

**Study Name:** Wild oat control in spring wheat with Everest applied PRE and/or POST (0705)

**Objectives:** Evaluate residual wild oat control with Everest applied PRE and/or POST in HRSW

**Results:**

'Glenn' spring wheat was seeded April 25 at 90 lb/A into 7.5-inch rows in a conventionally tilled field. Herbicide treatments were applied preemergence (PRE) on May 1, at 2-leaf wheat stage on May 12, or 5-leaf wheat stage on June 4. Wild oat densities averaged 5-10 plants per sq ft, but were erratic. Foxtail present was a mixture of green and yellow foxtail with 5-25 plants per sq ft. Individual plots were 10 x 30 ft and replicated three times.

We observed some crop stunting in June with all Everest treatments (17-21%), but stunting subsided to less than 10% by July. Evaluated in early July, wild oat control with Everest applied PRE provided poor wild oat control (48%). Everest applied PRE followed by a POST application at the 2-leaf stage provided only fair wild oat control (68-80%). Puma applied at 5-leaf wheat stage provided 91% wild oat control. Similar results were observed for foxtail control with Everest and Puma. Everest provided only 50-73% foxtail control, while Puma provided 90% control.

Soil activity with Everest may have been hindered by excessive rainfall. Approximately 13 inches of rain fell during May and early June, which may have leached the herbicide below the weed seed germination zone.

Treatment <sup>a</sup>	Rate	Timing	Wheat		Wild oat		Foxtail		Height	Yield	TW
			% injury		-----% control-----				inches	bu/A	lb/bu
			June 2	July 19	June 2	July 5	June 19	July 5	July 9	Aug 16	Aug 16
Untreated			0	0	0	0	0	0	37.3	7.6	58.7
Everest	0.4oz	PRE	17	5	69	48	55	50	36.3	33.4	61.3
Everest / Everest	0.2oz / 0.2oz	PRE/ 2-leaf	21	9	90	68	69	62	36.3	30.9	61.5
Everest / Everest	0.3oz / 0.2oz	PRE/ 2-leaf	21	9	89	69	68	65	35.5	39.6	61.9
Everest / Everest	0.4oz / 0.2oz	PRE/ 2-leaf	22	8	92	71	73	66	34.3	31.6	59.8
Everest	0.4oz	2-leaf	18	8	93	80	74	73	35.4	35.9	61.2
Puma	0.67pt	5-leaf	0	0	0	91	90	90	36.7	32.6	61.6
LSD (0.05)			2.2	3.1	2.4	8	11.1	11.5	3.3	12	2.7
CV			9	31	2	7	10	11	2	23	2.5

<sup>a</sup> Bronate Advanced (0.8 pt) was applied with all postemergence treatments; Glyphosate (0.375 lb ae) + NIS (0.25% v/v) + AMS (2.94 gal/100gal) was applied preemergence to all treatments.