

# University of Georgia

FUNGICIDE TANK-MIXES WITH ANTHEM FLEXX WEED-FREE	
Trial ID: PE-03-15	Study Dir.: SAM WILSON AND CRAIG HEIM
Location: ATTAPULGUS	Investigator: Eric P. Prostko

Reps: 4                      Plots: 6 by 20 feet  
 Spray vol: 15 GAL/AC                      Mix Size: 1.5 liters (calculated mix size .62569)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Rep			
									1	2	3	4
1	NTC								101	207	301	402
2	F-9312	4 L		3.75 oz/a		POST	A	2.929 ml/mx	102	209	305	406
3	F-9312 TILT/BRAVO	4 L 4.3 L		3.75 oz/a 32.0 oz/a		POST	A A	2.929 ml/mx 25.0 ml/mx	103	202	308	409
4	F-9312 ABOUND	4 L 2.08 F		3.75 oz/a 20.0 oz/a		POST	A A	2.929 ml/mx 15.62 ml/mx	104	203	304	407
5	F-9312 FONTELIS	4 L 1.67 SC		3.75 oz/a 18.0 oz/a		POST	A A	2.929 ml/mx 14.06 ml/mx	105	206	309	403
6	F-9312 PROVOST	4 L 3.6 SC		3.75 oz/a 10.0 oz/a		POST	A A	2.929 ml/mx 7.812 ml/mx	106	208	306	405
7	F-9312 PRIAXOR	4 L 4.18 SC		3.75 oz/a 8.0 oz/a		POST	A A	2.929 ml/mx 6.249 ml/mx	107	201	307	401
8	F-9312 ARTISAN	4 L 3.6 SC		3.75 oz/a 32.0 oz/a		POST	A A	2.929 ml/mx 25.0 ml/mx	108	205	302	404
9	F-9312 ELAST	4 L 3.4 L		3.75 oz/a 16.0 oz/a		POST	A A	2.929 ml/mx 12.5 ml/mx	109	204	303	408

Sort Order: Treatment

Trial Comments
<p>MAINTAINED WEED-FREE</p> <p>PROWL H20 @ 32 OZ/A + VALOR @ 3 OZ/A + STRONGARM @ 0.23 OZ/A</p> <p>DD: SEPTEMBER 22            HD: OCTOBER 1            HM: 14.2%            YIELD ADJUSTED TO 10% MOISTURE</p> <p><b><u>SUMMARY:</u></b></p> <p>1) PEANUT LEAF BURN , COMPARED TO F9312 ALONE, WAS INCREASED WHEN THE FOLLOWING FUNGICIDES WERE TANK-MIXED WITH F9312:</p> <p>A) TILT/BRAVO (+7.5%)            B) FONTELIS (+11.2%)            C) ARTISAN (+6.2%)            D) ELAST (+11.2%)</p> <p>2) PEANUT YIELDS WERE NOT REDUCED BY ANY HERBICIDE/FUNGICIDE COMBINATION (P = 0.1373).</p>

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**GENERAL TRIAL INFORMATION**

**Study Director:** SAM WILSON AND CRAIG HEIM      **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-06G      **Planting Date:** Jun-4-15  
**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:** 20 FT      **Reps:** 4  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** CONVENTIONAL      **Study Design:** RACOBL  
**Trial Initiation Comments:** THIMET INFR

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

**MAINTENANCE**

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

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

**SOIL DESCRIPTION**

**Texture:** LOAMY SAND      **% OM:** 1.59      **% Sand:** 84      **% Silt:** 6      **% Clay:** 10  
**pH:** 6.0      **CEC:** \_\_\_\_\_      **Soil Name:** ORANGEBURG      **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
<b>Application Date:</b>	Jun-5-15	_____	_____	_____	_____	_____
<b>Time of Day:</b>	7:30 AM	_____	_____	_____	_____	_____
<b>Application Method:</b>	BROADCAST	_____	_____	_____	_____	_____
<b>Application Timing:</b>	POST	_____	_____	_____	_____	_____
<b>Applic. Placement:</b>	FOLIAGE	_____	_____	_____	_____	_____
<b>Air Temp., Unit:</b>	87 F	_____	_____	_____	_____	_____
<b>% Relative Humidity:</b>	61	_____	_____	_____	_____	_____
<b>Wind Velocity, Unit:</b>	0 MPH	_____	_____	_____	_____	_____
<b>Dew Presence (Y/N):</b>	Y	_____	_____	_____	_____	_____
<b>Water Hardness:</b>	--	_____	_____	_____	_____	_____
<b>Soil Temp., Unit:</b>	80 F	_____	_____	_____	_____	_____
<b>Soil Moisture:</b>	OPTIMUM	_____	_____	_____	_____	_____
<b>% Cloud Cover:</b>	10	_____	_____	_____	_____	_____

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
<b>Crop 1 Stage:</b>	ARAHY	_____	_____	_____	_____	_____
<b>Stage Scale:</b>	R1 - 8" W	_____	_____	_____	_____	_____
<b>Height, Unit:</b>	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	_____	_____	_____	_____	_____	_____
Operating Pressure:	33	_____	_____	_____	_____	_____	_____
Nozzle Type:	FLAT FAN	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002DG	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.0	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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Weed Code	-----		-----		-----		-----				
Crop Code	ARAHY	ARAHY	ARAHY	ARAHY							
Part Rated	LEAF -	PLANT -	PLOT -	PLOT -							
Rating Data Type	BURN	STUNTING	YIELD	YIELD							
Rating Unit	PERCENT	PERCENT	LBS/PLOT	LBS/A							
Rating Date	Jun-9-15	Jun-24-15	Oct-1-15	Oct-1-15							
Trt-Eval Interval	4 DA-A	19 DA-A	118 DA-A	118 DA-A							
PRM Data Type				TY1							
# Subsamples, Dec.			- 2	- 0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	1	2	3	4
1	NTC							0.0 e	0.0 c	19.85 a	6869 a
2	F-9312	4 L		3.75 oz/a	POST	A		28.8 cd	2.5 c	19.80 a	6852 a
3	F-9312	4 L		3.75 oz/a	POST	A		36.3 ab	7.5 b	19.66 a	6804 a
	TILT/BRAVO	4.3 L		32.0 oz/a	POST	A					
4	F-9312	4 L		3.75 oz/a	POST	A		26.3 d	2.5 c	20.45 a	7077 a
	ABOUND	2.08 F		20.0 oz/a	POST	A					
5	F-9312	4 L		3.75 oz/a	POST	A		40.0 a	11.3 a	19.23 a	6653 a
	FONTELIS	1.67 SC		18.0 oz/a	POST	A					
6	F-9312	4 L		3.75 oz/a	POST	A		32.5 bc	2.5 c	18.24 a	6311 a
	PROVOST	3.6 SC		10.0 oz/a	POST	A					
7	F-9312	4 L		3.75 oz/a	POST	A		30.0 cd	0.0 c	22.30 a	7717 a
	PRIAXOR	4.18 SC		8.0 oz/a	POST	A					
8	F-9312	4 L		3.75 oz/a	POST	A		35.0 b	2.5 c	20.24 a	7003 a
	ARTISAN	3.6 SC		32.0 oz/a	POST	A					
9	F-9312	4 L		3.75 oz/a	POST	A		40.0 a	3.8 c	20.15 a	6973 a
	ELAST	3.4 L		16.0 oz/a	POST	A					
LSD P=.10								3.74	3.43	1.987	687.6
Standard Deviation								3.09	2.84	1.643	568.4
CV								10.35	78.54	8.22	8.22
Grand Mean								29.86	3.61	19.990	6917.8
Bartlett's X2								3.965	3.953	6.472	6.472
P(Bartlett's X2)								0.411	0.683	0.594	0.594
Replicate F								0.073	7.022	5.564	5.564
Replicate Prob(F)								0.9740	0.0015	0.0048	0.0048
Treatment F								62.091	6.496	1.752	1.752
Treatment Prob(F)								0.0001	0.0002	0.1373	0.1373

**Part Rated**  
 LEAF = LEAF / FOLIAGE  
 PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)  
 PRM Data Type  
 TY1 = 346.06\*[3]

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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				----- ARAHY LEAF - BURN PERCENT Jun-9-15 4 DA-A	----- ARAHY PLANT - STUNTING PERCENT Jun-24-15 19 DA-A	----- ARAHY PLOT - YIELD LBS/PLOT Oct-1-15 118 DA-A	----- ARAHY PLOT - YIELD LBS/A Oct-1-15 118 DA-A TY1 - 0				
Trt	Treatment	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code				
							Plot				
							1				
							2				
							3				
							4				
1	NTC						101	0.0	0.0	18.80	6506
							207	0.0	0.0	18.90	6541
							301	0.0	0.0	23.00	7959
							402	0.0	0.0	18.70	6471
							Mean =	0.0	0.0	19.85	6869
2	F-9312	4 L	3.75 oz/a	POST	A		102	20.0	0.0	21.45	7423
							209	30.0	5.0	17.85	6177
							305	35.0	0.0	21.20	7336
							406	30.0	5.0	18.70	6471
							Mean =	28.8	2.5	19.80	6852
3	F-9312	4 L	3.75 oz/a	POST	A		103	40.0	5.0	19.50	6748
	TILT/BRAVO	4.3 L	32.0 oz/a	POST	A		202	35.0	5.0	19.85	6869
							308	35.0	10.0	21.40	7406
							409	35.0	10.0	17.90	6194
							Mean =	36.3	7.5	19.66	6804
4	F-9312	4 L	3.75 oz/a	POST	A		104	30.0	0.0	20.45	7077
	ABOUND	2.08 F	20.0 oz/a	POST	A		203	25.0	0.0	20.00	6921
							304	25.0	0.0	22.10	7648
							407	25.0	10.0	19.25	6662
							Mean =	26.3	2.5	20.45	7077
5	F-9312	4 L	3.75 oz/a	POST	A		105	40.0	10.0	15.75	5450
	FONTELIS	1.67 SC	18.0 oz/a	POST	A		206	40.0	5.0	20.45	7077
							309	40.0	10.0	21.90	7579
							403	40.0	20.0	18.80	6506
							Mean =	40.0	11.3	19.23	6653
6	F-9312	4 L	3.75 oz/a	POST	A		106	30.0	5.0	13.40	4637
	PROVOST	3.6 SC	10.0 oz/a	POST	A		208	35.0	0.0	19.15	6627
							306	30.0	0.0	20.35	7042
							405	35.0	5.0	20.05	6939
							Mean =	32.5	2.5	18.24	6311
7	F-9312	4 L	3.75 oz/a	POST	A		107	35.0	0.0	20.70	7163
	PRIAXOR	4.18 SC	8.0 oz/a	POST	A		201	30.0	0.0	23.80	8236
							307	30.0	0.0	22.30	7717
							401	25.0	0.0	22.40	7752
							Mean =	30.0	0.0	22.30	7717
8	F-9312	4 L	3.75 oz/a	POST	A		108	35.0	0.0	19.40	6714
	ARTISAN	3.6 SC	32.0 oz/a	POST	A		205	35.0	0.0	21.05	7285
							302	35.0	5.0	21.20	7336
							404	35.0	5.0	19.30	6679
							Mean =	35.0	2.5	20.24	7003
9	F-9312	4 L	3.75 oz/a	POST	A		109	40.0	0.0	19.70	6817
	ELAST	3.4 L	16.0 oz/a	POST	A		204	40.0	0.0	22.45	7769
							303	40.0	5.0	21.25	7354
							408	40.0	10.0	17.20	5952
							Mean =	40.0	3.8	20.15	6973

Part Rated  
 LEAF = LEAF / FOLIAGE  
 PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)  
 PRM Data Type  
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