Wild radish and wheat tolerance to pyroxsuluam.

Trial ID: Wheat3-08(NA08C2B004) Study Dir.: Stanley Culpepper
Location: Ponder farm Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 30 feet

Spray vol: 14.8 gal/ac Mix size: 1 liters (min .92602)

Spira	ay voi: 14.8 gai/ac	IIIX SIZE	e: 1 litters	s (mm .	92002	-)								
	Treatment			Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By l	Rep		
No.	Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4	
1	PYROXSULAM	75	g ai/kg	WG	5.3	G A/A	6 TO 12	Α	1.261 g/mx	101	206	304	405	
	AGRI-DEX COC			L	1.25	% V/V	6 TO 12	Α	12.5 ml/mx					
2	PYROXSULAM	75	g ai/kg	WG	6.4	G A/A	6 TO 12	Α	1.523 g/mx	102	209	303	409	
	AGRI-DEX COC			L	1.25	% V/V	6 TO 12	Α	12.5 ml/mx					
3	PYROXSULAM	75	g ai/kg	WG	7.5	G A/A	6 TO 12	Α	1.785 g/mx	103	204	306	408	
	AGRI-DEX COC			L	1.25	% V/V	6 TO 12	Α	12.5 ml/mx					
4	HARMONY EXTRA	75	g ai/kg	WG	0.5	OZ/A	6 TO 12	Α	0.253 g/mx	104	208	309	407	
	NONIONIC SURFACTANT			L	0.50	% V/V	6 TO 12	Α	4.999 ml/mx					
5	2,4-D	4	g ae/l	EC	1	PT/A	6 TO 12	Α	8.445 ml/mx	105	202	310	406	
6	UNTREATED							Α		106	201	308	402	
7	GRASP SC	240	g ai/l	SC	14	G A/A	6 TO 12	Α	1.043 ml/mx	107	205	301	410	
	MSO			L	2.5	% V/V	6 TO 12	Α	25.0 ml/mx					
8	GRASP SC	240	g ai/l	SC	20	G A/A	6 TO 12	Α	1.49 ml/mx	108	203	305	404	
	MSO			L	2.5	% V/V	6 TO 12	Α	25.0 ml/mx					
9	OSPREY	4.5	g ai/kg	WG	4.75	OZ/A	6 TO 12	Α	2.404 g/mx	109	210	307	401	
	UAN			L	1.5	QT/A	6 TO 12	Α	25.34 ml/mx					
	NIS			L	0.25	% V/V	6 TO 12	Α	2.5 ml/mx					
10	HARMONY EXTRA	75	g ai/kg	WG	0.4	OZ/A	6 TO 12	Α	0.2024 g/mx	110	207	302	403	
I	BANVEL	4	g ae/l	SL	3	OZ/A	6 TO 12	Α	1.584 ml/mx					
	NONIONIC SURFACTANT			L	0.50	% V/V	6 TO 12	Α	4.999 ml/mx					

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
5.712	g	PYROXSULAM	75	WG	
46.870	ml	AGRI-DEX COC		L	
0.569	g	HARMONY EXTRA	75	WG	
12.499	ml	NONIONIC SURFACTANT		L	
10.556	ml	2,4-D	4	EC	
3.165	ml	GRASP SC	240	SC	
62.493	ml	MSO		L	
3.005	g	OSPREY	4.5	WG	
31.669	ml	UAN		L	
3.125	ml	NIS		L	
1.980	ml	BANVEL	4	SL	·

^{* &#}x27;Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

^{*} Product amount calculations increased 25 % for overage adjustment.

^{* &#}x27;Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Jun-12-09 (Wheat3-08) Trial Comments Page 2 of 7

University of Georgia

Wild radish and wheat tolerance to pyroxsuluam.

Trial ID: Wheat3-08(NA08C2B004) Study Dir.: Stanley Culpepper
Location: Ponder farm Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Determine wheat and radish response to pyroxsulam.

Note: Rates for grasp were incorrect in this trial. The trail was repeated with correct rates of Grasp in Wheat5-08.

Wheat response:

1. No treatment visually injured wheat.

Wild radish response:

- 1. At 10 DAT, control was poor with all treatments.
- 2. At 16 to 25 DAT, control was fair with all rates of pyroxsulam, Harmony alone, and 2,4-D.
- 3. By 32 DAT, regrowth was significant in plots treated with the Harmony mixtures.
- 4. By 60 DAT, greater than 90% control was noted with pyroxsulam at 6.4 or 7.5 g ai/A and 2,4-D. Osprey and pyroxsulam at 5.3 g provided good control (84-85%).

Cotton response:

1. Cotton was planted over the entire trial on May 20. No injury was noted throughout the cotton season.

Jun-12-09 (Wheat3-08) AOV Means Table Page 3 of 7

University of Georgia

Wild radish and wheat tolerance to pyroxsuluam.

Trial ID: Wheat3-08(NA08C2B004) Study Dir.: Stanley Culpepper Location: Ponder farm Investigator: Stanley Culpepper

Weed Code							RAPRA	RAPRA
Crop Code		TRZAW	TRZAW	TRZAW	TRZAW	TRZAW		
Rating Data Type		injury		injury	injury	injury	control	control
Rating Unit		%	%	%	%	%	%	%
Rating Date		Feb-26-08	Mar-03-08	Mar-12-08	Mar-19-08	Apr-16-08	Feb-26-08	Mar-03-08
Assessed By		SC	KF			KF	SC	KF
Trt-Eval Interval		10 DA-A	16 DA-A	25 DA-A	32 DA-A	60 DA-A	10 DA-A	16 DA-A
Trt Treatment	Rate							
No. Name Rate	Unit	1	2	3	4	5	6	7
1 PYROXSULAM 5.3	G A/A	0 a	0 a	0 a	0 a	0 a	58 a	85 a
AGRI-DEX COC 1.25	% V/V							
2 PYROXSULAM 6.4	G A/A	0 a	0 a	0 a	0 a	0 a	58 a	84 a
AGRI-DEX COC 1.25	% V/V							
3 PYROXSULAM 7.5	G A/A	0 a	0 a	0 a	0 a	0 a	60 a	85 a
AGRI-DEX COC 1.25	% V/V							
4 HARMONY EXTRA 0.5	OZ/A	0 a	0 a	0 a	0 a	0 a	60 a	84 a
NONIONIC SURFACTANT 0.50	% V/V							
5 2,4-D	PT/A	0 a	0 a	0 a	0 a	0 a	56 a	81 a
6 UNTREATED		0 a	0 a	0 a	0 a	0 a	0 d	0 c
7 GRASP SC 14	G A/A	0 a	0 a	0 a	0 a	0 a	10 c	0 с
MSO 2.5	% V/V							
8 GRASP SC 20	G A/A	0 a	0 a	0 a	0 a	0 a	20 b	0 с
	% V/V							
9 OSPREY 4.75	OZ/A	0 a	0 a	0 a	0 a	0 a	61 a	84 a
	QT/A							
NIS 0.25	% V/V							
10 HARMONY EXTRA 0.4	OZ/A	0 a	0 a	0 a	0 a	0 a	63 a	58 b
	OZ/A							
NONIONIC SURFACTANT 0.50	% V/V							
LSD (P=.05)		0.0	0.0	0.0	0.0	0.0	7.7	3.5
Standard Deviation		0.0	0.0		0.0	0.0	5.3	
CV		0.0	0.0		0.0	0.0	11.9	4.35
Bartlett's X2		0.0	0.0		0.0	0.0	6.644	3.141
P(Bartlett's X2)							0.249	0.535

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Weed Code RAPRA RAPRA RAPRA RAPRA Crop Code Rating Data Type control control control Rating Unit % % % % Rating Date Mar-12-08 Mar-19-08 Apr-16-0 S Assessed By 25 DA-A 32 DA-A 60 DA-0 Trt Treatment Rate Name Rate Unit 8 9 10 1 PYROXSULAM 5.3 G A/A 81 a 85 a 84 AGRI-DEX COC 1.25 % V/V 84 a 85 a 92 AGRI-DEX COC 1.25 % V/V 84 a 83 a 96 AGRI-DEX COC 1.25 % V/V 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 15 83 a 83 a 97 6 UNTREATED 0 c 0 d 0 0 7 GRASP SC 14 G A/A 0 c 0 d 0
Rating Data Type control control control Rating Unit % % % Rating Date Mar-12-08 Mar-19-08 Apr-16-0 Assessed By S S Trt-Eval Interval 25 DA-A 32 DA-A 60 DA-A Trt Treatment Rate No. Name Rate Unit 8 9 10 1 PYROXSULAM 5.3 GA/A 81 a 85 a 84 AGRI-DEX COC 1.25 % V/V AGRI-DEX COC 1.25 % V/V 3 PYROXSULAM 7.5 GA/A 84 a 83 a 96 AGRI-DEX COC 1.25 % V/V AGRI-DEX COC 1.25 % V/V 4 HARMONY EXTRA 0.5 OZ/A 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
Rating Unit Rating Date Assessed By Trt-Eval Interval Trt Treatment No. Name Rate Unit PYROXSULAM AGRI-DEX COC 1.25 % V/V 2 PYROXSULAM AGRI-DEX COC 1.25 % V/V 3 PYROXSULAM AGRI-DEX COC 1.25 % V/V 4 HARMONY EXTRA NONIONIC SURFACTANT 1.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED Mar-12-08 Mar-19-08 Apr-16-0 S
Rating Date Mar-12-08 Mar-19-08 Apr-16-0 Assessed By S Trt-Eval Interval 25 DA-A 32 DA-A 60 DA-A Trt Treatment Rate No. Name Rate Unit 8 9 10 1 PYROXSULAM 5.3 G A/A AGRI-DEX COC 1.25 % V/V 81 a 85 a 84 a 2 PYROXSULAM 6.4 G A/A AGRI-DEX COC 1.25 % V/V 84 a 85 a 92 a 3 PYROXSULAM 7.5 G A/A AGRI-DEX COC 1.25 % V/V 84 a 83 a 96 a 4 HARMONY EXTRA 0.5 OZ/A NONIONIC SURFACTANT 0.50 % V/V 83 a 49 c 15 a 5 2,4-D 1 PT/A 83 a 83 a 97 a 6 UNTREATED 0 c 0 d 0
Assessed By Trt-Eval Interval Trt Treatment No. Name Rate Unit Rate No. Name Rate Unit Rate No. Name No. Name Rate No. Name No.
Trt-Eval Interval 25 DA-A 32 DA-A 60 DA-A Trt Treatment Rate No. Name Rate Unit 8 9 10 1 PYROXSULAM AGRI-DEX COC 1.25 % V/V 81 a 85 a 84 a 85 a 92 a 84 a 85 a 95 a 96 a 84 a 85 a 96 a 84 a 85 a 96 a 84 a 85 a 96 a 85 a 96 a 85 a 96 a 9
Trt Treatment Rate No. Rate Unit 8 9 10 1 PYROXSULAM AGRI-DEX COC 1.25 % V/V 81 a 85 a 84 a 85 a 92 a 85 a 85 a 95 a 96 a 85 a 85 a 96 a 85 a 85 a 96 a 96 a 85 a 85 a 96 a 85 a 96 a 85 a 85 a 96 a 96 a 85 a 85 a 96 a 9
No. Name Rate Unit 8 9 10 1 PYROXSULAM AGRI-DEX COC 5.3 G A/A 1.25 % V/V 81 a 85 a 84 a 85 a 84 a 85 a 84 92 2 PYROXSULAM AGRI-DEX COC 1.25 % V/V 84 a 83 a 85 a 92 3 PYROXSULAM AGRI-DEX COC 7.5 G A/A 1.25 % V/V 84 a 83 a 83 a 49 c 4 HARMONY EXTRA NONIONIC SURFACTANT 0.50 % V/V 83 a 1 PT/A 83 a 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
1 PYROXSULAM 5.3 G A/A 81 a 85 a 84 AGRI-DEX COC 1.25 % V/V 84 a 85 a 92 2 PYROXSULAM 6.4 G A/A 84 a 85 a 92 AGRI-DEX COC 1.25 % V/V 84 a 83 a 96 AGRI-DEX COC 1.25 % V/V 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
AGRI-DEX COC 1.25 % V/V 2 PYROXSULAM 6.4 G A/A 84 a 85 a 92 AGRI-DEX COC 1.25 % V/V 3 PYROXSULAM 7.5 G A/A 84 a 83 a 96 AGRI-DEX COC 1.25 % V/V 4 HARMONY EXTRA 0.5 OZ/A 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
2 PYROXSULAM 6.4 G A/A 84 a 85 a 92 AGRI-DEX COC 1.25 % V/V 84 a 83 a 96 AGRI-DEX COC 1.25 % V/V 84 a 83 a 96 4 HARMONY EXTRA NONIONIC SURFACTANT 0.50 % V/V 83 a 49 c 15 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
AGRI-DEX COC 1.25 % V/V 3 PYROXSULAM 7.5 G A/A 84 a 83 a 96 AGRI-DEX COC 1.25 % V/V 4 HARMONY EXTRA 0.5 OZ/A 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
3 PYROXSULAM 7.5 G A/A 84 a 83 a 96 AGRI-DEX COC 1.25 % V/V 4 HARMONY EXTRA 0.5 OZ/A 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
AGRI-DEX COC 1.25 % V/V 4 HARMONY EXTRA 0.5 OZ/A 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 G UNTREATED 0 c 0 d 0
4 HARMONY EXTRA 0.5 OZ/A 83 a 49 c 15 NONIONIC SURFACTANT 0.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
NONIONIC SURFACTANT 0.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
NONIONIC SURFACTANT 0.50 % V/V 5 2,4-D 1 PT/A 83 a 83 a 97 6 UNTREATED 0 c 0 d 0
6 UNTREATED 0 c 0 d 0
7 GRASP SC 14 G A/A 0 c 0 d 0
MSO 2.5 % V/V
8 GRASP SC 20 G A/A 0 c 0 d 0
MSO 2.5 % V/V
9 OSPREY 4.75 OZ/A 81 a 61 b 85
UAN 1.5 QT/A
NIS 0.25 % V/V
10 HARMONY EXTRA 0.4 OZ/A 75 b 65 b 66
BANVEL 3 OZ/A
NONIONIC SURFACTANT 0.50 % V/V
LSD (P=.05) 4.2 7.3 5.
Standard Deviation 2.9 5.0 4.
CV 5.12 9.89 7.
Bartlett's X2 5.609 9.515 7.92
P(Bartlett's X2) 0.468 0.049* 0.24

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Jun-12-09 (Wheat3-08) Site Description Page 5 of 7

University of Georgia

Wild radish and wheat tolerance to pyroxsuluam.						
Trial ID: Wheat3-08(NA080 Location: Ponder farm	C2B004) Study Dir.: Investigator:	Stanley Culpepper Stanley Culpepper				
	GENERAL TRIAL INFORMATIO	N				
Study Director: Stanley (Affiliation: Universit Postal Code: 31794	Culpepper	Title: Ext. Weed	Science			
Investigator: Stanley (Affiliation: University Postal Code: 31794		Title: Ext. Weed	Science			
	TRIAL LOCATION					
	Tria Tria Init	iation Date: ned Completion Date: tude of LL Corner °:				
Address 2: City: State/Prov: Postal Code: Conducted Under GLP (Y/N)						
Conclusions:						
Weed Code Common Name So 1. RAPRA Wild Radish Ra Crop 1: TRZAW WHEAT, W Planting Date: Dec-05-08	aphanus	Variety: AGS-2000				
Row Spacing: 7.5 inch	Spacing Within Row: 1 Soil Moisture: moist	inch Seed Bed: ba	areground			
Plot Width, Unit: 6 Site Type: Ponder Farm Tillage Type: Conventiona Trial Initiation Comments	Study Design:	30 FT Reps:				
illar iniciacion comments	·•					
Previous Crops	Previous P	Pesticides	Year			

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

Texture: sandy loam

Soil Name: Tifton sandy loam

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:	Feb-16-08		
Time of Day:	12:00pm		
Application Method:	broadcast		
Application Timing:	POST		
Applic. Placement:	overtop		
Air Temp., Unit:	73 f		
% Relative Humidity:	47		
Wind Velocity, Unit:	2 mph		
Dew Presence (Y/N):	n		
Water Hardness:			
Soil Temp., Unit:	70 f		
Soil Moisture:	moist		
% Cloud Cover:	0		

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	TRZAW A
Stage Scale:	3 tiller
Height, Unit:	4 in

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	RAPRA A
Stage Scale:	6 inch
Density, Unit:	5 ydsq

APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	4.5 ft
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