

Everest efficacy as affected by AMS and UAN with adjuvants at Crookston, MN -

2005. Durgan, Beverly R., Jochum Wiersma, Jim Cameron, and Douglas Miller . The objective of the this experiment was to evaluate wild oat control and crop injury with Everest (flucarbazone) and various adjuvants with and without AMS (ammonium sulfate) or UAN (urea ammonia nitrogen). 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 of the following year, the experimental area was disked and harrowed. 'Alsen' hard red spring wheat was seeded on May 3 at 1.5 Bu/A. 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 visually rated. Yields were measured. All data are presented in the table below.

Treatment Date	June 4
Wheat stage	3.5-4 leaf
Air temperature (°F)	65
Relative humidity (%)	85
Soil conditions	moist
Rainfall before Application	
Week 1 (inch)	0.47
Rainfall after Application	
Week 1 (inch)	1.40
Week 2 (inch)	2.39

Table. Everest efficacy as affected by AMS and UAN with adjuvants at Crookston, MN - 2005 (Durgan, Wiersma, Cameron, and Miller).

Treatment	Rate (lb ai/A)	Wheat Injury			AVEFA Control		Wheat Yield (bu/A)
		6/9	7/5	7/11	7/5	7/11	
Flucarbazone + NIS ¹	0.0175 + 0.25%	5	0	0	73	68	38
Flucarbazone + NIS	0.0262 + 0.25%	5	0	0	68	57	34
Flucarbazone + NIS + AMS ²	0.0175 + 0.25% + 1.7	5	0	0	70	62	39
Flucarbazone + NIS + AMS	0.0262 + 0.25% + 1.7	5	0	0	75	73	40
Flucarbazone + NIS + UAN ³	0.0175 + 0.25% + 10%	5	0	0	75	60	41
Flucarbazone + NIS + UAN	0.0262 + 0.25% + 10%	5	0	0	87	80	48
Flucarbazone + Newton ⁴	0.0175 + 1.0%	5	0	0	75	72	46
Flucarbazone + Newton	0.0262 + 1.0%	5	0	0	77	58	35
Flucarbazone + AG 02025 ⁵	0.0175 + 1.0%	5	0	0	82	78	44
Flucarbazone + AG 02025	0.0262 + 1.0%	5	0	0	77	65	41
Flucarbazone + Destiny ⁶ + AMS	0.0175 + 1.9% + 1.7	5	0	0	78	77	42
Flucarbazone + Destiny + AMS	0.0262 + 1.9% + 1.7	5	0	0	67	62	39
Fenoxaprop & safener	0.0825	5	0	0	99	99	54
Weedy check		0	0	0	-	-	7
LSD (P=.05)		ns	ns	ns	ns	ns	10

¹ NIS = Class Preference nonionic surfactant.

² AMS = N-Pak ammonium sulfate solution from Agrilience.

³ UAN = 28% urea ammonia nitrogen solution.

⁴ Newton = surfactant and nitrogen basic blend.

⁵ AG 02025 = methylated seed oil basic blend adjuvant from Agrilience,

⁶ Destiny = methylated seed oil adjuvant.