

2011 Syngenta Wild Oat Control in Spring Wheat

Eric Eriksmoen, Hettinger, ND

‘Mott’ HRSW was seeded no-till on May 16. Post-emergence (POST) treatments were applied on June 17 to 4 ½ leaf wheat, heading downy brome (dobr), Japanese brome (jabr) in the boot stage, 4 leaf wild oat (wiot), tillering foxtail barley (fxba) and 4 leaf Persian darnel (peda) with 44° F, 94% RH, cloudy sky and north wind at 9 mph. Treatments were applied with a tractor mounted CO₂ propelled plot sprayer delivering 10 gpa at 30 psi through PK-01E80 nozzles to a 5 foot wide area the length of 10 by 28 foot plots. The soil is classified as a silt-loam with a pH of 6.2 and OM of 3.2%. The trial was a randomized complete block design with four replications. The trial was sprayed with 12 oz/A Huskie herbicide + 8 oz/A Headline fungicide on June 4 to control broadleaf weeds and foliar diseases. Weed populations for downy brome, Japanese brome, wild oat, foxtail barley and Persian darnel were 1, 1, 0.25, 0.5 and 1 plants per square foot, respectively. Plots were evaluated for crop injury on June 22, July 1, July 16 and July 29, and for weed control on July 16, July 29 and August 14. The trial was harvested on August 20.

Treatment	Product rate	----- July 16 -----				----- July 29 -----				---- August 14 ----			Test weight	Grain yield
		jabr	dobr	fxba	inj	jabr	dobr	fxba	wiot	jabr	dobr	peda		
oz/A		----- Percent Control -----											lbs/bu	bu/A
1	Untreated	0	0	0	0	0	0	0	0	0	0	0	57.9	23.7
2	Exp	8.2	0	0	0	0	0	0	99	0	0	99	60.0	25.7
3	Rimfire Max + Basic Blend	3.0 + 1%	94	55	45	0	96	72	40	99	97	56	99	28.5
4	Wolverine	27.2	0	0	0	0	0	7	99	0	0	0	59.4	29.1
5	Puma	10.6	0	0	5	0	0	7	99	0	0	0	59.1	25.0
6	Goldsky + AMS + NIS	16+1.5lb+0.5%	95	95	20	0	96	90	40	99	98	93	50	31.1
7	Everest + Basic Blend	0.75 + 1%	91	0	20	0	99	12	40	99	99	18	0	29.8
C.V. %			5	18	212	0	4	45	129	--	4	65	--	8.9
LSD .05			3	6	NS	NS	3	16	NS	--	3	23	--	4

NS = no statistical difference between treatments

Summary

Crop injury was not observed. All herbicide treatments provided excellent season long control of wild oats, although populations in this study were minimal and isolated to one replication. Exp and Rimfire Max treatments provided excellent control of Persian Darnel. Rimfire Max, Goldsky and Everest treatments provided excellent season long control of Japanese brome and marginal control of foxtail barley. Goldsky was the only treatment to provide acceptable season long control of downy brome.