

Giant foxtail control in oats

Trial ID: OAT01-25 Study Dir.: Stiles and Sprague
 Conducted: H-5 Investigator: Christy Sprague

Planting Date: Apr-14-2025 **Row Spacing:** 7.5 "
Variety: MCIA 'Ida' **No. of Reps:** 3
Population: 90 LB/A **% OM:** 1.8
Soil Type: L loam **pH:** 6.8
Plot Size: 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel and finished followed by spring soil finished twice

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	SETFA	giant foxtail	Setaria faberi
Crop	Code	Common Name	
1	AVESP	spring oat	

Application Description

	A	B	C
Application Timing:	DPRE	EPOS	POST
Date Treated:	Apr-22-2025	Apr-25-2025	May-19-2025
Time Treated:	8:00 AM	11:30 AM	11:45 AM
% Cloud Cover:	0	60	100
Air Temp., Unit:	41 F	63 F	48 F
% Relative Humidity:	75	70	
Wind Speed/Unit/Dir:	4 MPH WSW	1.8 MPH S	4.5 MPH NE
Soil Temp, Unit:	45 F	56 F	57 F
Leaf Moist/Dew Presence (Y/N):	N	N	N
Soil Moist:	5	5	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	AVESP	AVESP	AVESP
Height:	2 "	9 "	
Stage:	1-2L	3-6L	

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	SETFA	SETFA	SETFA
Height:	0.25 "	4 "	
Stage:	0L	4L	

Weed Density

	1
Date:	May-19-2025
Weed Name:	SETFA
Density:	6 FT2

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	18.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	18.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 MPH	AIXR	11003	18.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments:

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Protocol ID: OAT01-25 Location: H-5 Trial Year: 2025

Study Director: Stiles and Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	May-12-2025	May-19-2025	May-19-2025	May-26-2025	Jun-2-2025	Jun-2-2025
Rating Type	injury	injury	control	injury	injury	control
Rating Unit	%	%	%	%	%	%
Crop Type, Code	C, AVESP	C, AVESP		C, AVESP	C, AVESP	
Pest Code			SETFA			SETFA
Treatment Appl. Interval	20 DA-A	0 DA-C	0 DA-C	7 DA-C	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl	Appl			
No. Name	Rate Unit	Code	Timing			
1 Prowl H2O	2 pt/a	A	DPRE	0	0	98
2 Zidua SC	3 fl oz/a	A	DPRE	20	63	96
3 Dual II Magnum	1 pt/a	A	DPRE	3	2	97
4 Diuron	1.5 lb/a	A	DPRE	0	0	88
5 Prowl H2O	2 pt/a	B	EPOS	1	2	97
6 Zidua SC	3 fl oz/a	B	EPOS	20	62	94
7 Dual II Magnum	1 pt/a	B	EPOS	10	10	96
8 Diuron	1.5 lb/a	B	EPOS	0	0	94
9 Untreated				0	0	0
10 Shieldex	1.35 fl oz/a	B	EPOS		0	0
Crop oil concentrate	1 % v/v	B	EPOS			40
AMS	8.5 lb/100 gal	B	EPOS			
11 Optogen	3.5 fl oz/a	B	EPOS		2	0
Crop oil concentrate	1 % v/v	B	EPOS			83
AMS	8.5 lb/100 gal	B	EPOS			
12 Laudis	3 fl oz/a	B	EPOS		3	2
Crop oil concentrate	1 % v/v	B	EPOS			50
AMS	8.5 lb/100 gal	B	EPOS			
13 Diuron	1.5 lb/a	C	POST		3	2
Surfactant	0.25 % v/v	C	POST			70
14 Shieldex	1.35 fl oz/a	C	POST		0	0
Crop oil concentrate	1 % v/v	C	POST			47
AMS	8.5 lb/100 gal	C	POST			
15 Optogen	3.5 fl oz/a	C	POST		28	28
Crop oil concentrate	1 % v/v	C	POST			57
AMS	8.5 lb/100 gal	C	POST			
16 Laudis	3 fl oz/a	C	POST		3	2
Crop oil concentrate	1 % v/v	C	POST			83
AMS	8.5 lb/100 gal	C	POST			
LSD P=.05				3.5	5.2	9.8
Standard Deviation				2.0	3.0	5.6
CV				33.85	19.42	6.67
					10.4	7.8
					6.2	4.7
					49.41	38.98
						9.5
						5.7
						7.47

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Rating Date	Jun-16-2025	Jun-16-2025	Jun-30-2025	Jun-30-2025
Rating Type	injury	control	injury	control
Rating Unit	%	%	%	%
Crop Type, Code	C, AVESP		C, AVESP	
Pest Code		SETFA		SETFA
Treatment Appl. Interval	28 DA-C	28 DA-C	42 DA-C	42 DA-C
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl	Appl	
No. Name	Rate Unit	Code	Timing	
1 Prowl H2O	2 pt/a	A	DPRE	3 98 3 99
2 Zidua SC	3 fl oz/a	A	DPRE	47 83 33 73
3 Dual II Magnum	1 pt/a	A	DPRE	0 88 0 96
4 Diuron	1.5 lb/a	A	DPRE	2 89 0 88
5 Prowl H2O	2 pt/a	B	EPOS	5 100 3 99
6 Zidua SC	3 fl oz/a	B	EPOS	60 88 43 79
7 Dual II Magnum	1 pt/a	B	EPOS	13 100 3 99
8 Diuron	1.5 lb/a	B	EPOS	5 95 0 99
9 Untreated				0 0 0 0
10 Shieldex	1.35 fl oz/a	B	EPOS	0 40 0 27
Crop oil concentrate	1 % v/v	B	EPOS	
AMS	8.5 lb/100 gal	B	EPOS	
11 Optogen	3.5 fl oz/a	B	EPOS	0 73 0 68
Crop oil concentrate	1 % v/v	B	EPOS	
AMS	8.5 lb/100 gal	B	EPOS	
12 Laudis	3 fl oz/a	B	EPOS	0 50 0 57
Crop oil concentrate	1 % v/v	B	EPOS	
AMS	8.5 lb/100 gal	B	EPOS	
13 Diuron	1.5 lb/a	C	POST	0 72 0 70
Surfactant	0.25 % v/v	C	POST	
14 Shieldex	1.35 fl oz/a	C	POST	3 40 0 33
Crop oil concentrate	1 % v/v	C	POST	
AMS	8.5 lb/100 gal	C	POST	
15 Optogen	3.5 fl oz/a	C	POST	3 60 0 57
Crop oil concentrate	1 % v/v	C	POST	
AMS	8.5 lb/100 gal	C	POST	
16 Laudis	3 fl oz/a	C	POST	3 70 0 71
Crop oil concentrate	1 % v/v	C	POST	
AMS	8.5 lb/100 gal	C	POST	
LSD P=.05				10.3 11.7 9.2 13.2
Standard Deviation				6.2 7.0 5.5 7.9
CV				68.35 9.75 102.05 11.31