Wild oat control with AE F130060 in spring wheat and barley at Crookston, MN - 2003. Durgan, Beverly R., Jim Cameron, and Douglas W. Miller. This experiment was designed to evaluate wild oat control and wheat / barley injury with AE F130060 WG14 and two surfactants. The experiment was conducted at Crookston, MN on a Donaldson and Wheaton loam soil. Following weedy fallow, the experimental area received 100 lb/A of N and was fall plowed. In the spring the experimental area was disked and harrowed. '2375' hard red spring wheat and 'Lacey' Barley were seeded on April 29 at 1.5 and 1.75 Bu/A respectively. All herbicide treatments were applied with a backpack type sprayer delivering 10 gpa at 30 psi using 80015 flat fan nozzles. The experimental design was a randomized complete block with three replications and plot size was 10 by 16 ft. Application data and environmental conditions are listed below. Crop injury and wild oat control were rated visually. Yields were measured. All data are presented in Tables 1 and 2 for barley and wheat, respectively.

Treatment Date	May 30
Target weed or crop stage	4 leaf Wild Oat
Air Temperature (° F.)	60
Rainfall before Application	
Week 1 (inch)	0.22
Rainfall after Application	
Week 1 (inch)	0.41
Week 2 (inch)	1.66

Table 1. Wild oat control with AE F130060 in barley at Crookston, MN - 2003 (Durgan, Cameron, and Miller).

Treatment	Rate	Barley Injury 6/5	Barley Injury 6/13	Barley Injury 7/1	AVEFA Control 7/1	Barley Yield
	(lb ai/A)			(%)		(bu/A)
AE F130060 + Destiny[1]	0.0156 + 1.9%	27	12	0	98	110
AE F130060 + Quad 7[1]	0.0156 + 1.0%	35	25	5	98	108
AE F130060 + bromoxynil & MCPA ester[2] + Destiny	0.0156 + 0.25 & 0.25 + 1.9%	43	25	2	99	111
AE F130060 + bromoxynil & MCPA ester + Quad 7	0.0156 + 0.25 & 0.25 + 1.0%	45	45	0	99	116
AE F130060 + MCPA ester + fluroxypyr + Destiny	0.0156 + 0.375 + 0.125 + 1.9%	55	52	8	99	109
AE F130060 + MCPA ester + fluroxypyr + Quad 7	0.0156 + 0.375 + 0.125 + 1.0%	47	53	7	99	111
AE F130060 + thifensulfuron + fluroxypyr + Destiny	0.0156 + 0.0187 + 0.125 + 1.9%	42	37	0	99	118
AE F130060 + thifensulfuron + fluroxypyr + Quad 7	0.0156 + 0.0187 + 0.125 + 1.0%	50	47	3	99	112
Clodinafop & safener	0.05	47	50	3	99	106
Weedy check		0	0	0	--	103
LSD (P=.05)		12	13	ns	ns	ns

[1] Adjuvant
[2] Premix = Bronate Advanced 5E.

Table 2. Wild oat control with AE F130060 in spring wheat at Crookston, MN - 2003 (Durgan, Cameron, and Miller).

Treatment	Rate	Wheat Injury 6/5	Wheat Injury 6/13	Wheat Injury 7/1	AVEFA Control 7/1	Wheat Yield
	(lb ai/A)			(%)		(bu/A)
AE F130060 + Destiny[1]	0.0156 + 1.9%	10	2	0	98	66
AE F130060 + Quad 7[1]	0.0156 + 1.0%	17	0	7	99	68
AE F130060 + bromoxynil & MCPA ester[2] + Destiny	0.0156 + 0.25 & 0.25 + 1.9%	22	17	2	99	70
AE F130060 + bromoxynil & MCPA ester + Quad 7	0.0156 + 0.25 & 0.25 + 1.0%	27	8	0	99	70
AE F130060 + MCPA ester + fluroxypyr + Destiny	0.0156 + 0.375 + 0.125 + 1.9%	37	7	7	99	71
AE F130060 + MCPA ester + fluroxypyr + Quad 7	0.0156 + 0.375 + 0.125 + 1.0%	28	5	5	99	69
AE F130060 + thifensulfuron + fluroxypyr + Destiny	0.0156 + 0.0187 + 0.125 + 1.9%	25	2	0	99	68
AE F130060 + thifensulfuron + fluroxypyr + Quad 7	0.0156 + 0.0187 + 0.125 + 1.0%	38	5	2	99	68
Clodinafop & safener	0.05	0	2	2	99	69
Weedy check		0	0	0	--	39
LSD (P=.05)		12	ns	ns	ns	6

[1] Adjuvant
[2] Premix = Bronate Advanced 5E.