

Weedy grass control with Starane Flex plus graminicides in spring wheat

The objective of the study was to evaluate control of weedy grasses with Starane Flex tank mixed with standard grass herbicides such as Axial XL, Puma, and Discover. Weedy grasses evaluated included wild oat, barnyardgrass, green foxtail, and yellow foxtail. Treatments were applied June 23 to 5-leaf wheat, 3-leaf wild oat, 2-4 inch barnyardgrass, and 1-inch foxtail. None of the treatments caused significant crop injury. In this study, good grass control or the lack thereof is likely due to a combination of factors. It is possible that some wild oat and green foxtail at this location may be resistant to Group 1 herbicides, as we have seen in other fields. Axial XL, Puma, and Discover are all Group 1 herbicides; however, this does not mean that a weed will be resistant to all three herbicides. There also appears to be some level of antagonism between the Starane Flex and the grass herbicides.

Table. Wild oat, barnyardgrass, and foxtail control with Starane Flex plus graminicides. (1152)												
Treatment ^a	Rate	HRSW				Weed Control ^b						
		Chlorosis		Growth reduction		Wioa		Bygr		Grft		Yeft
		29-Jun	15-Jul	29-Jun	15-Jul	15-Jul	3-Aug	15-Jul	3-Aug	15-Jul	3-Aug	3-Aug
-----%-----				-----% control-----								
Axial XL	16.4 oz	2	0	0	0	99	99	99	99	77	70	95
Axial XL + Starane Flex	16.4 oz + 13.5 oz	5	0	0	0	99	99	53	75	40	35	95
Axial XL + Starane Flex + MCPe	16.4 oz + 13.5 oz + 8.63 oz	5	0	0	0	99	99	30	23	33	33	95
Puma	6.4 oz	0	0	0	0	81	53	95	99	30	17	99
Puma + Starane Flex	6.4 oz + 13.5 oz	1	0	0	0	57	33	93	99	27	38	38
Puma + Starane Flex + MCPe	6.4 oz + 13.5 oz + 8.63 oz	0	0	0	0	42	20	95	99	27	32	32
Discover NG	12.8 oz	0	0	0	0	90	90	95	98	28	18	96
Discover NG + Starane Flex	12.8 oz + 13.5 oz	0	0	0	0	68	37	58	45	23	33	27
Discover NG + Starane + MCPe	12.8 oz + 13.5 oz + 8.63 oz	0	0	0	0	57	28	53	38	23	28	25
Untreated		0	0	0	0	0	0	0	0	0	0	0
LSD (0.05)		1	NS	NS	NS	10	15	15	11	4	14	8
CV		29	0	0	0	8	16	13	9	8	26	7

^a All treatments applied at 5-leaf wheat; Starane=Starane Flex

^b Wioa=Wild Oat; Bygr=Barnyardgrass; Grft=Green foxtail; Yeft=Yellow foxtail