

# Rattail Fescue Control in Winter Wheat Study

163-0304-H-SWWW

<b>Location:</b> Gerald Hodson	<b>Seeding Date:</b> October 15, 2003
<b>Branch:</b> Tammany	<b>Soil Texture:</b> Silt loam
<b>Rainfall (Ave.):</b> 15 inch	<b>% Organic Matter:</b> 1.99
<b>Crop:</b> Winter wheat	<b>pH:</b> 7.6
<b>Variety:</b> Clearfirst	
<b>Rotation:</b> 2003 Chemical fallow 2002 Winter wheat	

	Pre-Emergence Conditions	Spring Applications Conditions
Date Treated	October 24, 2003	April 9, 2004
Air Temperature	50°	57°
Soil Temperature	50°	60°
Wind	0 – 3	2 – 4
Gallons/ac	20	20
Pressure	48	24
Nozzle	AI 110015	8002
Stage of Growth	wheat sprouted, seeded 2 ½" deep	Wheat 3 – 4 tillers Rattail fescue 3 leaf – 3 tillers D. Brome up to 6 tillers 2-3" across

	Pre-Emerg.	Spring Applications	Rate	% Control (6/4/04)	
				Rattail	D' Brome
1.	Axiom		10 oz.	94	73
2.	Axiom		12 oz.	99	89
3.	Define		9.6 oz.	99	0
4.	Sencor		3 oz.	61	10
5.	Sencor		4 oz.	48	15
6.	Diuron 80DF		24 oz.	35	23
7.	Prowl H <sub>2</sub> O		24 oz.	44	5
8.	Axiom	Beyond + UN32 + M-90	10 oz. / 4 oz. + 2.5% + 0.25%	100	90
9.	Axiom	Maverick + M-90	10 oz. / 0.67 oz. + 0.5%	98	100
10.	CHECK	-----	-----	---	---
11.	Axiom	Olympus + M-90	10 oz. / 0.9 oz. + 0.5%	99	98
12.	Axiom	Sencor + M-90	10 oz. / 5 oz. + 0.25%	99	96
13.	Axiom	Osprey + UN32 + M90	10 oz. / 4.75oz. + 4pt. + 0.5%	93	80
14.	Prowl H <sub>2</sub> O	Beyond + UN32 + M-90	24 oz. / 4 oz. + 2.5% + 0.25%	88	89
15.	Prowl H <sub>2</sub> O	Maverick + M-90	24 oz. / 0.67 oz. + 0.5%	93	63
16.	CHECK	-----	-----	---	---
17.	Prowl H <sub>2</sub> O	Olympus + M-90	24 oz. / 0.9 oz. + 0.5%	64	86
18.	Prowl H <sub>2</sub> O	Sencor + M-90	24 oz. / 5 oz. + 0.25%	74	58
19.	Prowl H <sub>2</sub> O	Osprey + UN32 + M90	24 oz. / 4.75oz. + 4pt. + 0.5%	61	48
20.		Beyond + UN32 + M-90	4 oz. + 2.5% + 0.25%	84	98
21.		Maverick	0.67 oz. + 0.5%	48	74
22.		Olympus + M-90	0.9 oz. + 0.5%	10	68
23.		Sencor + M-90	5 oz. + 0.25%	29	23
24.		Osprey + UN32 + M90	4.75 oz. + 4pt. + 0.5%	40	78

## Comments

This trial was located near Anatone, Washington. This field had a history of a problem with rattail fescue. The field was winter wheat chemical fallow, which was fertilized with the McGregor Highlander and seeded to Clearfirst with a Great Plains 3010 minimum till drill on October 15, 2003. After the wheat had sprouted we applied the Pre-emergence treatments on October 24<sup>th</sup>. Spring applications were made on April 9<sup>th</sup> when the wheat had 3-4 tillers, rattail fescue was 3 leaf-3 tillers, and the downy brome had up to 6 tillers. There was no injury observed from any of the treatments.

## Direct Comparisons

### PREEMERGENCE APPLICATIONS

	Pre-Emerg.	Spring Applications	Rate	% Control (6/4/04)	
				Rattail	D' Brome
1.	Axiom		10 oz.	94	73
2.	Axiom		12 oz.	99	89
3.	Define		9.6 oz.	99	0
4.	Sencor		3 oz.	61	10
5.	Sencor		4 oz.	48	15
6.	Diuron 80DF		24 oz.	35	23
7.	Prowl H <sub>2</sub> O		24 oz.	44	5

We currently have an emergency label in Idaho for a maximum rate of 10 ounces of Axiom. We found in this trial that it is quite active on rattail fescue. Axiom is made up of two active ingredients, Define and Sencor. A ten ounce rate of Axiom contains 9.6 ounces of Define and 2 ounces of Sencor. Surprisingly, Define by itself had no activity on the downy brome.

### SPRING POSTEMERGENCE APPLICATIONS

	Pre-Emerg.	Spring Applications	Rate	% Control (6/4/04)	
				Rattail	D' Brome
20.		Beyond + UN32 + M-90	4 oz. + 2.5% + 0.25%	84	98
21.		Maverick	0.67 oz. + 0.5%	48	74
22.		Olympus + M-90	0.9 oz. + 0.5%	10	68
23.		Sencor + M-90	5 oz. + 0.25%	29	23
24.		Osprey + UN32 + M90	4.75 oz. + 4pt. + 0.5%	40	78

Beyond in the spring did an acceptable job on the rattail and an excellent job on the downy brome. We also found Maverick had better activity on Rattail than Olympus.

**AXIOM PRE-EMERGENCE/SPRING POST EMERGENCE APPLICATIONS**

Pre-Emerg.	Spring Applications	Rate	% Control (6/4/04)	
			Rattail	D' Brome
1. Axiom		10 oz.	94	73
8. Axiom	Beyond + UN32 + M-90	10 oz. / 4 oz. + 2.5% + 0.25%	100	90
9. Axiom	Maverick + M-90	10 oz. / 0.67 oz. + 0.5%	98	100
11. Axiom	Olympus + M-90	10 oz. / 0.9 oz. + 0.5%	99	98
12. Axiom	Sencor + M-90	10 oz. / 5 oz. + 0.25%	99	96
13. Axiom	Osprey + UN32 + M90	10 oz. / 4.75oz. + 4pt. + 0.5%	93	80

With Axiom down in the fall all of the products in the above comparisons did an excellent job of controlling the remaining rattail fescue. The downy brome control was also very good, with the exception of Osprey.

**PROWL PRE-EMERGENCE/SPRING POST EMERGENCE APPLICATIONS**

Pre-Emerg.	Spring Applications	Rate	% Control (6/4/04)	
			Rattail	D' Brome
7. Prowl H <sub>2</sub> O		24 oz.	44	5
14. Prowl H <sub>2</sub> O	Beyond + UN32 + M-90	24 oz. / 4 oz. + 2.5% + 0.25%	88	89
15. Prowl H <sub>2</sub> O	Maverick + M-90	24 oz. / 0.67 oz. + 0.5%	93	63
17. Prowl H <sub>2</sub> O	Olympus + M-90	24 oz. / 0.9 oz. + 0.5%	64	86
18. Prowl H <sub>2</sub> O	Sencor + M-90	24 oz. / 5 oz. + 0.25%	74	58
19. Prowl H <sub>2</sub> O	Osprey + UN32 + M90	24 oz. / 4.75oz. + 4pt. + 0.5%	61	48

Pre-emergence applications of Prowl by itself and in combination with spring treatments were evaluated. The prowl, which is not registered on wheat, did not perform as well as Axiom.