

University of Georgia

GEORGIA-12Y RESPONSE TO CLASSIC
 YEAR 2 (WEED-FREE)
 Trial ID: PE-03-23 Study Dir.: N. SHAY/W. CARTER/G. ARMEL
 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	204	301	403
2	CLASSIC INDUCE	25	DG	0.5 oz/a	61	DAP A	15	GPA	0.3745 g/mx	1495.9 mL	102	203	304	401
				0.25 % v/v	61	DAP A	15	GPA	3.75 mL/mx					
3	CLASSIC INDUCE	25	DG	0.5 oz/a	79	DAP B	15	GAL/AC	0.3745 g/mx	1495.9 mL	103	201	302	404
				0.25 % v/v	79	DAP B	15	GAL/AC	3.75 mL/mx					
4	CLASSIC INDUCE	25	DG	0.5 oz/a	92	DAP C	15	GAL/AC	0.3745 g/mx	1495.9 mL	104	202	303	402
				0.25 % v/v	92	DAP C	15	GAL/AC	3.75 mL/mx					

Sort Order: Replicate 1

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Trial Comments

MAINTAINED WEED-FREE.

PROWL H20 @ 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/A - JUNE 6
DUAL MAGNUM @ 16 OZ/A + SELECT MAX @ 16 OZ/A - JUNE 28

DIGGING DATE: 09/23/23 (139 DAYS)

HARVEST DATE: 10/02/23

HARVEST MOISTURE: 11.2%

YIELDS ADJUSTED TO 10%.

2% YIELD DEDUCTION FOR FM.

SUMMARY:

- 1) PEANUT PLANT HEIGHTS WERE SIGNIFICANTLY REDUCED WHEN CLASSIC WAS APPLIED 61 DAP OR 79 DAP.
- 2) TSWV WAS NOT INFLUENCED BY ANY CLASSIC APPLICATION (P=0.1556).
- 3) PEANUT YIELDS WERE SIGNIFICANTLY REDUCED WHEN CLASSIC WAS APPLIED 61 DAP (13% YIELD REDUCTION) OR 79 DAP (10% REDUCTION). 61 DAP = 56 DAE WHICH WOULD BE OFF-LABEL I.E. TOO EARLY.

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GENERAL TRIAL INFORMATION

Study Director: K. BRISCOE **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-12Y
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:** DRY **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:

	Previous Crops	Previous Pesticides	Year
1.	FALLOW		

MAINTENANCE

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

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

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

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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	RANFALL		
8.	Jun-12-23		0.65	IN	RAINFALL		
9.	Jun-13-23		0.6	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	6:40 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	11, IN	20, 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	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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Location: PONDER FARM Investigator: Eric P. Prostko

Crop Code Part Rated Rating Data Type Rating Unit Rating Date	Arahy Plant, - Hgt1 Inches Aug-18-23	Arahy Plant, - Hgt2 Inches Aug-18-23	Arahy Plant, - Hgt3 Inches Aug-18-23	Arahy Plant, - Hgt4 Inches Aug-18-23	Arahy Plant, - Hgt5 Inches Aug-18-23	ARAHY PLANT, - HGT-AVG INCHES Aug-18-23	ARAHY TSWV #/50FT Aug-24-23	ARAHY TSWV % Aug-24-23	ARAHY DIRTY, - YIELD LBS/PLOT Oct-2-23	ARAHY CLEAN, - YIELD LBS/PLOT Oct-2-23
Trt Treatment Form Form Rate Grow Appl No. Name Conc Type Rate Unit Stg Code	1	2	3	4	5	6	7	8	9	10
1 NTC	16.8 ab	18.8 ab	18.5 ab	19.8 a	18.5 a	18.5 a	4.3 -	8.5 -	18.68 a	18.3 a
2 CLASSIC 25 DG 0.5 oz/a 61 DAP A INDUCE 0.25 % v/v 61 DAP A	15.8 bc	15.8 bc	16.0 bc	16.3 b	15.8 b	15.9 b	5.0 -	10.0 -	16.30 c	16.0 c
3 CLASSIC 25 DG 0.5 oz/a 79 DAP B INDUCE 0.25 % v/v 79 DAP B	14.8 c	14.5 c	15.0 c	13.0 c	15.3 b	14.5 b	9.0 -	18.0 -	16.85 bc	16.5 bc
4 CLASSIC 25 DG 0.5 oz/a 92 DAP C INDUCE 0.25 % v/v 92 DAP C	17.8 a	19.8 a	19.0 a	18.0 ab	18.3 a	18.6 a	4.3 -	8.5 -	18.18 ab	17.8 ab
LSD P=.10	1.59	3.35	2.69	2.52	1.30	1.56	3.97	7.93	1.500	1.47
Standard Deviation	1.22	2.58	2.07	1.94	1.00	1.20	3.06	6.12	1.158	1.13
CV	7.54	15.03	12.12	11.6	5.92	7.13	54.39	54.39	6.61	6.61
Grand Mean	16.25	17.19	17.13	16.75	16.94	16.85	5.63	11.25	17.500	17.15

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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Crop Code							ARAHY
Part Rated							CLEAN, -
Rating Data Type							YIELD
Rating Unit							LBS/A
Rating Date							Oct-2-23
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code
1	NTC						11
2	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	61	DAP A DAP A	5244 a
3	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	79	DAP B DAP B	4577 c
4	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	92	DAP C DAP C	4731 bc
LSD P=.10							421.3
Standard Deviation							325.0
CV							6.61
Grand Mean							4914.0

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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Randomized Complete Block (RCB) AOV For Arahly Plant Hgt1 Inches Aug-18-23 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	47.000000			
Replicate	3	13.500000	4.500000	3.000	0.0877
Treatment	3	20.000000	6.666667	4.444	0.0354
Error	9	13.500000	1.500000		

Randomized Complete Block (RCB) AOV For Arahly Plant Hgt2 Inches Aug-18-23 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	154.437500			
Replicate	3	21.187500	7.062500	1.058	0.4137
Treatment	3	73.187500	24.395833	3.656	0.0569
Error	9	60.062500	6.673611		

Randomized Complete Block (RCB) AOV For Arahly Plant Hgt3 Inches Aug-18-23 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	87.750000			
Replicate	3	4.250000	1.416667	0.329	0.8047
Treatment	3	44.750000	14.916667	3.465	0.0643
Error	9	38.750000	4.305556		

Randomized Complete Block (RCB) AOV For Arahly Plant Hgt4 Inches Aug-18-23 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	147.000000			
Replicate	3	13.500000	4.500000	1.191	0.3669
Treatment	3	99.500000	33.166667	8.779	0.0049
Error	9	34.000000	3.777778		

Randomized Complete Block (RCB) AOV For Arahly Plant Hgt5 Inches Aug-18-23 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	52.937500			
Replicate	3	10.187500	3.395833	3.372	0.0683
Treatment	3	33.687500	11.229167	11.152	0.0022
Error	9	9.062500	1.006944		

Randomized Complete Block (RCB) AOV For ARAHY PLANT HGT-AVG INCHES Aug-18-23 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	65.880000			
Replicate	3	5.380000	1.793333	1.242	0.3508
Treatment	3	47.500000	15.833333	10.962	0.0023
Error	9	13.000000	1.444444		

Randomized Complete Block (RCB) AOV For ARAHY TSWV #/50FT Aug-24-23 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	175.750000			
Replicate	3	29.250000	9.750000	1.042	0.4201
Treatment	3	62.250000	20.750000	2.217	0.1556
Error	9	84.250000	9.361111		

Randomized Complete Block (RCB) AOV For ARAHY TSWV % Aug-24-23 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	703.000000			
Replicate	3	117.000000	39.000000	1.042	0.4201
Treatment	3	249.000000	83.000000	2.217	0.1556
Error	9	337.000000	37.444444		

Randomized Complete Block (RCB) AOV For ARAHY DIRTY YIELD LBS/PLOT Oct-2-23 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	37.940000			
Replicate	3	11.085000	3.695000	2.757	0.1040
Treatment	3	14.795000	4.931667	3.680	0.0560
Error	9	12.060000	1.340000		

Randomized Complete Block (RCB) AOV For ARAHY CLEAN YIELD LBS/PLOT Oct-2-23 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	36.437576			
Replicate	3	10.646034	3.548678	2.757	0.1040
Treatment	3	14.209118	4.736373	3.680	0.0560
Error	9	11.582424	1.286936		

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Randomized Complete Block (RCB) AOV For ARAHY CLEAN YIELD LBS/A Oct-2-23 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	2991462.855662			
Replicate	3	874021.237612	291340.412537	2.757	0.1040
Treatment	3	1166544.358185	388848.119395	3.680	0.0560
Error	9	950897.259865	105655.251096		

Part Rated
 Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
Rating Unit
 % = PERCENT
ARM Action Codes
 T1 = ([1]+[2]+[3]+[4]+[5])/5
 T2 = [7]*2
 T3 = [9]*0.98
 TY4 = 286.528*[10]

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Crop Code		Arahy Plant, - Hgt1	Arahy Plant, - Hgt2	Arahy Plant, - Hgt3	Arahy Plant, - Hgt4	Arahy Plant, - Hgt5	ARAHY PLANT, - HGT-AVG	ARAHY TSWV #/50FT	ARAHY TSWV %	ARAHY DIRTY, - YIELD LBS/PLOT								
Part Rated		Inches	Inches	Inches	Inches	Inches	INCHES											
Rating Data Type		Aug-18-23	Aug-18-23	Aug-18-23	Aug-18-23	Aug-18-23	Aug-18-23	Aug-24-23	Aug-24-23	Oct-2-23								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6	7	8	9	
1	NTC																	
									101	16.0	19.0	19.0	21.0	20.0	19.0	2.0	4.0	17.60
									204	14.0	21.0	20.0	18.0	19.0	18.4	4.0	8.0	19.30
									301	17.0	13.0	16.0	20.0	16.0	16.4	8.0	16.0	16.90
									403	20.0	22.0	19.0	20.0	19.0	20.0	3.0	6.0	20.90
									Mean =	16.8	18.8	18.5	19.8	18.5	18.5	4.3	8.5	18.68
2	CLASSIC INDUCE	25 DG		0.5 oz/a	61 DAP A				102	14.0	14.0	16.0	16.0	18.0	15.6	4.0	8.0	18.00
				0.25 % v/v	61 DAP A				203	16.0	18.0	17.0	20.0	15.0	17.2	3.0	6.0	16.50
									304	16.0	15.0	18.0	15.0	15.0	15.8	3.0	6.0	14.30
									401	17.0	16.0	13.0	14.0	15.0	15.0	10.0	20.0	16.40
									Mean =	15.8	15.8	16.0	16.3	15.8	15.9	5.0	10.0	16.30
3	CLASSIC INDUCE	25 DG		0.5 oz/a	79 DAP B				103	15.0	17.0	15.0	16.0	16.0	15.8	4.0	8.0	17.60
				0.25 % v/v	79 DAP B				201	14.0	11.0	13.0	12.0	15.0	13.0	13.0	26.0	15.80
									302	15.0	15.0	16.0	11.0	15.0	14.4	12.0	24.0	15.50
									404	15.0	15.0	16.0	13.0	15.0	14.8	7.0	14.0	18.50
									Mean =	14.8	14.5	15.0	13.0	15.3	14.5	9.0	18.0	16.85
4	CLASSIC INDUCE	25 DG		0.5 oz/a	92 DAP C				104	17.0	20.0	20.0	18.0	18.0	18.6	4.0	8.0	17.70
				0.25 % v/v	92 DAP C				202	18.0	21.0	21.0	20.0	19.0	19.8	3.0	6.0	18.20
									303	17.0	18.0	16.0	16.0	17.0	16.8	6.0	12.0	18.30
									402	19.0	20.0	19.0	18.0	19.0	19.0	4.0	8.0	18.50
									Mean =	17.8	19.8	19.0	18.0	18.3	18.6	4.3	8.5	18.18

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						ARAHY CLEAN, - YIELD LBS/PLOT Oct-2-23	ARAHY CLEAN, - YIELD LBS/A Oct-2-23		
Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	Plot		
1	NTC						10	11	
							101	17.2	4942
							204	18.9	5419
							301	16.6	4745
							403	20.5	5869
							Mean =	18.3	5244
2	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	61 DAP A 61 DAP A	102 203 304 401			5054 4633 4015 4605
							Mean =	16.0	4577
3	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	79 DAP B 79 DAP B	103 201 302 404			4942 4437 4352 5195
							Mean =	16.5	4731
4	CLASSIC INDUCE	25 DG		0.5 oz/a 0.25 % v/v	92 DAP C 92 DAP C	104 202 303 402			4970 5111 5139 5195
							Mean =	17.8	5103

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Part Rated
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
Rating Unit
% = PERCENT
ARM Action Codes
T1 = $([1]+[2]+[3]+[4]+[5])/5$
T2 = $[7]*2$
T3 = $[9]*0.98$
TY4 = $286.528*[10]$