<u>Foxtail control in hard red spring wheat, Carrington, 2002.</u> (Endres and Howatt) The experiment was conducted on a Heimdahl loam soil with 6.9 pH and 3.1% organic matter at the NDSU Carrington Research Extension Center. The experimental design was a randomized complete block with three replicates. 'Munich' durum wheat was planted on May 29. Herbicide treatments were applied with a CO₂-hand-boom plot sprayer delivering 8.5 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 24 with 73 F, 83% RH, 25% clear sky, and 9 mph wind to 3.5- to 4-leaf wheat and 1- to 3-leaf yellow and green foxtail. Average wheat density on July 1 was 10 plants/ft² and foxtail density was 21 plants/ft². Glyphosate at 0.75 lb/A + AMS at 5% v/v was applied across the trial for preharvest burn-down of foxtail. The trial was harvested for seed yield with a plot combine on September 12.

			W eed control			
Herbicide		7/9	7/16		8/19	Seed
Treatm ent	Rate	Fota ^a	Yeft	Grft	Fota	yield
	oz a.i./A		%%		bu/A	
m m b + T h if& T r ib + A c t 9 0	5+0.22+0.25%	76	50	70	48	9.3
= lcz + T h if& T rib + 2 ,4 - D - S a lv o + A c t 9 0	0.42+0.22+4+0.25%	93	93	99	86	9.9
Clfp + Brox & M C P A 5 + S core	0.8+8+1%	83	86	95	66	8.6
enx+Brox&MCPA5	0.8+8	8 0	70	90	62	12.9
「ral+Brox&MCPA5+Supercharge	2.9+8+0.5%	94	86	94	77	14.2
Elcz+Fenx+Brox&MCPA5+Act90	0.42+0.8+8+0.25%	79	85	90	47	5.2
Flcz+Fenx+Brox&MCPA5+Act90	0.21+0.6+8+0.25%	70	72	88	4 5	6.2
- Icz + C Ifp + B rox & M C P A 5 + S core + A ct90	0.42+0.8+8+1%+0.25%	85	93	98	75	11.3
- Icz + C Ifp + B rox & M C P A 5 + S core + A ct90	0.21+0.6+8+1%+0.25%	80	82	95	73	11.7
Dife+Thif&Trib	12+0.22	70	69	72	4 3	4.8
D ife + Im m b + T h if& T rib + A c t9 0	3.7+8+0.22+0.25%	74	70	73	59	11.8
untreated	0	0	0	0	0	5.2
SD (0.05)		12	12	9	22	N S

^aFota=yellow and green foxtail.

Good to excellent green foxtail control (88 to 99%) was present on July 16 with all treatments except with Assert and Avenge. Yellow foxtail control was 82 to 93% on July 16 with Discover, Achieve, and all Everest treatments except with the reduced rates of Everest + Puma. In August, foxtail control declined with mid-summer rain and as the crop approached physiological maturity. Crop injury from herbicides was not detected.