

University of Georgia

SESAME DEMO - 2015

Trial ID: SM-03-15 Study Dir.: CHARLIE HILTON
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 1 Plots: 6 by 100 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1
1	NTC							101
2	DUAL MAGNUM DIREX NIS	7.62 4 L	EC	16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	12.5 ml/mx 25.0 ml/mx 3.75 ml/mx	102
3	WARRANT DIREX NIS	3 ME 4 L		48.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	37.5 ml/mx 25.0 ml/mx 3.75 ml/mx	103
4	DIREX DIREX NIS	4 L 4 L		32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	25.0 ml/mx 25.0 ml/mx 3.75 ml/mx	104
5	NTC							105
6	DUAL MAGNUM DIREX DIREX NIS	7.62 4 L 4 L	EC	16.0 oz/a 32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE PRE POST POST	A A B B	12.5 ml/mx 25.0 ml/mx 25.0 ml/mx 3.75 ml/mx	106
7	WARRANT DIREX DIREX NIS	3 ME 4 L 4 L		48.0 oz/a 32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE PRE POST POST	A A B B	37.5 ml/mx 25.0 ml/mx 25.0 ml/mx 3.75 ml/mx	107
8	NTC							108

Sort Order: Treatment

Trial Comments

ANNUAL GRASS = CRABGRASS + GOOSEGRASS + CROWFOOTGRASS

SUMMARY

- 1) THIS TRIAL WAS NOT REPLICATED. ONLY FOR DEMO PURPOSES.
- 2) SIGNIFICANT RAINFALL OCCURRED AFTER THE PRE APPLICATIONS WERE MADE WITH INCREASED INJURY CAUSED BY DUAL MAGNUM OR WARRANT (REFER TO WEATHER/IRRIGATION SECTION FOR TOTALS).
- 3) GENERALLY, SESAME PLANT POPULATIONS WERE REDUCED BY PRE APPLICATIONS OF DUAL MAGNUM OR WARRANT.
- 4) PRE APPLICATIONS OF DUAL, WARRANT, AND DIREX CAUSED SIGNIFICANT SESAME STUNTING.
- 5) PRE APPLICATIONS OF DIREX + DUAL OR WARRANT WAS MORE INJURIOUS THAN ANY ALONE.
- 6) WEED CONTROL WAS ACCEPTABLE WITH DUAL OR WARRANT OR DIREX FOLLOWED BY DIREX.
- 7) POST APPLICATIONS OF DIREX CAUSED SESAME LEAF BURN.
- 8) BY OCTOBER 8 (77 DAP), THE SESAME PLANTS HAD RECOVERED SIGNIFICANTLY FROM ALL INJURY WHICH WAS A MAJOR SURPRISE.

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 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION			
Study Director: CHARLIE HILTON		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. AMAPA PALMER AMARANTH 2. AGRASS CRAB+ GOOSE+ CROW			
Crop 1: SESAM SESAME	Variety: S39	Planting Date: Jul-23-15	
Planting Method: MONSOEM	Rate: 296208 SEED/A	Depth: 0.5 IN	
Perennial Age: _____	Row Spacing: 30 IN	Seed Bed: _____	
Soil Temperature: _____	Soil Moisture: _____	Emergence Date: _____	

Plot Width, Unit: 6 FT	Plot Length, Unit: 100 FT	Reps: 1
Site Type: _____		
Tillage Type: CONVENTIONAL		
Study Design: RACOB		
Trial Initiation Comments: _____		
Previous: Crops	Pesticides	Year
1. SOYBEAN	2014	_____

MAINTENANCE							
Field Prep./Maintenance: _____							
		Form	Form	Form	Rate		
No.	Date	Treatment Name	Conc	Unit	Type	Rate	Unit
1.	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION			
Texture: SAND	% OM: 0.67	% Sand: 92	% Silt: 4
pH: 6.0	CEC: 2.5	Soil Name: TIFTON	Fertility Level: GOOD
% Clay: 4			

MOISTURE CONDITIONS				
On: Date	Time	Amount	Unit	Interval
1. Jul-23-15	_____	0.3	IN	SPRINKLER - LATERAL MOVE
2. Jul-27-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE
3. Jul-28-15	_____	0.06	IN	RAINFALL
4. Jul-29-15	_____	0.37	IN	RAINFALL
5. Jul-30-15	_____	0.04	IN	RAINFALL
6. Jul-31-15	_____	0.16	IN	RAINFALL
7. Aug-1-15	_____	0.06	IN	RAINFALL
8. Aug-2-15	_____	0.71	IN	RAINFALL
9. Aug-6-15	_____	1.44	IN	RAINFALL
10. Aug-7-15	_____	0.03	IN	RAINFALL
11. Aug-11-15	_____	1.21	IN	RAINFALL

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

APPLICATION DESCRIPTION						
	A	B	C	D	E	F
Application Date:	Jul-23-15	Aug-18-15	_____	_____	_____	_____
Time of Day:	9:15 AM	9:30 AM	_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	_____	_____	_____	_____
Application Timing:	PRE	POST	_____	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	_____	_____	_____	_____
Air Temp., Unit:	83 F	_____	_____	_____	_____	_____
% Relative Humidity:	88	_____	_____	_____	_____	_____
Wind Velocity, Unit:	4 MPH	4 MPH	_____	_____	_____	_____
Dew Presence (Y/N):	N	_____	_____	_____	_____	_____
Water Hardness:	---	_____	_____	_____	_____	_____
Soil Temp., Unit:	85 F	84 F	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	_____	_____	_____	_____	_____
% Cloud Cover:	30	_____	_____	_____	_____	_____

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		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1	Stage: SESAM	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	6-12" TAL	_____	_____	_____	_____
	Height, Unit:	_____	_____	_____	_____	_____	_____

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	_____	_____	_____	_____	_____
Operating Pressure:	30	30	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	FLAT FAN	_____	_____	_____	_____	_____
Nozzle Size:	11002	8002	_____	_____	_____	_____	_____
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	IN	_____	_____	_____	_____
Ground Speed, Unit:	3.0	MPH 3.0	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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Trial ID: SM-03-15			Study Dir.: CHARLIE HILTON											
Location: PONDER FARM			Investigator: Eric P. Prostko											
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	PRM Data Type	# Subsamples, Dec.	----- SESAME STAND1 - #/3FT Jul-29-15	----- SESAME STAND2 - #/3FT Jul-29-15	----- SESAME STAND - AVERAGE #/3 FT T1 - 0	AMAPA ----- CONTRO - PERCENT Jul-29-15	ANNUAL GRASS CONTRO - PERCENT Jul-29-15	SESAME PLANT - STUNT PERCENT Jul-29-15	SESAME PLANT - STUNT PERCENT Aug-11-15
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code		1	2	3	4	5	6	7
1	NTC							58.0	69.0	64	0.0	0.0	0.0	0.0
2	DUAL MAGNUM DIREX NIS	7.62 4 L	EC L	16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B		31.0	48.0	40	95.0	99.0	40.0	75.0
3	WARRANT DIREX NIS	3 ME 4 L	ME L	48.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B		54.0	56.0	55	95.0	99.0	20.0	70.0
4	DIREX DIREX NIS	4 L 4 L	L L	32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B		68.0	71.0	70	99.0	90.0	10.0	60.0
5	NTC							53.0	65.0	59	0.0	0.0	0.0	0.0
6	DUAL MAGNUM DIREX DIREX NIS	7.62 4 L 4 L	EC L L	16.0 oz/a 32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE PRE POST POST	A A B B		39.0	41.0	40	99.0	99.0	40.0	85.0
7	WARRANT DIREX DIREX NIS	3 ME 4 L 4 L	ME L L	48.0 oz/a 32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE PRE POST POST	A A B B		53.0	60.0	57	95.0	99.0	10.0	80.0
8	NTC							54.0	54.0	54	0.0	0.0	0.0	0.0
LSD P=.10								.	.	.	.	.	.	.
Standard Deviation								.	.	.	.	.	.	.
CV								.	.	.	.	.	.	.
Grand Mean								51.25	58.00	54.6	60.38	60.75	15.00	46.25
Bartlett's X2								.	.	.	.	.	.	.
P(Bartlett's X2)								.	.	.	.	.	.	.

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							AMAPA ----- CONTRO -	ANNUAL GRASS CONTRO -	SESAME PLANT - HGT IN (5 P)	----- SESAME PLANT - STUNTING	----- SESAME LEAF - BURN	----- SESAME PLANT - STUNTING	AMAPA ----- CONTRO -	
							PERCENT Aug-11-15	PERCENT Aug-11-15	Aug-11-15	PERCENT Aug-24-15	PERCENT Aug-24-15	PERCENT Oct-15-15	PERCENT Oct-8-15	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	8	9	10	11	12	13	14	
1	NTC						0.0	0.0	11.4	0.0	0.0	0.0	0.0	
2	DUAL MAGNUM DIREX NIS	7.62 4 L	EC	16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	95.0	95.0	3.4	40.0	20.0	0.0	99.0	
3	WARRANT DIREX NIS	3 ME 4 L		48.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	95.0	75.0	3.6	45.0	20.0	10.0	99.0	
4	DIREX DIREX NIS	4 L 4 L		32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	95.0	95.0	5.8	30.0	20.0	0.0	99.0	
5	NTC						0.0	0.0	11.6	0.0	0.0	0.0	0.0	
6	DUAL MAGNUM DIREX DIREX NIS	7.62 4 L 4 L	EC	16.0 oz/a 32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE PRE POST POST	A A B B	99.0	99.0	3.0	50.0	20.0	20.0	99.0	
7	WARRANT DIREX DIREX NIS	3 ME 4 L 4 L		48.0 oz/a 32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE PRE POST POST	A A B B	99.0	99.0	2.6	65.0	20.0	20.0	99.0	
8	NTC						0.0	0.0	11.0	0.0	0.0	0.0	0.0	
LSD P=.10							.	.	.	.	.	.	.
Standard Deviation						
CV							
Grand Mean							60.38	57.88	6.55	28.75	12.50	6.25	61.88	
Bartlett's X2							
P(Bartlett's X2)							

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Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

LEAF = LEAF / FOLIAGE

PRM Data TypeT1 = $([C1]+[C2])/2$