

University of Georgia

GA-18RU RESPONSE TO CLASSIC

Trial ID: PE-03-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Mix Size: 1.5 L

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC								-	101	203	304	402
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	63 DAP A 63 DAP A		15 GPA 15 GPA	0.3745 g/mx 3.75 mL/mx	1495.9 mL	102	204	303	404
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	75 DAP B 75 DAP B		15 GAL/AC 15 GAL/AC	0.3745 g/mx 3.75 mL/mx	1495.9 mL	103	201	302	401
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	88 DAP C 88 DAP C		15 GAL/AC 15 GAL/AC	0.3745 g/mx 3.75 mL/mx	1495.9 mL	104	202	301	403

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

PROWL H20 @ 32 OZ/A + STRONGARM @ 0.45 OZ/A + ROUNDUP POWERMAXII @ 32 OZ/A - PRE (04/30/21)
 ULTRA BLAZER @ 24 OZ/A + DUAL MAGNUM @ 16 OZ/A - MAY 25
 SELECT MAX @ 16 OZ/A + AGRIDEX @ 1% V/V - JUNE 9
 CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A - JUNE 14

DIGGING DATE: 09/23/21
 HARVEST DATE: 09/27/21
 HARVEST MOISTURE: 16.7%
 YIELDS ADJUSTED TO 10%.
 2% YIELD DEDUCTION FOR FM

SUMMARY:

- 1) CLASSIC CAUSED SLIGHT PEANUT INJURY IN THE FORM OF VISUAL STUNTING AND CHLOROSIS.
- 2) CLASSIC HAD NO EFFECT ON PEANUT PLANT HEIGHT (P=0.1143).
- 3) CLASSIC HAD NO EFFECT ON TSWV (P=0.2626).
- 4) CLASSIC HAD NO EFFECT ON PEANUT YIELD (P=0.5722).

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Trial ID: PE-03-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: CHAD ABBOTT **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: E **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-18RU **Planting Date:** Apr-29-21
Planting Method: MONSOEM 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:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: 300 LBS/A 5-15-30 PREPLANT; THIMET 20G INFR @ 5.25LBS/A; RANCONA SEED TRT;36"-9" TWIN ROWS; 1000 LBS/A GYPSUM

Previous: Crops	Pesticides	Year
1. SORGHUM		2020

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.8 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 2.8 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-30-21		0.4	IN	SPRINKLER - LATERAL MOVE	_____	_____
2.	May-3-21		0.1	IN	RAINFALL	_____	_____
3.	May-4-21		1.15	IN	RAINFALL	_____	_____
4.	May-8-21		0.4	IN	SPRINKLER - LATERAL MOVE	_____	_____
5.	May-11-21		0.15	IN	RAINFALL	_____	_____
6.	May-12-21		0.6	IN	RAINFALL	_____	_____
7.	May-24-21		0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
8.	May-28-21		0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
9.	Jun-1-21		0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
10.	Jun-4-21		0.45	IN	SPRINKLER - LATERAL MOVE	_____	_____
11.	Jun-4-21		0.6	IN	RAINFALL	_____	_____
12.	Jun-6-21		0.4	IN	RAINFALL	_____	_____
13.	Jun-7-21		1.25	IN	RAINFALL	_____	_____
14.	Jun-8-21		0.15	IN	RAINFALL	_____	_____
15.	Jun-11-21		0.3	IN	RAINFALL	_____	_____
16.	Jun-15-21		0.3	IN	RAINFALL	_____	_____
17.	Jun-17-21		0.45	IN	SPRINKLER - LATERAL MOVE	_____	_____
18.	Jun-19-21		1.0	IN	RAINFALL	_____	_____
19.	Jun-21-21		2.4	IN	RAINFALL	_____	_____

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

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APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Jul-1-21	Jul-13-21	Jul-26-21	_____	_____	_____
Time of Day:	6:50 AM	7:00 AM	6:47 AM	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	BROADCAST	_____	_____	_____
Application Timing:	63 DAP	75 DAP	88 DAP	_____	_____	_____
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE	_____	_____	_____
Air Temp., Unit:	72 F	69 F	71 F	_____	_____	_____
% Relative Humidity:	98	72	94	_____	_____	_____
Wind Velocity, Unit:	0 MPH	0 MPH	0 MPH	_____	_____	_____
Dew Presence (Y/N):	Y	Y	Y	_____	_____	_____
Water Hardness:	_____	_____	_____	_____	_____	_____
Soil Temp., Unit:	76 F	77 F	77 F	_____	_____	_____
Soil Moisture:	WET	OPTIMUM	WET	_____	_____	_____
% Cloud Cover:	100	0	25	_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ARAHY	_____	_____	_____	_____	_____	_____
Stage Scale:	R3/R4	R5	R6	_____	_____	_____
Height, Unit:	7 IN	11 IN	14 IN	_____	_____	_____

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage:	_____	_____	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME	SAME	_____	_____	_____
Operating Pressure:	38	_____	_____	_____	_____	_____
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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							-----	-----	-----	-----	-----	-----		
							Arahy	Arahy	Arahy	Arahy	Arahy	Arahy		
							Stunt	Chlorosi	Stunting	Chlorosi	Hgt1	Hgt2	Hgt3	
							%	%	%	%	Inches	Inches	Inches	
							Rating Unit							
							Rating Date	Jul-6-21	Jul-6-21	Aug-2-21	Aug-2-21	Aug-10-21	Aug-10-21	Aug-10-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	1	2	3	4	5	6	7
1	NTC							0.0 b	0.0 b	0.0 b	0.0 a	14.88 a	15.38 a	16.00 a
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	63 DAP A 63 DAP A			10.0 a	27.5 a	8.8 a	1.3 a	13.75 a	14.50 a	14.50 a
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	75 DAP B 75 DAP B			0.0 b	0.0 b	10.0 a	3.8 a	14.25 a	14.50 a	13.13 a
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	88 DAP C 88 DAP C			0.0 b	0.0 b	7.5 a	2.5 a	13.63 a	14.00 a	14.00 a
LSD P=.10							.	1.87	3.78	2.86	1.417	1.847	2.492	
Standard Deviation							0.00	1.44	2.92	2.20	1.093	1.425	1.923	
CV							0.0	20.99	44.44	117.59	7.74	9.76	13.35	
Grand Mean							2.50	6.88	6.56	1.88	14.125	14.594	14.406	
Bartlett's X2^							.	5.788	5.341	2.083	2.126	5.909	2.317	
P(Bartlett's X2)							.	0.122	0.148	0.555	0.547	0.116	0.509	

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.
 ^Calculated from residual.

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Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code	-----	-----	-----	-----	-----	-----	-----
Crop Code	Arahy	Arahy	Arahy	Arahy	ARAHY	ARAHY	ARAHY
Part Rated					DIRTY, -	CLEAN, -	CLEAN, -
Rating Data Type	Hgt4	Hgt5	Hgt-AVG	TSWV	YIELD	YIELD	YIELD
Rating Unit	Inches	Inches	Inches	%	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Aug-10-21	Aug-10-21	Aug-10-21	Aug-17-21	Sep-27-21	Sep-27-21	Sep-27-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	
1	NTC						
				16.00 a	17.0 a	15.9 a	9.5 a
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	63 DAP A 63 DAP A		
				15.75 a	15.3 a	14.8 a	8.5 a
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	75 DAP B 75 DAP B		
				12.88 a	13.3 b	13.6 a	18.5 a
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	88 DAP C 88 DAP C		
				13.75 a	15.3 a	14.1 a	24.0 a
LSD P=.10				3.340	1.86	1.55	15.36
Standard Deviation				2.577	1.44	1.19	11.85
CV				17.66	9.46	8.19	78.36
Grand Mean				14.594	15.19	14.58	15.13
Bartlett's X2^				3.061	1.679	6.97	0.25
P(Bartlett's X2)				0.382	0.642	0.073	0.969
							4.51
							3.48
							18.0
							18.0
							19.32
							18.93
							5088.7
							0.785
							0.785
							0.853
							0.853

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.
 ^Calculated from residual.

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Randomized Complete Block (RCB) AOV For ----- Arahy Stunt % Jul-6-21 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	300.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	3	300.000000	100.000000	0.000	1.0000
Error	9	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For ----- Arahy Chlorosi % Jul-6-21 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	2293.750000			
Replicate	3	6.250000	2.083333	1.000	0.4363
Treatment	3	2268.750000	756.250000	363.000	0.0001
Error	9	18.750000	2.083333		

Randomized Complete Block (RCB) AOV For ----- Arahy Stunting % Aug-2-21 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	335.937500			
Replicate	3	17.187500	5.729167	0.673	0.5896
Treatment	3	242.187500	80.729167	9.490	0.0038
Error	9	76.562500	8.506944		

Randomized Complete Block (RCB) AOV For ----- Arahy Chlorosi % Aug-2-21 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	93.750000			
Replicate	3	18.750000	6.250000	1.286	0.3373
Treatment	3	31.250000	10.416667	2.143	0.1649
Error	9	43.750000	4.861111		

Randomized Complete Block (RCB) AOV For ----- Arahy Hgt1 Inches Aug-10-21 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	31.250000			
Replicate	3	16.625000	5.541667	4.640	0.0317
Treatment	3	3.875000	1.291667	1.081	0.4051
Error	9	10.750000	1.194444		

Randomized Complete Block (RCB) AOV For ----- Arahy Hgt2 Inches Aug-10-21 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	69.609375			
Replicate	3	47.421875	15.807292	7.789	0.0072
Treatment	3	3.921875	1.307292	0.644	0.6058
Error	9	18.265625	2.029514		

Randomized Complete Block (RCB) AOV For ----- Arahy Hgt3 Inches Aug-10-21 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	96.609375			
Replicate	3	45.921875	15.307292	4.141	0.0423
Treatment	3	17.421875	5.807292	1.571	0.2632
Error	9	33.265625	3.696181		

Randomized Complete Block (RCB) AOV For ----- Arahy Hgt4 Inches Aug-10-21 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	101.609375			
Replicate	3	13.921875	4.640625	0.699	0.5760
Treatment	3	27.921875	9.307292	1.402	0.3046
Error	9	59.765625	6.640625		

Randomized Complete Block (RCB) AOV For ----- Arahy Hgt5 Inches Aug-10-21 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	74.437500			
Replicate	3	27.687500	9.229167	4.475	0.0348
Treatment	3	28.187500	9.395833	4.556	0.0333
Error	9	18.562500	2.062500		

Randomized Complete Block (RCB) AOV For ----- Arahy Hgt-AVG Inches Aug-10-21 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	49.064375			
Replicate	3	24.996875	8.332292	5.845	0.0169
Treatment	3	11.236875	3.745625	2.627	0.1143
Error	9	12.830625	1.425625		

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Randomized Complete Block (RCB) AOV For ----- Arahy TSWV % Aug-17-21 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	2015.750000			
Replicate	3	88.750000	29.583333	0.211	0.8866
Treatment	3	662.750000	220.916667	1.573	0.2628
Error	9	1264.250000	140.472222		

Randomized Complete Block (RCB) AOV For ----- ARAHY DIRTY YIELD LBS/PLOT Sep-27-21 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	307.404375			
Replicate	3	172.941875	57.647292	4.766	0.0296
Treatment	3	25.611875	8.537292	0.706	0.5722
Error	9	108.850625	12.094514		

Randomized Complete Block (RCB) AOV For ----- ARAHY CLEAN YIELD LBS/PLOT Sep-27-21 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	295.231162			
Replicate	3	166.093377	55.364459	4.766	0.0296
Treatment	3	24.597645	8.199215	0.706	0.5722
Error	9	104.540140	11.615571		

Randomized Complete Block (RCB) AOV For ----- ARAHY CLEAN YIELD LBS/A Sep-27-21 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	21328504.430222			
Replicate	3	11999151.108726	3999717.036242	4.766	0.0296
Treatment	3	1777017.615328	592339.205109	0.706	0.5722
Error	9	7552335.706169	839148.411797		

PRM Data Type

T1 = $([C5]+[C6]+[C7]+[C8]+[C9])/5$
 T2 = $[C12]*0.98$
 TY3 = $268.78133333*[13]$

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Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code	-----		-----		-----		-----		-----	
Crop Code	Arahy		Arahy		Arahy		Arahy		Arahy	
Part Rated	Stunt %		Chlorosi %		Stunting %		Chlorosi %		Hgt1 Inches	
Rating Data Type	Jul-6-21		Jul-6-21		Aug-2-21		Aug-2-21		Aug-10-21	
Rating Unit	Stunt %		Chlorosi %		Stunting %		Chlorosi %		Hgt1 Inches	
Rating Date	Jul-6-21		Jul-6-21		Aug-2-21		Aug-2-21		Aug-10-21	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	Plot	1	2
1	NTC								101	0.0
									203	0.0
									304	0.0
									402	0.0
									Mean =	0.0
2	CLASSIC	25 DG		0.5 oz/a	63	DAP A			102	10.0
	INDUCE			0.25 % v/v	63	DAP A			204	10.0
									303	10.0
									404	10.0
									Mean =	10.0
3	CLASSIC	25 DG		0.5 oz/a	75	DAP B			103	0.0
	INDUCE			0.25 % v/v	75	DAP B			201	0.0
									302	0.0
									401	0.0
									Mean =	0.0
4	CLASSIC	25 DG		0.5 oz/a	88	DAP C			104	0.0
	INDUCE			0.25 % v/v	88	DAP C			202	0.0
									301	0.0
									403	0.0
									Mean =	0.0

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							----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- ARAHY DIRTY, - YIELD	----- ARAHY CLEAN, - YIELD		
							Hgt4 Inches Aug-10-21	Hgt5 Inches Aug-10-21	Hgt-AVG Inches Aug-10-21	TSWV % Aug-17-21	LBS/PLOT Sep-27-21	LBS/PLOT Sep-27-21		
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	8	9	10	11	12	13
1	NTC						101		11.00	13.0	11.8	22.0	18.0	17.6
							203		19.00	19.0	17.6	6.0	26.9	26.4
							304		17.00	18.0	17.6	2.0	17.8	17.4
							402		17.00	18.0	16.4	8.0	15.2	14.9
							Mean =		16.00	17.0	15.9	9.5	19.5	19.1
2	CLASSIC	25 DG		0.5 oz/a		63 DAP A	102		15.00	14.0	12.6	18.0	20.4	20.0
	INDUCE			0.25 % v/v		63 DAP A	204		14.00	16.0	14.8	14.0	22.5	22.1
							303		20.00	15.0	16.6	2.0	21.7	21.3
							404		14.00	16.0	15.0	0.0	20.7	20.3
							Mean =		15.75	15.3	14.8	8.5	21.3	20.9
3	CLASSIC	25 DG		0.5 oz/a		75 DAP B	103		12.50	10.0	12.1	6.0	19.8	19.4
	INDUCE			0.25 % v/v		75 DAP B	201		12.00	14.0	13.5	18.0	26.1	25.6
							302		15.00	13.0	14.8	30.0	15.7	15.4
							401		12.00	16.0	14.0	20.0	11.7	11.5
							Mean =		12.88	13.3	13.6	18.5	18.3	18.0
4	CLASSIC	25 DG		0.5 oz/a		88 DAP C	104		15.00	15.0	13.6	6.0	24.9	24.4
	INDUCE			0.25 % v/v		88 DAP C	202		13.00	14.0	13.1	38.0	20.1	19.7
							301		12.00	16.0	14.4	20.0	13.9	13.6
							403		15.00	16.0	15.4	32.0	13.7	13.4
							Mean =		13.75	15.3	14.1	24.0	18.2	17.8

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Weed Code						-----
Crop Code						ARAHY
Part Rated						CLEAN, -
Rating Data Type						YIELD
Rating Unit						LBS/A
Rating Date						Sep-27-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg
						Code Plot
						14
1	NTC					
						101 4741
						203 7086
						304 4689
						402 4004
						Mean = 5130
2	CLASSIC	25 DG		0.5 oz/a	63 DAP A	102 5373
	INDUCE			0.25 % v/v	63 DAP A	204 5927
						303 5716
						404 5452
						Mean = 5617
3	CLASSIC	25 DG		0.5 oz/a	75 DAP B	103 5215
	INDUCE			0.25 % v/v	75 DAP B	201 6875
						302 4135
						401 3082
						Mean = 4827
4	CLASSIC	25 DG		0.5 oz/a	88 DAP C	104 6559
	INDUCE			0.25 % v/v	88 DAP C	202 5294
						301 3661
						403 3609
						Mean = 4781

University of Georgia

GA-18RU RESPONSE TO CLASSIC

Trial ID: PE-03-21 Study Dir.: CHAD ABBOTT
Location: PONDER FARM Investigator: Eric P. Prostko

PRM Data Type

T1 = $([C5]+[C6]+[C7]+[C8]+[C9])/5$
T2 = $[C12]*0.98$
TY3 = $268.78133333*[13]$