

University of Georgia

AUXIN NOZZLES VS FLAT FAN NOZZLES FOR

PEANUT PEST MANAGEMENT - III

Trial ID: NZ-03-18 Study Dir.: CODY POWELL/KIM + AUSTIN HENLEY
Location: MILLER COUNTY Investigator: Eric P. Prostko

Reps: 3 Plots: 110 by 1000 feet
Spray vol: 15 GAL/AC Mix Size: 3 L (total for 3 plots; minimum=430.2 L)

Trt No.	Treatment Name	Amt Product to Measure	Rep 1	Rep 2	Rep 3
1	XRC-11005VP		101	201	301
2	TTI60-11005VP		102	202	302

Sort Order: Treatment

Trial Comments

KIM HENLEY FARM
MILLER COUNTY
JOHN DEERE JD R4030
BOOM LENGTH = 110 FEET
NOZZLE SPACING = 20 INCHES
GROUND SPEED = 10 MPH
GPA = 10
PSI = 24
BOOM HEIGHT = 36 INCHES
800 GAL TANK

PLOT SIZE WAS 36 ROWS (108') x FIELD LENGTH, 3 REPS/NOZZLE TYPE

TWIN ROWS

CROP ROTATION: 2016 = PEANUT, 2017 = FIELD CORN, 2018 = PEANUT

APRIL 12 - PROWL @ 1 QT/A + STRONGARM @ 0.36 OZ/A (PPI)

MAY 3 AND 4 - PLANTED GA-06G PEANUTS. SPRAYED 3 OZ/A VALOR + 1 PT/A DUAL BEHIND PLANTER. ABOUND @ 6 OZ/A + WRANGLER @ 10 OZ/A IN FURROW

JUNE 6 - 500 LBS/A OF LANDPLASTER (GYPSUM)
AUGUST 29 - PROPULSE @ 13.6 OZ/A BY AIRPLANE IN 3 GPA

DIGGING DATE: SEPTEMBER 24
HARVEST DATE: OCTOBER 3
HARVEST MOISTURE: 13.85%
YIELDS ADJUSTED TO 10%:
2% YIELD REDUCTION FOR FM

HARVESTED PLOT AREA WAS 6 ROWS (18') x 1000 FT (0.413 ACRES/REP)

FOLLOWING TREATMENTS WERE APPLIED WITH FLAT FAN OR TTI60 NOZZLE IN 10 GPA

JUNE 8 - CADRE @ 4 OZ/A + PRIAXOR @ 6 OZ/A + ACEPHATE @ 6 OZ/A + DUAL MAGNUM @ 16 OZ/A
JUNE 19 - ELATUS @ 7.2 OZ/A + FULLBOR @ 8 OZ/A
JULY 5 - BRAVO @ 24 OZ/A + FOLICUR @ 10 OZ/A + PEGPOWER @ 16 OZ/A + MICROPAK @ 16 OZ/A
JULY 18 - ELATUS @ 7.2 OZ/A + FULLBOR @ 8 OZ/A + 2,4-DB @ 24 OZ/A
JULY 30 - PROPULSE @ 13.6 OZ/A + PEGPOWER @ 16 OZ/A + MICROPAK @ 16 OZ/A (15 GPA)
AUGUST 15 - ELATUS @ 7.2 OZ/A + FOLICUR @ 10 OZ/A + BESEIGE @ 10 OZ/A
SEPTEMBER 10 - BRAVO @ 24 OZ/A + FOLICUR @ 10 OZ/A

SUMMARY:

- 1) NOZZLE TYPE HAD NO EFFECT ON LEAF SPOT OR WHITE MOLD ($P>0.57$).
- 2) NOZZLE TYPE HAD NO EFFECT ON GARDEN FLEAHOPPER COUNTS ($P=0.6035$).
- 3) 3-CORNERED ALFALFA HOPPER COUNTS WERE HIGHER WITH THE TTI60 NOZZLE.
- 4) NO DIFFERENCES IN PEANUT YIELD BETWEEN TTI60 AND XR-11006 NOZZLE ($P=0.4634$).

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Trial ID: NZ-03-18		Study Dir.: CODY POWELL/KIM + AUSTIN HENLEY					
Location: MILLER COUNTY		Investigator: Eric P. Prostko					
Weed Code	EARLY	THREE	GARDEN	WHITE	-----	-----	-----
Crop Code	LEAF	CORNER	FLEA	MOLD	ARAHY	ARAHY	ARAHY
Part Rated	SPOT -	ALFALF -			PLOT -	PLOT -	PLOT -
Rating Data Type		HOPPER	HOPPER		YIELD	YIELD	YIELD
Rating Unit	1-10	#/10 SWP	#/10 SWP	PERCENT	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Sep-11-18	Sep-11-18	Sep-11-18	Sep-26-18	Oct-3-18	Oct-3-18	Oct-3-18
PRM Data Type						T1	TY2
# Subsamples, Dec.				- 1		- 0	- 0
Trt Treatment							
No. Name	1	2	3	4	5	6	7
1 XRC-11005VP	2.750 a	3.7 b	34.0 a	3.7 a	2547.7 a	2497 a	5784 a
2 TTI60-11005VP	3.000 a	9.0 a	47.0 a	3.9 a	2590.0 a	2538 a	5880 a
Tukey's HSD P=.10	1.1151	1.95	62.15	4.09	137.44	134.7	312.0
Standard Deviation	0.4677	0.82	26.07	1.71	57.65	56.5	130.9
CV	16.27	12.89	64.36	45.52	2.24	2.24	2.24
Grand Mean	2.8750	6.33	40.50	3.77	2568.83	2517.5	5831.6
Levene's F	0.077	0.50	0.017	1.00	1.203	1.203	1.203
Levene's Prob(F)	0.795	0.519	0.902	0.374	0.334	0.334	0.334
Replicate F	1.000	7.000	0.018	1.363	4.072	4.072	4.072
Replicate Prob(F)	0.5000	0.1250	0.9819	0.4232	0.1972	0.1972	0.1972
Treatment F	0.429	64.000	0.373	0.020	0.809	0.809	0.809
Treatment Prob(F)	0.5799	0.0153	0.6035	0.8995	0.4634	0.4634	0.4634
PRM Data Type							
T1 = [5]*0.98							
TY2 = 2.316478*[6]							

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Trial ID: NZ-03-18 Study Dir.: CODY POWELL/KIM + AUSTIN HENLEY								
Location: MILLER COUNTY Investigator: Eric P. Prostko								
Weed Code	EARLY LEAF SPOT -	THREE CORNER ALFALF - HOPPER	GARDEN FLEA HOPPER	WHITE MOLD PERCENT	----- ARAHY PLOT - YIELD LBS/PLOT	----- ARAHY PLOT - YIELD LBS/PLOT	----- ARAHY PLOT - YIELD LBS/A	
Rating Data Type	1-10	#/10 SWP	#/10 SWP	PERCENT	LBS/PLOT	LBS/PLOT	LBS/A	
Rating Unit	Sep-11-18	Sep-11-18	Sep-11-18	Sep-26-18	Oct-3-18	Oct-3-18	Oct-3-18	
PRM Data Type						T1	TY2	
# Subsamples, Dec.				- 1		- 0	- 0	
Trt Treatment								
No. Name	Plot	1	2	3	4	5	6	7
1 XRC-11005VP	101	3.000	3.0	55.0	4.0	2528.0	2477	5739
	201	3.000	5.0	23.0	4.0	2597.0	2545	5896
	301	2.250	3.0	24.0	3.0	2518.0	2468	5716
	Mean =	2.750	3.7	34.0	3.7	2547.7	2497	5784
2 TTI60-11005VP	102	2.500	7.0	26.0	2.0	2568.0	2517	5830
	202	3.500	11.0	63.0	6.8	2722.0	2668	6179
	302	3.000	9.0	52.0	2.8	2480.0	2430	5630
	Mean =	3.000	9.0	47.0	3.9	2590.0	2538	5880
PRM Data Type								
T1 = [5]*0.98								
TY2 = 2.316478*[6]								