

# University of Georgia

GA-13M RESPONSE TO HERBICIDES  
YEAR #1

Trial ID: PE-16-15      Study Dir.:  
Location: PONDER FARM      Investigator: Eric P. Prostko

Reps: 4      Plots: 6 by 25 feet  
Spray vol: 15 GAL/AC      Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	NTC							101	206	305	407
2	GRAMOXONE	2 SL		12.0 oz/a		EPOST A	9.374 ml/mx	102	205	302	410
	STORM	4 SL		16.0 oz/a		EPOST A	12.5 ml/mx				
	DUAL MAGNUM	7.62 EC		16.0 oz/a		EPOST A	12.5 ml/mx				
3	CADRE	2 AS		4.0 oz/a		POST B	3.125 ml/mx	103	209	301	409
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST B	12.5 ml/mx				
4	GRAMOXONE	2 SL		12.0 oz/a		EPOST A	9.374 ml/mx	104	201	304	403
	STORM	4 SL		16.0 oz/a		EPOST A	12.5 ml/mx				
	DUAL MAGNUM	7.62 EC		16.0 oz/a		EPOST A	12.5 ml/mx				
	CADRE	2 AS		4.0 oz/a		POST B	3.125 ml/mx				
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST B	12.5 ml/mx				
5	GRAMOXONE	2 SL		12.0 oz/a		EPOST A	9.374 ml/mx	105	208	307	405
	STORM	4 SL		16.0 oz/a		EPOST A	12.5 ml/mx				
	WARRANT	3 SC		48.0 oz/a		EPOST A	37.5 ml/mx				
	NIS			0.25 % v/v		EPOST A	3.75 ml/mx				
6	CADRE	2 AS		4.0 oz/a		POST B	3.125 ml/mx	106	210	308	401
	WARRANT	3 SC		48.0 oz/a		POST B	37.5 ml/mx				
	NIS			0.25 % v/v		POST B	3.75 ml/mx				
7	GRAMOXONE	2 SL		12.0 oz/a		EPOST A	9.374 ml/mx	107	202	309	402
	STORM	4 SL		16.0 oz/a		EPOST A	12.5 ml/mx				
	WARRANT	3 SC		48.0 oz/a		EPOST A	37.5 ml/mx				
	NIS			0.25 % v/v		EPOST A	3.75 ml/mx				
	CADRE	2 AS		4.0 oz/a		POST B	3.125 ml/mx				
	WARRANT	3 SC		48.0 oz/a		POST B	37.5 ml/mx				
	NIS			0.25 % v/v		POST B	3.75 ml/mx				
8	GRAMOXONE	2 SL		12.0 oz/a		EPOST A	9.374 ml/mx	108	204	306	408
	STORM	4 SL		16.0 oz/a		EPOST A	12.5 ml/mx				
	ZIDUA	85 WG		1.5 oz/a		EPOST A	1.123 g/mx				
	NIS			0.25 % v/v		EPOST A	3.75 ml/mx				
9	CADRE	2 AS		4.0 oz/a		POST B	3.125 ml/mx	109	207	303	406
	ZIDUA	85 WG		1.5 oz/a		POST B	1.123 g/mx				
	NIS			0.25 % v/v		POST B	3.75 ml/mx				
10	GRAMOXONE	2 SL		12.0 oz/a		EPOST A	9.374 ml/mx	110	203	310	404
	STORM	4 SL		16.0 oz/a		EPOST A	12.5 ml/mx				
	ZIDUA	85 WG		1.5 oz/a		EPOST A	1.123 g/mx				
	NIS			0.25 % v/v		EPOST A	3.75 ml/mx				
	CADRE	2 AS		4.0 oz/a		POST B	3.125 ml/mx				
	ZIDUA	85 WG		1.5 oz/a		POST B	1.123 g/mx				
	NIS			0.25 % v/v		POST B	3.75 ml/mx				

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE  
PROWL @ 32 OZ/A + STRONGARM @ 0.45 OZ/A - PRE

NIS = ADEPT

DIGGING DATE: SEPTEMBER 14  
HARVEST DATE: SEPTEMBER 17  
HARVEST MOISTURE: 25.3%  
YIELDS ADJUSTED TO 10%

**SUMMARY:**

1) PEANUT YIELDS WERE NOT REDUCED BY ANY HERBICIDE TREATMENT (P = 0.2189).

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**GA-13M RESPONSE TO HERBICIDES**  
YEAR #1

Trial ID: PE-16-15      Study Dir.: \_\_\_\_\_  
Location: PONDER FARM      Investigator: Eric P. Prostko

**GENERAL TRIAL INFORMATION**

Study Director: \_\_\_\_\_ Title: \_\_\_\_\_  
Affiliation: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Investigator: Eric P. Prostko Title: \_\_\_\_\_  
Affiliation: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Trial Status: \_\_\_\_\_ Initiation Date: \_\_\_\_\_ Country: \_\_\_\_\_  
City: \_\_\_\_\_ State/Prov.: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
Conducted Under GLP (Y/N): N      Conducted Under GEP (Y/N): N

Objective: \_\_\_\_\_  
Conclusions: \_\_\_\_\_

**CROP AND PEST DESCRIPTION**

Weed 1. \_\_\_\_\_ 2. \_\_\_\_\_

Crop 1: ARAHY PEANUT Variety: GA-13M Planting Date: Apr-27-15  
Planting Method: MONOSEM TWIN ROW Rate: 3.1 SEED/FT Depth: 2 IN  
Perennial Age: \_\_\_\_\_ Row Spacing: 36 IN Seed Bed: \_\_\_\_\_  
Soil Temperature: \_\_\_\_\_ Soil Moisture: OPTIMUM Emergence Date: \_\_\_\_\_

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 4  
Site Type: \_\_\_\_\_  
Tillage Type: CONVENTIONAL Study Design: RACOB  
Trial Initiation Comments: THIMET 20G INFR @ 3.5 LBS/A; 36"-9" TWIN ROWS  
DYNASTY PD SEED TRT;

Previous: Crops Pesticides Year  
1. CORN 2014 \_\_\_\_\_

**MAINTENANCE**

Field Prep./Maintenance: \_\_\_\_\_

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

**SOIL DESCRIPTION**

Texture: SAND % OM: 0.53 % Sand: 94 % Silt: 4 % Clay: 2  
pH: 6.3 CEC: 2.6 Soil Name: FUQUAY Fertility Level: GOOD

**MOISTURE CONDITIONS**

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-8-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
2. May-13-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
3. May-18-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
4. Jun-2-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
5.	_____	_____	_____	_____	_____	_____

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

**APPLICATION DESCRIPTION**

	A	B	C	D	E	F
Application Date:	May-11-15	Jun-3-15	_____	_____	_____	_____
Time of Day:	7:30 AM	7:15 AM	_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	_____	_____	_____	_____
Application Timing:	EPOST	POST	_____	_____	_____	_____
Applic. Placement:	FOLIAGE	FOLIAGE	_____	_____	_____	_____
Air Temp., Unit:	77 F	70 F	_____	_____	_____	_____
% Relative Humidity:	70	94	_____	_____	_____	_____
Wind Velocity, Unit:	2 MPH	0 MPH	_____	_____	_____	_____
Dew Presence (Y/N):	Y	Y	_____	_____	_____	_____
Water Hardness:	—	—	_____	_____	_____	_____
Soil Temp., Unit:	76 F	77 F	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	WET	_____	_____	_____	_____
% Cloud Cover:	0	100	_____	_____	_____	_____

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
Crop 1 Stage: ARAHY	_____	TWINS LAP	_____	_____	_____	_____
Stage Scale:	V2	R1	_____	_____	_____	_____
Height, Unit:	2 IN	6 IN	_____	_____	_____	_____

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: _____	_____	_____	_____	_____	_____	_____
	Stage Scale: _____	_____	_____	_____	_____	_____	_____
	Density, Unit: _____	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	_____	_____	_____	_____	_____
Operating Pressure:	32	34	_____	_____	_____	_____	_____
Nozzle Type:	FLAT FAN	FLAT FAN	_____	_____	_____	_____	_____
Nozzle Size:	11002DG	11002DG	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN 20	IN	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN 60	IN	_____	_____	_____	_____
Boom Height, Unit:	20	IN 20	MPH	_____	_____	_____	_____
Ground Speed, Unit:	3.0	MPH 3.0	MPH	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	WATER	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA 15	GPA	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	CO2	_____	_____	_____	_____	_____
Tank Mix (Y/N):	-	-	-	-	-	-	-

Trt No	Treatment Application Comment
_____	_____

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GA-13M RESPONSE TO HERBICIDES YEAR #1							-----	-----
Trial ID: PE-16-15		Study Dir.:					ARAHY	ARAHY
Location: PONDER FARM		Investigator: Eric P. Prostko					PLOT \	PLOT \
Weed Code							YIELD	YIELD
Crop Code							LBS/PLOT	LBS/A
Part Rated							Sep-17-15	Sep-17-15
Rating Data Type							TY1	
Rating Unit							- 2	- 0
Rating Date								
PRM Data Type								
# Subsamples, Dec.								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	
1	NTC						1	26.90 a
2	GRAMOXONE STORM DUAL MAGNUM	2 SL 4 SL 7.62 EC		12.0 oz/a 16.0 oz/a 16.0 oz/a	EPOST A EPOST A EPOST A			6484 a
3	CADRE DUAL MAGNUM	2 AS 7.62 EC		4.0 oz/a 16.0 oz/a	POST B POST B			6155 a
4	GRAMOXONE STORM DUAL MAGNUM CADRE DUAL MAGNUM	2 SL 4 SL 7.62 EC 2 AS 7.62 EC		12.0 oz/a 16.0 oz/a 16.0 oz/a 4.0 oz/a 16.0 oz/a	EPOST A EPOST A EPOST A POST B POST B			6378 a
5	GRAMOXONE STORM WARRANT NIS	2 SL 4 SL 3 SC		12.0 oz/a 16.0 oz/a 48.0 oz/a	EPOST A EPOST A EPOST A			6369 a
				0.25 % v/v	EPOST A			
6	CADRE WARRANT NIS	2 AS 3 SC		4.0 oz/a 48.0 oz/a	POST B POST B			6559 a
				0.25 % v/v	POST B			
7	GRAMOXONE STORM WARRANT NIS CADRE WARRANT NIS	2 SL 4 SL 3 SC 2 AS 3 SC		12.0 oz/a 16.0 oz/a 48.0 oz/a 4.0 oz/a 48.0 oz/a	EPOST A EPOST A EPOST A POST B POST B			6369 a
				0.25 % v/v	POST B			
8	GRAMOXONE STORM ZIDUA NIS	2 SL 4 SL 85 WG		12.0 oz/a 16.0 oz/a 1.5 oz/a	EPOST A EPOST A EPOST A			6164 a
				0.25 % v/v	EPOST A			
9	CADRE ZIDUA NIS	2 AS 85 WG		4.0 oz/a 1.5 oz/a	POST B POST B			6149 a
				0.25 % v/v	POST B			
10	GRAMOXONE STORM ZIDUA NIS CADRE ZIDUA NIS	2 SL 4 SL 85 WG 2 AS 85 WG		12.0 oz/a 16.0 oz/a 1.5 oz/a 4.0 oz/a 1.5 oz/a	EPOST A EPOST A EPOST A POST B POST B			6008 a
				0.25 % v/v	POST B			
LSD P=.10							1.476	355.9
Standard Deviation							1.226	295.5
CV							4.71	4.71
Grand Mean							26.046	6278.0
Bartlett's X2							5.766	5.766
P(Bartlett's X2)							0.763	0.763
Replicate F							8.128	8.128
Replicate Prob(F)							0.0005	0.0005
Treatment F							1.445	1.445
Treatment Prob(F)							0.2189	0.2189
PRM Data Type								
TY1 = 241.032*[1]								

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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GA-13M RESPONSE TO HERBICIDES YEAR #1										
Trial ID: PE-16-15		Study Dir.:								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code		Crop Code		Part Rated		Rating Data Type		Rating Unit		
						LBS/PLOT		LBS/A		
						Sep-17-15		Sep-17-15		
						- 2		- 0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Plot	1	2	
1	NTC							101 206 305 407 Mean =	29.70 27.40 25.75 24.75 26.90	7159 6604 6207 5966 6484
2	GRAMOXONE STORM DUAL MAGNUM	2 SL 4 SL 7.62 EC		12.0 oz/a 16.0 oz/a 16.0 oz/a	EPOST EPOST EPOST	A A A	102 205 302 410 Mean =	28.55 23.30 25.95 24.15 25.49	6881 5616 6255 5821 6143	
3	CADRE DUAL MAGNUM	2 AS 7.62 EC		4.0 oz/a 16.0 oz/a	POST POST	B B	103 209 301 409 Mean =	27.00 25.40 25.65 24.10 25.54	6508 6122 6182 5809 6155	
4	GRAMOXONE STORM DUAL MAGNUM CADRE DUAL MAGNUM	2 SL 4 SL 7.62 EC 2 AS 7.62 EC		12.0 oz/a 16.0 oz/a 16.0 oz/a 4.0 oz/a 16.0 oz/a	EPOST EPOST EPOST POST POST	A A A B B	104 201 304 403 Mean =	28.50 27.70 23.65 26.00 26.46	6869 6677 5700 6267 6378	
5	GRAMOXONE STORM WARRANT NIS	2 SL 4 SL 3 SC		12.0 oz/a 16.0 oz/a 48.0 oz/a 0.25 % v/v	EPOST EPOST EPOST EPOST	A A A A	105 208 307 405 Mean =	27.25 27.35 24.95 26.15 26.43	6568 6592 6014 6303 6369	
6	CADRE WARRANT NIS	2 AS 3 SC		4.0 oz/a 48.0 oz/a 0.25 % v/v	POST POST POST	B B B	106 210 308 401 Mean =	29.00 26.70 27.80 25.35 27.21	6990 6436 6701 6110 6559	
7	GRAMOXONE STORM WARRANT NIS CADRE WARRANT NIS	2 SL 4 SL 3 SC 0.25 % v/v 2 AS 3 SC		12.0 oz/a 16.0 oz/a 48.0 oz/a 0.25 % v/v 4.0 oz/a 48.0 oz/a 0.25 % v/v	EPOST EPOST EPOST EPOST POST POST POST	A A A A B B B	107 202 309 402 Mean =	27.65 25.15 26.85 26.05 26.43	6665 6062 6472 6279 6369	
8	GRAMOXONE STORM ZIDUA NIS	2 SL 4 SL 85 WG		12.0 oz/a 16.0 oz/a 1.5 oz/a 0.25 % v/v	EPOST EPOST EPOST EPOST	A A A A	108 204 306 408 Mean =	27.20 23.75 26.35 25.00 25.58	6556 5725 6351 6026 6164	
9	CADRE ZIDUA NIS	2 AS 85 WG		4.0 oz/a 1.5 oz/a 0.25 % v/v	POST POST POST	B B B	109 207 303 406 Mean =	25.95 27.25 24.10 24.75 25.51	6255 6568 5809 5966 6149	
10	GRAMOXONE STORM ZIDUA NIS CADRE ZIDUA NIS	2 SL 4 SL 85 WG 0.25 % v/v 2 AS 85 WG		12.0 oz/a 16.0 oz/a 1.5 oz/a 0.25 % v/v 4.0 oz/a 1.5 oz/a 0.25 % v/v	EPOST EPOST EPOST EPOST POST POST POST	A A A A B B B	110 203 310 404 Mean =	25.65 24.80 23.90 25.35 24.93	6182 5978 5761 6110 6008	

PRM Data Type  
TY1 = 241.032\*[1]