

Project Title: Wild Oat Herbicide Screening Trial - 2012

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Objective: To evaluate the effects of herbicides on wild oat control in spring wheat.

Results:

Four herbicide treatments were compared to evaluate the consistency of wild oat control. The experimental design was a randomized complete block with three replications. Buckpronto spring wheat was planted at a rate of 80 lb/A on April 16th. Wild oats were seeded into the center of each plot on April 23 at a rate of 60lb/A. Herbicide treatments were applied on May 19<sup>th</sup> when the wild oats were in the 2.5 to 3 leaf stage and approximately 4 inches tall. Crop height was 7 inches and the growth stage ranged from 4 leaf to two tillers.

Minor crop injury was observed with all treatments but symptoms diminished by July 5<sup>th</sup> (Table 2). All herbicide treatments evaluated provided 88% wild oat control or greater, with Wolverine being the least effective treatment. Although differences in wild oat control were noted among the treatments, no differences were observed in yield.

Summary:

All herbicide treatments provided excellent control of wild oats in spring wheat.

Table 1. Material and Methods - wild oat herbicide evaluation - 201

Seeding Date:	4/16/2012	Soil Type:	Kalispell vf SL	Insecticide:	None
Seeding Rate:	80 lb/A	Soil Test:	57-12-110-42	Harvest Date:	8/20/2012
Previous Crop:	Alfalfa	Fertilizer:	138-0-75-14 broadcast,		
Tillage:	Conventional		12-40-0-10 with seed		
Irrigation:	None	Herbicide:	None		

Table 2. Herbicide evaluation for wild oat control in spring wheat, Kalispell MT 2012

Treatment	Rate	Crop Injury			Wild oat control		Dockage %	Yield bu/A	TWT lb/bu
		5/31	6/7	7/5	6/7	7/5			
Untreated		0	0	0	0	0	5	43	57
Rimfire Max Huskie MSO	3 OZ/A 11 FL OZ/A 1.5 PT/A	33	0	0	53	97	1	97	59
Rimfire Max Huskie QUAD 7	3 OZ/A 11 FL OZ/A 1 % V/V	23	3	0	57	97	1	98	59
Wolverine	27.4 FL OZ/A	27	6	0	92	88	1	97	59
Huskie Complete AMS	13.7 FL OZ/A 0.5 LB/A	23	0	0	43	98	1	97	59
Mean		21	2	0	49	76	1	86	59
CV		21.18	182.29	0.00	21.96	1.63	0.93	5.15	0.76
LSD		8.5	6.2	0.0	20.3	2.3	0.0	8.4	0.8
Pr>F		0.0002	0.2070	1.0000	0.0001	0.0001	0.0017	0.0001	0.0018

TWT: test weight