

**Foxtail control with Silverado, Everest, and Rimfire with various adjuvants at Rosemount, MN - 2006.** Durgan, Beverly R., Krishona Martinson, and Douglas Miller. The objective of this experiment was to evaluate foxtail control with Silverado (mesosulfuron), Everest (flucarbazone), and Rimfire (propoxycarbazone & mesosulfuron) alone and in combination with several adjuvants. The experiment was conducted at Rosemount, MN on a Waukegon silt loam soil. Following soybeans, the experimental area was fall chisel plowed. In the spring, the area was fertilized with 50 lbs/A N and 70 lbs K. The field was disked once, field cultivated once, and harrowed twice. 'Alsen' hard red spring wheat was seeded on May 10 at 90 lbs/A. The experimental design was a randomized complete block with three replications. Plot size was 10 by 24 ft. All herbicide treatments were applied with a backpack type sprayer delivering 10 gpa at 35 psi using 11001 flat fan nozzles. Application data and environmental conditions are listed below. Crop injury and foxtail control were rated visually. Yields were measured. All data are presented in the table below.

Treatment Date	June 7
Foxtail	
stage	2-6 leaf (average = 3 leaf)
height (inch)	0.5 to 4 (average = 1.5)
density (#/ft <sup>2</sup> )	4.9
Wheat	
stage	5.5 leaf
tillers	4
height (inch)	7-9
Air temperature (°F)	83
Relative humidity (%)	33
Dewpoint (°F)	51
Sky	clear
Wind	N 5-10
Soil conditions	moist at 0.5"
Rainfall before Application	
Week 1 (inch)	0.63
Rainfall after Application	
Week 1 (inch)	0.23
Week 2 (inch)	0.69

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Treatment	Rate Product/A	Foxtail	Wheat Injury			Wheat
		Control 7/27 (%)	6/21 (%)	7/11 (%)	7/27 (%)	Yield (Bu/A)
Silverado	1.78 oz	17	0	0	0	49
Silverado + Destiny	1.78 oz + 1.5 pt	50	0	0	0	45
Silverado + Bronate Advanced + Destiny	1.78 oz + 0.8 pt + 1.5 pt	65	0	2	0	44
Silverado + AG 05006	1.78 oz + 0.75 pt	40	0	0	0	47
Silverado + AG 05006	1.78 oz + 1 pt	77	0	0	0	49
Silverado + AG 05006	1.78 oz + 1.5 pt	77	0	0	0	47
Silverado + AG 05055	1.78 oz + 1.5 pt	73	2	3	2	41
Silverado + MCPA-Ester + Starane + Destiny	1.78 oz + 0.25 pt + 0.66 pt + 1.5 pt	53	0	0	0	43
Everest	0.4 oz	80	0	0	0	42
Everest + Destiny	0.4 oz + 0.8 pt	83	3	2	3	38
Everest + AG 05006	0.4 oz + 0.4 pt	83	2	0	0	40
Everest + AG 05006	0.4 oz + 0.6 pt	77	0	0	3	41
Everest + AG 05006	0.4 oz + 0.8 pt	85	2	0	5	39
Everest + AG 05055	0.4 oz + 1.2 pt	85	0	2	0	37
Everest + Quad 7	0.4 oz + 0.8 pt	85	0	2	0	40
Rimfire	1.76 oz	70	0	0	0	54
Rimfire + Destiny	1.76 oz + 0.8 pt	75	0	0	0	52
Rimfire + AG 05006	1.76 oz + 0.4 pt	60	0	0	0	49
Rimfire + AG 05006	1.76 oz + 0.6 pt	73	0	2	0	45
Rimfire + AG 05006	1.76 oz + 0.8 pt	75	2	2	0	48
Rimfire + AG 05055	1.76 oz + 1.2 pt	68	0	0	0	44
Rimfire + CL 9804	1.76 oz + 2 pt	72	0	0	0	42
Rimfire + Quad 7	1.76 + 0.8 pt	73	2	0	0	45
Rimfire + Preference + N-Pak AMS	1.76 oz + 0.4 pt + 3.5 pt	68	2	0	0	42
Rimfire + Bronate Advanced + Destiny	1.76 oz + 0.8 pt + 0.8 pt	77	0	2	0	37
Rimfire + Bronate Advanced + Quad 7	1.76 oz + 0.8 pt + 0.8 pt	73	2	2	0	42
Rimfire + Bronate Advanced + NIS + N-Pak AMS	1.76 oz + 0.8 pt + 0.4 pt + 3.5 pt	82	2	0	0	44
Puma	0.67 pt	98	3	2	0	41
Discover NG	12.8 oz	93	2	3	0	40
Weedy Check	--	--	0	0	0	38
LSD (0.05)		26	ns	ns	3	9

Silverado 2 WDG = mesosulfuron.

Destiny = methylated soybean oil and nonionic surfactant blend.

Bronate Advanced 5E = bromoxynil (2.5 lb ai/gal) & MCPA (2.5 lb ae/gal).

AG 05006 = experimental adjuvant from Agrilience.

AG 05055 = experimental adjuvant from Agrilience.

Starane 1.5 E = fluroxypyr.

Everest 70 WG = flucarbazone.

Quad 7 = ammonium salt, buffering agent, and surfactant blend.

Rimfire 10.2 WDG = propoxycarbazone (8.14%) & mesosulfuron (2.03%).

CL 9804 = adjuvant.

Preference = nonionic surfactant.

N-Pak AMS = ammonium sulfate solution.

Puma 1EC = fenoxaprop and safener

Discover NG 0.5 EC = clodinafop and cloquintocet (safener).