

University of Georgia

GA-18RU RESPONSE TO CLASSIC

YEAR 2

Trial ID: PE-06-22 Study Dir.: NICK SHAY
 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 Unit	Appl 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	65 DAP A 65 DAP A	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	76 DAP B 76 DAP B	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	91 DAP C 91 DAP C	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

SELECT MAX @ 16 OZ/A + DUAL MAGNUM @ 16 OZ/A - 05/24/22

CADRE @ 4 OZ/A + NIS @ 0.25% V/V - 06/02/22

DIGGING DATE: 09/16/22 (136 DAYS)

HARVEST DATE: 09/20/22

HARVEST MOISTURE: 16.7%

YIELDS ADJUSTED TO 10%.

2% YIELD DEDUCTION FOR FM

SUMMARY:

1) PEANUT PLANT HEIGHTS WERE SIGNIFICANTLY REDUCED (6.4-8.3%) WHEN CLASSIC WAS APPLIED AT 65 AND 76 DAP.

2) TSWV WAS NOT INCREASED BY ANY APPLICATION OF CLASSIC (P=0.9446).

3) PEANUT YIELDS WERE NOT REDUCED BY ANY APPLICATION OF CLASSIC (P=0.6417)

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 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: CHAD ABBOTT **Title:** _____ **Postal Code:** _____
Affiliation: _____
Investigator: Eric P. Prostko **Title:** _____ **Postal Code:** _____
Affiliation: _____
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:** May-4-22
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: _____ **Study Design:** RACOB
Tillage Type: CONVENTIONAL
Trial Initiation Comments: 300 LBS/A 5-15-30 PREPLANT; THIMET 20G INFR @
 5 LBS/A; RANCONA SEED TRT; 36"-9" TWIN ROWS; 1000 LBS/A GYPSUM; 1.5 TONS/A LIME
Previous: Crops _____ **Pesticides** _____ **Year** 2021
 1. CORN

MAINTENANCE

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.65 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 2.5 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-4-22		0.3		IN SPRINKLER - LATERAL MOVE		
2. May-5-22		0.3		IN SPRINKLER - LATERAL MOVE		
3. May-6-22		0.45		IN RAINFALL		
4. May-10-22		0.38		IN SPRINKLER - LATERAL MOVE		
5. May-17-22		0.5		IN SPRINKLER - LATERAL MOVE		
6. May-24-22		0.5		IN SPRINKLER - LATERAL MOVE		
7. May-24-22		1.8		IN RAINFALL		
8. Jun-1-22		0.6		IN SPRINKLER - LATERAL MOVE		
9. Jun-7-22		0.5		IN SPRINKLER - LATERAL MOVE		
10.				IN		
11.				IN		
12.				IN		
13.				IN		
14.				IN		
15.				IN		
16.				IN		
17.				IN		
18.				IN		
19.				IN		

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

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Study Dir.: NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Jul-7-22	Jul-18-22	Aug-2-22			
Time of Day:	6:40 AM	6:30 AM	6:50 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	65 DAP	76 DAP	91 DAP			
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE			
Air Temp., Unit:	77 F	72 F	73 F			
% Relative Humidity:	91	93	92			
Wind Velocity, Unit:	1 MPH	0 MPH	1 MPH			
Dew Presence (Y/N):	Y	Y	Y			
Water Hardness:	--	--	--			
Soil Temp., Unit:	79 F	76 F	82 F			
Soil Moisture:	OPTIMUM	WET	OPTIMUM			
% Cloud Cover:	10	0	20			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:	ARAHY	LAPPED	LAPPED			
Stage Scale:	R4-R5	R5-R6	R6-R7			
Height, Unit:	IN	IN	IN		LAPP	

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:	36					
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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Trial ID: PE-06-22				Study Dir.: NICK SHAY										
Location: PONDER FARM				Investigator: Eric P. Prostko										
Weed Code							-----	-----	-----	-----	-----	-----		
Crop Code							Arahy	Arahy	Arahy	Arahy	Arahy	Arahy		
Part Rated							Plant, -	Plant, -	Plant, -	Plant, -	Plant, -	Plant, -		
Rating Data Type							Ht1	Ht2	Ht3	Ht4	Ht5	HGT-AVG		
Rating Unit							In	In	In	In	In	In		
Rating Date							Aug-15-22	Aug-15-22	Aug-15-22	Aug-15-22	Aug-15-22	Aug-29-22		
Trt	Treatment	Form	Form	Rate	Grow	Appl	1	2	3	4	5	6	7	
No.	Name	Conc	Type	Rate	Unit	Stg	Code							
1	NTC							20.50 a	20.25 a	19.8 a	20.5 a	20.38 a	20.3 a	22.8 a
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	65 DAP A 65 DAP A			18.75 bc	19.63 a	19.0 a	19.3 a	18.50 b	19.0 b	22.3 a
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	76 DAP B 76 DAP B			18.38 c	18.00 b	20.0 a	18.0 a	18.63 b	18.6 b	25.0 a
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	91 DAP C 91 DAP C			19.25 b	20.13 a	19.8 a	19.8 a	20.00 a	19.8 a	21.8 a
LSD P=.10							0.824	0.966	0.72	1.69	1.278	0.54	10.63	
Standard Deviation							0.636	0.745	0.55	1.30	0.986	0.42	8.20	
CV							3.31	3.82	2.82	6.72	5.09	2.15	35.75	
Grand Mean							19.219	19.500	19.63	19.38	19.375	19.42	22.94	
Bartlett's X2^							4.525	1.402	1.983	0.188	4.27	0.204	2.974	
P(Bartlett's X2)							0.21	0.705	0.576	0.98	0.234	0.977	0.396	

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Trial ID: PE-06-22		Study Dir.: NICK SHAY							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code				-----		-----		-----	
Crop Code				ARAHY		ARAHY		ARAHY	
Part Rated				YIELD, -		YIELD, -		YIELD, -	
Rating Data Type				DIRTY		CLEAN		YIELD	
Rating Unit				LBS/PLOT		LBS/PLOT		LBS/A	
Rating Date				Sep-20-22		Sep-20-22		Sep-20-22	
Trt	Treatment	Form	Form	Rate	Grow	Appl	8	9	10
No.	Name	Conc	Type	Rate Unit	Stg	Code			
1	NTC						21.05 a	20.6 a	5544.7 a
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	65 DAP A 65 DAP A		19.48 a	19.1 a	5129.8 a
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	76 DAP B 76 DAP B		19.08 a	18.7 a	5024.5 a
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	91 DAP C 91 DAP C		20.20 a	19.8 a	5320.8 a
LSD P=.10							2.952	2.89	777.66
Standard Deviation							2.278	2.23	599.95
CV							11.42	11.42	11.42
Grand Mean							19.950	19.55	5254.94
Bartlett's X2^							4.572	4.572	4.572
P(Bartlett's X2)							0.206	0.206	0.206

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.

^Calculated from residual.

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Trial ID: PE-06-22		Study Dir.: NICK SHAY			
Location: PONDER FARM		Investigator: Eric P. Prostko			
Randomized Complete Block (RCB) AOV For ----- Arahy Plant Ht1 In Aug-15-22 (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	40.484375			
Replicate	3	26.546875	8.848958	21.876	0.0002
Treatment	3	10.296875	3.432292	8.485	0.0055
Error	9	3.640625	0.404514		
Randomized Complete Block (RCB) AOV For ----- Arahy Plant Ht2 In Aug-15-22 (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	32.500000			
Replicate	3	14.625000	4.875000	8.775	0.0049
Treatment	3	12.875000	4.291667	7.725	0.0074
Error	9	5.000000	0.555556		
Randomized Complete Block (RCB) AOV For ----- Arahy Plant Ht3 In Aug-15-22 (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	23.750000			
Replicate	3	18.750000	6.250000	20.455	0.0002
Treatment	3	2.250000	0.750000	2.455	0.1298
Error	9	2.750000	0.305556		
Randomized Complete Block (RCB) AOV For ----- Arahy Plant Ht4 In Aug-15-22 (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	47.750000			
Replicate	3	19.250000	6.416667	3.787	0.0524
Treatment	3	13.250000	4.416667	2.607	0.1160
Error	9	15.250000	1.694444		
Randomized Complete Block (RCB) AOV For ----- Arahy Plant Ht5 In Aug-15-22 (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	27.250000			
Replicate	3	7.625000	2.541667	2.614	0.1154
Treatment	3	10.875000	3.625000	3.729	0.0543
Error	9	8.750000	0.972222		
Randomized Complete Block (RCB) AOV For ----- Arahy Plant HGT-AVG In Aug-15-22 (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	23.204375			
Replicate	3	14.896875	4.965625	28.545	0.0001
Treatment	3	6.741875	2.247292	12.919	0.0013
Error	9	1.565625	0.173958		
Randomized Complete Block (RCB) AOV For ----- Arahy TSWV % Aug-29-22 (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	1006.937500			
Replicate	3	377.187500	125.729167	1.870	0.2050
Treatment	3	24.687500	8.229167	0.122	0.9446
Error	9	605.062500	67.229167		
Randomized Complete Block (RCB) AOV For ----- ARAHY YIELD DIRTY LBS/PLOT Sep-20-22 (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	104.360000			
Replicate	3	48.615000	16.205000	3.124	0.0806
Treatment	3	9.055000	3.018333	0.582	0.6417
Error	9	46.690000	5.187778		
Randomized Complete Block (RCB) AOV For ----- ARAHY YIELD CLEAN LBS/PLOT Sep-20-22 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	100.227344			
Replicate	3	46.689846	15.563282	3.124	0.0806
Treatment	3	8.696422	2.898807	0.582	0.6417
Error	9	44.841076	4.982342		
Randomized Complete Block (RCB) AOV For ----- ARAHY YIELD YIELD LBS/A Sep-20-22 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	7240764.619365			
Replicate	3	33373033.460813	1124344.486938	3.124	0.0806
Treatment	3	628259.137872	209419.712624	0.582	0.6417
Error	9	3239472.020680	359941.335631		
<u>Part Rated</u> Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) PRM Data Type T1 = ([C1]+[C2]+[C3]+[C4]+[C5])/5					

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GA-18RU RESPONSE TO CLASSIC YEAR 2	
Trial ID: PE-06-22	Study Dir.: NICK SHAY
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T2 = [C8]*0.98	
TY3 = 268.78133333*[9]	

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Trial ID: PE-06-22				Study Dir.: NICK SHAY										
Location: PONDER FARM				Investigator: Eric P. Prostko										
Weed Code							-----	-----	-----	-----	-----	-----		
Crop Code							Arahy	Arahy	Arahy	Arahy	Arahy	Arahy		
Part Rated							Plant, -	Plant, -	Plant, -	Plant, -	Plant, -	Plant, -		
Rating Data Type							Ht1	Ht2	Ht3	Ht4	Ht5	HGT-AVG		
Rating Unit							In	In	In	In	In	In		
Rating Date							Aug-15-22	Aug-15-22	Aug-15-22	Aug-15-22	Aug-15-22	Aug-15-22		
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6
1	NTC						101		18.00	18.00	18.0	19.0	19.50	18.5
							203		21.00	21.00	20.0	18.0	19.00	19.8
							304		21.00	20.00	20.0	22.0	22.00	21.0
							402		22.00	22.00	21.0	23.0	21.00	21.8
							Mean =		20.50	20.25	19.8	20.5	20.38	20.3
2	CLASSIC	25 DG		0.5 oz/a	65 DAP A		102		16.00	18.00	18.0	18.0	18.00	17.6
	INDUCE			0.25 % v/v	65 DAP A		204		20.00	20.00	19.0	20.0	18.00	19.4
							303		20.00	20.50	19.0	19.0	18.00	19.3
							404		19.00	20.00	20.0	20.0	20.00	19.8
							Mean =		18.75	19.63	19.0	19.3	18.50	19.0
3	CLASSIC	25 DG		0.5 oz/a	76 DAP B		103		16.00	17.00	18.0	16.0	18.00	17.0
	INDUCE			0.25 % v/v	76 DAP B		201		19.00	17.00	20.0	17.0	19.00	18.4
							302		19.00	19.00	20.0	18.0	17.50	18.7
							401		19.50	19.00	22.0	21.0	20.00	20.3
							Mean =		18.38	18.00	20.0	18.0	18.63	18.6
4	CLASSIC	25 DG		0.5 oz/a	91 DAP C		104		18.00	19.00	18.0	20.0	19.00	18.8
	INDUCE			0.25 % v/v	91 DAP C		202		19.00	20.00	19.0	19.0	21.00	19.6
							301		20.00	20.00	21.0	20.0	19.00	20.0
							403		20.00	21.50	21.0	20.0	21.00	20.7
							Mean =		19.25	20.13	19.8	19.8	20.00	19.8

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Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code						----- Arahy	----- ARAHY	----- ARAHY	----- ARAHY	
Crop Code						TSWV	YIELD, -	YIELD, -	YIELD, -	
Part Rated						%	DIRTY	CLEAN	YIELD	
Rating Data Type							LBS/PLOT	LBS/PLOT	LBS/A	
Rating Unit										
Rating Date						Aug-29-22	Sep-20-22	Sep-20-22	Sep-20-22	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	7	8	9	10
1	NTC					101	24.0	21.90	21.5	5768.6
						203	32.0	17.90	17.5	4715.0
						304	31.0	19.80	19.4	5215.4
						402	4.0	24.60	24.1	6479.8
						Mean =	22.8	21.05	20.6	5544.7
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	65 DAP A 65 DAP A	102	29.0	17.60	17.2	4635.9
						204	30.0	15.90	15.6	4188.2
						303	18.0	23.20	22.7	6111.0
						404	12.0	21.20	20.8	5584.2
						Mean =	22.3	19.48	19.1	5129.8
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	76 DAP B 76 DAP B	103	35.0	16.30	16.0	4293.5
						201	20.0	20.20	19.8	5320.8
						302	19.0	21.70	21.3	5715.9
						401	26.0	18.10	17.7	4767.6
						Mean =	25.0	19.08	18.7	5024.5
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	91 DAP C 91 DAP C	104	26.0	18.40	18.0	4846.7
						202	24.0	17.70	17.3	4662.3
						301	14.0	23.30	22.8	6137.4
						403	23.0	21.40	21.0	5636.9
						Mean =	21.8	20.20	19.8	5320.8

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Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated

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

PRM Data Type $T1 = ([C1] + [C2] + [C3] + [C4] + [C5]) / 5$ $T2 = [C8] * 0.98$ $TY3 = 268.78133333 * [9]$