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PEANUT TOLERANCE TO TOUGH (PYRIDATE) WEED-FREE									
Trial ID: PE-20-18		Study Dir.: DENNIS LONG							
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 Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep		
								1	2	3
1	31 DAP NTC					A		101	207	308
2	31 DAP TOUGH COC	5 EC		6.0 oz/a 1.0 % v/v	POST POST	A	4.687 mL/mx 15.0 mL/mx	102	203	304
3	31 DAP TOUGH COC	5 EC		9.0 oz/a 1.0 % v/v	POST POST	A	7.03 mL/mx 15.0 mL/mx	103	209	306
4	31 DAP TOUGH COC	5 EC		12.0 oz/a 1.0 % v/v	POST POST	A	9.374 mL/mx 15.0 mL/mx	104	205	311
5	31 DAP TOUGH COC	5 EC		18.0 oz/a 1.0 % v/v	POST POST	A	14.06 mL/mx 15.0 mL/mx	105	201	307
6	31 DAP TOUGH COC	5 EC		24.0 oz/a 1.0 % v/v	POST POST	A	18.75 mL/mx 15.0 mL/mx	106	212	301
7	46 DAP NTC					B		107	211	310
8	46 DAP TOUGH COC	5 EC		6.0 oz/a 1.0 % v/v	POST POST	B	4.687 mL/mx 15.0 mL/mx	108	202	312
9	46 DAP TOUGH COC	5 EC		9.0 oz/a 1.0 % v/v	POST POST	B	7.03 mL/mx 15.0 mL/mx	109	206	305
10	46 DAP TOUGH COC	5 EC		12.0 oz/a 1.0 % v/v	POST POST	B	9.374 mL/mx 15.0 mL/mx	110	204	303
11	46 DAP TOUGH COC	5 EC		18.0 oz/a 1.0 % v/v	POST POST	B	14.06 mL/mx 15.0 mL/mx	111	210	309
12	46 DAP TOUGH COC	5 EC		24.0 oz/a 1.0 % v/v	POST POST	B	18.75 mL/mx 15.0 mL/mx	112	208	302

Sort Order: Treatment

Trial Comments
<p>MAINTAINED WEED-FREE</p> <p>USE PROWL @ 32 OZ/A + STRONGARM @ 0.45 OZ/A - MAY 1 CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A - MAY 14 GRAMOXONE @ 12 OZ/A + BASAGRAN @ 8 OZ/A + NIS @ 0.25% V/V - MAY 16</p> <p>COC = AGRIDEX (HELENA)</p> <p>DIGGING DATE: SEPTEMBER 17 HARVEST DATE: SEPTEMBER 21 HARVEST MOISTURE: 10.5% YIELDS ADJUSTED TO 10% 2% YIELD DEDUCTION FOR FM (ROCKS, STEMS, ETC.)</p> <p><u>SUMMARY:</u></p> <p>1) NO INTERACTIONS BETWEEN TOUGH TIMING AND RATE WERE OBSERVED.</p> <p>2) NEITHER TIMING NOR RATE HAD AN EFFECT ON PEANUT INJURY.</p>

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3) WHEN AVERAGED OVER TOUGH RATES, PEANUT YIELDS WERE HIGHER WITH THE 46 DAP APPLICATIONS.

4) WHEN AVERAGED OVER TOUGH TIMINGS, RATE HAD NO EFFECT ON PEANUT YIELD (P=0.8975).

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PEANUT TOLERANCE TO TOUGH (PYRIDATE)
 WEED-FREE
 Trial ID: PE-20-18 Study Dir.: DENNIS LONG
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: DENNIS LONG **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:** 2.0 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: _____ **Study Design:** FACTOR
Tillage Type: CONVENTIONAL
Trial Initiation Comments: THIMET INFR @ 3.5 LBS/A; DYNASTY PD SEED TRT; 400 LBS/A 5-15-30 PREPLANT; 36"-9" TWIN ROWS

Previous: Crops _____ **Pesticides** _____ **Year** _____
 1. CORN 2017

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.77 **% 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	_____	_____
3.	_____	_____	_____	_____	_____	_____

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	9" WIDE	_____	_____	_____	_____
Stage Scale:	5" W;R1	R2	_____	_____	_____	_____
Height, Unit:	3 IN	6 IN	_____	_____	_____	_____

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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 TOLERANCE TO TOUGH (PYRIDATE) WEED-FREE						
Trial ID: PE-20-18		Study Dir.: DENNIS LONG				
Location: PONDER FARM		Investigator: Eric P. Prostko				
Weed Code	-----	-----	-----	-----	-----	-----
Crop Code	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY
Part Rated	PLANT -	PLANT -	PLANT -	PLOT -	PLOT -	PLOT -
Rating Data Type	INJURY	INJURY	INJURY	YIELD	YIELD	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Jun-5-18	Jun-19-18	Jul-25-18	Sep-21-18	Sep-21-18	Sep-21-18
PRM Data Type					T1	TY2
# Subsamples, Dec.				- 2	- 2	- 0
Trt No.	1	2	3	4	5	6
Treatment Name						
Form Conc						
Form Type						
Rate						
Grow Unit						
Appl Stg						
Code						
TABLE OF R MEANS						
Replicate 1	0.0	0.0	0.0	22.40	21.96	6341
Replicate 2	2.5	0.0	0.0	22.85	22.39	6467
Replicate 3	0.0	0.0	0.0	22.47	22.02	6359
TABLE OF A (TIME OF APPLICATION) MEANS						
1 31 DAP	1.7 a	0.0 a	0.0 a	22.49 b	22.04 b	6365 b
2 46 DAP	0.0 a	0.0 a	0.0 a	22.66 a	22.21 a	6413 a
Tukey's HSD P=.10	4.87	.	.	0.051	0.050	14.3
Standard Deviation	5.00	0.00	0.00	0.052	0.051	14.7
CV	600.00	0.00	0.00	0.231	0.231	0.2
TABLE OF B (RATE) MEANS						
1 NTC	0.0 a	0.0 a	0.0 a	22.22 a	21.77 a	6288 a
2 TOUGH 2 COC	1.7 a	0.0 a	0.0 a	22.38 a	21.94 a	6335 a
3 TOUGH 3 COC	0.0 a	0.0 a	0.0 a	22.75 a	22.30 a	6439 a
4 TOUGH 4 COC	1.7 a	0.0 a	0.0 a	22.24 a	21.80 a	6295 a
5 TOUGH 5 COC	0.0 a	0.0 a	0.0 a	22.85 a	22.39 a	6467 a
6 TOUGH 6 COC	1.7 a	0.0 a	0.0 a	23.01 a	22.55 a	6512 a
Tukey's HSD P=.10	3.89	.	.	2.597	2.546	735.1
Standard Deviation	2.24	0.00	0.00	1.492	1.462	422.3
CV	268.33	0.00	0.00	6.609	6.609	6.6
TABLE OF A (TIME OF APPLICATION) B (RATE) MEANS						
1 31 DAP 1 NTC	0.0 a	0.0 a	0.0 a	22.12 a	21.67 a	6259 a
2 46 DAP 1 NTC	0.0 a	0.0 a	0.0 a	22.32 a	21.87 a	6316 a
1 31 DAP 2 TOUGH 2 COC	3.3 a	0.0 a	0.0 a	21.55 a	21.12 a	6099 a
2 46 DAP 2 TOUGH 2 COC	0.0 a	0.0 a	0.0 a	23.22 a	22.75 a	6571 a
1 31 DAP 3 TOUGH 3 COC	0.0 a	0.0 a	0.0 a	22.28 a	21.84 a	6306 a
2 46 DAP 3 TOUGH 3 COC	0.0 a	0.0 a	0.0 a	23.22 a	22.75 a	6571 a
1 31 DAP 4 TOUGH 4 COC	3.3 a	0.0 a	0.0 a	22.60 a	22.15 a	6396 a
2 46 DAP 4 TOUGH 4 COC	0.0 a	0.0 a	0.0 a	21.88 a	21.45 a	6193 a
1 31 DAP 5 TOUGH 5 COC	0.0 a	0.0 a	0.0 a	23.22 a	22.75 a	6571 a

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

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Weed Code							-----	-----	-----	-----	-----	-----
Crop Code							ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY
Part Rated							PLANT -	PLANT -	PLANT -	PLOT -	PLOT -	PLOT -
Rating Data Type							INJURY	INJURY	INJURY	YIELD	YIELD	YIELD
Rating Unit							PERCENT	PERCENT	PERCENT	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date							Jun-5-18	Jun-19-18	Jul-25-18	Sep-21-18	Sep-21-18	Sep-21-18
PRM Data Type											T1	TY2
# Subsamples, Dec.										- 2	- 2	- 0
Trit No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	1	2	3	4	5	6
2	46 DAP						0.0 a	0.0 a	0.0 a	22.48 a	22.03 a	6363 a
5	TOUGH	5 EC		18.0 oz/a	POST							
5	COC			1.0 % v/v	POST							
1	31 DAP						3.3 a	0.0 a	0.0 a	23.18 a	22.72 a	6561 a
6	TOUGH	5 EC		24.0 oz/a	POST							
6	COC			1.0 % v/v	POST							
2	46 DAP						0.0 a	0.0 a	0.0 a	22.83 a	22.38 a	6462 a
6	TOUGH	5 EC		24.0 oz/a	POST							
6	COC			1.0 % v/v	POST							
Tukey's HSD P=.10							6.63	.	.	3.306	3.240	935.7
Standard Deviation							2.24	0.00	0.00	1.115	1.093	315.7
CV							268.33	0.00	0.00	4.941	4.941	4.9

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 INJURY PERCENT Jun-5-18 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	35	275.000000				
R	2	50.000000	25.000000	5.000	0.0313	
A	1	25.000000	25.000000	1.000	0.4226	4.9
RA	2	50.000000	25.000000			
B	5	25.000000	5.000000	1.000	0.4651	3.9
RB	10	50.000000	5.000000			
AB	5	25.000000	5.000000	1.000	0.4651	6.6
RAB	10	50.000000	5.000000			

COMPLETE FACTORIAL AOV For ----- ARAHY PLANT INJURY PERCENT Jun-19-18 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	35	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	5	0.000000	0.000000	0.000	1.0000	.
RB	10	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	.
RAB	10	0.000000	0.000000			

COMPLETE FACTORIAL AOV For ----- ARAHY PLANT INJURY PERCENT Jul-25-18 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	35	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	5	0.000000	0.000000	0.000	1.0000	.
RB	10	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	.
RAB	10	0.000000	0.000000			

COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-21-18 2 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	35	46.812500				
R	2	1.387917	0.693958	0.558	0.5893	
A	1	0.250000	0.250000	92.308	0.0107	0.05
RA	2	0.005417	0.002708			
B	5	3.421667	0.684333	0.307	0.8975	2.60
RB	10	22.260417	2.226042			
AB	5	7.044167	1.408833	1.132	0.4038	3.31
RAB	10	12.442917	1.244292			

COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-21-18 T1 2 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	35	44.958725				
R	2	1.332955	0.666478	0.558	0.5893	
A	1	0.240100	0.240100	92.308	0.0107	0.05
RA	2	0.005202	0.002601			
B	5	3.286169	0.657234	0.307	0.8975	2.55
RB	10	21.378904	2.137890			
AB	5	6.765218	1.353044	1.132	0.4038	3.24
RAB	10	11.950177	1.195018			

COMPLETE FACTORIAL AOV For ----- ARAHY PLOT YIELD LBS/A Sep-21-18 TY2 0 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.10)
Total	35	3749456.871895				
R	2	111165.472544	55582.736272	0.558	0.5893	
A	1	20023.801719	20023.801719	92.308	0.0107	14
RA	2	433.849037	216.924519			
B	5	274059.099528	54811.819906	0.307	0.8975	735
RB	10	1782952.678068	178295.267807			
AB	5	564203.986437	112840.797287	1.132	0.4038	936
RAB	10	996617.984561	99661.798456			

Part Rated
 PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
 PRM Data Type
 T1 = [4]*0.98
 TY2 = 288.7867*[5]

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PEANUT TOLERANCE TO TOUGH (PYRIDATE)
WEED-FREE

Trial ID: PE-20-18 Study Dir.: DENNIS LONG
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						----- ARAHY PLANT - INJURY PERCENT Jun-5-18	----- ARAHY PLANT - INJURY 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	----- ARAHY PLOT - YIELD LBS/A Sep-21-18 TY2			
Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	PRM Data Type					- 2	- 2			
# Subsamples, Dec.									- 2	- 2	- 0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6
1	31 DAP NTC					A	101		0.0	0.0	0.0	23.65	23.18	6693
							207		0.0	0.0	0.0	19.80	19.40	5604
							308		0.0	0.0	0.0	22.90	22.44	6481
							Mean =		0.0	0.0	0.0	22.12	21.67	6259
2	31 DAP TOUGH COC	5 EC		6.0 oz/a	POST	A	102		0.0	0.0	0.0	22.15	21.71	6269
				1.0 % v/v	POST		203		10.0	0.0	0.0	22.30	21.85	6311
							304		0.0	0.0	0.0	20.20	19.80	5717
							Mean =		3.3	0.0	0.0	21.55	21.12	6099
3	31 DAP TOUGH COC	5 EC		9.0 oz/a	POST	A	103		0.0	0.0	0.0	21.05	20.63	5957
				1.0 % v/v	POST		209		0.0	0.0	0.0	23.15	22.69	6552
							306		0.0	0.0	0.0	22.65	22.20	6410
							Mean =		0.0	0.0	0.0	22.28	21.84	6306
4	31 DAP TOUGH COC	5 EC		12.0 oz/a	POST	A	104		0.0	0.0	0.0	22.00	21.56	6226
				1.0 % v/v	POST		205		10.0	0.0	0.0	23.10	22.64	6538
							311		0.0	0.0	0.0	22.70	22.25	6424
							Mean =		3.3	0.0	0.0	22.60	22.15	6396
5	31 DAP TOUGH COC	5 EC		18.0 oz/a	POST	A	105		0.0	0.0	0.0	22.00	21.56	6226
				1.0 % v/v	POST		201		0.0	0.0	0.0	23.90	23.42	6764
							307		0.0	0.0	0.0	23.75	23.28	6722
							Mean =		0.0	0.0	0.0	23.22	22.75	6571
6	31 DAP TOUGH COC	5 EC		24.0 oz/a	POST	A	106		0.0	0.0	0.0	23.10	22.64	6538
				1.0 % v/v	POST		212		10.0	0.0	0.0	24.25	23.77	6863
							301		0.0	0.0	0.0	22.20	21.76	6283
							Mean =		3.3	0.0	0.0	23.18	22.72	6561
7	46 DAP NTC					B	107		0.0	0.0	0.0	21.50	21.07	6085
							211		0.0	0.0	0.0	22.15	21.71	6269
							310		0.0	0.0	0.0	23.30	22.83	6594
							Mean =		0.0	0.0	0.0	22.32	21.87	6316
8	46 DAP TOUGH COC	5 EC		6.0 oz/a	POST	B	108		0.0	0.0	0.0	22.50	22.05	6368
				1.0 % v/v	POST		202		0.0	0.0	0.0	24.40	23.91	6905
							312		0.0	0.0	0.0	22.75	22.30	6439
							Mean =		0.0	0.0	0.0	23.22	22.75	6571
9	46 DAP TOUGH COC	5 EC		9.0 oz/a	POST	B	109		0.0	0.0	0.0	22.95	22.49	6495
				1.0 % v/v	POST		206		0.0	0.0	0.0	23.50	23.03	6651
							305		0.0	0.0	0.0	23.20	22.74	6566
							Mean =		0.0	0.0	0.0	23.22	22.75	6571
10	46 DAP TOUGH COC	5 EC		12.0 oz/a	POST	B	110		0.0	0.0	0.0	21.65	21.22	6127
				1.0 % v/v	POST		204		0.0	0.0	0.0	22.95	22.49	6495
							303		0.0	0.0	0.0	21.05	20.63	5957
							Mean =		0.0	0.0	0.0	21.88	21.45	6193
11	46 DAP TOUGH COC	5 EC		18.0 oz/a	POST	B	111		0.0	0.0	0.0	21.60	21.17	6113
				1.0 % v/v	POST		210		0.0	0.0	0.0	21.70	21.27	6141
							309		0.0	0.0	0.0	24.15	23.67	6835
							Mean =		0.0	0.0	0.0	22.48	22.03	6363
12	46 DAP TOUGH COC	5 EC		24.0 oz/a	POST	B	112		0.0	0.0	0.0	24.70	24.21	6990
				1.0 % v/v	POST		208		0.0	0.0	0.0	23.00	22.54	6509
							302		0.0	0.0	0.0	20.80	20.38	5887
							Mean =		0.0	0.0	0.0	22.83	22.38	6462

Part Rated
 PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
PRM Data Type
 T1 = [4]*0.98
 TY2 = 288.7867*[5]