Wild oat control in spring wheat with Everest formulations at Crookston, MN - 2016.

Durgan, Beverly R., Jochum J. Wiersma, Jim Cameron, and Douglas Miller. The objective of this experiment was to evaluate wild oat control and crop injury with Everest formulations and several other products. The experiment was conducted at Crookston, MN on a Donaldson and Wheaton loam soil. Following weedy fallow, the standing residue was burned and, after receiving 126 lbs/A N and 52 lbs/A P, was chisel plowed in the fall of 2015. In the spring of 2016, a seedbed was prepared using a field cultivator with rolling baskets. 'Linkert' hard red spring wheat was seeded on April 12 at 1.8 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	**May 17**
Wild oat stage	3 leaf
Air temperature (°F)	61
Soil temperature (°F)	50
Relative humidity (%)	33
Wind	E 1 mph
Sky	clear
Rainfall before Application	
Week 1 (inch)	0.09
Rainfall after Application	
Week 1 (inch)	1.35
Week 2 (inch)	5.24

Results

Wild oat control did not differ significantly among treatments at any of the rating dates. Average yields from the treated plots ranged from 63 to 76 bu/A and were all significantly higher than the weedy.

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		Wild Oat Control					Wheat Injury		Wheat
Treatment	Rate	5/27	6/9	6/16	7/1	7/20	5/20	5/27	Yield
	(Product/A)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(Bu/A)
Everest 2.0 + Preference + AMS	0.75 oz + 3.2 oz + 2.35 pt	43	90	90	88	88	0	0	68
AL-X1581ad + Preference + AMS	1.5 oz + 3.2 oz + 2.35 pt	43	90	90	89	88	3	0	74
AL-X1581ad + Audit 1:1 + Preference + AMS	1.5 oz + 0.4 oz + 3.2 oz + 2.35 pt	47	92	93	93	93	0	0	75
AL-X1581ad + Preference + AMS	2 oz + 3.2 oz + 2.35 pt	43	88	92	93	92	3	0	69
AL-X1581ad + Audit 1:1 + Preference + AMS	2 oz + 0.4 oz + 3.2 oz + 2.35 pt	43	90	93	95	92	2	0	67
Varro + Preference + AMS	6.85 oz + 3.2 oz + 2.35 pt	40	90	88	90	89	2	3	64
Axial XL	16.4 oz	63	92	93	88	90	0	0	76
GoldSky + Preference	1 pt + 3.2 oz	40	90	92	90	91	3	2	69
Huskie Complete	13.7 oz	53	93	85	82	83	3	3	64
Rimfire Max + Destiny HC	3 oz + 0.75 pt	57	90	90	87	87	3	0	70
PerfectMatch + Activator 90 + AMS	1 pt + 6.4 oz + 3.5 pt	53	90	90	87	88	0	5	63
Weedy Check	--	--	--	--	--	--	--	--	19
LSD (0.05)		ns	ns	ns	ns	ns	ns	ns	10

Everest 2.0 3.5SC = flucarbazone-sodium & cloquintacet (safener).
Preference = nonionic surfactant.
N-Pak AMS = 34% ammonium sulfate solution (3.4 lbs ammonium sulfate/gal).
AL-X1581ad 1.75SC = experimental from Arysta.
Audit 1:1 50WDG = thifensulfuron (25%) & tribenuron (25%).
Varro 0.083L = thiencarbazone-methyl.
Axial XL 0.42EC = pinoxaden and adigor adjuvant.
GoldSky 0.84L = pyroxsulam (0.11 lb ai/gal) & fluroxypyr (0.71 lb ae/gal) & florasulam (0.018 lb ai/gal).
Huskie Complete 1.76L = thiencarbazone-methyl (0.042 lb ai/gal) & pyrasulfotole (0.26 lb ai/gal) & bromoxynil phenol equivalent (1.46 lb ai/gal).
Rimfire Max 6.67WDG = propoxycarbazone-sodium (4.76%) & mesosulfuron-methyl (1.91%).
Destiny HC = methylated soybean oil, high fructose corn syrup, sorbitan fatty acid esters.
PerfectMatch 1.61SE = clopyralid (0.75 lb ae/gal) & fluroxypyr (0.75 lb ae/gal) & pyroxsulam (0.11 lb ai/gal).
Activator 90 = nonionic surfactant.