10/20/2014 (C45B-14)

University of Georgia Cotton and weed response to Anthem Flex.

Trial ID: C45B14 Study Dir.: Stanley Culpepper Investigator: Stanley Culpepper Location: Sunbelt Expo

Use 1.5 liters(s) per treatment mixture to spray 14.8 gal/ac

T4	Tuestassat	-				. , .) feet Plot No. By Rep					
Trt No.	Treatment Name		Form Type	Rate		Grow Stg		Amt Product to Measure	PIOT N	о. ву н 2	kep 3	4
1	Non-treated								101	204	303	404
2	Direx Reflex Roundup Warrant F9312-3 Aim Roundup WMAX	4 2 4.5 3 4 2 4.5	L L L L L	1 12 32 48 1.84 1.35 22		PRE PRE POST POST 7"direct 7"direct 7"direct	Α	12.67 ml/mx 9.501 ml/mx 25.34 ml/mx 38.0 ml/mx 1.457 ml/mx 1.069 ml/mx 17.42 ml/mx	102	203	301	406
3	Direx Reflex Roundup Warrant F9312-3 Aim Roundup WMAX	4 2 4.5 3 4 2 4.5	L L L L L	1 12 32 48 2.76 1.25 22	pt/a oz/a oz/a oz/a oz/a oz/a oz/a	PRE PRE POST POST 7"direct 7"direct 7"direct	Α	12.67 ml/mx 9.501 ml/mx 25.34 ml/mx 38.0 ml/mx 2.185 ml/mx 0.9897 ml/mx 17.42 ml/mx	103	201	306	405
4	Direx Reflex Roundup Warrant Warrant Direx Roundup WMAX	4 2 4.5 3 3 4 4.5	L L L L L	1 12 32 48 40 6.4 22	pt/a oz/a oz/a oz/a oz/a oz/a oz/a	PRE PRE POST POST 7"direct 7"direct 7"direct	Α	12.67 ml/mx 9.501 ml/mx 25.34 ml/mx 38.0 ml/mx 31.67 ml/mx 5.067 ml/mx 17.42 ml/mx	104	205	304	403
5	Direx Reflex Roundup Warrant F9312-3 Aim Roundup WMAX	4 2 4.5 3 4 2 4.5	L L L L L	1 12 32 48 1.84 1.35 22	pt/a oz/a oz/a oz/a oz/a oz/a oz/a	PRE PRE POST POST 7"direct 7"direct 7"direct	Α	12.67 ml/mx 9.501 ml/mx 25.34 ml/mx 38.0 ml/mx 1.457 ml/mx 1.069 ml/mx 17.42 ml/mx	105	206	302	401
6	Direx Reflex Roundup Warrant Warrant Direx Roundup WMAX	4 2 4.5 3 3 4 4.5	L L L L L	1 12 32 48 40 16 22	pt/a oz/a oz/a oz/a oz/a oz/a oz/a	PRE PRE POST POST 7"direct 7"direct 7"direct	Α	12.67 ml/mx 9.501 ml/mx 25.34 ml/mx 38.0 ml/mx 31.67 ml/mx 12.67 ml/mx 17.42 ml/mx	106	202	305	402

Sort Order: Treatment

Trial Comments

OBJECTIVE: Cotton response to Anthem Flex plus Aim directed to 7 inch cotton.

Note: Study was maintained weed free with PRE and POST treatments.

VISUAL INJURY FROM LAYBY:

- 1. Cotton was 13 inches at time of application.
- 2. Severe damage from F9312-3 + Aim + Roundup mixtures was noted (28 to 34%). Injury was leaf burn/necrosis/drop and stem blackening/necrosis which is typical with applications of Aim applied prior to cotton 20 inches in height. Additionally, cotton stems in this experiment were not barkey.
- 3. Less than 9% damage was noted with Roundup + Direx + Warrant.

GENERAL COMMENTS:

- 1. PRE was applied on May 21 following planting.
- 2. POST was applied 12 day after planting.

University of Georgia Cotton and weed response to Anthem Flex.

	ıl ID: C45B14 ation: Sunbelt Expo)		dy Dir.: St estigator							
Rat Rat Rat Ass	p Code ing Data Type ing Unit ing Date essed By Eval Interval			GOSHI INJURY % 6/24/2014 SC 8 DA-A		SC		GOSHI INJURY % 7/10/2014 SC 24 DA-A		GOSHI INJURY % 7/17/201 SC 31 DA-A	
	Treatment Name	Rate	Rate Unit			2		3		4	
1 2	Non-treated Direx Reflex Roundup Warrant F9312-3 Aim Roundup WMAX	1 12 32 48 1.84 1.35		0.0 31.3		0.0 28.5		0.0 18.5		0.0 10.3	c b
3	Direx Reflex Roundup Warrant F9312-3 Aim Roundup WMAX	1 12 32 48 2.76 1.25	pt/a oz/a oz/a oz/a oz/a	35.0	а	34.5	а	18.0	а	11.0	а
4	Direx Reflex Roundup Warrant Warrant Direx Roundup WMAX	1 12 32 48 40 6.4	pt/a oz/a oz/a oz/a oz/a oz/a oz/a	5.5	b	0.0	С	0.0	b	0.0	С
5	Direx Reflex Roundup Warrant F9312-3 Aim Roundup WMAX	1 12 32 48 1.84 1.35	pt/a oz/a oz/a oz/a oz/a	32.5	а	29.0	b	19.3	а	14.0	а
6	Direx Reflex Roundup Warrant Warrant Direx Roundup WMAX	1 12 32 48 40 16	pt/a oz/a oz/a oz/a oz/a oz/a oz/a		b	3.8	С	0.0	b	0.0	С
Sta CV Bar	O (P=.05) ndard Deviation tlett's X2 artlett's X2)			10.32 6.85 36.6 6.146 0.189		5.25 3.49 21.84 8.505 0.037*		4.69 3.11 33.5 0.018 0.894		3.35 2.23 37.88 7.728 0.021	3
Rep Tre	olicate F olicate Prob(F) atment F atment Prob(F)			1.887 0.1751 21.363 0.0001		3.085 0.0593 87.523 0.0001	3	1.048 0.4000 42.849 0.0001		0.569 0.643 34.72 0.000	38 23

Means followed by same letter do not significantly differ (P=.05, LSD) Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

10/20/2014 (C45B-14) Site Description Page 3 of 4

University of Georgia

Cotton and weed response to Anthem Flex.

Trial ID: C45B14 Study Dir.: Stanley Culpepper Investigator: Stanley Culpepper Location: Sunbelt Expo

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper Title: Ext. Weed Science

Affiliation: University of Georgia

Postal Code: 31794

Investigator: Stanley Culpepper
Affiliation: University of Georgia Title: Ext. Weed Science

Postal Code: 31794

TRIAL LOCATION

Moultrie City: Trial Status: COMPLETED State/Prov.: GA Trial Reliability: EXCELLENT Postal Code: 31788 Initiation Date: 5/21/2014

Country: USA

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

Crop 1: GOSHI COTTON, SHORT STAPLE Variety: ST 6448 GLB2

Planting Date: 5/21/2014 Planting Method: HILL DROP

Depth: 0.75 IN **Rate:** 2 SEED/8.25"

Row Spacing: 36 IN Spacing Within Row: 8.25 IN Seed Bed: rototill flat Soil Temperature: 76 F Soil Moisture: MOIST Emergence Date: 5/25/2014

SITE AND DESIGN

Plot Width, Unit: 6 Plot Length, Unit: 30 Reps: 4

Site Type: Sunbelt Ag Expo

Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% **OM:** 1.2 % Sand: 86 Texture: LOAMY SAND

% Silt: 10 **pH:** 6.2

% Clay: 4

Overall Moisture Conditions: MOIST

Closest Weather Station: www.griffin.uga.edu/aemn/ Distance: 250 Unit: yd

APPLICATION DESCRIPTION

Α

Application Date: 6/16/2014 Time of Day: 9:30am Application Method: BROADCAST Application Timing: 7" DIRECT Applic. Placement: DIRECTED 80 F Air Temp., Unit: % Relative Humidity: 78
Wind Velocity, Unit: 2 Dew Presence (Y/N): \mbox{N} Soil Temp., Unit: 86
FAIR 10 % Cloud Cover:

CROP STAGE AT EACH APPLICATION

Α

Crop 1 Code, Stage: GOSHI Stage Scale: 7-8 LEAF Height, Unit: 13 IN

10/20/2014 (C45B-14) Site Description Page 4 of 4

University of Georgia

APPLICATION EQUIPMENT

Α

Appl. Equipment: BACKPACK

Operating Pressure: 25

Nozzle Type: FLOODJET
Nozzle Size: TK3
Nozzle Spacing, Unit: 36 IN
Nozzles/Row: 3
Boom Height, Unit: 15 IN
Ground Speed, Unit: 3 MPH

Carrier: WATER
Spray Volume, Unit: 15 GPA

Propellant: CO2
Tank Mix (Y/N): Y