

University of Georgia

GA-16HO RESPONSE TO CLASSIC - YEAR 3

Trial ID: PE-06-24

Study Dir.: NICK SHAY

Location: PONDER FARM

Investigator: Eric P. Prostko

Reps: 4

Plots: 6 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC							-	101	204	303	404
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	65 DAP A 65 DAP A		0.3745 g/mx 3.75 mL/mx	1495.9 mL	102	203	301	403
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B 77 DAP B		0.3745 g/mx 3.75 mL/mx	1495.9 mL	103	202	304	402
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	91 DAP C 91 DAP C		0.3745 g/mx 3.75 mL/mx	1495.9 mL	104	201	302	401

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

PROWL H2O @ 32 OZ/A + STRONGARM @ 0.45 OZ/A + DUAL MAGNUM @ 16 OZ/A - PRE
CADRE @ 4 OZ/A + COBRA @ 12.5 OZ/A + DUAL MAGNUM @ 16 OZ/A - 06/04/24
SELECT MAX @ 24 OZ/A + DUAL MAGNUM @ 16 OZ/A - 06/26/24

DIGGING DATE:09/19/24 (143 DAYS)
HARVEST DATE: 09/23/24
HARVEST MOISTURE: 12.0%
YIELDS ADJUSTED TO 10%
2% YIELD DEDUCTION FOR FM

SUMMARY:

1) PEANUT PLANT HEIGHT WAS REDUCED (10.3%) WHEN CLASSIC WAS APPLIED @ 65 DAP.

2) CLASSIC HAD NO EFFECT ON TSWV (P=0.9651). TRIAL AVERAGE TSWV WAS 26%.

3) CLASSIC HAD NO EFFECT ON PEANUT YIELD (P=0.5744). GENERALLY, YIELDS WERE LOWER THAN NORMAL. TRIAL AVERAGE YIELD WAS ONLY 3758 LBS/A.

General Trial Information

Study Director: NICK SHAY

Investigator: Eric P. Prostko

Title:

Title:

Discipline:

Status: E

established

ARM Trial Created On: Feb-1-24

Initiation Date:

Completion Date:

Meets All Objectives: _

Planned Completion Date:

Last Possible Tour Visit:

Reliability:

Interim Data Due:

Trial Location

City:

State/Prov.:

Postal Code:

Country:

County:

Climate Zone:

Latitude of LL Corner °: _

Longitude of LL Corner °: _

GPS Accuracy of LL Corner: _

Altitude of LL Corner: _

Angle y-axis to North °: _

Directions:

Keywords:

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GA-16HO RESPONSE TO CLASSIC - YEAR 3

Trial ID: PE-06-24

Study Dir.: NICK SHAY

Location: PONDER FARM

Investigator: Eric P. Prostko

Regulations

Test Facility:

GEP Accreditation Number:

GEP Accreditation Link:

Certificate Expiration:

Conducted Under GLP: No

Official Trial ID:

Conducted Under GEP: No

Official Protocol ID:

No.	Destroyed?	Crop No.	Crop Code	Crop Stage	Part Destroyed	Explanation	Method	Destruction Date	Verified By
1.									

No.	Guideline	Discipline	Description
1.			

No.	Permit Number	Permit Description
1.		

Objectives:

Materials and Methods

Results:

Conclusions:

Contacts

Role: STYDIR

study director

Study Director:

Organization:

Address 1:

Address 2:

Country:

City:

Role: INVEST

investigator

Investigator:

Organization:

Address 1:

Address 2:

Country:

City:

Role: SPONSR

sponsor

Sponsor:

Organization:

Address 1:

Address 2:

Country:

City:

Role: COOPER

cooperator

Cooperator:

Organization:

Address 1:

Address 2:

Country:

City:

Role:

Contact Name 5:

Organization:

Address 1:

Address 2:

Country:

City:

Title:

Org. Type:

Phone No.:

E-mail:

State/Prov:

Title:

Org. Type:

Phone No.:

E-mail:

State/Prov:

Title:

Org. Type:

Phone No.:

E-mail:

State/Prov:

Title:

Org. Type:

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GA-16HO RESPONSE TO CLASSIC - YEAR 3

Trial ID: PE-06-24
Location: PONDER FARM

Study Dir.: NICK SHAY
Investigator: Eric P. Prostko

Crop Description

Crop 1: C ARAHY PEANUT

Entry Date: Sep-24-24

Variety: GEORGIA-16HO

Attributes: _____

Seed Shape: _____

Perennial Age: _____

Nursery Date: _____

Planting Date: Apr-29-24

Depth: 2 IN

Rows per Plot: _____

Row Spacing: _____

Spacing within Row: _____

Soil Temperature: _____

Emergence Date: _____

Harvest Date: Sep-23-24

Moisture Meter: _____

% Standard Moisture: 10.0

Weighing Equipment: _____

Stage Scale: BBCH

Seed Size: _____

Perennial Height: _____

Planting Rate: 3 S/RO

Planting Method: _____

Planting Equipment: _____

Seed Bed: _____

Soil Moisture: _____

Harvest Equipment: _____

Harvested Width: 6 FT

Harvested Length: 25 FT

Pest Description

Pest 1 Type: _

Code: _____

Common Name: _____

Attributes: _____

Establishment Date: _____

Establishment Rate: _____

Concentration: _____

Establishment Method/Description: _____

Crop: _____

Entry Date: _____

Stage Scale: _____

Artificial Population: _____

Time: _____

Stage at Establishment: _____

Stage at Infestation: _____

Site and Design

Treated Plot Width: 6 FT

Treated Plot Length: 25 FT

Treated Plot Area: 150.0 FT²

Replications: 4 Treatments: 4 Plots: 16

% Slope: _____

Distance between Blocks: 1 FT

Distance between 'Plot' Experimental Units: 0.5 FT

Site Type: _____

Experimental Unit: _____

Tillage Type: _____

Study Design: RACOB Randomized Complete Block (RCB)

Trial Initiation Comments:

Location Quality:

No.	Previous Crop	Previous Pest Type	Previous Pest	Previous Pesticides	Year	Month	Comment
1.	SOYBEAN				2023		
2.							

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix (Yes/No)	Comment
1.											

Comment:

Field Prep./Maintenance:

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GA-16HO RESPONSE TO CLASSIC - YEAR 3			
Trial ID: PE-06-24 Study Dir.: NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko			
Application Description			
	A	B	C
Date	Jul-3-24	Jul-15-24	Jul-29-24
Start Time			
Stop Time	6:30 AM	6:44 AM	6:55 AM
Standard			
Method	BROADCAST	BROADCAST	
Timing	65 DAP	77 DAP	91 DAP
Placement	FOLIAGE	FOLIAGE	FOLIAGE
Mixed/Prepared By	EP	EP	EP
Applied By	NS	NS	NS
Entry Date	Sep-24-24	Sep-24-24	Sep-24-24
Air Temperature Start, Stop	, 77 F	, 77 F	, 76 F
% Relative Humidity Start, Stop	97,	97,	99,
Wind Velocity+Dir. Start	0 MPH,	0 MPH,	0, MPH
Wind Velocity+Dir. Stop			
Wind Velocity+Dir. Max			
Wet Leaves (Y/N)	Y, yes	Y, yes	Y, yes
Soil Temperature	80 F	85 F	81 F
Soil Temperature Depth			
Soil Moisture	WET	OPTIMUM	WET
Soil Surface Condition			
% Ground Cover			
% Cloud Cover	100	25	35
First Moisture Occurred On			
Time to First Moisture			
Amount of First Moisture			
Moisture 1 Week Before Appl.			
Moisture 6 Hours After Appl.			
Moisture 24 Hours After Appl.			
Moisture 1 Week After Appl.			
Problems with Application?			
Comment:			

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Study Dir.: NICK SHAY

Location: PONDER FARM

Investigator: Eric P. Prostko

Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale	ARAHY,	ARAHY,	ARAHY,
Days after Emergence			
Stage Majority, Percent	R3,	R5,	R6,
Stage Minimum, Percent			
Stage Maximum, Percent			
Diameter Average			
Diameter Minimum, Maximum			
Height Average	9 IN	15 IN	19 IN
Height Minimum, Maximum			
Density Average			
Density Minimum, Maximum			
Coverage			

Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale			
Establishment Interval			
Stage Majority, Percent			
Stage Minimum, Percent			
Stage Maximum, Percent			
Diameter Average			
Diameter Minimum, Maximum			
Height Average			
Height Minimum, Maximum			
Relative Density			
Density Average			
Density Minimum, Maximum			
Coverage			
Crop Part Attacked, Code			

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Study Dir.: NICK SHAY

Location: PONDER FARM

Investigator: Eric P. Prostko

Application Equipment			
	A	B	C
Equipment Name		SAME AS A	SAME AS A
Equipment Type	BACCAI		
Operation Pressure	35		
Nozzle Model	TEEJET		
Nozzle Type			
Nozzle TradeName	AIXR		
Nozzle Tip Size, Color	11002, YELLOW		
Nozzle Spacing	20.0 cm		
Nozzles/Row			
Nozzle Count			
Band Width			
Spray Swath			
% Coverage			
Boom ID			
Boom Length	60.0 IN		
Boom Height	20.0 IN		
Ground Speed	3.5 MPH		
Carrier	WATER		
Water Hardness (ppm CaCO3)			
Application Amount	15 GAL/AC		
Mix Overage			
Mix Size	1.5 L		
Spray pH			
Propellant	COMCO2		
Tank Mix (Y/N)			

Equipment Comment:

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Equipment

	1.
Equipment Name	
Platform Type	
Platform Trade Name	
Platform Model	
Sensor Type	
Sensor Trade Name	
Sensor Model	
Resolution	
Sensor Height	
Sensor Speed	
Original Data Location	
Analysis Company	
Analysis Method	
Software Version	
Scale Trade Name	
Scale Model	

Treatment Appl. Comments

Trt No	Treatment Application Comment

Notes

No.	Context	Date	Time	By	Notes
1.	STATUS	Aug-7-24	2:27 PM	Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'E' when Rating Date was entered by (EGAPRE).
2.					

Deviations

No. 1: Date:_____ By:_____

Deviations:

Reasons:

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SE Definitions

	1.
Rating Timing	
SE Name	
SE Description	
Part Rated	
Rating Type	
Rating Unit	
Rating Min/Max/Interval	
Sample Size	
Collection Basis	
Reporting Basis	
Number of Subsamples	
Untreated Rating Type	
ARM Action Codes	
Pest Type, Code	
Crop Type, Code	
Required	

No.	Task	Comment
1.		

Instructions:

Yield Required: _

Geographic Area/Environmental Considerations:

Cropping Considerations:

Data to Collect:

Statistical Analysis:

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GA-16HO RESPONSE TO CLASSIC - YEAR 3

Trial ID: PE-06-24 Study Dir.: NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

Crop Code Rating Data Type Part Rated Rating Unit Rating Date							Arahy Hgt1 In Aug-7-24	Arahy Hgt2 In Aug-7-24	Arahy Hgt3 In Aug-7-24	Arahy Hgt4 In Aug-7-24	Arahy Hgt5 In Aug-7-24	ARAHY HGT-AVG INCHES Aug-7-24	Arahy TSWV #/100ft Aug-14-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	NTC						15.3 -	15.5 a	15.3 -	15.3 -	16.0 a	15.5 a	26.0 -
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	65 DAP A		13.8 -	13.5 b	13.8 -	14.3 -	14.3 b	13.9 b	23.5 -
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B		15.0 -	16.0 a	15.5 -	16.3 -	16.8 a	15.9 a	25.8 -
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	91 DAP C		16.5 -	16.5 a	15.5 -	15.0 -	16.0 a	15.9 a	27.5 -
LSD P=.10							1.85	1.35	1.88	1.47	1.01	0.88	14.46
Standard Deviation							1.42	1.04	1.45	1.13	0.78	0.68	11.16
CV							9.41	6.77	9.69	7.46	4.96	4.45	43.44
Grand Mean							15.13	15.38	15.00	15.19	15.75	15.29	25.69
Bartlett's X2^							6.194	2.356	1.242	7.194	178.651*	4.456	1.381
P(Bartlett's X2)							0.103	0.502	0.743	0.066	0.00*	0.216	0.71
Replicate F							1.356	0.385	0.079	1.216	4.364	0.164	2.089
Replicate Prob(F)							0.3170	0.7668	0.9698	0.3588	0.0371	0.9180	0.1720
Treatment F							2.507	6.385	1.342	2.124	7.364	7.789	0.088
Treatment Prob(F)							0.1249	0.0131	0.3209	0.1673	0.0085	0.0072	0.9651

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-06-24 Study Dir.: NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

Crop Code Rating Data Type Part Rated Rating Unit Rating Date							ARAHY YIELD-D PLOT, - LBS/PLOT Sep-23-24	ARAHY YIELD-C PLOT, - LBS/PLOT Sep-23-24	ARAHY YIELD PLOT, - LBS/A Sep-23-24	ARAHY YIELD PLOT, - KG/HA Sep-23-24
Trt	Treatment	Form	Form	Rate	Grow	Appl	8	9	10	11
No.	Name	Conc	Type	Rate	Unit	Stg	Code			
1	NTC							13.788 -	13.5 -	3836.6 -
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	65 DAP A			12.975 -	12.7 -	3610.5 -
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B			13.500 -	13.2 -	3756.6 -
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	91 DAP C			13.763 -	13.5 -	3829.7 -
LSD P=.10							1.1676	1.14	324.92	364.18
Standard Deviation							0.9008	0.88	250.67	280.96
CV							6.67	6.67	6.67	6.67
Grand Mean							13.5063	13.24	3758.35	4212.54
Bartlett's X2^							3.226	3.226	3.226	3.226
P(Bartlett's X2)							0.358	0.358	0.358	0.358
Replicate F							2.489	2.489	2.489	2.489
Replicate Prob(F)							0.1266	0.1266	0.1266	0.1266
Treatment F							0.702	0.702	0.702	0.702
Treatment Prob(F)							0.5744	0.5744	0.5744	0.5744

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-06-24	Study Dir.: NICK SHAY
Location: PONDER FARM	Investigator: Eric P. Prostko
ARM Action Codes	
T1 = ([C1]+[C2]+[C3]+[C4]+[C5])/5	
T2 = [8]*0.98	
TY3 = 283.94666667*[9]	
TY4 = 318.26075488*[9]	

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GA-16HO RESPONSE TO CLASSIC - YEAR 3															
Trial ID: PE-06-24					Study Dir.: NICK SHAY										
Location: PONDER FARM					Investigator: Eric P. Prostko										
Crop Code							Arahy	Arahy	Arahy	Arahy	Arahy	ARAHY	Arahy		
Rating Data Type							Hgt1	Hgt2	Hgt3	Hgt4	Hgt5	HGT-AVG	TSWV		
Part Rated															
Rating Unit							In	In	In	In	In	INCHES	#/100ft		
Rating Date							Aug-7-24	Aug-7-24	Aug-7-24	Aug-7-24	Aug-7-24	Aug-7-24	Aug-14-24		
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6	7
1	NTC						101		17.0	16.0	15.0	14.0	16.0	15.6	22.0
							204		13.0	15.0	16.0	16.0	15.0	15.0	20.0
							303		15.0	16.0	16.0	17.0	17.0	16.2	20.0
							404		16.0	15.0	14.0	14.0	16.0	15.0	42.0
							Mean =		15.3	15.5	15.3	15.3	16.0	15.5	26.0
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	65 DAP A 65 DAP A	102		13.0	15.0	15.0	15.0	15.0	14.6	42.0	
						203		14.0	14.0	14.0	14.0	13.0	13.8	16.0	
						301		13.0	12.0	12.0	13.0	14.0	12.8	23.0	
						403		15.0	13.0	14.0	15.0	15.0	14.4	13.0	
						Mean =		13.8	13.5	13.8	14.3	14.3	13.9	23.5	
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	77 DAP B 77 DAP B	103		13.0	17.0	17.0	15.0	16.0	15.6	36.0	
						202		17.0	16.0	15.0	16.0	16.0	16.0	19.0	
						304		14.0	15.0	15.0	18.0	18.0	16.0	33.0	
						402		16.0	16.0	15.0	16.0	17.0	16.0	15.0	
						Mean =		15.0	16.0	15.5	16.3	16.8	15.9	25.8	
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	91 DAP C 91 DAP C	104		17.0	15.0	13.0	14.0	16.0	15.0	49.0	
						201		16.0	17.0	16.0	15.0	15.0	15.8	20.0	
						302		15.0	17.0	16.0	16.0	18.0	16.4	13.0	
						401		18.0	17.0	17.0	15.0	15.0	16.4	28.0	
						Mean =		16.5	16.5	15.5	15.0	16.0	15.9	27.5	

GA-16HO RESPONSE TO CLASSIC - YEAR 3

Crop Code Rating Data Type Part Rated Rating Unit Rating Date							ARAHY YIELD-D PLOT, - LBS/PLOT Sep-23-24	ARAHY YIELD-C PLOT, - LBS/PLOT Sep-23-24	ARAHY YIELD PLOT, - LBS/A Sep-23-24	ARAHY YIELD PLOT, - KG/HA Sep-23-24		
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	8	9	10	11
1	NTC						101		15.750	15.4	4382.7	4912.4
							204		13.650	13.4	3798.4	4257.4
							303		13.750	13.5	3826.2	4288.6
							404		12.000	11.8	3339.2	3742.7
							Mean =		13.788	13.5	3836.6	4300.3
2	CLASSIC INDUCE	25 DG		0.5 oz/a	65 DAP A		102		14.250	14.0	3965.3	4444.5
				0.25 % v/v	65 DAP A		203		12.750	12.5	3547.9	3976.7
							301		12.300	12.1	3422.7	3836.3
							403		12.600	12.3	3506.2	3929.9
							Mean =		12.975	12.7	3610.5	4046.8
3	CLASSIC INDUCE	25 DG		0.5 oz/a	77 DAP B		103		14.700	14.4	4090.5	4584.9
				0.25 % v/v	77 DAP B		202		13.200	12.9	3673.1	4117.0
							304		12.900	12.6	3589.7	4023.5
							402		13.200	12.9	3673.1	4117.0
							Mean =		13.500	13.2	3756.6	4210.6
4	CLASSIC INDUCE	25 DG		0.5 oz/a	91 DAP C		104		13.050	12.8	3631.4	4070.2
				0.25 % v/v	91 DAP C		201		14.400	14.1	4007.1	4491.3
							302		14.550	14.3	4048.8	4538.1
							401		13.050	12.8	3631.4	4070.2
							Mean =		13.763	13.5	3829.7	4292.5

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<u>ARM Action Codes</u> T1 = ([C1]+[C2]+[C3]+[C4]+[C5])/5 T2 = [8]*0.98 TY3 = 283.94666667*[9] TY4 = 318.26075488*[9]	