

## Wild oat control with Everest applied preemergence and/or early POST

'Steele' spring wheat was seeded May 9 at 90 lb/A into 7.5 inch rows. Herbicide treatments were applied preemergence (PRE) on May 11, postemergence at wheat 2-3 leaf stage on May 23, and at wheat 4-5 leaf stage on June 12. On May 11, no weeds were present. On May 23, wild oat was at the 2-leaf stage with approximately 6-8 plants/ft<sup>2</sup>. On June 12, wild oat was 3-4-leaf with 1-12 plants/ft<sup>2</sup>. Individual plots were 10 x 30 ft and replicated three times.

We received no rainfall until May 24, almost 2 weeks after the preemergence application. The rain we received seemed only enough to settle the dust and was probably not enough to solidly incorporate and activate the herbicide. Very little injury was visible from the PRE treatments. At least 10% injury was visible during the month of June in the form of stunting from the POST treatments. Crop injury was less apparent in July. Wheat height as measured on July 3 showed Everest treatments generally slightly shorter (~1-4 inches) compared to the untreated or Puma.

The PRE treatments provided much less wild oat control compared to the POST treatments. The two PRE rates provided similar wild oat control through mid-June. We received our first significant rain in mid-June. By the end of June, the 0.6 oz rate was clearly providing more wild oat control than the 0.4 oz rate, but not as much as the POST treatments. The PRE treatments only reduced wild oat stand by about 25% compared to treatments receiving only POST applications. The 0.6 oz PRE and all POST treatments provided slightly higher wheat yield than Puma and the untreated. It is not clear why the Puma treatment performed so poorly in this study.

Rate	Timing	Wheat				Wild oat				
		May 30	Jun 12	Jun 27	Jul 12	May 30	Jun 12	Jun 27	Jul 12	Aug 2
		-----% injury-----				-----% control-----				
		0	0	0	0	0	0	0	0	0
0.8 pt	4-5 lf	0	0	0	0	0	0	0	0	0
0.4 oz/0.8 pt	PRE/4-5 lf	2	0	0	0	33	33	38	37	37
0.6 oz/0.8 pt	PRE/4-5 lf	4	0	0	0	38	37	53	57	63
0.3 oz/0.3 oz + 0.8 pt	PRE/2-3 lf	10	15	10	4	84	95	95	95	95
0.2 oz/0.4 oz + 0.8 pt	PRE/2-3 lf	10	15	11	5	87	96	95	97	96
0.4 oz+0.8 pt	2-3 lf	12	12	11	4	85	95	95	96	94
0.66 pt+0.8pt	4-5 lf	0	0	0	0	0	0	53	48	55
		2	2	1	1	4	4	10	11	12
		28	20	15	49	6	5	10	11	12

<sup>a</sup> All Bronate formulations used were Bronate Advanced.