

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

4 - Fourth Eastern Wildlife Damage Control
Conference (1989)

Eastern Wildlife Damage Control Conferences

9-25-1989

GOPHER: A Computerized Cost/Benefit Analysis

Scott E. Hygnstrom

University of Nebraska-Lincoln, shygnstrom1@unl.edu

Ronald M. Case

University of Nebraska - Lincoln

Follow this and additional works at: <http://digitalcommons.unl.edu/ewdcc4>



Part of the [Environmental Health and Protection Commons](#)

Hygnstrom, Scott E. and Case, Ronald M., "GOPHER: A Computerized Cost/Benefit Analysis" (1989). *4 - Fourth Eastern Wildlife Damage Control Conference (1989)*. 25.

<http://digitalcommons.unl.edu/ewdcc4/25>

This Article is brought to you for free and open access by the Eastern Wildlife Damage Control Conferences at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in 4 - Fourth Eastern Wildlife Damage Control Conference (1989) by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

GOPHER: A Computerized Cost/Benefit Analysis of Pocket Gopher Control

Scott E. Hygnstrom, Department of Forestry, Fisheries and Wildlife, University of
Nebraska, Lincoln, NE 68583

Ronald M. Case, Department on Forestry, Fisheries and Wildlife, University of
Nebraska, Lincoln, NE 68583

Abstract: GOPHER is a computer program that can assist landowners, extension agents, and resource personnel in determining the cost-effectiveness of various methods of pocket gopher control. The program is interactive and user-friendly. It allows for the input of variables, including: crop type, acreage, expected yield and value, and acreage infested. Material and labor costs can be assigned or standard default values can be used. Other "fixed" variables can be changed, including: pocket gopher density and rate of increase, rate of treatment, rate of retreatment, and forage recovery rate. With these variables and values, GOPHER generates the costs, time, and economic feasibility of pocket gopher control. Control methods include: hand baiting, hand probe, gopher probe, burrow builder, and trapping. It also provides estimates of costs for second treatments and pocket gopher expansion without control. Free copies of GOPHER are available from the authors by providing formatted 5 1/4 inch floppy disks or 3 1/2 inch disks.