

## 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	\$22	83
Grazon P + D	6 pt/A	Good	\$26	72
Stinger	0.66 pt/A	Good	\$50	68
Curtail	6 pt/A	Good	\$33	63
Crossbow	6 pt/A	Fair	\$49	43
Overdrive	6 oz/A	Fair	\$17	37
Banvel +2,4-D	2 + 2 pt/A	Fair	\$20+\$5	37
2,4-D	4 pt/A	Poor	\$10	28
Cimarron	0.4 oz/A	Poor	\$10	23

\*Approximate cost in spring of 2007. Does not include adjuvants or application costs. Overdrive included 0.25% NIS and 2.5% UAN & Cimarron included 0.5% NIS.

Milestone control is expected to be similar to Tordon. Milestone @ 7 oz/A costs about \$19/A. Forefront (Milestone + 2,4-D) @ 42 oz/A costs about \$19/A. Grazon P + D @ 6 pt/A is the equivalent of 1.6 pt/A Tordon + 3 pt/A 2,4-D. Curtail @ 6 pt/A is the equivalent of 0.75 pt/A Stinger + 3 pt/A 2,4-D. Overdrive is similar to Distinct (dicamba + diflufenzopyr)

All treatments applied using 20 GPA on 5/22/03 to 6-20" Canada thistle (most 10-16"), prebud. 3 plots/treatment arranged in a randomized complete block design. Soil temperature 62F, air temperature 70F, wind calm, little forage present. complete ground cover with Canada thistle.

Tordon 22K and Grazon P + D are restricted use products because of risk of injury to desirable plants and long soil residual.

Trial Conducted by Jim Fawcett, ISU Extension Crop Specialist.

### ... and justice for all

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**2006-7 Canada Thistle Control in CRP**  
**Wendell Simonson Memorial Shotgun Range**  
**Johnson County**  
**Iowa State University Extension**

----- Plot Number -----    -----% Control -----

Plot	Treatment	Rate	Rep 1	Rep 2	Rep 3	Canada Thistle 7/14/06	Canada Thistle 5/16/07
1	Untreated Check		101	206	310	0	0
2	Milestone NIS	5 fl oz/A 0.25%	102	203	309	99	72
3	Milestone NIS	7 fl oz/A 0.25%	103	211	304	98	80
4	Forefront NIS	32 fl oz/A 0.25%	104	209	311	99	88
5	Forefront NIS	42 fl oz/A 0.25%	105	207	303	96	80
6	Tordon 22K NIS	24 fl oz/A 0.25%	106	201	302	98	65*
7	Grazon P + D NIS	96 fl oz/A 0.25%	107	210	306	99	88
8	Stinger NIS	10.5 fl oz/A 0.25%	108	202	308	94	62*
9	Curtail NIS	96 fl oz/A 0.25%	109	204	307	88	73
10	2,4-D NIS	64 fl oz/A 0.25%	110	208	305	83	50
11	Crossbow NIS	8.0 pt/A 0.25%	111	205	301	67	40

Sprayed 5/22/06.

Canada thistle 6 to 18" tall (12" average) in prebud stage.

Air Temperature 70F. Wind SSE 3 to 4 MPH.

\*Plots 201, 202, and 302 had little to no forage grasses present, resulting in poorer results for treatment 6 (Tordon 22K) and treatment 8 (Stinger).

Trial Conducted by Jim Fawcett, ISU Extension Agronomist, and Greg Brenneman, ISU Extension Ag Engineer