Oat and rye response to Axiom applied at spike.

Trial ID: Oat&Rye03-05 Study Dir.: Culpepper

Location: Ponder farm Investigator: Stanley Culpepper

Reps: 3 Plots: 12 by 25 feet

Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.1575)

_	, ,								
Trt	Treatment	Form Form	Rate	Grow	Appl	Amt Product	Plot N	o. By F	Rep
No	. Name	Conc Type	Rate Unit	Stg	Code	to Measure	1	2	3
	Man tonatan						404	000	004

1 Non-treated				101	202	301
2 Axiom	68 DF	8 oz/a spike A	8.096 g/mx	102	201	302

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Lot Code
10.121	g	Axiom 68 DF	

\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

**Trial Comments** 

OBJECTIVE: Evaluate oat and rye response to Axiom applied at the spike stage of growth.

Visual Crop Response:

- 1. Axiom severely injured rye.
- 2. Axiom moderately injured oats.

Wild Radish Response:

1. Axiom provided excellent POST control of small radish plus excellent residual control.

Henbit Response:

1. Axiom provided excellent residual control.

Oat and rye response to Axiom applied at spike.

Trial ID: Oat&Rye03-05 Study Dir.: Culpepper

Location: Ponder farm Investigator: Stanley Culpepper

Weed Code								RAPRA
Crop Code	rye	rye	rye	rye	oat	oat	oat	
Rating Data Type	injury	control						
Rating Unit	percent	percent	percednt	percent	percent	percent	percent	percent
Rating Date	Nov-15-04	Nov-19-04	Dec-28-04	Jan-21-05	Nov-19-04	Dec-28-04	Jan-21-05	Nov-19-04
Trt-Eval Interval	10 DA-A	14 DA-A	53 DA-A	69 DA-A	14 DA-A	53 DA-A	69 DA-A	14 DA-A
Trt Treatment Rate								
No. Name Rate Unit	1	2	3	4	5	6	7	8
1 Non-treated	0	0	0	0	0	0	0	0
2 Axiom 8 oz/a	0	25	80	79	4	68	40	91
LSD (P=.05)	0.0	7.5	26.1	2.9	10.0	31.3	24.8	15.0
Standard Deviation	0.0	2.1	7.4	0.8	2.9	8.9	7.1	4.3
CV	0.0	16.97	18.65	2.06	131.9	26.04	35.36	9.33

Means followed by same letter do not significantly differ (P=.05, LSD)

Weed Code	RAPRA	RAPRA	LAMAM
Crop Code			
Rating Data Type	control	control	control
Rating Unit	percent	percent	percent
Rating Date	Dec-28-04	Jan-21-05	Jan-21-05
Trt-Eval Interval	45 DA-A	53 DA-A	69 DA-A
Trt Treatment Rate			
No. Name Rate Unit	9	10	11
1 Non-treated	0	0	0
2 Axiom 8 oz/a	99	99	99
LSD (P=.05)	0.0	0.0	0.0
Standard Deviation	0.0	0.0	0.0
CV	0.0	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

			Uni	versity of Georgia		
			Oat and rye	response to Axiom applied at s	pike.	
		Dat&Rye03-05 Ponder farm		study Dir.: Culpepper restigator: Stanley Culpepper		
			GENERAL TRIAL	TNFORMATION		
Affil			<del></del>	Title: Ext. weed	l science	
Affil	iation	Stanley Univers 31793	y Culpepper sity of Georgia	Title: Ext. weed	l science	
			TRIAL LO	OCATION		
Posta Count E-Lon Altit	/Prov. 1 Code ry: gitude	U.S.A.  of LL Corner:	er °:		·	
Org: Addre Addre City: State Posta Condu	ss 1: ss 2: /Prov: 1 Code	Jinder GLP (Y,	- / <b>n):</b> N	Country: Phone No: Fax No:		
_	tive:	3:				
			CROP AND WEED	DESCRIPTION		
		Common Name	Scier	ntific Name		
1.	RAPRA	wild radish				
2.	LAMAM	henbit				
Plant: Rate: Row S	2 pacing	bu/A : 7.5 inch	Depth: 0.5 n Spacing Within	Variety: Wrens 9 ting Method: conventional in Perennial Age: Row: Seed Bed: f : moist Emergence Date	. <u></u> lat	

**Temperature:** 59 F **Soil Moisture:** moist **Emergence Date:** Nov-10-0Crop 2: Oat oat Variety: Horizon 96 Crop 2: Oat oat Variety: Horiz Planting Date: Nov-05-04 Planting Method: conventional Rate: 2 bu/A Depth: 0.5 in Perennial Age: \_\_\_\_ Row Spacing: 7.5 inch Spacing Within Row: \_\_\_\_ Seed Bed: Row Spacing: 7.5 inch Spacing Within Row: \_\_\_\_ Seed Bed: flat
Soil Temperature: 59 F Soil Moisture: moist Emergence Date: Oct-10-04 SITE AND DESIGN

Plot Width, Unit: 12 FT Plot Length, Unit: 25 FT Reps: 3 Site Type: research station Tillage Type: conventional Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

#### MAINTENANCE

#### Field Prep./Maintenance:

		Maintenance	Form	Form	Form		Rate
No.	Date	Treatment Name	Conc	Unit	Type	Rate	Unit
1.							

### SOIL DESCRIPTION

**% Sand:** 94 **% OM:** 1.3 **Texture:** sand

% Silt: 2 pH: 5.9 Soil Name: Tifton sandy loam

% Clay: 4 CEC: \_\_\_\_ Fert. Level: \_

#### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit	

#### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: .

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_ Unit: \_\_

#### APPLICATION DESCRIPTION

	A
Application Date:	Nov-13-04
Time of Day:	11 am
Application Method:	broadcast
Application Timing:	spike
Applic. Placement:	overtop
Air Temp., Unit:	60 F
% Relative Humidity:	37
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	58 F
Soil Moisture:	moist
% Cloud Cover:	25

#### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	Rye spike
Stage Scale:	spike
Height, Unit:	1 inch
Crop 2 Code, Stage:	Oat spike
Stage Scale:	spike
Height, Unit:	0.75 inch

#### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	RAPRA spike
Stage Scale:	up to 4"
Density, Unit:	4 ydsq
Weed 2 Code, Stage:	LAMAM spike
Stage Scale:	up to 4"
Density, Unit:	4 vdsa

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment