

# University of Georgia

CADRE/LUCENTO TANK-MIXTURES FOR PEANUTS

Trial ID: PE-18-19      Study Dir.: EDDIE BEASLEY  
 Location: PONDER FARM      Investigator: Eric P. Prostko

Reps: 4      Plots: 6 by 25 feet  
 Appl. Amount: 15 GAL/AC      Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Diluent	Rep			
										1	2	3	4
1	CADRE	2	AS	4.0	oz/a	POST	A	3.125 mL/mx	1471.9 mL	101	202	301	402
	2,4-DB	1.75	SL	16.0	oz/a	POST	A	12.5 mL/mx					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	A	12.5 mL/mx					
2	CADRE	2	AS	4.0	oz/a	POST	A	3.125 mL/mx	1467.6 mL	102	201	302	401
	2,4-DB	1.75	SL	16.0	oz/a	POST	A	12.5 mL/mx					
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	A	12.5 mL/mx					
	LUCENTO	4.17	SC	5.5	oz/a	POST	A	4.296 mL/mx					

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

DIGGING DATE: SEPTEMBER 19  
 HARVEST DATE: SEPTEMBER 25  
 HARVEST MOISTURE: 6.6%  
 YIELDS ADJUSTED TO 10%  
 2% YIELD DEDUCTION FOR FM (ROCKS, STEMS, LEAVES, ETC.)

**SUMMARY:**

1) LUCENTO TANK-MIXED WITH CADRE + 2,4-DB + DUAL MAGNUM DID NOT INCREASE PEANUT LEAF INJURY.  
 2) PEANUT YIELDS WERE NOT SIGNIFICANTLY DIFFERENT (P=0.9564, CV = 2.33).

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**GENERAL TRIAL INFORMATION**

**Study Director:** EDDIE BEASLEY      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_      **Postal Code:** \_\_\_\_\_

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

**Trial Status:** E      **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:** May-1-19  
**Planting Method:** MONOSEM TWIN ROW      **Rate:** 3.5      **SEED/FT**      **Depth:** 2      **IN**  
**Perennial Age:** \_\_\_\_\_      **Row Spacing:** \_\_\_\_\_      **Seed Bed:** \_\_\_\_\_  
**Soil Temperature:** \_\_\_\_\_      **Soil Moisture:** \_\_\_\_\_      **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 INFR @ 6.6 lbs/a; RANCONA VPD SEED TRT; 300 lbs/a 5-10-15 pplnt;36"-9" TWIN ROWS

<b>Previous: Crops</b>	<b>Pesticides</b>	<b>Year</b>
1. FIELD CORN	2018	_____

**MAINTENANCE**

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

	<b>Form</b>	<b>Form</b>	<b>Form</b>	<b>Rate</b>	
<b>No.</b>	<b>Date</b>	<b>Treatment Name</b>	<b>Conc</b>	<b>Unit</b>	<b>Rate</b> <b>Unit</b>
1.	_____	_____	_____	_____	_____

**SOIL DESCRIPTION**

**Texture:** \_\_\_\_\_      **% OM:** \_\_\_\_\_      **% Sand:** \_\_\_\_\_      **% Silt:** \_\_\_\_\_      **% Clay:** \_\_\_\_\_  
**pH:** \_\_\_\_\_      **CEC:** \_\_\_\_\_      **Soil Name:** \_\_\_\_\_      **Fertility Level:** \_\_\_\_\_

**MOISTURE CONDITIONS**

<b>On: Date</b>	<b>Time</b>	<b>Amount</b>	<b>Unit</b>	<b>Type</b>	<b>Interval</b>	<b>Unit</b>
1.	_____	_____	_____	_____	_____	_____

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

**APPLICATION DESCRIPTION**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
<b>Application Date:</b>	Jun-14-19	_____	_____	_____	_____	_____
<b>Time of Day:</b>	7:00 AM	_____	_____	_____	_____	_____
<b>Application Method:</b>	BROADCAST	_____	_____	_____	_____	_____
<b>Application Timing:</b>	POST	_____	_____	_____	_____	_____
<b>Applic. Placement:</b>	FOLIAGE	_____	_____	_____	_____	_____
<b>Air Temp., Unit:</b>	62      F	_____	_____	_____	_____	_____
<b>% Relative Humidity:</b>	90	_____	_____	_____	_____	_____
<b>Wind Velocity, Unit:</b>	0      MPH	_____	_____	_____	_____	_____
<b>Dew Presence (Y/N):</b>	Y	_____	_____	_____	_____	_____
<b>Water Hardness:</b>	_____	_____	_____	_____	_____	_____
<b>Soil Temp., Unit:</b>	72      F	_____	_____	_____	_____	_____
<b>Soil Moisture:</b>	OPTIMUM	_____	_____	_____	_____	_____
<b>% Cloud Cover:</b>	20	_____	_____	_____	_____	_____

**CROP STAGE AT EACH APPLICATION**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
<b>Crop 1</b>	Stage: ARAHY	_____	_____	_____	_____	_____
<b>Stage Scale:</b>	7"; R2	_____	_____	_____	_____	_____
<b>Height, Unit:</b>	_____	_____	_____	_____	_____	_____

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**WEED STAGE AT EACH APPLICATION**

		A	B	C	D	E	F
<b>Weed 1</b>	<b>Stage:</b>	_____	_____	_____	_____	_____	_____
	<b>Stage Scale:</b>	_____	_____	_____	_____	_____	_____
	<b>Density, Unit:</b>	_____	_____	_____	_____	_____	_____

**APPLICATION EQUIPMENT**

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

Trt No	Treatment Application Comment
_____	_____

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	----- Arahy Leaf - Burn Percent Jun-17-19 3 DA-A	----- Arahy Leaf - Burn Percent Jun-21-19 7 DA-A	----- ARAHY DIRTY - YIELD LBS/PLOT Sep-25-19 103 DA-A	----- ARAHY CLEAN - YIELD LBS/PLOT Sep-25-19 103 DA-A T1	----- ARAHY CLEAN - YIELD LBS/A Sep-25-19 103 DA-A TY2 - 0
Weed Code					
Crop Code					
Part Rated					
Rating Data Type					
Rating Unit					
Rating Date					
Trt-Eval Interval					
PRM Data Type					
# Subsamples, Dec.			- 1	- 1	- 0
Trt Treatment					
No. Name	1	2	3	4	5
Form Form					
Rate Rate					
Unit Unit					
Stg Stg					
Code Code					
1 CADRE	2 AS	4.0 oz/a	POST A		
2,4-DB	1.75 SL	16.0 oz/a	POST A		
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST A		
2 CADRE	2 AS	4.0 oz/a	POST A		
2,4-DB	1.75 SL	16.0 oz/a	POST A		
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST A		
LUCENTO	4.17 SC	5.5 oz/a	POST A		
LSD P=.10	.	.	0.99	0.97	292.7
Standard Deviation	0.00	0.00	0.60	0.58	175.9
CV	0.0	0.0	2.33	2.33	2.33
Grand Mean	0.00	0.00	25.56	25.05	7549.7
Bartlett's X2	0.00	0.00	0.116	0.116	0.116
P(Bartlett's X2)	.	.	0.733	0.733	0.733

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.  
 Could not calculate LSD (% mean diff) for columns 1,2 because error mean square = 0.

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Randomized Complete Block (RCB) AOV For ----- Arahy Leaf Burn Percent Jun-17-19 3 DA-A (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	1	0.000000000000	0.000000000000	0.000	1.0000	
Error	3	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For ----- Arahy Leaf Burn Percent Jun-21-19 7 DA-A (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	1	0.000000000000	0.000000000000	0.000	1.0000	
Error	3	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For ----- ARAHY DIRTY YIELD LBS/PLOT Sep-25-19 103 DA-A 1 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	11.458750				
Replicate	3	10.393750	3.464583	9.771	0.0467	
Treatment	1	0.001250	0.001250	0.004	0.9564	
Error	3	1.063750	0.354583			
Randomized Complete Block (RCB) AOV For ----- ARAHY CLEAN YIELD LBS/PLOT Sep-25-19 103 DA-A T1 1 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	11.004984				
Replicate	3	9.982158	3.327386	9.771	0.0467	
Treatment	1	0.001201	0.001201	0.004	0.9564	
Error	3	1.021625	0.340542			
Randomized Complete Block (RCB) AOV For ----- ARAHY CLEAN YIELD LBS/A Sep-25-19 103 DA-A TY2 0 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	999519.909897				
Replicate	3	906622.455633	302207.485211	9.771	0.0467	
Treatment	1	109.034571	109.034571	0.004	0.9564	
Error	3	92788.419693	30929.473231			
Part Rated						
Leaf = LEAF / FOLIAGE						
PRM Data Type						
T1 = [3]*0.98						
TY2 = 301.3707*[4]						

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Weed Code	-----	-----	-----	-----	-----
Crop Code	Arahy	Arahy	ARAHY	ARAHY	ARAHY
Part Rated	Leaf -	Leaf -	DIRTY -	CLEAN -	CLEAN -
Rating Data Type	Burn	Burn	YIELD	YIELD	YIELD
Rating Unit	Percent	Percent	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Jun-17-19	Jun-21-19	Sep-25-19	Sep-25-19	Sep-25-19
Trt-Eval Interval	3 DA-A	7 DA-A	103 DA-A	103 DA-A	103 DA-A
PRM Data Type				T1	TY2
# Subsamples, Dec.			- 1	- 1	- 0
Trt Treatment	Form Form	Rate Grow	Appl		
No. Name	Conc Type	Rate Unit	Stg Code Plot	1	2
1 CADRE	2 AS	4.0 oz/a	POST A	101	0.0
2,4-DB	1.75 SL	16.0 oz/a	POST A	202	0.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST A	301	0.0
				402	0.0
				Mean =	0.0
2 CADRE	2 AS	4.0 oz/a	POST A	102	0.0
2,4-DB	1.75 SL	16.0 oz/a	POST A	201	0.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST A	302	0.0
LUCENTO	4.17 SC	5.5 oz/a	POST A	401	0.0
				Mean =	0.0

**Part Rated**  
 Leaf = LEAF / FOLIAGE  
 PRM Data Type  
 T1 = [3]\*0.98  
 TY2 = 301.3707\*[4]