

**2003 Wild Oat Control in Spring Wheat at Hettinger.** (Eriksmoen) Reeder hard red spring wheat was seeded on April 24. Treatments 1 - 8 were applied to 3 ½ leaf wheat and to 2 leaf wild oats on May 28 with 78 F, 30 % RH, partly cloudy sky and 6 mph NW wind. Treatments 9 - 11 were applied on May 29 with 80 F 53 % RH, partly cloudy sky and 7 mph W wind. All treatments were applied with a tractor mounted CO<sup>2</sup> propelled plot sprayer delivering 10 gpa at 40psi through 8001.5 flat fan nozzles to a 5 foot wide area the length of 10 by 28 foot plots. The experiment was a randomized complete block design with four replications. Wild oat population was 4 plants per sq. foot. Evaluations for crop injury were on June 12 and July 26, and for wild oat control on June 27 and July 26. The trial was harvested on July 30.

Treatment	Product Rate	6/12	6/27	July 26		7/30	
		HRSW	Wiot	HRSW	Wiot	Yield	
		----- % Control -----				bu/A	
1	Assert + HarmExt + 2,4-D + NIS	16 + 0.3 + 8 + 0.25%	0.25	87	0	99	26.1
2	Everest + HarmExt + 2,4-D + Quad 7	0.6 + 0.3 + 8 + 1%	8.75	99	1.25	99	23.9
3	Discover + Bronate Advance + Score	3.2 + 12.8 + 1%	0.25	99	0	99	26.3
4	Puma + Bronate Advance	10.6 + 12.8	0.25	99	0	99	26.0
5	Achieve + Bronate Adv + Superchge + AMS	7.25 + 12.8 + 0.5% + 1%	0.50	99	0	99	25.9
6	Everest + Puma + Bronate Adv + Quad 7	0.3 + 7.9 + 12.8 + 1%	1.50	99	0	99	29.1
7	Everest + Callisto + 2,4-D + Quad 7	0.3 + 0.38 + 8 + 1%	6.25	99	1.25	99	24.1
8	Avenge + Assert + HarmExt + 2,4-D + NIS	15 + 8 + 0.3 + 8 + 0.25%	1.50	99	0	99	24.5
9	Everest + Bronate Adv.	0.6 + 12.8	5.00	99	0.5	99	22.3
10	Everest + Clarity + Quad 7	0.6 + 3 + 0.5%	7.50	99	1.75	99	20.8
11	Everest + Starane + 2,4-D + Quad 7	0.6 + 4 + 8 + 0.5%	5.00	99	1.75	99	21.3
12	Untreated		0	0	0	0	23.5
C.V. %			54.5	7.9	248	0	13.4
LSD 5%			2.40	10	ns	0	4.7

### Summary

Statistically significant crop injury was observed on June 12 for all Everest treatments except for Everest treatment 6. This injury (stunting) tended to diminish through the growing season. Wild oat control was excellent with 99 percent control at crop maturity for all herbicide treatments. Everest + Puma (treatment 6) was the only herbicide treatment with a significantly higher yield than the untreated check.