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GA-12Y RESPONSE TO HERBICIDES

Trial ID: PE-08-14 Study Dir.:
Location: ATTAPULGUS Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
Spray vol: 15 gal/ac Mix size: 1.5 liters (min .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	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 - VALOR @ 3 OZ/A + STRONGARM @ 0.23 OZ/A - PRE

DIGGING DATE: OCTOBER 1
HARVEST DATE: OCTOBER 7
HARVEST MOISTURE: 17.6%
YIELDS ADJUSTED TO 10%
YIELDS REDUCED 2% DUE TO FM

SUMMARY:

1) PEANUT YIELDS WERE REDUCED BY THE FOLLOWING TREATMENTS:

GRAMOXONE + STORM + DUAL MAGNUM = 9.1%
GRAMOXONE + STORM + DUAL MAGNUM FB CADRE + DUAL MAGNUM = 6.3%
GRAMOXONE + STORM + WARRANT FB CADRE + WARRANT = 10.7%
GRAMOXONE + STORM + ZIDUA = 11.1%
GRAMOXONE + STORM + ZIDUA FB CADRE + ZIDUA = 7.6%

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GA-12Y RESPONSE TO HERBICIDES

Trial ID: PE-08-14 Study Dir.:
Location: ATTAPULGUS 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-12Y **Planting Date:** May-14-14
Planting Method: MONOSEM **Rate:** 6 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:** RACOBL
Trial Initiation Comments: THIMET 20G INFR @ 5 LBS/A
_____

Previous:	Crops	Pesticides	Year
1.	COTTON	2013	____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: LOAMY SAND **% OM:** 1.02 **% Sand:** 84 **% Silt:** 8 **% Clay:** 8
pH: 6 **CEC:** ____ **Soil Name:** LUCY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	_____	_____	_____	__	_____	_____	___

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** __

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	May-28-14	Jun-17-14	_____	_____	_____	_____
Time of Day:	7:45AM	8:30AM	_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	_____	_____	_____	_____
Application Timing:	EPOST	POST	_____	_____	_____	_____
Applic. Placement:	FOLIAGE	FOLIAGE	_____	_____	_____	_____
Air Temp., Unit:	78 F	77 F	____ _	____ _	____ _	____ _
% Relative Humidity:	94	92	_____	_____	_____	_____
Wind Velocity, Unit:	1 MPH	1 MPH	____ ____	____ ____	____ ____	____ ____
Dew Presence (Y/N):	Y	Y	_	_	_	_
Water Hardness:	--	--	_____	_____	_____	_____
Soil Temp., Unit:	78 F	80 F	____ _	____ _	____ _	____ _
Soil Moisture:	OPTIMUM	OPTIMUM	_____	_____	_____	_____
% Cloud Cover:	100	20	_____	_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:	ARAHY _____	9-12"W	_____	_____	_____	_____
Stage Scale:	V4(4-5"W)	R1	_____	_____	_____	_____
Height, Unit:	3 IN	5 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:	40		40					
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:		MPH	3.5	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-12Y RESPONSE TO HERBICIDES

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3
	Weed Code							-----	-----	-----
	Crop Code							ARAHY	ARAHY	ARAHY
	Part Rated							PLOT -	PLOT -	PLOT -
	Rating Data Type							YIELD	YIELD	YIELD
	Rating Unit							LBS	LBS	LBS/A
	Rating Date							Oct-7-14	Oct-7-14	Oct-7-14
	PRM Data Type								T1	TY2
	# Subsamples, Dec.							- 2	- 2	- 0
1	NTC							30.45 a	29.84 a	7934 a
2	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	27.69 d	27.13 d	7214 d
	STORM	4	SL	16.0	oz/a	EPOST	A			
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	A			
3	CADRE	2	AS	4.0	oz/a	POST	B	30.30 ab	29.69 ab	7895 ab
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B			
4	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	28.54 bcd	27.97 bcd	7436 bcd
	STORM	4	SL	16.0	oz/a	EPOST	A			
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	A			
	CADRE	2	AS	4.0	oz/a	POST	B			
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B			
5	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	28.70 a-d	28.13 a-d	7478 a-d
	STORM	4	SL	16.0	oz/a	EPOST	A			
	WARRANT	3	SC	48.0	oz/a	EPOST	A			
	NIS			0.25	% v/v	EPOST	A			
6	CADRE	2	AS	4.0	oz/a	POST	B	29.55 abc	28.96 abc	7700 abc
	WARRANT	3	SC	48.0	oz/a	POST	B			
	NIS			0.25	% v/v	POST	B			
7	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	27.20 d	26.66 d	7087 d
	STORM	4	SL	16.0	oz/a	EPOST	A			
	WARRANT	3	SC	48.0	oz/a	EPOST	A			
	NIS			0.25	% v/v	EPOST	A			
	CADRE	2	AS	4.0	oz/a	POST	B			
	WARRANT	3	SC	48.0	oz/a	POST	B			
	NIS			0.25	% v/v	POST	B			
8	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	27.06 d	26.52 d	7051 d
	STORM	4	SL	16.0	oz/a	EPOST	A			
	ZIDUA	85	WG	1.5	oz/a	EPOST	A			
	NIS			0.25	% v/v	EPOST	A			
9	CADRE	2	AS	4.0	oz/a	POST	B	30.11 ab	29.51 ab	7846 ab
	ZIDUA	85	WG	1.5	oz/a	POST	B			
	NIS			0.25	% v/v	POST	B			
10	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	28.13 cd	27.56 cd	7328 cd
	STORM	4	SL	16.0	oz/a	EPOST	A			
	ZIDUA	85	WG	1.5	oz/a	EPOST	A			
	NIS			0.25	% v/v	EPOST	A			
	CADRE	2	AS	4.0	oz/a	POST	B			
	ZIDUA	85	WG	1.5	oz/a	POST	B			
	NIS			0.25	% v/v	POST	B			
	LSD (P=.10)							1.811	1.774	471.8
	Standard Deviation							1.504	1.474	391.8
	CV							5.23	5.23	5.23
	Grand Mean							28.77	28.2	7496.96
	Bartlett's X2							12.978	12.978	12.978
	P(Bartlett's X2)							0.164	0.164	0.164
	Replicate F							5.264	5.264	5.264
	Replicate Prob(F)							0.0055	0.0055	0.0055
	Treatment F							2.870	2.870	2.870
	Treatment Prob(F)							0.0163	0.0163	0.0163

PRM Data Type
T1 = [C1]*0.98
TY2 = 265.8773*[2]

Means followed by same letter 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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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- ARAHY PLOT - YIELD LBS Oct-7-14 - 2	----- ARAHY PLOT - YIELD LBS Oct-7-14 T1 - 2	----- ARAHY PLOT - YIELD LBS/A Oct-7-14 TY2 - 0
									1	2	3
1	NTC							101	31.35	30.72	8169
								206	32.60	31.95	8494
								305	30.35	29.74	7908
								407	27.50	26.95	7165
								Mean =	30.45	29.84	7934
2	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	102	29.95	29.35	7804
	STORM	4	SL	16.0	oz/a	EPOST	A	205	29.60	29.01	7713
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	A	302	27.80	27.24	7244
								410	23.40	22.93	6097
								Mean =	27.69	27.13	7214
3	CADRE	2	AS	4.0	oz/a	POST	B	103	31.00	30.38	8077
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B	209	32.35	31.70	8429
								301	30.20	29.60	7869
								409	27.65	27.10	7204
								Mean =	30.30	29.69	7895
4	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	104	29.60	29.01	7713
	STORM	4	SL	16.0	oz/a	EPOST	A	201	29.40	28.81	7660
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST	A	304	28.15	27.59	7335
	CADRE	2	AS	4.0	oz/a	POST	B	403	27.00	26.46	7035
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B				
								Mean =	28.54	27.97	7436
5	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	105	29.15	28.57	7595
	STORM	4	SL	16.0	oz/a	EPOST	A	208	28.45	27.88	7413
	WARRANT	3	SC	48.0	oz/a	EPOST	A	307	28.00	27.44	7296
	NIS			0.25	% v/v	EPOST	A	405	29.20	28.62	7608
								Mean =	28.70	28.13	7478
6	CADRE	2	AS	4.0	oz/a	POST	B	106	29.95	29.35	7804
	WARRANT	3	SC	48.0	oz/a	POST	B	210	30.15	29.55	7856
	NIS			0.25	% v/v	POST	B	308	28.40	27.83	7400
								401	29.70	29.11	7739
								Mean =	29.55	28.96	7700
7	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	107	26.05	25.53	6788
	STORM	4	SL	16.0	oz/a	EPOST	A	202	26.70	26.17	6957
	WARRANT	3	SC	48.0	oz/a	EPOST	A	309	28.25	27.69	7361
	NIS			0.25	% v/v	EPOST	A	402	27.80	27.24	7244
	CADRE	2	AS	4.0	oz/a	POST	B				
	WARRANT	3	SC	48.0	oz/a	POST	B				
	NIS			0.25	% v/v	POST	B				
								Mean =	27.20	26.66	7087
8	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	108	26.10	25.58	6801
	STORM	4	SL	16.0	oz/a	EPOST	A	204	29.35	28.76	7647
	ZIDUA	85	WG	1.5	oz/a	EPOST	A	306	29.15	28.57	7595
	NIS			0.25	% v/v	EPOST	A	408	23.65	23.18	6162
								Mean =	27.06	26.52	7051
9	CADRE	2	AS	4.0	oz/a	POST	B	109	32.10	31.46	8364
	ZIDUA	85	WG	1.5	oz/a	POST	B	207	30.60	29.99	7973
	NIS			0.25	% v/v	POST	B	303	28.10	27.54	7322
								406	29.65	29.06	7726
								Mean =	30.11	29.51	7846
10	GRAMOXONE	2	SL	12.0	oz/a	EPOST	A	110	29.05	28.47	7569
	STORM	4	SL	16.0	oz/a	EPOST	A	203	27.65	27.10	7204
	ZIDUA	85	WG	1.5	oz/a	EPOST	A	310	28.80	28.22	7504
	NIS			0.25	% v/v	EPOST	A	404	27.00	26.46	7035
	CADRE	2	AS	4.0	oz/a	POST	B				
	ZIDUA	85	WG	1.5	oz/a	POST	B				
	NIS			0.25	% v/v	POST	B				
								Mean =	28.13	27.56	7328

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PRM Data Type
T1 = [C1]*0.98
TY2 = 265.8773*[2]