

# University of Georgia

GA-16HO RESPONSE TO CLASSIC  
YEAR 2

Trial ID: PE-07-23      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	Grow Unit	Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep			
											1	2	3	4
1	NTC									-	101	202	304	402
2	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	61	DAP A	15	GPA GPA	0.3745 g/mx 3.75 mL/mx	1495.9 mL	102	204	302	404
3	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	79	DAP B	15	GAL/AC GAL/AC	0.3745 g/mx 3.75 mL/mx	1495.9 mL	103	201	303	401
4	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	92	DAP C	15	GAL/AC GAL/AC	0.3745 g/mx 3.75 mL/mx	1495.9 mL	104	203	301	403

Sort Order: Replicate 1

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## Trial Comments

### MAINTAINED WEED-FREE

ROUNDUP P-MAX3 @ 22 OZ/A + PROWL @ 32 OZ/A + STRONGARM @ 0.45 OZ/A + DUAL MAGNUM @ 16 OZ/A - PRE  
CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A - MAY 25  
ULTRA BLAZER @ 24 OZ/A + DUAL MAGNUM @ 16 OZ/ - JUNE 6  
SELECT MAX @ 16 OZ/A + DUAL MAGNUM @ 16 OZ/A - JUNE 28

DIGGING DATE: 09/23/23 (139 DAYS)  
HARVEST DATE: 10/02/23  
HARVEST MOISTURE: 9.4%  
YIELDS ADJUSTED TO 10%  
2% DEDUCTION FOR FM

### **SUMMARY:**

- 1) PEANUT PLANT HEIGHTS WERE SIGNIFICANTLY REDUCED WHEN CLASSIC WAS APPLIED 61 DAP OR 79 DAP.
- 2) TSWV WAS INCREASED (+29%) WHEN CLASSIC WAS APPLIED 79 DAP.
- 3) PEANUT YIELDS WERE SIGNIFICANTLY REDUCED WHEN CLASSIC WAS APPLIED 79 DAP (17% YIELD REDUCTION) BUT NOT 61 DAP OR 92 DAP.

NOTE 61 DAP = 56 DAE WHICH IS OFF-LABEL (I.E. TOO EARLY).

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**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-8-23      **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:** GOOD      **Emergence Date:** \_\_\_\_\_

**SITE AND DESIGN**

**Plot Width, Unit:** 6      FT      **Plot Length, Unit:** 25 FT      **Reps:** 4  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** CONVENTIONAL      **Study Design:** RACOBL

**Trial Initiation Comments:**

No.	Previous Crops	Previous Pesticides	Year
1.	FALLOW		2023

**MAINTENANCE**

**Field Prep./Maintenance:** 1.0 TON/A LIME PREPLANT  
300 LBS/A 5-15-30 - PREPLANT  
THIMET @ 7 LBS/A - INFR  
RANCONA VPD SEED TREATMENT  
1500 LBS/A GYPSUM  
36'-9" TWIN ROWS

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

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**SOIL DESCRIPTION**

% Sand: 94    % OM: 0.91    Texture: SAND  
% Silt: 0      pH: 6.0        Soil Name: TIFTON  
% Clay: 6     CEC: 3.6       Fert. Level: GOOD

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-11-23		0.5	IN	SPRINKLER - LATERAL MOVE		
2.	May-12-23		2.5	IN	RAINFALL		
3.	May-20-23		0.1	IN	RAINFALL		
4.	May-22-23		0.75	IN	RAINFALL		
5.	May-30-23		0.5	IN	SPRINKLER - LATERAL MOVE		
6.	Jun-7-23		0.5	IN	SPRINKLER - LATERAL MOVE		
7.	Jun-7-23		0.5	IN	RAINFALL		
8.	Jun-12-23		0.65	IN	RAINFALL		
9.	Jun-13-23		0.60	IN	RAINFALL		
10.	Jun-14-23		2.0	IN	RAINFALL		
11.	Jun-15-23		2.2	IN	RAINFALL		

Overall Moisture Conditions: \_\_\_\_\_  
Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

**APPLICATION DESCRIPTION**

	A	B	C
Application Date:	Jul-7-23	Jul-25-23	Aug-7-23
Time of Day:	6:15 AM	6:45 AM	6:50 AM
Application Method:	BROADCAST	BROADCAST	BROADCAST
Application Timing:	61 DAP	79 DAP	92 DAP
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE
Air Temp., Unit:	75 F	72 F	73 F
% Relative Humidity:	95	97	100
Wind Velocity, Unit:	1 MPH	0 MPH	2 MPH
Dew Presence (Y/N):	Y	Y	Y
Water Hardness:	--	----	----
Soil Temp., Unit:	80 F	78 F	81 F
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM
% Cloud Cover:	0	5	0

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	ARAHY,	ARAHY,	ARAHY,
Stage Scale:	R4	R5	R6
Height, Unit:	10, IN	13, IN	18, IN

**WEED STAGE AT EACH APPLICATION**

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

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APPLICATION EQUIPMENT			
	A	B	C
Appl. Equipment:	BACKPACK	SAME AS A	SAME AS A
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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GA-16HO RESPONSE TO CLASSIC YEAR 2																	
Trial ID: PE-07-23 Study Dir.: NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko																	
Crop Code Rating Date							ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-24-23	ARAHY Aug-24-23	ARAHY Oct-2-23	ARAHY Oct-2-23	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	1	2	3	4	5	6	7	8	9	10
1	NTC							15.3 a	17.8 a	17.3 a	16.0 ab	15.0 a	16.3 a	7.3 b	15 b	18.40 ab	18.0 ab
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	61 DAP A 61 DAP A			14.3 a	14.3 b	14.3 b	14.3 b	13.3 b	14.1 b	6.5 b	13 b	17.83 b	17.5 b
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	79 DAP B 79 DAP B			10.8 b	9.8 c	9.5 c	10.5 c	12.8 b	10.7 c	21.8 a	44 a	15.30 c	15.0 c
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	92 DAP C 92 DAP C			15.8 a	16.3 ab	17.8 a	16.5 a	15.3 a	16.3 a	6.5 b	13 b	19.03 a	18.6 a
LSD P=.10								2.42	2.29	1.50	1.76	1.37	1.11	3.23	6.5	1.059	1.04
Standard Deviation								1.87	1.76	1.16	1.36	1.06	0.85	2.49	5.0	0.817	0.80
CV								13.36	12.16	7.88	9.48	7.52	5.97	23.76	23.76	4.63	4.63
Grand Mean								14.00	14.50	14.69	14.31	14.06	14.31	10.50	21.0	17.638	17.28

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-07-23		Study Dir.: NICK SHAY					
Location: PONDER FARM		Investigator: Eric P. Prostko					

Crop Code							ARAHY
Rating Date							Oct-2-23
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code
1	NTC						5271 ab
2	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	61	DAP A DAP A	5107 b
3	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	79	DAP B DAP B	4383 c
4	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	92	DAP C DAP C	5450 a
LSD P=.10							303.4
Standard Deviation							234.1
CV							4.63
Grand Mean							5053.0

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 2 Trial ID: PE-07-23      Study Dir.: NICK SHAY Location: PONDER FARM      Investigator: Eric P. Prostko						
Randomized Complete Block (RCB) AOV For ARAHY Aug-18-23 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	124.000000				
Replicate	3	31.500000	10.500000	3.000	0.0877	
Treatment	3	61.000000	20.333333	5.810	0.0172	
Error	9	31.500000	3.500000			
Randomized Complete Block (RCB) AOV For ARAHY Aug-18-23 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	200.000000				
Replicate	3	27.000000	9.000000	2.893	0.0945	
Treatment	3	145.000000	48.333333	15.536	0.0007	
Error	9	28.000000	3.111111			
Randomized Complete Block (RCB) AOV For ARAHY Aug-18-23 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	203.437500				
Replicate	3	19.187500	6.395833	4.772	0.0295	
Treatment	3	172.187500	57.395833	42.824	0.0001	
Error	9	12.062500	1.340278			
Randomized Complete Block (RCB) AOV For ARAHY Aug-18-23 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	119.437500				
Replicate	3	14.187500	4.729167	2.570	0.1192	
Treatment	3	88.687500	29.562500	16.064	0.0006	
Error	9	16.562500	1.840278			
Randomized Complete Block (RCB) AOV For ARAHY Aug-18-23 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	36.937500				
Replicate	3	8.187500	2.729167	2.441	0.1312	
Treatment	3	18.687500	6.229167	5.571	0.0194	
Error	9	10.062500	1.118056			
Randomized Complete Block (RCB) AOV For ARAHY Aug-18-23 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	101.997500				
Replicate	3	10.687500	3.562500	4.886	0.0277	
Treatment	3	84.747500	28.249167	38.742	0.0001	
Error	9	6.562500	0.729167			
Randomized Complete Block (RCB) AOV For ARAHY Aug-24-23 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	824.000000				
Replicate	3	91.500000	30.500000	4.902	0.0275	
Treatment	3	676.500000	225.500000	36.241	0.0001	
Error	9	56.000000	6.222222			
Randomized Complete Block (RCB) AOV For ARAHY Aug-24-23 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	3296.000000				
Replicate	3	366.000000	122.000000	4.902	0.0275	
Treatment	3	2706.000000	902.000000	36.241	0.0001	
Error	9	224.000000	24.888889			
Randomized Complete Block (RCB) AOV For ARAHY Oct-2-23 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	58.997500				
Replicate	3	20.967500	6.989167	10.471	0.0027	
Treatment	3	32.022500	10.674167	15.991	0.0006	
Error	9	6.007500	0.667500			
Randomized Complete Block (RCB) AOV For ARAHY Oct-2-23 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	15	56.661199				
Replicate	3	20.137187	6.712396	10.471	0.0027	
Treatment	3	30.754409	10.251470	15.991	0.0006	
Error	9	5.769603	0.641067			

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Randomized Complete Block (RCB) AOV For ARAHY Oct-2-23 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	4842285.155471			
Replicate	3	1720930.785158	573643.595053	10.471	0.0027
Treatment	3	2628282.154177	876094.051392	15.991	0.0006
Error	9	493072.216136	54785.801793		

## ARM Action Codes

T1 =  $([1]+[2]+[3]+[4]+[5])/5$   
 T2 =  $[7]*2$   
 T3 =  $[9]*0.98$   
 TY4 =  $292.336*[10]$

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Crop Code																		
Rating Date	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-18-23	ARAHY Aug-24-23	ARAHY Aug-24-23	ARAHY Oct-2-23	ARAHY Oct-2-23								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6	7	8	9	10
1	NTC							101	14.0	18.0	19.0	18.0	15.0	16.8	9.0	18	18.30	17.9
								202	18.0	19.0	19.0	17.0	14.0	17.4	3.0	6	17.20	16.9
								304	13.0	14.0	14.0	13.0	14.0	13.6	12.0	24	20.10	19.7
								402	16.0	20.0	17.0	16.0	17.0	17.2	5.0	10	18.00	17.6
								Mean =	15.3	17.8	17.3	16.0	15.0	16.3	7.3	15	18.40	18.0
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	61	DAP A DAP A		102	12.0	15.0	16.0	15.0	12.0	14.0	10.0	20	16.50	16.2
								204	17.0	15.0	15.0	16.0	14.0	15.4	4.0	8	17.30	17.0
								302	12.0	14.0	13.0	13.0	13.0	13.0	7.0	14	18.80	18.4
								404	16.0	13.0	13.0	13.0	14.0	13.8	5.0	10	18.70	18.3
								Mean =	14.3	14.3	14.3	14.3	13.3	14.1	6.5	13	17.83	17.5
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	79	DAP B DAP B		103	11.0	8.0	11.0	9.0	12.0	10.2	22.0	44	14.90	14.6
								201	9.0	11.0	8.0	13.0	14.0	11.0	22.0	44	13.40	13.1
								303	9.0	7.0	9.0	10.0	13.0	9.6	27.0	54	16.30	16.0
								401	14.0	13.0	10.0	10.0	12.0	11.8	16.0	32	16.60	16.3
								Mean =	10.8	9.8	9.5	10.5	12.8	10.7	21.8	44	15.30	15.0
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	92	DAP C DAP C		104	13.0	14.0	19.0	16.0	14.0	15.2	10.0	20	17.70	17.3
								203	16.0	18.0	18.0	17.0	16.0	17.0	5.0	10	16.90	16.6
								301	17.0	16.0	17.0	17.0	14.0	16.2	6.0	12	20.60	20.2
								403	17.0	17.0	17.0	16.0	17.0	16.8	5.0	10	20.90	20.5
								Mean =	15.8	16.3	17.8	16.5	15.3	16.3	6.5	13	19.03	18.6



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ARM Action Codes

$$T1 = ([1]+[2]+[3]+[4]+[5])/5$$

$$T2 = [7]^2$$

$$T3 = [9]*0.98$$

$$TY4 = 292.336*[10]$$