Wild oat control with AE F130060. Howatt, Kirk A., Ronald F. Roach, Janet D. Harrington, and Kevin B. Thorsness. An experiment was conducted to evaluate wheat response to AE F130060 and compare wild oat control of this compound with commercial standards. "Oxen" hard red spring wheat was seeded on May 2. Treatments were applied to 3.5 leaf tillering wheat and wild oat on June 4, with 56 F and 27% relative humidity, 10% cloudcover, 7 mph northeast wind and soil temperature of 58 F. Treatments were applied with a backpack 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. Wild oat population was greater than 300 plants/ft^2. A 4 by 30 ft area from each plot was harvested on August 5. The experiment was a randomized complete block design with four replicates.

Herbicide treatments did not cause noticeable crop injury. On June 13, fenoxaprop provided the greatest wild oat control at 86%. Increasing AE F130060 rate did not improve wild oat control on June 13. At July 4, 0.053 and 0.071 oz/A AE F130060 provided greater control than 0.036 oz/A. Only 0.071 oz/A AE F130060 provided consistently similar control with fenoxaprop at the July 4 evaluation. Methylated seed oil tended to enhance wild oat control compared to basic blend adjuvant at the early evaluation, but adjuvant system was inconsequential on July 4, (Dept. of Plant Sciences, North Dakota State University, Fargo).

Table. Wild oat control with AE F130060 (Howatt, Roach, Harrington, and Thorsness).

Treatment[a]	Rate	Jun 13 AVEFA	Jul 04 AVEFA	Aug 05 Yield
	(oz/A)	(%)	(%)	(bu/A)
AE F130060+AE F137892+MSO	0.036+0.214+0.25G	80	92	50
AE F130060+AE F137892+MSO	0.053+0.32+0.25G	83	95	52
AE F130060+AE F137892+MSO	0.071+0.43+0.25G	79	97	51
AE F130060+AE F137892+BB	0.036+0.21+1%	73	92	55
AE F130060+AE F137892+BB	0.053+0.32+1%	73	96	51
AE F130060+AE F137892+BB	0.071+0.43+1%	75	97	51
Fenoxaprop	1.32	86	99	51
MKH6562+NIS	0.42+0.25%	81	94	51
Untreated	0	0	0	25
CV		5	2	10
LSD (P=.05)		5	3	7

[a] AE F137892 was safener applied in tank-mix from Aventis, Crop Science, Research Triangle Park, NC; MSO, methylated seed oil, was Destiny from Agriliance, St. Paul, MN; BB, basic blend adjuvant, was Quad 7 from AGSCO, Grand Forks, ND; and NIS was Activator 90 from Loveland Industries, Greeley, CO.