

Yellow foxtail control with MKH6562 and fenoxaprop combinations. Howatt, Kirk A., Ronald F. Roach, and Janet D. Harrington. An experiment was established to determine the rate of fenoxaprop needed to achieve acceptable yellow foxtail control with MKH6562. A tank-mix of the two chemicals may be needed for grass control in fields with ACC-ase resistant wild oat and high yellow foxtail populations. "Oxen" hard red spring wheat was seeded May 2. Treatments were applied to 6.5 leaf wheat and 4.5 to 5.5 leaf yellow foxtail, on June 17 with 69 F, 44% relative humidity, and 95% cloudcover. Treatments were applied with a backpack type sprayer delivering 8.5 gpa at 40 psi through 11001 flat fan nozzles to a 7 ft wide area the length of 10 by 30 ft plots. Yellow foxtail population was 50 plants/ft². A 4 by 30 ft area of each plot was harvested on August 8. The experiment was a randomized complete block design with four replicates.

Wheat injury, temporary chlorosis and stunting were 11% with 0.42 oz/A MKH6562 on June 25. Wheat injury also was observed at 0.28 oz/A MKH6562 alone, but injury from tank-mixes of MKH6562 and fenoxaprop was similar to the untreated control. Wheat injury was not detectable on July 1. Yellow foxtail control tended to increase with increasing fenoxaprop rate, and fenoxaprop activity tended to be reduced by the addition of MKH 64562. (Dept. of Plant Science, North Dakota State University, Fargo).

Table. Yellow foxtail control with MKH6562 and fenoxaprop combinations (Howatt, Roach, and Harrington).

Treatment ^a	Rate (oz/A)	Jun 25		Jul 01	Jul 23	Aug 08
		Wheat injury (%)	SETLU (%)	SETLU (%)	SETLU (%)	Yield (bu/A)
MKH6562+NIS	0.42+0.25%	11	78	84	81	33
MKH6562+NIS	0.28+0.25%	6	65	69	75	37
MKH6562+fenoxaprop+NIS	0.35+0.33+0.25%	0	84	84	90	43
MKH6562+fenoxaprop+NIS	0.35+0.5+0.25%	2	86	87	93	40
MKH6562+fenoxaprop+NIS	0.35+0.66+0.25%	1	87	90	93	41
MKH6562+fenoxaprop+NIS	0.28+0.33+0.25%	1	87	88	90	43
MKH6562+fenoxaprop+NIS	0.28+0.5+0.25%	2	88	91	93	40
MKH6562+fenoxaprop+NIS	0.28+0.66+0.25%	1	89	93	93	41
MKH6562+fenoxaprop+NIS	0.21+0.33+0.25%	1	90	89	93	42
MKH6562+fenoxaprop+NIS	0.21+0.5+0.25%	2	91	95	95	42
MKH6562+fenoxaprop+NIS	0.21+0.66+0.25%	0	92	96	97	41
Fenoxaprop	0.5	0	97	98	99	38
Fenoxaprop	0.8	0	98	98	99	39
Untreated	0	0	0	0	0	38
LSD 5%		2	2	4	5	14
CV		77	2	4	4	8

^aNIS was Activator 90 from Loveland Industries, Greeley, CO.