Control of ACCase resistant green foxtail and wild oat with Rimfire tank mixes

The objective of the study was to evaluate Rimfire tank mixes for control of ACCase-resistant green foxtail and wild oat in spring wheat. All treatments were applied on June 6 at the 3- to 4-leaf wheat stage. Foxtail was about 0.5 inch tall and wild oat was 2- to 3-leaf. Rimfire tank mixed with Huskie plus MSO or Basic Blend caused 13-15% injury within 7-10 days after application, mostly expressed as chlorosis with slight stunting. However, by early July no injury symptoms were visible. At the pre-harvest evaluation on Aug 2, Rimfire tank mixes provided excellent wild oat control, but poor foxtail control. Wolverine provided poor control of both grasses. An experimental product to be marketed by Bayer in 2012 provided excellent wild oat control and good foxtail control.

Table. Control of ACCase-resistant green foxtail and wild oat with Rimfire tank mixes. (1115)

		HRSW			Weed Control					
		Injury			Green foxtail			Wild oat		
Treatment[ab]	Rate	18-Jun	30-Jun	2-Aug	18-Jun	30-Jun	2-Aug	18-Jun	30-Jun	2-Aug
		----------%----------			----------%----------					
Untreated		0	0	0	0	0	0	0	0	0
Rimfire + Huskie + MSO	3 oz + 11 oz + 1.5 pt	15	9	0	89	76	59	93	95	99
Rimfire + Huskie + BB	3 oz + 11 oz + 1%	13	5	0	87	68	57	90	95	99
Rimfire + Huskie + Destiny HC	3 oz + 11 oz + 0.75 pt	8	4	0	86	66	57	89	95	99
Rimfire + Aff TM + Starane + BB	3 oz + 0.6 oz + 0.18 pt + 1%	6	2	0	87	73	65	91	95	98
Experimental	13.7 oz	6	2	0	88	87	88	88	95	99
Wolverine	27.4 oz	0	0	0	33	30	30	47	33	30
LSD (0.05)		3	4	NS	5	9	14	8	4	2
CV		22	64	0	4	9	16	6	3	1

[a] *All treatments applied at 2- to 3-leaf wheat, 2- to 3-leaf wild oat, and 0.5 inch foxtail*

[b] *Rimfire=Rimfire Max; Starane=Starane Ultra; MSO=Methylated seed oil; BB=Basic blend*