

Wild oat control with Discover in HRSW. (1998) Discover was evaluated for wild oat control compared to other products. Amidon hard red spring wheat was seeded April 23. Seedbed preparation was conventional with 6-inch row spacing and wheat seeded at 1 million pls/A. All treatments were applied with a CO2 pressurized bicycle sprayer traveling 3 mph with 8001 flat fan nozzles delivering 10 gpa at 40 psi. Plot dimensions were 10 feet by 30 feet. The treatments were arranged in a RCBD and replicated three times. Wheat was harvested with a small plot combine on August 10.

Soil conditions were very dry from mid-April through mid-June. We received only one inch of rainfall from planting to the first herbicide application and one additional inch through the first month after the herbicide application. Discover alone or in combination with Harmony Extra provided good to excellent wild oat control. Wild oat control was reduced 10-20% when Discover was tankmixed with Banvel in a two-way or three-way mix. Wild oat control with Discover alone was 10-20% better than Puma or Achieve applied alone.

Application date:	May 19
Application timing:	POST
Air / Soil temperature (F)	69 / 70
Relative Humidity	29%
Soil moisture	dry
Wheat stage	4-leaf
Wild oat stage / density	3-leaf / 19 per sq ft
Common lambsquarters stage / density	<1" tall / 2 per sq ft

<u>Treatment</u>	<u>Rate</u>	<u>June 9</u>		<u>July 24</u>		<u>Yield</u> Bu/A
		<u>Wioa</u>	<u>Colq</u>	<u>Wioa</u>	<u>Colq</u>	
		----- % Control -----				
Untreated		0	0	0	0	19
Discover + Score	0.8 fl oz/A+ 0.8% V/V	87	0	89	0	28
Discover + Bronate + Score	0.8 fl oz/A+ 8 fl oz/A+ 0.8% V/V	73	0	92	0	20
Discover + Banvel SGF + Score	0.8 fl oz/A+ 1.5 fl oz/A+ 0.8% V/V	82	91	66	99	26
Discover + Harmony Extra +	0.8 fl oz/A+ 0.23 oz/A+	88	91	93	97	34

Score	0.8% V/V					
Discover +	0.8 fl oz/A+	78	98	78	99	26
Harmony Extra +	0.23 oz/A+					
Banvel SGF +	1 fl oz/A+					
Score	0.8% V/V					
Puma	1.3 fl oz/A	73	0	77	0	24
Puma +	1.3 fl oz/A+	73	98	70	100	22
Harmony Extra	0.23 oz/A+					
Achieve +	2.9 fl oz/A+	70	0	55	0	17
Supercharge	0.5% V/V					
Achieve +	2.9 fl oz/A+	75	93	66	93	20
Bronate +	8 fl oz/A+					
Supercharge	0.5% V/V					
C.V.%		9	10	10	5	22
LSD .05		11	8	16	6	9