

Wild oat control with Silverado, Everest, and Rimfire with various adjuvants at Crookston, MN - 2006. Durgan, Beverly R., Jochum Wiersma, Jim Cameron, and Douglas Miller. The objective of this experiment was to evaluate wild oat control with Silverado (mesosulfuron), Everest (flucarbazone), and Rimfire (propoxycarbazone & mesosulfuron) alone and in combination with several adjuvants. The experiment was conducted at Crookston, MN on a Donaldson and Wheaton loam soil. Following weedy fallow, the experimental area received 100 lb/A of N and was fall plowed. In the spring of the following year, the experimental area was disked and harrowed. 'Alsen' hard red spring wheat was seeded on May 12 at 1.5 Bu/A. All herbicide treatments were applied with a backpack type sprayer delivering 10 gpa at 30 psi using 80015 flat fan nozzles. The experimental design was a randomized complete block with three replications and plot size was 10 by 16 ft. Application data and environmental conditions are listed below. Crop injury and wild oat control were visually rated. Yields were measured. All data are presented in the table below.

Treatment Date	June 1
Wheat stage	3.5 leaf
Wild oat stage	3 leaf
Air temperature (°F)	70
Relative humidity (%)	55
Soil temperature (°F)	62
Wind	W 4 mph
Rainfall before Application	
Week 1 (inch)	0.11
Rainfall after Application	
Week 1 (inch)	0.64
Week 2 (inch)	0.13

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Treatment	Rate Product/A	Wild Oat Control		Wheat Injury				Wheat
		7/3 (%)	7/12 (%)	6/8 (%)	6/15 (%)	7/3 (%)	7/12 (%)	Yield (Bu/A)
Silverado	1.78 oz	72	83	2	0	0	0	47
Silverado + Destiny	1.78 oz + 1.5 pt	100	98	2	2	3	0	50
Silverado + Bronate Advanced + Destiny	1.78 oz + 0.8 pt + 1.5 pt	100	96	3	2	7	0	44
Silverado + AG 05006	1.78 oz + 0.75 pt	100	99	5	3	7	0	47
Silverado + AG 05006	1.78 oz + 1 pt	100	99	2	2	0	0	49
Silverado + AG 05006	1.78 oz + 1.5 pt	100	99	5	2	3	0	51
Silverado + AG 05055	1.78 oz + 1.5 pt	100	99	2	0	0	0	49
Everest	0.4 oz	97	99	0	0	0	0	48
Everest + Destiny	0.4 oz + 0.8 pt	100	99	2	0	0	0	46
Everest + AG 05006	0.4 oz + 0.4 pt	100	99	3	3	0	0	51
Everest + AG 05006	0.4 oz + 0.6 pt	100	99	0	3	0	0	51
Everest + AG 05006	0.4 oz + 0.8 pt	100	99	5	7	20	3	44
Everest + AG 05055	0.4 oz + 1.2 pt	100	99	3	2	3	3	50
Everest + Quad 7	0.4 oz + 0.8 pt	100	99	5	3	17	0	46
Rimfire	1.76 oz	96	99	2	2	0	0	47
Rimfire + Destiny	1.76 oz + 0.8 pt	100	99	3	0	3	0	48
Rimfire + AG 05006	1.76 oz + 0.4 pt	100	99	7	2	0	0	44
Rimfire + AG 05006	1.76 oz + 0.6 pt	100	99	5	2	0	0	50
Rimfire + AG 05006	1.76 oz + 0.8 pt	100	96	5	0	0	0	45
Rimfire + AG 05055	1.76 oz + 1.2 pt	100	99	0	0	0	0	47
Rimfire + CL 9804	1.76 oz + 2 pt	100	99	2	3	0	0	48
Rimfire + Quad 7	1.76 + 0.8 pt	100	99	5	3	0	0	42
Rimfire + Preference + N-Pak AMS	1.76 oz + 0.4 pt + 3.5 pt	100	99	5	2	10	0	49
Rimfire + Bronate Advanced + Destiny	1.76 oz + 0.8 pt + 0.8 pt	100	99	3	5	3	0	46
Rimfire + Bronate Advanced + Quad 7	1.76 oz + 0.8 pt + 0.8 pt	100	99	5	5	13	0	45
Rimfire + Bronate Advanced + NIS + N-Pak AMS	1.76 oz + 0.8 pt + 0.4 pt + 3.5 pt	100	99	3	2	5	3	45
Puma	0.67 pt	100	99	0	0	0	0	46
Weedy Check	--	--	--	0	0	0	0	22
LSD (0.05)		5	3	ns	ns	6	ns	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.

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