

Canada thistle control with aminopyralid plus clopyralid, Ellendale. Greg Endres and Kacey Holm. A field study was conducted in cooperation with Dow AgroSciences in CRP near Ellendale (Dickey County), ND to examine control of Canada thistle with early summer and fall application of an experimental mixture of aminopyralid and clopyralid [AMCLO (GF-2791): 2.8 lb ae/gal (0.5 lb aminopyralid + 2.3 lb clopyralid)]. Experimental design was a randomized complete block with three replications. Treatments were applied with a CO₂-pressurized backpack sprayer delivering 12 gal/A at 35 psi through 8001 flat fan nozzles to the center 6.7 ft of 10- by 30-ft plots. Summer treatments were applied July 22, 2011 to bolted to early bloom Canada thistle and fall treatments were applied September 28, 2011 to bolted to mature plants.

Canada thistle control was visually evaluated with excellent (97 to 99%) control with AMCLO at 20 and 24 fl oz/A applied during summer 11 months after treatment (MAT) on June 25, 2012 (Table). Summer-applied AMCLO at 12 and 16 fl oz/A, and Milestone at 5 and 7 fl oz/A provided good (80 to 88%) control 11 MAT. At 25 MAT (August 27, 2013), weed control was 77% with AMCLO at 24 fl oz/A. Fall-applied AMCLO at 16 and 20 fl oz/A generally provided good (78 to 90%) control 12 MAT (September 21, 2012) but at 23 MAT (August 27, 2013) the plants were only suppressed (71 to 73% control) with these treatments.

Table.

Treatment ¹	Herbicide Product rate fl oz/A	Canada thistle control		
		25-Jun-12	21-Sep-12	27-Aug-13
			%	
Summer:				
AMCLO	8	72	53	33
AMCLO	12	80	70	37
AMCLO	16	82	79	27
AMCLO	20	97	87	53
AMCLO	25	99	94	77
Milestone	5	82	82	63
Milestone	7	88	87	43
Transline	16	38	53	20
Fall:				
AMCLO	12	98	69	47
AMCLO	16	99	90	73
AMCLO	20	89	78	71
Milestone	5	99	82	60
untreated check	x	0	0	0
CV (%)		10.8	22.8	52.1
LSD (0.05)		14	27	41

¹AMCLO (GR-2971)=2.8 lb ae/gal (2.3 lb clopyralid + 0.5 lb aminopyralid); All treatments include NIS (Preference) at 0.25% v/v.