

**Wild oat control in spring wheat with PerfectMatch and Everest 3.0 plus adjuvants at Crookston, MN - 2018.** Durgan, Beverly R., Jochum Wiersma, Jim Cameron, Houston Lindell, and Douglas Miller. The objective of this experiment was to evaluate wild oat control and crop injury with PerfectMatch and Everest 3.0 alone and in combination with various adjuvants. The experiment was conducted at Crookston, MN on a Donaldson and Wheaton loam soil. Following weedy fallow, 149 lbs/A N and 52 lbs/A P was applied and the area was chisel plowed in the fall of 2017. In the spring of 2018, a seedbed was prepared using a field cultivator with rolling baskets. 'Linkert' hard red spring wheat was seeded on April 30 at 1.75 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.

<b>Treatment Date</b>	<b>May 21</b>
Wild Oat Stage	3-leaf
Air temperature (°F)	79
Soil temperature (°F)	81
Relative humidity (%)	19
Wind	S 4 mph
Sky	clear
Rainfall before Application	
Week 1 (inch)	0.40
Rainfall after Application	
Week 1 (inch)	0.23
Week 2 (inch)	1.72

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Treatment	Rate (Product/A)	Wild Oat Control				Wheat Injury		Wheat
		6/8	6/22	7/6	7/22	6/8	6/22	Yield (Bu/A)
		(%)	(%)	(%)	(%)	(%)	(%)	
PerfectMatch	16 oz	72	72	63	63	0	0	18
PerfectMatch + AMS	16 oz + 3.5 pt	75	78	65	63	0	0	23
PerfectMatch + Preference + AMS	16 oz + 3.2 oz + 3.5 pt	75	73	75	75	0	0	24
PerfectMatch + AG16134 + AMS	16 oz + 3.2 oz + 3.5 pt	75	75	58	57	0	0	20
PerfectMatch + AG17047 + AMS	16 oz + 3.2 oz + 3.5 pt	72	70	68	70	0	0	21
PerfectMatch + AG13064 + AMS	16 oz + 3 oz + 3.5 pt	77	77	73	73	0	0	26
PerfectMatch + AG16134 + AG13064 + AMS	16 oz + 3.2 oz + 3 oz + 3.5 pt	75	77	73	73	0	0	24
PerfectMatch + AG8050 + AMS	16 oz + 6.4 oz + 3.5 pt	75	83	67	70	0	0	21
PerfectMatch + Class Act NG + AMS	16 oz + 2 pt	75	77	72	67	0	0	25
Untreated Check	--	--	--	--	--	0	0	4
<b>LSD (0.05)</b>		<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>5.9</b>
Everest 3.0	2 oz	75	90	78	78	0	0	25
Everest 3.0 + Preference	2 oz + 3.2 oz	75	88	80	80	0	0	26
Everest 3.0 + AG16134	2 oz + 3.2 oz	73	88	80	80	0	0	25
Everest 3.0 + AG17047	2 oz + 3.2 oz	75	87	80	80	0	0	23
Everest 3.0 + AG13064	2 oz + 3 oz	75	88	83	83	0	0	25
Everest 3.0+ AG16134 + AG13064	2 oz + 3.2 oz + 3 oz	78	90	78	77	0	0	24
Everest 3.0 + Preference + AG13064	2 oz + 3.2 oz + 3 oz	75	88	80	80	0	0	24
Everest 3.0 + AG8050	2 oz + 6.4 oz	75	88	80	80	0	0	23
Everest 3.0 + AG14039	2 oz + 6.4 oz	73	88	78	73	0	0	24
Everest 3.0 + AG14039	2 oz + 12 oz	77	88	82	77	0	0	26
Untreated Check	--	--	--	--	--	0	0	4
<b>LSD (0.05)</b>		<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>5.9</b>

PerfectMatch 1.61SE = clopyralid (0.75 lb ae/gal) & fluroxypyr (0.75 lb ae/gal) & pyroxsulam (0.11 lb ai/gal).

AMS = N-Pak AMS = 34% ammonium sulfate solution (3.4 lbs ammonium sulfate/gal).

Preference = nonionic surfactant.

AG16134 = experimental from Winfield Solutions.

AG17047 = experimental from Winfield Solutions.

AG13064 = experimental from Winfield Solutions.

AG8050 = experimental from Winfield Solutions.

Class Act NG = water conditioner / nonionic surfactant blend.

Everest 3.0 1.75SC = flucarbazone-sodium.

AG14039 = experimental from Winfield Solutions.