

2006-2007 Canada Thistle Control in CRP

Wendell Simonson Memorial Shotgun Range

Johnson County

Iowa State University Extension

Treatment	Rate	Cost*	Canada Thistle 7/14/06	Canada Thistle 5/16/07	Evaluation
		\$ per acre	% control	% control	
Milestone NIS	5 fl oz/A 0.25%	\$15	99	72	Good
Milestone NIS	7 fl oz/A 0.25%	\$20	98	80	Good
Forefront NIS	2.0 pt/A 0.25%	\$15	99	88	Good
Forefront NIS	2.6 pt/A 0.25%	\$20	96	80	Good
Grazon P + D NIS	6.0 pt/A 0.25%	\$27	99	88	Good
Curtail NIS	6.0 pt/A 0.25%	\$34	88	73	Good
2,4-D NIS	4.0 pt/A 0.25%	\$11	83	50	Poor
Crossbow NIS	8.0 pt/A 0.25%	\$66	67	40	Poor

*Approximate cost in 2007 (not including application costs).

Each treatment was sprayed 5/22/06 to plots arranged in a randomized complete block design with 3 replications per treatment. Canada thistle was 6 to 18" tall (12" average) – prebud. Air 70F. Wind SSE 3-4. Canada thistle control evaluations listed above are the average for the three plots in the summer of 2006 (2 months after application) and spring of 2007 (1 year after application).

NIS = nonionic surfactant. Forefront contains the active ingredients from Milestone and 2,4-D. Curtail contains the active ingredients from Stinger and 2,4-D. Grazon P + D contains the active ingredients from Tordon and 2,4-D. Grazon is a restricted use product due to the risk of injury to desirable plants.

Canada thistle control was less in plots with poor forage stands. Competition from well established forages is the most important component of managing any weeds in CRP. Trial Conducted by Jim Fawcett, ISU Extension Agronomist, and Greg Brenneman, ISU Extension Ag Engineer

Cooperative Extension Service, Iowa State University of Science and Technology, and the United States Department of Agriculture cooperating.

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Summary of Canada Thistle Control from Plots Evaluated One Year after Application in Keokuk County, Iowa in 2004

Treatment	Rate	Evaluation	Chemical Cost/A*	% Control
Tordon 22K	1.5 pt/A	Excellent	\$19	83
Grazon P + D	6 pt/A	Good	\$25	72
Stinger	0.66 pt/A	Good	\$39	68
Curtail	6 pt/A	Good	\$30	63
Crossbow	6 pt/A	Fair	\$37	43
Overdrive	6 oz/A	Fair	\$19	37
Banvel +2,4-D	2 + 2 pt/A	Fair	\$20+\$4	37
2,4-D	4 pt/A	Poor	\$8	28
Cimarron	0.4 oz/A	Poor	\$10	23

*Approximate cost in spring of 2006. Does not include adjuvants or application costs. Overdrive included 0.25% NIS and 2.5% UAN & Cimarron included 0.5% NIS.

All treatments were applied on 5/22/03 on 6 to 20-inch prebud Canada thistle (most 10 to 16-inch) using 20 GPA. Three plots per treatment were arranged in a randomized complete block design. Soil temperature 62°F, air temperature 70°F, wind calm, little forage present. There was nearly complete ground cover of Canada thistle.

- Tordon 22K and Grazon P + D are restricted use products because of risk of injury to desirable plants and long soil residual.
- Milestone control is expected to be similar to Tordon. Milestone @ 7 oz/A costs about \$18/A.
- Forefront (Milestone + 2,4-D) @ 42 oz/A costs about \$18/A.
- Grazon P + D @ 6 pt/A = the equivalent of 1.6 pt/A Tordon + 3 pt/A 2,4-D.
- Curtail @ 6 pt/A = the equivalent of 0.75 pt/A Stinger + 3 pt/A 2,4-D.
- Overdrive is similar to Distinct (dicamba + diflufenzopyr).
- Cimarron, previously called Ally, contains metsulfuron.



Trial Conducted by Jim Fawcett, ISU Extension Crop Specialist.

... and justice for all

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