

Canada Thistle Control in USA Rangeland and Pasture with Aminopyralid



Byron B. Sleugh¹, R. Wilson², S. Nissen³, S. Enloe⁴, R.A. Masters¹, V. F. Carrithers¹, P. L. Burch¹. Dow AgroSciences LLC; ²University of Nebraska, ³Colorado State University, University of Wyoming

Aminopyralid formulations for U.S. Range & Pasture

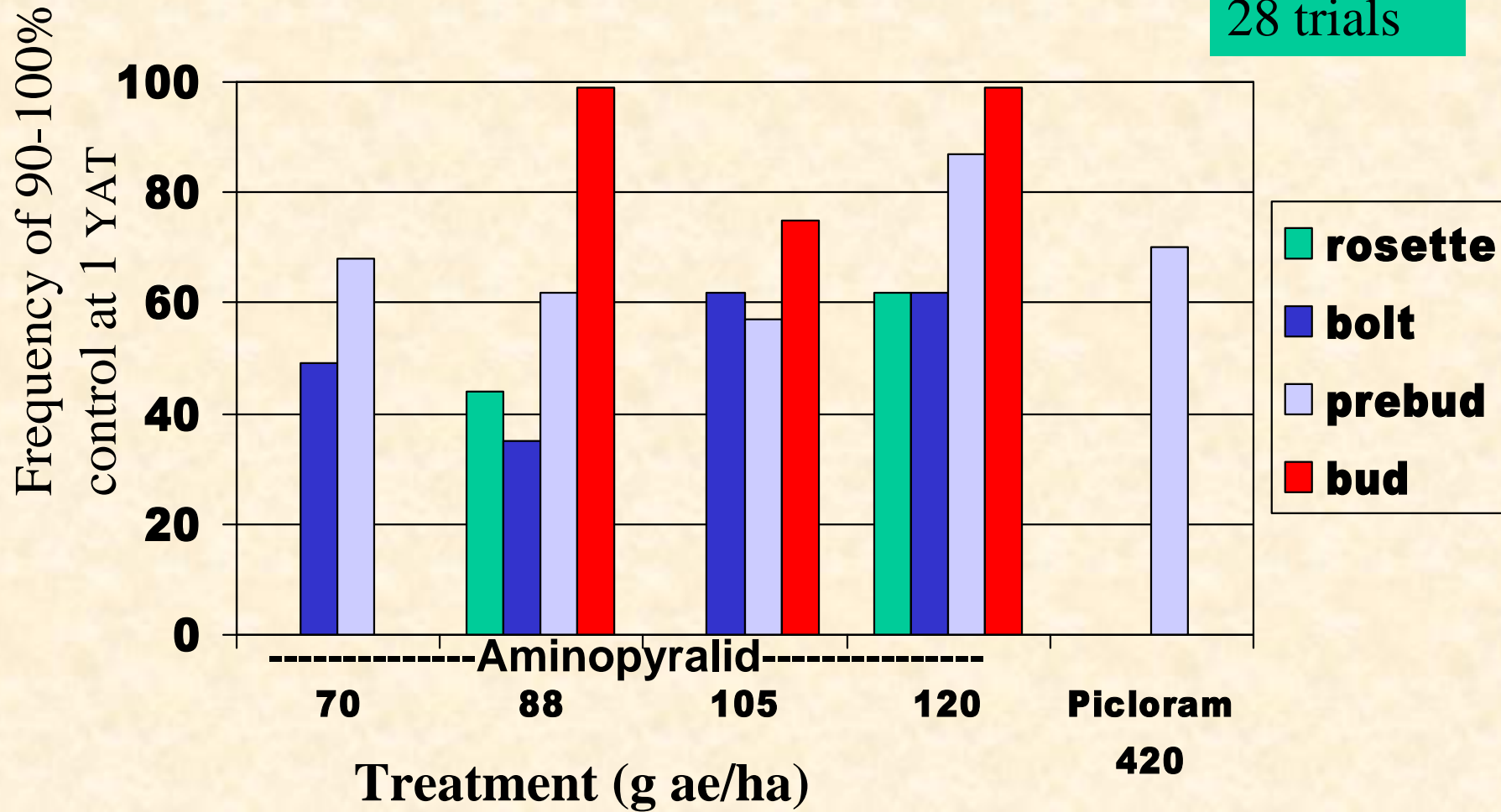
- Milestone™
 - Aminopyralid
 - 240 g ae/L (2 lb ae/gal)
 - Label rate range = 52.5 to 120 g ae/ha
 - 3-7 fl oz product/acre
- ForeFront™
 - Aminopyralid + 2,4-D amine
 - 40 g ae + 320 g ae/L (3 lb ae/gal)
 - Maximum rate = 120 + 960 g ae/ha
 - 2.6 pt product/acre

Overview of trials: Materials and Methods

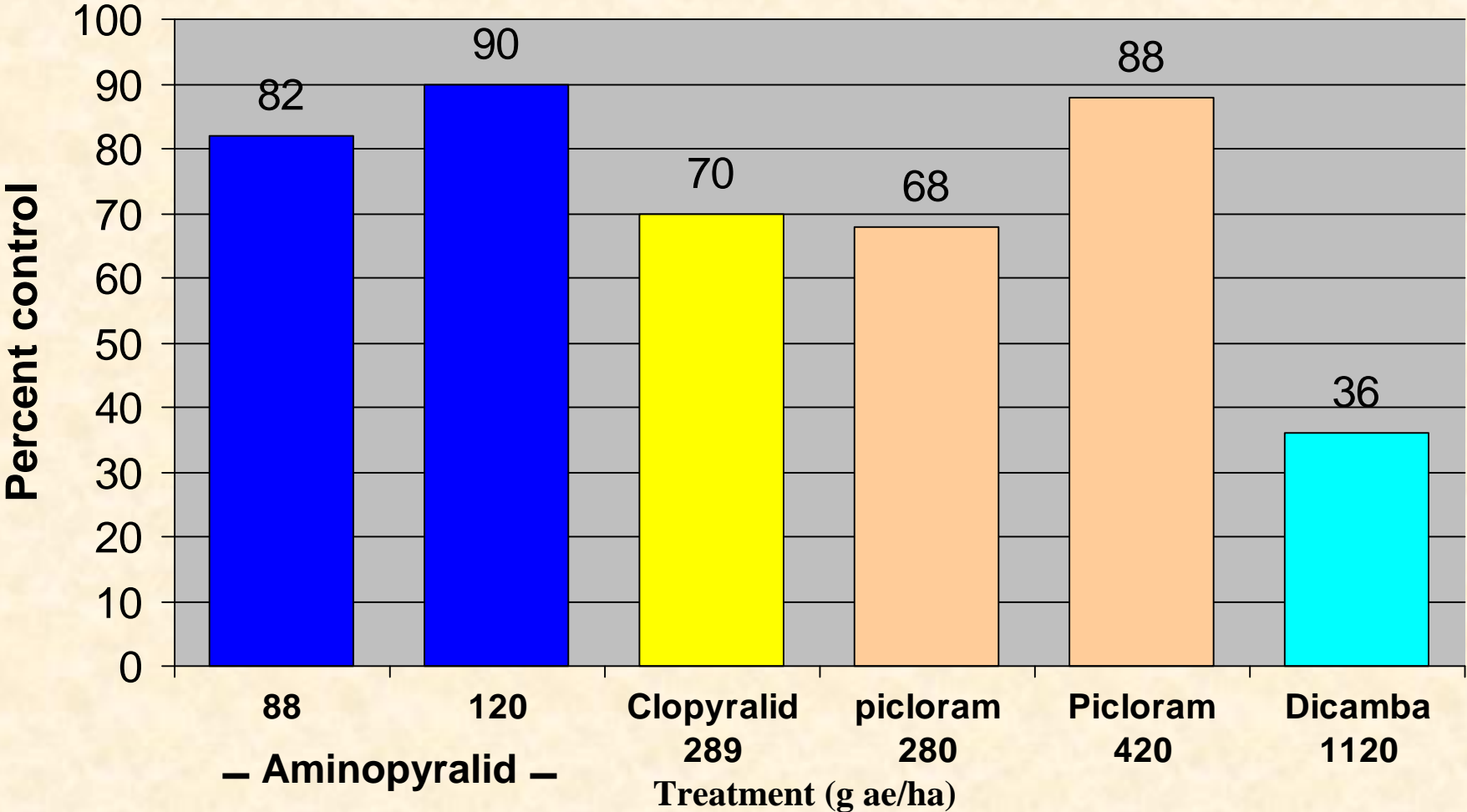
- Summary of multiple trials, years, and locations.
- Colorado, Minnesota, Montana, North Dakota, Nebraska, Iowa, Oregon, Virginia, South Dakota, Washington and Wyoming
- 3-4 replications, Randomized Complete Block
- Non-ionic surfactant at 0.25% v/v
- Comparisons with commercial standards

Frequency of 90-100% control of Canada thistle at various growth stages at 1 YAT with spring applications of Milestone™

28 trials



Canada Thistle Control Summer Applications at Prebud



®™Tordon, Transline and Milestone are trademarks of Dow AgroSciences LLC. Tordon is a Restricted Use Pesticide.

Evaluations at 1 year after treatment. Average of 7 to 14 sites (MN, MT, ND, NE, OR, VA, SD, WA, and WY).

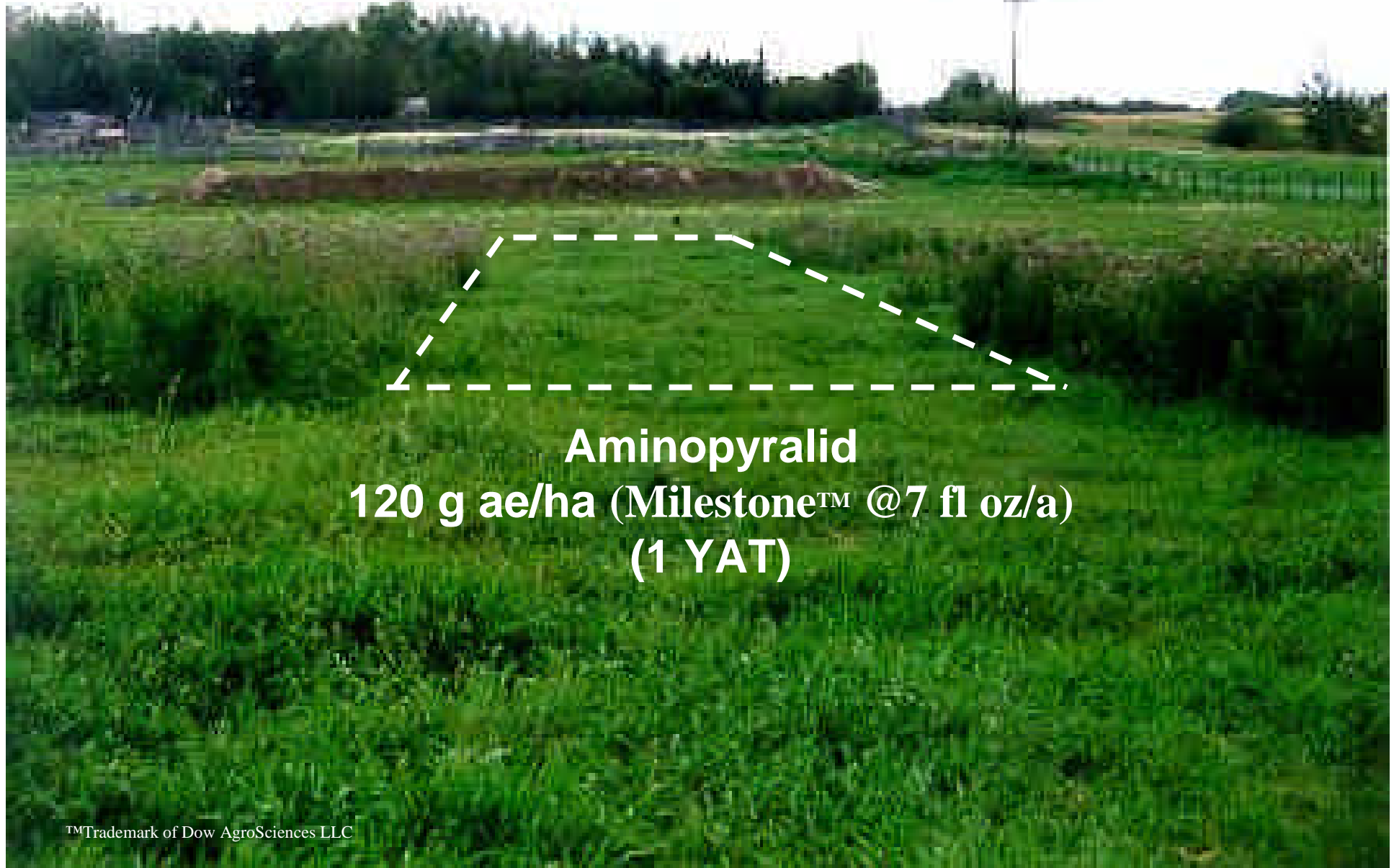


Canada Thistle Control 1 Year After Treatment

Non-treated /

**Aminopyralid 88 g ae/ha
(Milestone™ @ 5fl oz/a)**

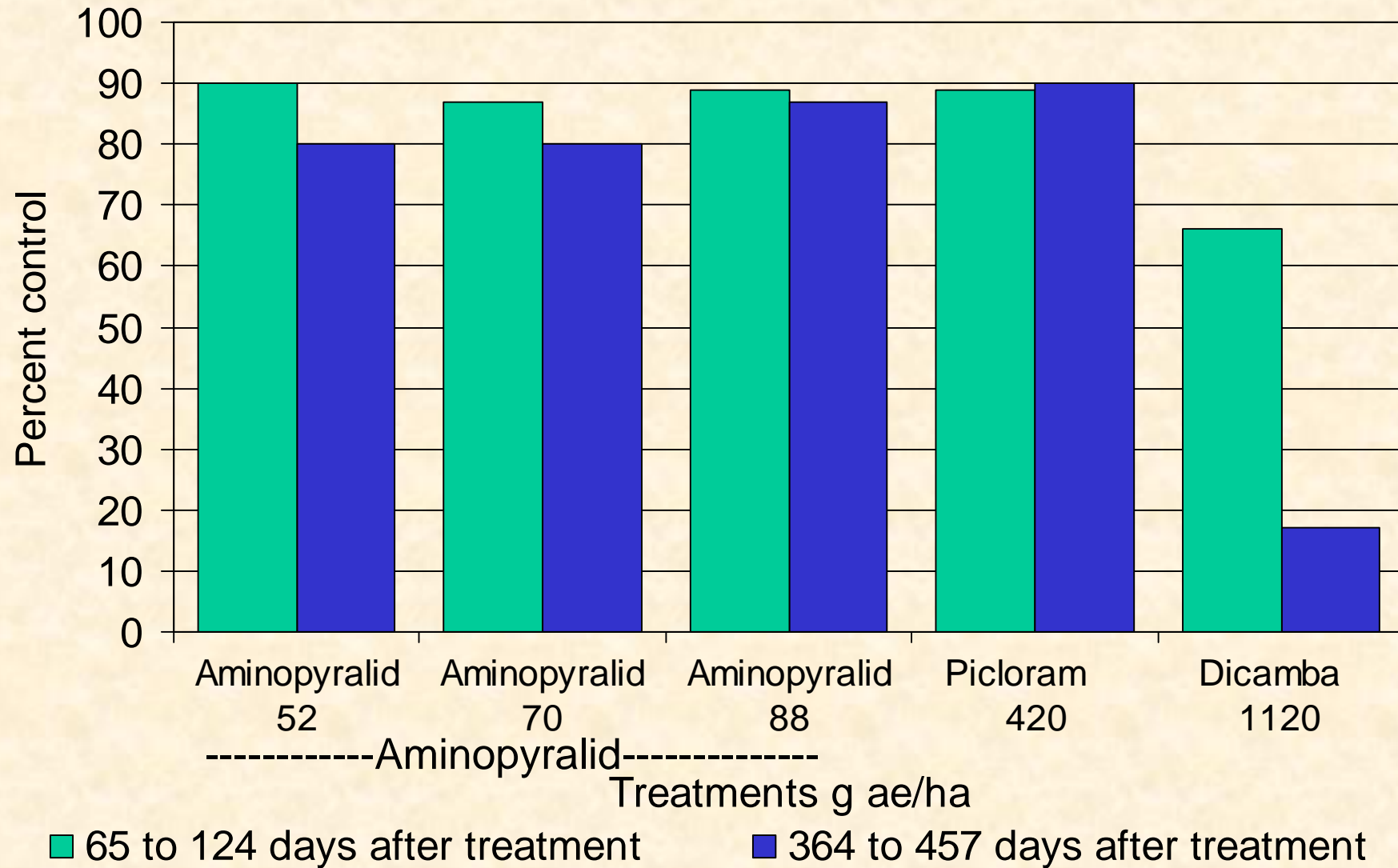
Canada thistle (*Cirsium arvense*)



Aminopyralid
120 g ae/ha (Milestone™ @7 fl oz/a)
(1 YAT)

Canada Thistle Control – pre-bud

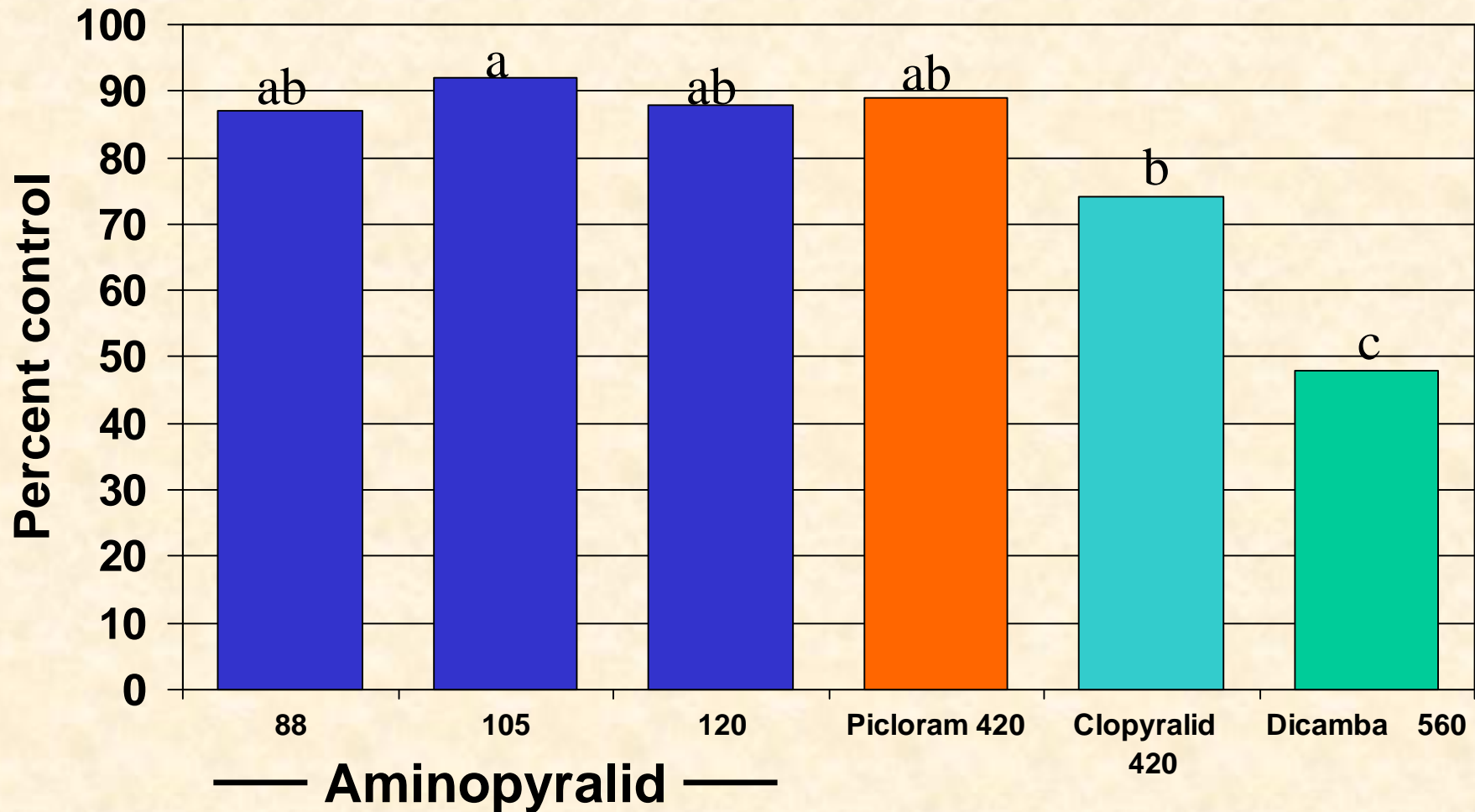
Average of 3 sites (Nebraska, Washington, and Wyoming)



What is the best timing for treating Canada thistle? Spring vs. Fall Application

- Spring pre-bud/bud or
- Fall regrowth (rosette)

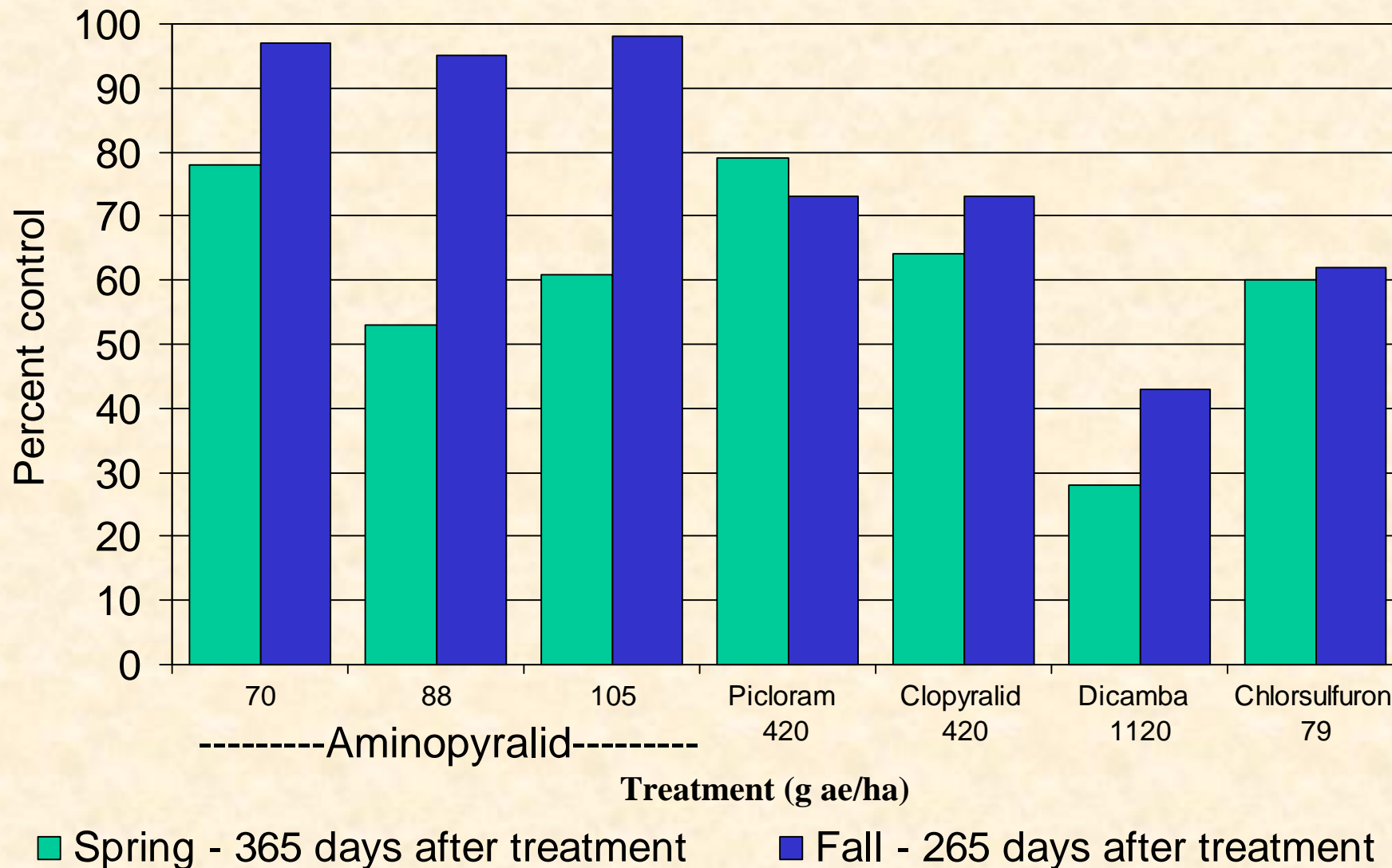
Canada Thistle Control with Fall Applications



Average of 5 sites North Dakota (2),
Nebraska, Virginia, and Washington



Spring vs. fall applied after 1st frost (NE)



Milestone™ at 5 fl oz/ac
365 DAT Applied 6/10/03
Picture 10/1/04



Clarity at 1 qt/ac
365 DAT Applied 6/10/03
Picture 10/1/04



OverDrive at 6 oz/ac
365 DAT Applied 6/10/03
Picture 10/1/04

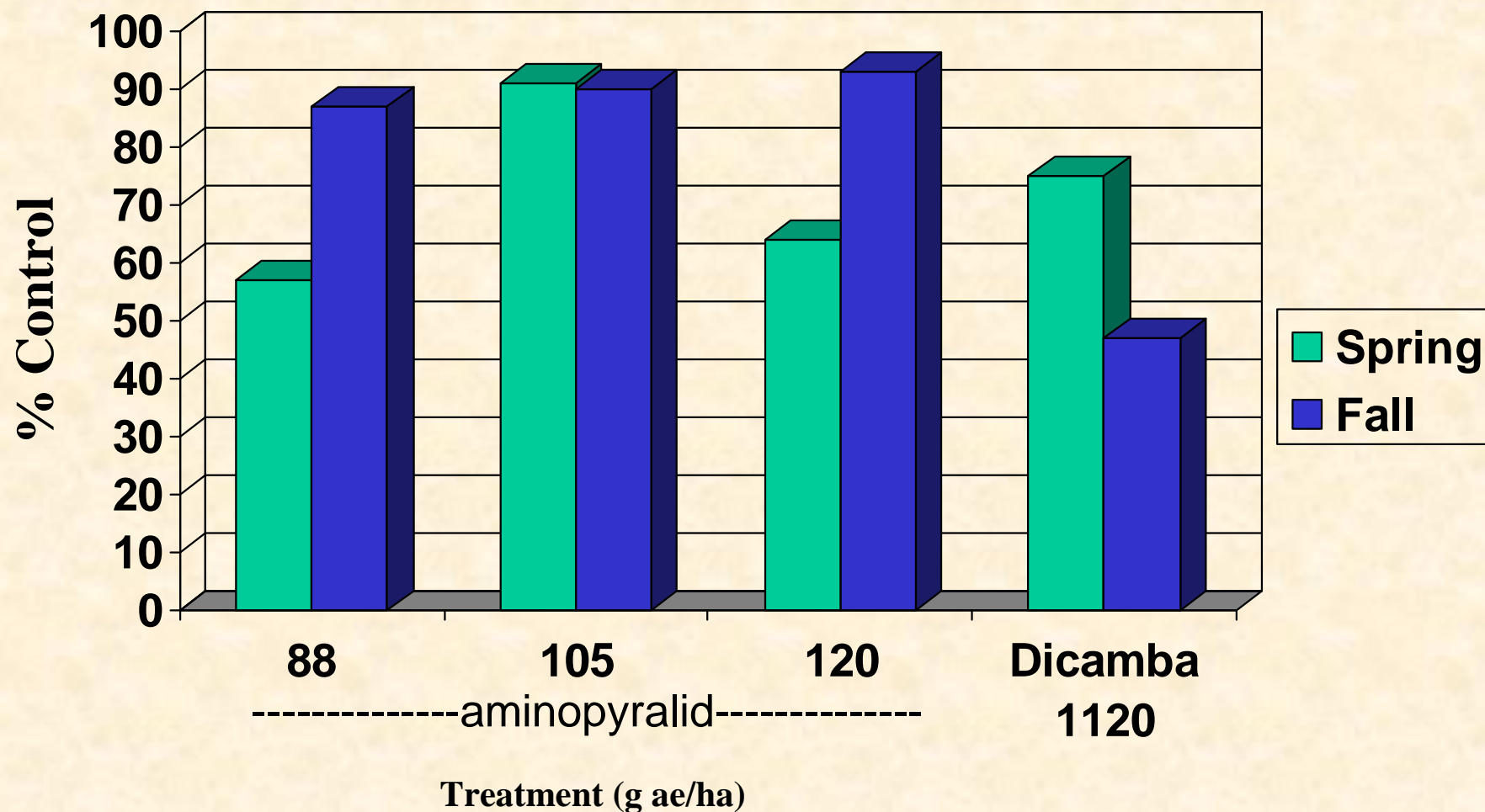


Telar at 1.5 oz/ac
365 DAT Applied 6/10/03
Picture 10/1/04

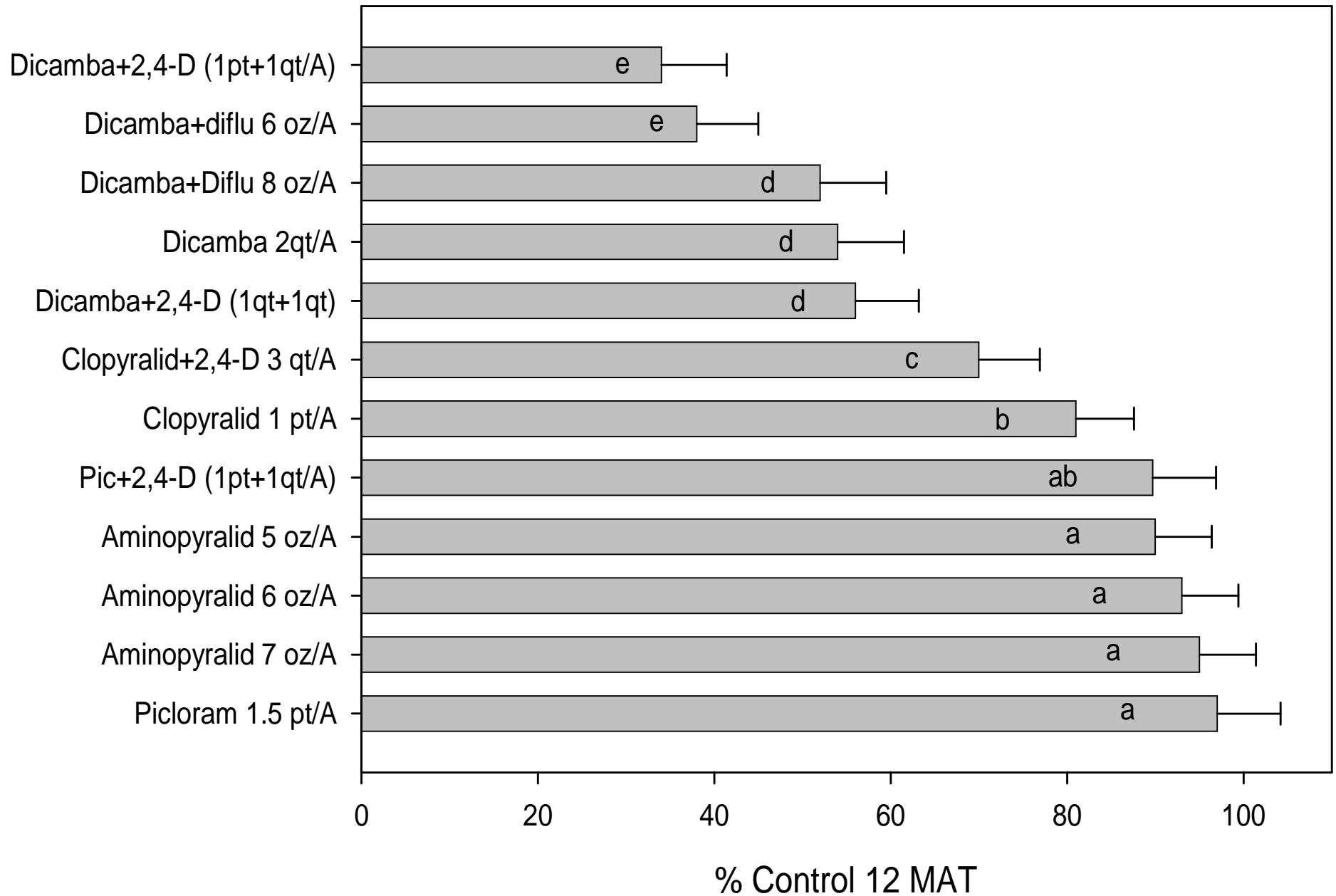


™Milestone is a trademark of Dow AgroSciences LLC

Spring vs. fall herbicide application on Canada thistle, 2 years after treatment



Canada Thistle Control Across Five Locations and Two Application Timings



Summary and Conclusions

- Aminopyralid (Milestone™) at a rate as low as 88 g ae/ha (5 fl oz/acre) can provide excellent control of Canada thistle up to 2 years after treatment compared to other commonly used herbicides which typically utilize higher rates of active ingredients per unit area
- Milestone applied in the fall provided better long term Canada thistle control than when applied in the spring compared to other commonly used herbicides

Questions?

