

Wild oat control with GoldSky and Rimfire Max with various adjuvants at Crookston, MN - 2010. Durgan, Beverly R., Jochum Wiersma, Jim Cameron, and Douglas Miller. The objective of this experiment was to evaluate wild oat control with GoldSky (pyroxsulam & fluroxypyr & florasulam) and Rimfire Max (propoxycarbazone & mesosulfuron) alone and with various adjuvants. 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. 'RB07' hard red spring wheat was seeded on April 19 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	May 21
Wild oat stage	5 leaf
Air temperature (°F)	73
Soil temperature (°F)	64
Relative humidity (%)	40
Wind	S 3.3 mph
Sky	partly cloudy
Rainfall before Application	
Week 1 (inch)	0.0
Rainfall after Application	
Week 1 (inch)	3.61
Week 2 (inch)	0.38

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Treatment	Rate	Wild Oat Control			Wheat Injury			Wheat
		6/4	6/25	7/2	6/4	6/25	7/2	Yield
	Product/A	(%)	(%)	(%)	(%)	(%)	(%)	(Bu/A)
GoldSky	1 pt	65	65	77	0	0	0	30
GoldSky + N-Pak AMS	1 pt + 3.5 pt	68	73	75	0	0	0	34
GoldSky + Class Act NG	1 pt + 2 pt	65	83	80	0	0	0	38
GoldSky + AG 10003	1 pt + 1.6 pt	60	80	90	0	0	0	40
GoldSky + AG 10004	1 pt + 1.6 pt	67	77	80	0	0	0	39
GoldSky + AG 10009	1 pt + 1.6 pt	60	77	77	0	0	0	38
GoldSky + AG 06011	1 pt + 6 oz	68	87	81	0	0	0	44
GoldSky + Prime Oil	1 pt + 10.2 oz	67	90	89	0	0	0	51
GoldSky + Superb HC	1 pt + 1 pt	65	78	70	0	0	0	39
GoldSky + Destiny	1 pt + 10.2 oz	68	78	78	0	0	0	43
GoldSky + Destiny HC	1 pt + 0.75 pt	68	73	77	0	0	0	41
GoldSky + Destiny HC	1 pt + 1 pt	72	90	92	0	0	0	49
GoldSky + AG 07043	1 pt + 0.8 pt	70	85	86	0	0	0	45
GoldSky + AG 09012	1 pt + 0.8 pt	67	88	88	0	0	0	57
GoldSky + AG 09053	1 pt + 0.8 pt	68	82	82	0	0	0	44
GoldSky + AG 10021	1 pt + 0.8 pt	72	80	71	0	0	0	49
Rimfire Max	3 oz	63	65	67	0	0	0	30
Rimfire Max + Class Act NG	3 oz + 2 pt	68	85	77	0	0	0	33
Rimfire Max + Class Act NG + AG 02013	3 oz + 2 pt + 4 oz	70	88	88	0	0	0	35
Rimfire Max + AG 10003	3 oz + 1.6 pt	68	83	82	0	0	0	30
Rimfire Max + AG 10004	3 oz + 1.6 pt	70	82	79	0	0	0	37
Rimfire Max + Destiny	3 oz + 1.5 pt	62	87	87	0	0	0	39
Rimfire Max + Destiny HC	3 oz + 0.75 pt	63	77	85	0	0	0	34
Rimfire Max + Destiny HC	3 oz + 1 pt	67	87	90	0	0	0	39
Rimfire Max + Destiny HC + AG 02013	3 oz + 0.75 pt + 4 oz	68	85	83	0	0	0	45
Rimfire Max + AG 10021	3 oz + 0.8 pt	72	87	85	0	0	0	50
Rimfire Max + AG 09012	3 oz + 0.8 pt	82	85	83	0	0	0	46
Rimfire Max + AG 09053	3 oz + 1.2 pt	77	93	92	0	0	0	47
Rimfire Max + AG 07043	3 oz + 0.8 pt	75	92	92	0	0	0	52
Axial XL	16.4 oz	84	98	95	0	0	0	63
Weedy Check	--	--	--	--	0	0	0	1
LSD (0.05)		11	15	ns	ns	ns	ns	19

GoldSky 1.53L = pyroxsulam (0.11 lb ai/gal) & fluroxypyr (0.71 lb ae/gal) & florasulam (0.018 lb ai/gal).

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

Class Act NG = ammonium sulfate and nonionic surfactant blend.

AG 10003 = experimental adjuvant from Agrilience.

AG 10004 = experimental adjuvant from Agrilience.

AG 10009 = experimental adjuvant from Agrilience.

AG 06011 = experimental adjuvant from Agrilience.

Prime Oil = crop oil concentrate.

Superb HC = patented crop oil concentrate (high fructose corn syrup, petroleum oil, and nonionic surfactant emulsifier).

Destiny = methylated soybean oil and nonionic surfactant blend.

Destiny HC = methylated soybean oil, high fructose corn syrup, sorbitan fatty acid esters.

AG 07043 = experimental adjuvant from Agrilience.

AG 09012 = experimental adjuvant from Agrilience.

AG 09053 = experimental adjuvant from Agrilience.

AG 10021 = experimental adjuvant from Agrilience.

Rimfire Max 6.67 WDG = propoxycarbazone-sodium (4.76%) & mesosulfuron-methyl (1.91%).

AG 02013 = experimental adjuvant from Agrilience.

Axial XL 0.053 EC = pinoxaden and adigor adjuvant.