

University of Georgia

GA-16HO RESPONSE TO CLASSIC

YEAR 1

Trial ID: PE-18-22 Study Dir.: NICK SHAY
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3

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
1	NTC									-	101	203	302
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	66 DAP A 66 DAP A		15 GPA 15 GPA		0.3745 g/mx 3.75 mL/mx	1495.9 mL	102	201	303
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B 77 DAP B		15 GAL/AC 15 GAL/AC		0.3745 g/mx 3.75 mL/mx	1495.9 mL	103	204	301
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	92 DAP C 92 DAP C		15 GAL/AC 15 GAL/AC		0.3745 g/mx 3.75 mL/mx	1495.9 mL	104	202	304

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

ROUNDUP P-MAX3 @ 22 OZ/A + PROWL @ 32 OZ/A + STRONGARM @ 0.45 OZ/A - PRE
 ULTRA BLAZER @ 24 OZ/A + DUAL MAGNUM @ 16 OZ/A - MAY 18
 SELECT MAX @ 16 OZ/A + DUAL MAGNUM @ 16 OZ/A - JUNE 2

DIGGING DATE: 09/16/22 (137 DAP)

HARVEST DATE: 09/20/22

HARVEST MOISTURE: 14.3%

YIELDS ADJUSTED TO 10%

2% DEDUCTION FOR FM

SUMMARY:

1) PEANUT PLANT HEIGHTS WERE SIGNIFICANTLY REDUCED WHEN CLASSIC WAS APPLIED AT 66 DAP (16.5%) OR 77 DAP (11.7%).

2) TSWV WAS NOT INFLUENCED BY ANY TIMING OF CLASSIC (P=0.1566).

3) PEANUT YIELD WAS NOT REDUCED BY ANY TIMING OF CLASSIC (P=0.2974).

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 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: NICK SHAY

Title: _____

Affiliation: _____

Postal Code: _____

Investigator: Eric P. Prostko

Title: _____

Affiliation: _____

Postal Code: _____

TRIAL LOCATION

City: _____

Trial Status: E

State/Prov.: _____

Trial Reliability: _____

Postal Code: _____

Initiation Date: _____

Country: _____

Planned Completion Date: _____

E-Longitude of LL Corner °: _____

N-Latitude of LL Corner °: _____

Altitude of LL Corner: _____ Unit: _____

Angle y-axis to North °: _____

Directions: _____

COOPERATOR/LANDOWNER

Cooperator: _____

Country: _____

Org: _____

Phone No: _____

Address 1: _____

Fax No: _____

Address 2: _____

City: _____

State/Prov: _____

Postal Code: _____

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Guidelines: _____ Guideline Description: _____

Objective: _____

Conclusions: _____

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.			

Crop 1: ARAHY PEANUT

Variety: GA-16HO

Planting Date: May-3-22

Planting Method: MONOSEM TWIN ROW

Rate: 3.1 SEED/FT

Depth: 2 IN

Perennial Age: _____

Row Spacing: _____

Spacing Within Row: _____

Seed Bed: _____

Soil Temperature: _____

Soil Moisture: _____

Emergence Date: _____

SITE AND DESIGN

Plot Width, Unit: 6 FT

Plot Length, Unit: 25 FT Reps: 3

Site Type: _____

Tillage Type: CONVENTIONAL

Study Design: RACOB

Trial Initiation Comments: _____

	Previous Crops	Previous Pesticides	Year
1.	SORGHUM		2022

MAINTENANCE

Field Prep./Maintenance: 1.5 TON/A LIME PREPLANT

300 LBS/A 5-15-30 - PREPLANT

THIMET @ 5 LBS/A - INFR

RANCONA VPD SEED TREATMENT

1000 LBS/A GYPSUM - JUNE 6

36'-9" TWIN ROWS

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Trial ID: PE-18-22

Study Dir.: NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

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

SOIL DESCRIPTION

% Sand: 94 % OM: 0.61 Texture: SAND
 % Silt: 2 pH: 6.0 Soil Name: TIFTON
 % Clay: 4 CEC: 2.2 Fert. Level: GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-4-22		0.3	IN	SPRINKLER - LATERAL MOVE		
2.	May-5-22		0.2	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		

Overall Moisture Conditions:

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C
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:	66 DAP	77 DAP	92 DAP
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE
Air Temp., Unit:	77 F	72 F	73 F
% Relative Humidity:	91	93	82
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
Crop 1 Code, Stage:	ARAHY,	ARAHY,	ARAHY,
Stage Scale:	R4-R5	R5-R6	R5-R6
Height, Unit:			

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:			
Stage Scale:			
Density, Unit:			

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	SAME AS A	SAME AS A
Operating Pressure:	35		
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-18-22				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 No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	NTC						18.67 a	18.50 a	17.67 a	19.67 a	19.67 a	18.8 a	22.3 a
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	66 DAP A		17.00 a	16.00 a	15.50 b	15.50 a	14.50 b	15.7 b	24.0 a
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B		18.17 a	15.33 a	16.83 ab	16.33 a	16.33 b	16.6 b	48.0 a
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	92 DAP C		17.83 a	19.00 a	18.33 a	18.00 a	16.50 b	17.9 a	37.3 a
LSD P=.10							1.247	2.777	1.693	3.154	2.332	1.32	21.02
Standard Deviation							0.786	1.750	1.067	1.988	1.470	0.83	13.25
CV							4.39	10.17	6.25	11.44	8.77	4.83	40.25
Grand Mean							17.917	17.208	17.083	17.375	16.750	17.27	32.92
Bartlett's X2^							4.936	1.51	4.159	0.248	4.024	0.732	3.143
P(Bartlett's X2)							0.177	0.68	0.245	0.969	0.259	0.866	0.37

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-18-22		Study Dir.: NICK SHAY							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							----- ARAHY YIELD, - DIRTY LBS/PLOT Sep-20-22	----- ARAHY YIELD, - CLEAN LBS/PLOT Sep-20-22	----- ARAHY YIELD, - YIELD LBS/A Sep-20-22
Trt	Treatment	Form	Form	Rate	Grow	Appl	8	9	10
No.	Name	Conc	Type	Rate	Unit	Stg	Code		
1	NTC								
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	66 DAP A 66 DAP A		21.53 a 19.93 a	21.1 a 19.5 a	5835.4 a 5401.8 a
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B 77 DAP B		17.83 a	17.5 a	4832.7 a
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	92 DAP C 92 DAP C		18.50 a	18.1 a	5013.4 a
LSD P=.10							3.632	3.56	984.30
Standard Deviation							2.289	2.24	620.38
CV							11.77	11.77	11.77
Grand Mean							19.450	19.06	5270.85
Bartlett's X2^							1.273	1.273	1.273
P(Bartlett's X2)							0.736	0.736	0.736

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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GA-16HO RESPONSE TO CLASSIC YEAR 1					
Trial ID: PE-18-22		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	11	22.416667			
Replicate	2	14.291667	7.145833	11.562	0.0087
Treatment	3	4.416667	1.472222	2.382	0.1683
Error	6	3.708333	0.618056		
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	11	57.229167			
Replicate	2	9.291667	4.645833	1.517	0.2930
Treatment	3	29.562500	9.854167	3.218	0.1039
Error	6	18.375000	3.062500		
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	11	21.416667			
Replicate	2	1.166667	0.583333	0.512	0.6232
Treatment	3	13.416667	4.472222	3.927	0.0726
Error	6	6.833333	1.138889		
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	11	75.562500			
Replicate	2	21.125000	10.562500	2.673	0.1479
Treatment	3	30.729167	10.243056	2.592	0.1480
Error	6	23.708333	3.951389		
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	11	57.750000			
Replicate	2	3.375000	1.687500	0.781	0.4994
Treatment	3	41.416667	13.805556	6.392	0.0268
Error	6	12.958333	2.159722		
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	11	22.926667			
Replicate	2	1.361667	0.680833	0.979	0.4285
Treatment	3	17.393333	5.797778	8.339	0.0146
Error	6	4.171667	0.695278		
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	11	2534.916667			
Replicate	2	166.166667	83.083333	0.473	0.6444
Treatment	3	1315.583333	438.527778	2.498	0.1566
Error	6	1053.166667	175.527778		
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	11	75.470000			
Replicate	2	19.755000	9.877500	1.885	0.2317
Treatment	3	24.270000	8.090000	1.544	0.2974
Error	6	31.445000	5.240833		
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	11	72.481388			
Replicate	2	18.972702	9.486351	1.885	0.2317
Treatment	3	23.308908	7.769636	1.544	0.2974
Error	6	30.199778	5.033296		
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	11	5542380.658031			
Replicate	2	1450771.563527	725385.781764	1.885	0.2317
Treatment	3	1782345.018821	594115.006274	1.544	0.2974
Error	6	2309264.075683	384877.345947		
Part Rated					
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)					
Rating Unit					
In = INCH					

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Trial ID: PE-18-22	Study Dir.: NICK SHAY
Location: PONDER FARM	Investigator: Eric P. Prostko
% = PERCENT	
ARM Action Codes	
T1 = ([C1]+[C2]+[C3]+[C4]+[C5])/5	
T2 = [C8]*0.98	
TY3 = 276.52533333*[9]	

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Trial ID: PE-18-22			Study Dir.: NICK SHAY											
Location: PONDER FARM			Investigator: Eric P. Prostko											
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							----- Arahy Plant, - Ht1 In Aug-15-22	----- Arahy Plant, - Ht2 In Aug-15-22	----- Arahy Plant, - Ht3 In Aug-15-22	----- Arahy Plant, - Ht4 In Aug-15-22	----- Arahy Plant, - Ht5 In Aug-15-22	----- Arahy Plant, - HGT-AVG In 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		19.50	19.00	18.00	19.00	19.50	19.0
							203	19.00	20.00	18.00	21.00	20.50	19.7	
							302	17.50	16.50	17.00	19.00	19.00	17.8	
							Mean =	18.67	18.50	17.67	19.67	19.67	18.8	
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	66 DAP A 66 DAP A		102		18.00	18.00	17.00	12.00	13.00	15.6
							201	16.50	15.00	13.50	16.50	15.00	15.3	
							303	16.50	15.00	16.00	18.00	15.50	16.2	
							Mean =	17.00	16.00	15.50	15.50	14.50	15.7	
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B 77 DAP B		103		19.50	14.00	17.00	16.00	17.00	16.7
							204	18.00	17.50	16.50	15.00	15.50	16.5	
							301	17.00	14.50	17.00	18.00	16.50	16.6	
							Mean =	18.17	15.33	16.83	16.33	16.33	16.6	
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	92 DAP C 92 DAP C		104		20.50	17.00	18.00	15.00	16.00	17.3
							202	17.00	21.00	19.00	21.00	19.00	19.4	
							304	16.00	19.00	18.00	18.00	14.50	17.1	
							Mean =	17.83	19.00	18.33	18.00	16.50	17.9	

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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/PLOT	LBS/A	
Rating Unit						Aug-29-22	Sep-20-22	Sep-20-22	Sep-20-22	
Rating Date										
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
1	NTC									
							101	15.0	23.90	23.4
							203	22.0	22.20	21.8
							302	30.0	18.50	18.1
							Mean =	22.3	21.53	21.1
2	CLASSIC	25 DG		0.5 oz/a	66 DAP A		102	22.0	22.40	22.0
	INDUCE			0.25 % v/v	66 DAP A		201	25.0	18.00	17.6
							303	25.0	19.40	19.0
							Mean =	24.0	19.93	19.5
3	CLASSIC	25 DG		0.5 oz/a	77 DAP B		103	46.0	18.60	18.2
	INDUCE			0.25 % v/v	77 DAP B		204	54.0	17.00	16.7
							301	44.0	17.90	17.5
							Mean =	48.0	17.83	17.5
4	CLASSIC	25 DG		0.5 oz/a	92 DAP C		104	52.0	18.30	17.9
	INDUCE			0.25 % v/v	92 DAP C		202	11.0	22.10	21.7
							304	49.0	15.10	14.8
							Mean =	37.3	18.50	18.1

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Part Rated

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

Rating Unit

In = INCH

% = PERCENT

ARM Action Codes $T1 = ([C1] + [C2] + [C3] + [C4] + [C5]) / 5$ $T2 = [C8] * 0.98$ $TY3 = 276.52533333 * [9]$