

Foxtail control with Discover in HRS wheat, Carrington, 2003

Endres

The experiment was conducted on a Heimdahl loam soil with 7.2 pH and 3.4% organic matter at the NDSU Carrington Research Extension Center. The experimental design was a randomized complete block with three replicates. 'ND751' HRS wheat was planted on May 16. Herbicide treatments were applied with a CO₂-hand-boom plot sprayer delivering 10 gal/A at 30 psi through 8001 flat fan nozzles to the center 6.7 ft of 10 by 25 ft plots. Treatments were applied on June 6 with 65 F, 53% RH, 30% clear sky, and 5 mph wind to 4-leaf wheat and 1- to 3-leaf yellow and green foxtail. Average wheat density on June 9 in untreated plots was 6 plants/ft² and foxtail density was 38 plants/ft². The trial was harvested with a plot combine on August 26.

Treatment	Herbicide	Rate fl oz product/A	Weed control		HRS wheat	
			6/23 Fota ^a	7/2	Seed yield bu/A	Test weight lb/bu
untreated check		x	0	0	12.6	59.0
Discover 60EC		12.8	95	96	38.0	60.4
Discover 60EC+Bronate Advanced		12.8+12.8	90	88	39.7	60.6
Discover 60EC+HarmonyExtra+Starane		12.8+0.3 oz+5.3	77	72	29.4	59.8
Discover 60EC+MCPAe+Clarity		12.8+8+2	91	90	31.7	62.4
Discover 60EC+HarmonyGT+Starane		12.8+0.3oz+5.3	69	47	18.8	59.0
Discover 60EC+CurtailM		12.8+28	77	68	25.0	59.5
Discover 2EC		3.2	90	91	39.3	60.4
LSD (0.05)			2	17	8.9	NS

^aFota=yellow and green foxtail.

Good to excellent foxtail control (88 to 96%), primarily yellow foxtail, and highest yields were obtained with Discover 60EC alone or with tank mixtures of Bronate Advanced and MCPAe+Clarity, and Discover 2EC. Crop injury from herbicides was not detected.