

Foxtail control with A15351A in spring wheat, Carrington, 2008. (Greg Endres). The experiment was conducted at the NDSU Carrington Research Extension Center on a conventionally-tilled Heimdahl loam soil with 6.8 pH and 2.8% organic matter. The experimental design was a randomized complete block with three replicates. 'Glenn' HRS wheat was seeded April 30. Herbicide treatments were applied with a CO₂-hand-boom plot sprayer delivering 10 gal/A at 35 psi through 8001 flat fan nozzles to the center 6.7 ft of 10 by 25 ft plots. POST treatments were applied on June 14 with 51 F, 91% RH, clear sky, and 9 mph wind to 4- to 5-leaf wheat and 1- to 3-leaf yellow and green foxtail. Average plant density in untreated plots on June 16: wheat, 53 plants/ft² and 65 foxtail plants/ft².

Minor wheat height reduction was noted 12 days after application with several treatments (Table), but was not present on July 14. Foxtail control ranged from 84-93% with all herbicide treatments one month after application. A15351A provided 90% foxtail control when evaluated on August 7.

Table.					
Herbicide		Wheat response ¹		Foxtail control ²	
Treatment		Rate	6/26	7/11	8/14
No.		fl oz product/A	% injury	%	
1	A15351A	8.85	0	87	80
	Adigor	9.6			
2	A15351A	8.85	1	88	81
	Adigor	9.6			
	MCPAe	5.3			
3	A15351A	8.85	0	92	90
	Adigor	9.6			
	Starane	5.3			
4	A15351A	8.85	3	87	72
	Adigor	9.6			
	Starane	5.3			
	Sword	12			
5	A15351A	8.85	1	88	76
	Adigor	9.6			
	Starane NXT	14			
6	A15351A	8.85	0	86	71
	Adigor	9.6			
	Bronate Advanced	12.8			
7	A15351A	8.85	0	84	73
	Adigor	9.6			
	Bromac	16			
8	A15351A	8.85	0	87	82
	Adigor	9.6			
	WideMatch	10			
9	Puma	8	0	93	88
	Huskie	11			
	UAN	32			
10	Puma	8	0	91	82
	Bronate Advanced	12.8			
11	Puma	8	0	91	86
	WideMatch	16			
	MCPAe	12			
C.V. (%)			253.6	4.2	7.8
LSD (0.05)			NS	NS	11
¹ injury=height reduction.					
² foxtail=yellow and green.					