INTEGRATED MANAGEMENT OF LEAFY SPURGE

ON CAMP GRAFTON SOUTH

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ABSTRACT

Milakovic, Angela Marie, M.S., Program of Natural Resource Management, Department of Animal and Range Sciences, College of Agriculture, North Dakota State University, April 2002. Integrated Management of Leafy Spurge on Camp Grafton South. Major Professor: Dr. William T. Barker.

Leafy spurge (*Euphorbia esula* L.) is an introduced, noxious, perennial weed species in North Dakota that forms colonies and competitively overtakes useful forage on Camp Grafton South (CGS), ND. Because of the prolific nature of leafy spurge, control is difficult to achieve by using one control method only. A description of several accepted leafy spurge control techniques is presented.

Integrated pest management (IPM) is a system designed to enhance leafy spurge control by utilizing two or more control methods in combination. Biological control with insects; multi-species grazing of sheep, goats, and cattle; cultural control; and herbicide control are illustrated individually as well as in tandem, ultimately outlining a leafy spurge IPM approach for CGS.