

**Perennial weed control with aminopyralid and aminocyclopyrachlor, Sheridan County.**  
(Greg Endres)

A field study was conducted by the NDSU Carrington Research Extension Center on the Ducks Unlimited Coteau Ranch near Denhoff, ND to examine perennial weed control with aminopyralid (Milestone, ForeFront R&P, and Chaparral) and aminocyclopyrachlor (MAT28). Experimental design was a randomized complete block with three replications. Herbicide treatments were applied with a backpack-type plot sprayer delivering 11 gal/A at 35 psi through 8001 flat fan nozzles to the center 6.7 ft of 10- by 25-ft plots. Weeds were mowed during the summer of 2008. Fall herbicide treatments were applied on October 3, 2008 to 3- to 12-inch tall absinth wormwood, 2- to 10-inch tall Canada thistle, and  $\leq$  24-inch tall (rosette to mature) perennial sowthistle. Summer herbicide treatments were applied on July 1, 2009 to 13- to 40-inch tall absinth wormwood, 5- to 29-inch tall (bud stage) Canada thistle, and 6- to 28-inch tall perennial sowthistle.

Absinth wormwood control was excellent (99%) and perennial sowthistle control was good (83-87%) 12 months after application (MAA) with fall application of Milestone, ForeFront R&P and Chaparral (Table 1). Canada thistle control 12 MAA was 85% with fall-applied Milestone at 7 fl oz/A. All summer herbicide treatments provided excellent control of absinth wormwood and perennial sowthistle, except wormwood control with MAT28 plus Telar (Table 2). Summer-applied MAT28 or MAT28 plus Telar provided excellent control (98%) of Canada thistle 12 MAA. Also, Milestone at 7 fl oz/a provided greater Canada thistle control compared to the lower rate.

Table.1 Perennial weed control with fall herbicide treatments <sup>1</sup>							
Herbicide	Rate	Weed control					
		1-Jul-09			30-Sep-09		
Treatment <sup>2</sup>	product/A	Absinth wormwood	Canada thistle	Perennial sowthistle	Absinth wormwood	Canada thistle	Perennial sowthistle
			%				
Untreated check	x	0	0	0	0	0	0
2,4-D	32 fl oz	65	33	0	62	13	0
Milestone	7 fl oz	99	98	89	99	85	87
Milestone	5 fl oz	99	84	80	99	75	83
ForeFront R&P	32 fl oz	99	89	86	99	71	83
Chaparral	3 oz wt	99	90	94	99	75	88
C.V. (%)		11.6	23.2	15.8	10.8	18.1	16.9
LSD (0.05)		16	28	17	15	17	17

<sup>1</sup>Application on October 3, 2008.

<sup>2</sup>2,4-D=LV4 (Loveland); All treatments except 2,4-D include NIS=Preference (Winfield Solutions) at 0.25% v/v .

Table.2 Perennial weed control with summer herbicide treatments <sup>1</sup>							
Herbicide	Rate	Weed control					
		30-Sep-09			2-Jul-10		
Treatment <sup>2</sup>	product/A	Absinth wormwood	Canada thistle	Perennial sowthistle	Absinth wormwood	Canada thistle	Perennial sowthistle
			%				
Untreated check	x	0	0	0	0	0	0
2,4-D	32 fl oz	96	72	93	91	65	93
Milestone	7 fl oz	99	94	93	98	86	95
Milestone	5 fl oz	99	83	93	95	72	90
Chaparral	3 oz wt	99	87	98	93	71	99
MAT28	2 oz wt	94	96	98	93	98	98
MAT28 + Telar	2 + 0.167 oz wt	89	93	99	78	98	98
C.V. (%)		7.9	6.8	4.4	5.1	9.4	3.2
LSD (0.05)		12	9	6	7	12	5

<sup>1</sup>Application on July 1, 2009.

<sup>2</sup>2,4-D=LV4 (Loveland); All treatments except 2,4-D include NIS=Preference (Winfield Solutions) at 0.25% v/v .