

University of Georgia

PEANUT RESPONSE TO MILESTONE 2LC (AMINOPYRALID)			
WEED-FREE - YEAR 3			
Trial ID:	PE-09-25	Study Dir.:	N. SHAY
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	PRE MILESTONE 1X	2 LC		7.0 oz/a	A	5.469 mL/mx	-	101	215	311
2	PRE MILESTONE 1/5THX	2 LC		1.4 oz/a	A	1.094 mL/mx	-	102	207	314
3	PRE MILESTONE 1/10THX	2 LC		0.7 oz/a	A	0.5469 mL/mx	-	103	202	312
4	PRE MILESTONE 1/100THX	2 LC		0.07 oz/a	A	.05469 mL/mx	-	104	205	308
5	PRE MILESTONE NO HERBICIDE	2 LC		0.0 oz/a	A		-	105	213	303
6	29 DAP MILESTONE 1X	2 LC		7.0 oz/a	B	5.469 mL/mx	-	106	201	304
7	29 DAP MILESTONE 1/5THX	2 LC		1.4 oz/a	B	1.094 mL/mx	-	107	209	302
8	29 DAP MILESTONE 1/10THX	2 LC		0.7 oz/a	B	0.5469 mL/mx	-	108	212	305
9	29 DAP MILESTONE 1/100THX	2 LC		0.07 oz/a	B	.05469 mL/mx	-	109	211	309
10	29 DAP MILESTONE NO HERBICIDE	2 LC		0.0 oz/a	B		-	110	203	315
11	58 DAP MILESTONE 1X	2 LC		7.0 oz/a	C	5.469 mL/mx	-	111	206	310
12	58 DAP MILESTONE 1/5THX	2 LC		1.4 oz/a	C	1.094 mL/mx	-	112	204	301
13	58 DAP MILESTONE 1/10THX	2 LC		0.7 oz/a	C	0.5469 mL/mx	-	113	210	307
14	58 DAP MILESTONE 1/100THX	2 LC		0.07 oz/a	C	.05469 mL/mx	-	114	208	313
15	58 DAP MILESTONE NO HERBICIDE	2 LC		0.0 oz/a	C		-	115	214	306

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

SKIPPED FULL BED IN-BETWEEN TREATMENTS

PROWL @ 32 OZ/A + STRONGARM @ 0.45 OZ/A + VALOR @ 3 OZ/A: PRE
 CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A: JUNE 2

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Trial ID:	PE-09-25	Study Dir.:	N. SHAY
Location:	PONDER FARM	Investigator:	Eric P. Prostko

DIGGING DATE: 09/18/25 (142 DAYS)
HARVEST DATE: 09/22/25
HARVEST MOISTURE: 10.9%
YIELDS ADJUSTED TO 10% MOISTURE
2% YIELD DEDUCTION FOR FM

MISSING YIELD DAT IN PLOT 109 DUE TO BAGGING ERROR.

SUMMARY:

- 1) THERE WAS A SIGNIFICANT INTERACTION BETWEEN TIMING AND RATE FOR PEANUT YIELD (P=0.0294)
- 2) MILESTONE APPLIED AT 7 OZ/A (1X) AT ALL TIMINGS RESULTED IN 100% PEANUT YIELD LOSSES.
- 3) MILESTONE APPLIED AT 1.4 OZ/A (1/5X) RESULTED IN THE FOLLOWING YIELD LOSSES:
 - A) PRE = 98%
 - B) 29 DAP = 95%
 - C) 58 DAP = 69%
- 4) MILESTONE APPLIED AT 0.7 OZ/A (1/10X) RESULTED IN THE FOLLOWING YIELD LOSSES:
 - A) PRE = 91%
 - B) 29 DAP = 65%
 - C) 58 DAP = 48%
- 5) MILESTONE APPLIED AT 0.07 OZ/A (1/100X) RESULTED IN THE FOLLOWING YIELD LOSSES:
 - A) PRE = 15%
 - B) 29 DAP = 13%
 - C) 58 DAP = 19%
- 6) MILESTONE CAUSED ALOT OF ABNORMAL PODS AND POPS.

Study Director: N. 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: _____

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WEED-FREE - YEAR 3

Trial ID: PE-09-25

Study Dir.: N. SHAY

Location: PONDER FARM

Investigator: Eric P. Prostko

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.			
2.			
3.			

Crop 1: ARAHY

PEANUT

Variety: GA-06G

Planting Date: Apr-30-25

Planting Method: MONOSEM TWIN ROW

Rate: 3.5

SEED/FT

Depth: 2

IN

Perennial Age:

Row Spacing:

Spacing Within Row:

Seed Bed:

Soil Temperature:

Soil Moisture: OPTIMUM

Emergence Date:

Plot Width, Unit: 6 FT

Plot Length, Unit: 25 FT

Reps: 3

Site Type:

Tillage Type: CONVENTIONAL

Study Design: FACTOR

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	SOYBEAN		2024

MAINTENANCE

Field Prep./Maintenance: 750 LBS/A: 5-15-30 - PREPLANT
THIMET 20G INFR @ 7.5 LBS/A
36"-9" TWIN ROW SPACING
RANCONA VPD SEED TRT

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

% Sand: 92 % OM: 0.53 Texture: SAND
% Silt: 6 pH: 6.0 Soil Name: TIFTON
% Clay: 2 CEC: 2.6 Fert. Level: GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-1-25		0.5	IN	SPRINKLER - LATERAL MOVE		
2.	May-9-25		0.47	IN	RAINFALL		
3.	May-10-25		0.41	IN	RAINFALL		
4.	May-11-25		0.42	IN	RAINFALL		
5.	May-16-25		0.5	IN	SPRINKLER - LATERAL MOVE		
6.	May-21-25		0.3	IN	SPRINKLER - LATERAL MOVE		
7.	May-21-25		0.3	IN	RAINFALL		
8.	May-23-25		0.35	IN	SPRINKLER - LATERAL MOVE		
9.	May-26-25		0.3	IN	SPRINKLER - LATERAL MOVE		
10.	May-26-25		0.12	IN	RAINFALL		
11.	May-27-25		0.1	IN	RAINFALL		
12.	May-28-25		0.09	IN	RAINFALL		

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	Date	Time	Amount	Unit	Type	Interval	Unit
13.	May-29-25		0.7	IN	RAINFALL (3 HAT)		
14.	Jun-4-25		0.38	IN	RAINFALL		
15.	Jun-5-25		0.57	IN	RAINFALL		
16.	Jun-9-25		0.7	IN	RAINFALL/IRRIGATION		
17.	Jun-10-25		0.2	IN	RAINFALL		
18.	Jun-11-25		0.2	IN	RAINFALL		
19.	Jun-13-25		0.5	IN	SPRINKLER - LATERAL MOVE		
20.	Jun-14-25		0.2	IN	RAINFALL		
21.	Jun-15-25		0.65	IN	RAINFALL		
22.	Jun-19-25		0.7	IN	RAINFALL/IRRIGATION		
23.	Jun-24-25		0.6	IN	SPRINKLER - LATERAL MOVE		
24.	Jun-26-25		0.65	IN	RAINFALL		

Overall Moisture Conditions:

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C
Application Date:	May-1-25	May-29-25	Jun-27-25
Time of Day:	6:30 AM	6:35 AM	6:45 AM
Application Method:	BROADCAST	BROADCAST	BROADCAST
Application Timing:	PRE	29 DAP	58 DAP
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE
Air Temp., Unit:	63 F	70 F	71 F
% Relative Humidity:	91	96	96
Wind Velocity, Unit:	0 MPH	0 MPH	0 MPH
Dew Presence (Y/N):	N	Y	Y
Water Hardness:	--	--	--
Soil Temp., Unit:	70 F	72 F	76 F
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM
% Cloud Cover:	0	65	10

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ARAHY,	ARAHY,	ARAHY,
Stage Scale:		V6	R3-4
Height, Unit:		4, IN	9, IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:			
Stage Scale:			
Density, Unit:			
Weed 2 Code, Stage:			
Stage Scale:			
Density, Unit:			
Weed 3 Code, Stage:			
Stage Scale:			
Density, Unit:			

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Trial ID:	PE-09-25	Study Dir.:	N. SHAY
Location:	PONDER FARM	Investigator:	Eric P. Prostko

APPLICATION EQUIPMENT			
	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	38	35	35
Nozzle Type:	AIXR	TTI	TTI
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:			
Band Width, Unit:			
Boom Length, Unit:	60 IN	60 IN	60 IN
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):			

Trt No	Treatment Application Comment

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WEED-FREE - YEAR 3						
Trial ID:		PE-09-25		Study Dir.:		N. SHAY
Location:		PONDER FARM		Investigator:		Eric P. Prostko
Crop Code				ARAHY	ARAHY	ARAHY
Rating Data Type				YLD-DIRTY	YLD-DIRTY	YIELD
Rating Unit				LBS/PLOT	LBS/PLOT	LBS/A
Trt	Treatment	Form	Form	Rate		
No.	Name	Conc	Type	Rate Unit	1	2
					3	
TABLE OF R MEANS						
Replicate 1				10.33	10.1	2910
Replicate 2				11.79	11.6	3323
Replicate 3				11.90	11.7	3353
TABLE OF A (timing) MEANS						
1	PRE			9.87 b	9.7 b	2780 b
2	29 DAP			10.78 b	10.6 b	3036 b
3	58 DAP			13.38 a	13.1 a	3770 a
LSD P=.10				2.212	2.17	623.2
Standard Deviation				2.842	2.78	800.6
CV				25.055	25.06	25.1
TABLE OF B (rate) MEANS						
1	MILESTONE	2 LC	7.0 oz/a	0.00 e	0.0 e	0 e
1	1X					
2	MILESTONE	2 LC	1.4 oz/a	3.18 d	3.1 d	895 d
2	1/5THX					
3	MILESTONE	2 LC	0.7 oz/a	7.97 c	7.8 c	2245 c
3	1/10THX					
4	MILESTONE	2 LC	0.07 oz/a	20.82 b	20.4 b	5865 b
4	1/100THX					
5	MILESTONE	2 LC	0.0 oz/a	24.74 a	24.2 a	6972 a
5	NO HERBICIDE					
LSD P=.10				1.916	1.88	539.9
Standard Deviation				2.186	2.14	615.9
CV				19.274	19.27	19.3
TABLE OF A (timing) B (rate) MEANS						
1	PRE			0.00 f	0.0 f	0 f
1	MILESTONE	2 LC	7.0 oz/a			
1	1X					
2	29 DAP			0.00 f	0.0 f	0 f
1	MILESTONE	2 LC	7.0 oz/a			
1	1X					
3	58 DAP			0.00 f	0.0 f	0 f
1	MILESTONE	2 LC	7.0 oz/a			
1	1X					
1	PRE			0.47 f	0.5 f	131 f
2	MILESTONE	2 LC	1.4 oz/a			
2	1/5THX					
2	29 DAP			1.27 f	1.2 f	357 f
2	MILESTONE	2 LC	1.4 oz/a			
2	1/5THX					
3	58 DAP			7.80 e	7.6 e	2198 e
2	MILESTONE	2 LC	1.4 oz/a			
2	1/5THX					
1	PRE			2.37 f	2.3 f	667 f
3	MILESTONE	2 LC	0.7 oz/a			
3	1/10THX					

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.

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PEANUT RESPONSE TO MILESTONE 2LC (AMINOPYRALID)							
WEED-FREE - YEAR 3							
Trial ID:		PE-09-25		Study Dir.:		N. SHAY	
Location:		PONDER FARM		Investigator:		Eric P. Prostko	
Crop Code Rating Data Type Rating Unit				ARAHY YLD-DIRTY LBS/PLOT	ARAHY YLD-DIRTY LBS/PLOT	ARAHY YIELD LBS/A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	1	2	3
2	29 DAP				8.23 e	8.1 e	2320 e
3	MILESTONE	2 LC		0.7 oz/a			
3	1/10THX						
3	58 DAP				13.30 d	13.0 d	3747 d
3	MILESTONE	2 LC		0.7 oz/a			
3	1/10THX						
1	PRE				21.33 bc	20.9 bc	6011 bc
4	MILESTONE	2 LC		0.07 oz/a			
4	1/100THX						
2	29 DAP				20.65 c	20.2 c	5818 c
4	MILESTONE	2 LC		0.07 oz/a			
4	1/100THX						
3	58 DAP				20.47 c	20.1 c	5766 c
4	MILESTONE	2 LC		0.07 oz/a			
4	1/100THX						
1	PRE				25.17 ab	24.7 ab	7091 ab
5	MILESTONE	2 LC		0.0 oz/a			
5	NO HERBICIDE						
2	29 DAP				23.73 abc	23.3 abc	6687 abc
5	MILESTONE	2 LC		0.0 oz/a			
5	NO HERBICIDE						
3	58 DAP				25.33 a	24.8 a	7138 a
5	MILESTONE	2 LC		0.0 oz/a			
5	NO HERBICIDE						
LSD P=.10					3.909	3.83	1101.3
Standard Deviation					2.731	2.68	769.4
CV					24.078	24.08	24.1

COMPLETE FACTORIAL AOV For ARAHY YLD-DIRTY LBS/PLOT (Data Column 1) Missing values in column 1 results in unbalanced data, Least Squares Analysis is preferred							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	43	4772.836444					
R	2	23.088111	11.544056	1.548	0.2448		
A	2	99.744778	49.872389	6.177	0.0598	2.21	
RA	4	32.297556	8.074389				
B	4	4284.748667	1071.187167	224.188	0.0001	1.92	
RB	8	38.224667	4.778083				
AB	8	182.878000	22.859750	3.066	0.0294	3.91	
RAB	15	111.854667	7.456978				

COMPLETE FACTORIAL AOV For ARAHY YLD-DIRTY LBS/PLOT (Data Column 2) Missing values in column 2 results in unbalanced data, Least Squares Analysis is preferred							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	43	4583.832121					
R	2	22.173822	11.086911	1.548	0.2448		
A	2	95.794885	47.897442	6.177	0.0598	2.2	
RA	4	31.018572	7.754643				
B	4	4115.072619	1028.768155	224.188	0.0001	1.9	
RB	8	36.710970	4.588871				
AB	8	175.636031	21.954504	3.066	0.0294	3.8	
RAB	15	107.425222	7.161681				

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.

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PEANUT RESPONSE TO MILESTONE 2LC (AMINOPYRALID)						
WEED-FREE - YEAR 3						
Trial ID:	PE-09-25	Study Dir.:	N. SHAY			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ARAHY YIELD LBS/A (Data Column 3) Missing values in column 3 results in unbalanced data, Least Squares Analysis is preferred						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	43	378871831.031074				
R	2	1832753.967905	916376.983952	1.548	0.2448	
A	2	7917825.601680	3958912.800840	6.177	0.0598	623
RA	4	2563807.529044	640951.882261			
B	4	340127006.601608	85031751.650402	224.188	0.0001	540
RB	8	3034306.668398	379288.333550			
AB	8	14517011.743813	1814626.467977	3.066	0.0294	1101
RAB	15	8879118.918625	591941.261242			
ARM Action Codes						
T1 = [1]*0.98						
TY2 = 287.496*[2]						

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WEED-FREE - YEAR 3									
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Location:		PONDER FARM		Investigator:		Eric P. Prostko			
Crop Code					ARAHY	ARAHY	ARAHY		
Rating Data Type					YLD-DIRTY	YLD-DIRTY	YIELD		
Rating Unit					LBS/PLOT	LBS/PLOT	LBS/A		
Trt	Treatment	Form	Form	Rate					
No.	Name	Conc	Type	Rate Unit Plot	1	2	3		
1	PRE			101	0.00	0.0	0		
	MILESTONE	2 LC		215	0.00	0.0	0		
	1X			311	0.00	0.0	0		
				Mean =	0.00	0.0	0		
2	PRE			102	1.40	1.4	394		
	MILESTONE	2 LC		207	0.00	0.0	0		
	1/5THX			314	0.00	0.0	0		
				Mean =	0.47	0.5	131		
3	PRE			103	1.90	1.9	535		
	MILESTONE	2 LC		202	2.20	2.2	620		
	1/10THX			312	3.00	2.9	845		
				Mean =	2.37	2.3	667		
4	PRE			104	24.20	23.7	6818		
	MILESTONE	2 LC		205	19.00	18.6	5353		
	1/100THX			308	20.80	20.4	5860		
				Mean =	21.33	20.9	6011		
5	PRE			105	24.70	24.2	6959		
	MILESTONE	2 LC		213	24.80	24.3	6987		
	NO HERBICIDE			303	26.00	25.5	7325		
				Mean =	25.17	24.7	7091		
6	29 DAP			106	0.00	0.0	0		
	MILESTONE	2 LC		201	0.00	0.0	0		
	1X			304	0.00	0.0	0		
				Mean =	0.00	0.0	0		
7	29 DAP			107	0.70	0.7	197		
	MILESTONE	2 LC		209	3.10	3.0	873		
	1/5THX			302	0.00	0.0	0		
				Mean =	1.27	1.2	357		
8	29 DAP			108	0.70	0.7	197		
	MILESTONE	2 LC		212	9.80	9.6	2761		
	1/10THX			305	14.20	13.9	4001		
				Mean =	8.23	8.1	2320		
9	29 DAP			109	.	.	.		
	MILESTONE	2 LC		211	21.80	21.4	6142		
	1/100THX			309	19.50	19.1	5494		
				Mean =	20.65	20.2	5818		
10	29 DAP			110	21.40	21.0	6029		
	MILESTONE	2 LC		203	26.20	25.7	7382		
	NO HERBICIDE			315	23.60	23.1	6649		
				Mean =	23.73	23.3	6687		
11	58 DAP			111	0.00	0.0	0		
	MILESTONE	2 LC		206	0.00	0.0	0		
	1X			310	0.00	0.0	0		
				Mean =	0.00	0.0	0		
12	58 DAP			112	8.50	8.3	2395		
	MILESTONE	2 LC		204	8.50	8.3	2395		
	1/5THX			301	6.40	6.3	1803		
				Mean =	7.80	7.6	2198		
13	58 DAP			113	13.90	13.6	3916		
	MILESTONE	2 LC		210	12.20	12.0	3437		
	1/10THX			307	13.80	13.5	3888		
				Mean =	13.30	13.0	3747		
14	58 DAP			114	14.40	14.1	4057		
	MILESTONE	2 LC		208	23.60	23.1	6649		
	1/100THX			313	23.40	22.9	6593		
				Mean =	20.47	20.1	5766		

