST 401	99.0	99.0	15.0	10.0	90.0	25.00	6663
	CADRE	2	AS	4.0	oz/a	POST							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST							
	2,4-DB	1.75	SL	16.0	oz/a	POST							
						Mean =	96.8	99.0	78.0	6.3	96.8	24.94	6646
4	12 PM					104	80.8*	99.2*	98.1*	14.0*	93.4*	21.35*	5690*
	GRAMOXONE	2	SL	12.0	oz/a	EPOST 202	80.0	99.0	99.0	15.0	99.0	20.70	5517
	STORM	4	SL	16.0	oz/a	EPOST 304	85.0	99.0	99.0	15.0	99.0	25.05	6676
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST 403	95.0	99.0	99.0	15.0	95.0	25.75	6863
	COBRA	2	EC	12.0	oz/a	POST							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST							
	2,4-DB	1.75	SL	16.0	oz/a	POST							
						Mean =	85.2	99.0	98.8	14.8	96.6	23.21	6187
5	5 PM					105	93.1*	99.2*	98.1*	0.0*	93.4*	22.47*	5988*
	GRAMOXONE	2	SL	12.0	oz/a	EPOST 203	99.0	99.0	99.0	0.0	99.0	25.30	6743
	STORM	4	SL	16.0	oz/a	EPOST 306	99.0	99.0	99.0	0.0	99.0	25.45	6783
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST 409	99.0	99.0	99.0	0.0	95.0	24.10	6423
	CADRE	2	AS	4.0	oz/a	POST							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST							
	2,4-DB	1.75	SL	16.0	oz/a	POST							
						Mean =	97.5	99.0	98.8	0.0	96.6	24.33	6484
6	5 PM					106	88.4*	99.0	99.0	10.0	99.0	24.90	6636
	GRAMOXONE	2	SL	12.0	oz/a	EPOST 201	85.0	99.0	99.0	15.0	99.0	15.90	4238
	STORM	4	SL	16.0	oz/a	EPOST 309	99.0	99.0	99.0	15.0	99.0	26.00	6930
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST 404	99.0	99.0	99.0	10.0	99.0	25.50	6796
	COBRA	2	EC	12.0	oz/a	POST							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST							
	2,4-DB	1.75	SL	16.0	oz/a	POST							
						Mean =	92.9	99.0	99.0	12.5	99.0	23.08	6150

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INFLUENCE OF TIME OF DAY APPLICATIONS ON PEANUT
WEED CONTROL SYSTEMS - I

Trial ID: PE-04A-15 Study Dir.: O.W. CARTER
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.

Part Rated

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

PRM Data Type

TY1 = 266.5227*[13]