

University of Georgia

ULTRA BLAZER/LUCENTO TANK-MIXTURES FOR PEANUTS

Trial ID: PE-19-19 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	ULTRA BLAZER	2	SL	24.0	oz/a	POST	A	18.75 mL/mx	1456.3 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	ULTRA BLAZER	2	SL	24.0	oz/a	POST	A	18.75 mL/mx	1452.0 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

WEED-FREE

DIGGING DATE: SEPTEMBER 18

HARVEST DATE: SEPTEMBER 23

HARVEST MOISTURE: 8.5%

YIELDS ADJUSTED TO 10%

2% YIELD DEDUCTION FOR FM (I.E. ROCKS, STEMS, LEAVES, ETC.)

SUMMARY:

1) AT 3 DAT, PEANUT LEAF NECROSIS WAS INCREASED BY 5% WHEN LUCENTO WAS ADDED TO ULTRA BLAZER + 2,4-DB + DUAL MAGNUM. AT 7 DAT, THERE WAS NO DIFFERENCE IN LEAF NECROSIS.

2) PEANUT YIELDS WERE NOT SIGNIFICANTLY DIFFERENT (P=0.597, CV = 10.24).

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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:	38	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	_____	_____	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5	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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Trial ID: PE-19-19		Study Dir.: EDDIE BEASLEY											
Location: PONDER FARM		Investigator: Eric P. Prostko											
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	Arahy Leaf - Burn Percent	Arahy Leaf - Burn Percent	----- ARAHY PLOT - YIELD LBS/PLOT	----- ARAHY PLOT - YIELD LBS/PLOT	----- ARAHY PLOT - YIELD LBS/A
									Jun-17-19	Jun-21-19	Sep-23-19	Sep-23-19	Sep-23-19
									3 DA-A	7 DA-A	101 DA-A	101 DA-A	101 DA-A
											- 1	- 1	- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code						
									1	2	3	4	5
1	ULTRA BLAZER	2 SL		24.0 oz/a	POST	A			10.0 b	21.3 -	23.5 -	23.0 -	6799 -
	2,4-DB	1.75 SL		16.0 oz/a	POST	A							
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	A							
2	ULTRA BLAZER	2 SL		24.0 oz/a	POST	A			15.0 a	21.3 -	24.5 -	24.0 -	7096 -
	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									.	.	4.09	4.01	1184.1
Standard Deviation									0.00	0.00	2.46	2.41	711.5
CV									0.0	0.0	10.24	10.24	10.24
Grand Mean									12.50	21.25	24.01	23.53	6947.7
Bartlett's X2									0.00	0.00	1.598	1.598	1.598
P(Bartlett's X2)									.	.	0.206	0.206	0.206

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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Trial ID:	PE-19-19	Study Dir.:	EDDIE BEASLEY			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
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	50.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	1	50.000000	50.000000	0.000	1.0000	
Error	3	0.000000	0.000000			
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	37.500000				
Replicate	3	37.500000	12.500000	0.000	1.0000	
Treatment	1	0.000000	0.000000	0.000	1.0000	
Error	3	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-23-19 101 DA-A 1 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	93.528750				
Replicate	3	73.283750	24.427917	4.039	0.1408	
Treatment	1	2.101250	2.101250	0.347	0.5970	
Error	3	18.143750	6.047917			
Randomized Complete Block (RCB) AOV For ----- ARAHY PLOT YIELD LBS/PLOT Sep-23-19 101 DA-A T1 1 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	89.825011				
Replicate	3	70.381713	23.460571	4.039	0.1408	
Treatment	1	2.018041	2.018041	0.347	0.5970	
Error	3	17.425257	5.808419			
Randomized Complete Block (RCB) AOV For ----- ARAHY PLOT YIELD LBS/A Sep-23-19 101 DA-A TY2 0 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	7	7829746.021337				
Replicate	3	6134938.721956	2044979.573985	4.039	0.1408	
Treatment	1	175905.845286	175905.845286	0.347	0.5970	
Error	3	1518901.454094	506300.484698			
Part Rated						
Leaf = LEAF / FOLIAGE						
PRM Data Type						
T1 = [3]*0.98						
TY2 = 295.24*[4]						

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

Weed Code	Arahy	Arahy	-----	-----	-----
Crop Code	Leaf -	Leaf -	ARAHY	ARAHY	ARAHY
Part Rated	Leaf -	Leaf -	PLOT -	PLOT -	PLOT -
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-23-19	Sep-23-19	Sep-23-19
Trt-Eval Interval	3 DA-A	7 DA-A	101 DA-A	101 DA-A	101 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 ULTRA BLAZER	2 SL	24.0 oz/a	POST	A	101
2,4-DB	1.75 SL	16.0 oz/a	POST	A	202
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	A	301
					402
					Mean =
					10.0
					20.0
					25.2
					24.7
					7291
					10.0
					20.0
					26.3
					25.8
					7610
					10.0
					20.0
					26.5
					26.0
					7667
					10.0
					25.0
					16.0
					15.7
					4629
					Mean =
					10.0
					21.3
					23.5
					23.0
					6799
2 ULTRA BLAZER	2 SL	24.0 oz/a	POST	A	102
2,4-DB	1.75 SL	16.0 oz/a	POST	A	201
DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	A	302
LUCENTO	4.17 SC	5.5 oz/a	POST	A	401
					Mean =
					15.0
					20.0
					24.9
					24.4
					7204
					15.0
					20.0
					27.3
					26.8
					7899
					15.0
					20.0
					24.1
					23.6
					6973
					15.0
					25.0
					21.8
					21.4
					6308
					Mean =
					15.0
					21.3
					24.5
					24.0
					7096

Part Rated
 Leaf = LEAF / FOLIAGE
 PRM Data Type
 T1 = [3]*0.98
 TY2 = 295.24*[4]