

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Great Plains Wildlife Damage Control Workshop Proceedings Wildlife Damage Management, Internet Center for

April 1995

Frontmatter and Contents

Follow this and additional works at: <https://digitalcommons.unl.edu/gpwcwp>



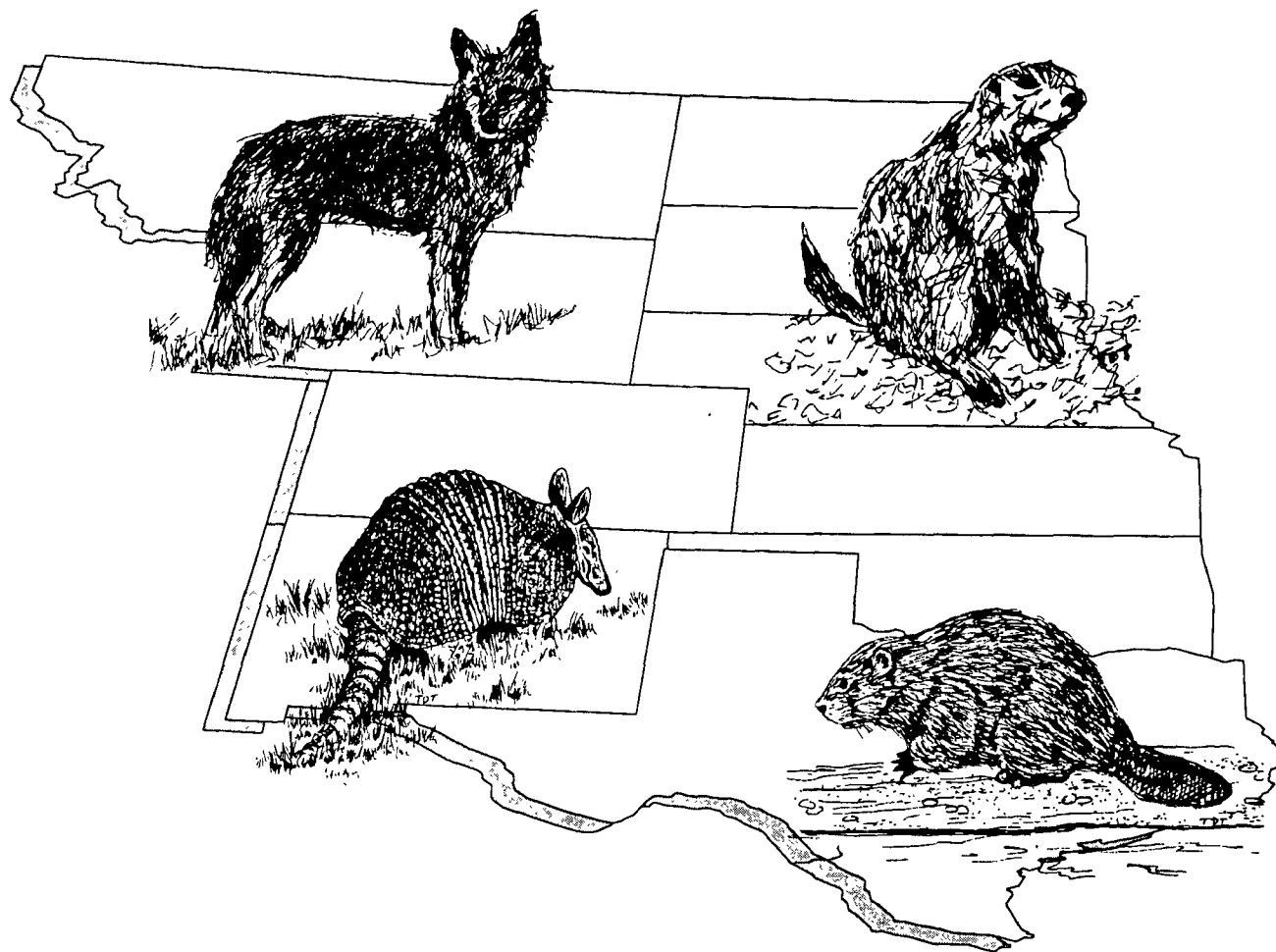
Part of the [Environmental Health and Protection Commons](#)

"Frontmatter and Contents" (1995). *Great Plains Wildlife Damage Control Workshop Proceedings*. 434.
<https://digitalcommons.unl.edu/gpwcwp/434>

This Article is brought to you for free and open access by the Wildlife Damage Management, Internet Center for at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Great Plains Wildlife Damage Control Workshop Proceedings by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Twelfth Great Plains Wildlife Damage Control Workshop Proceedings

April 10-13, 1995
Tulsa, Oklahoma



Great Plains Agricultural Council
Publication 153



Masters, Ronald E., and J. Grant Huggins, Editors, 1996. Twelfth Great Plains Wildlife Damage Control Workshop Proceedings. Tulsa, OK. 135 pp.

Abstract

These proceedings consist of 38 presented papers on a variety of subjects relative to the prevention and control of wildlife damage. Subject sessions included: Wildlife Damage Management and the Public, Predators, Rodents, Birds, Programs and Projects, USDA-APHIS-ADC Activities, Professionalism, and General.

Copies of these proceedings are available for \$15 each, postage included. Send check, money order, or purchase order to GPWDCW Proceedings, Wildlife Specialist, 008C Ag Hall, Oklahoma State University, Stillwater, OK 74078.

Great Plains Wildlife Damage Control Workshops

1st	1973	Manhattan, KS	F. Robert Henderson
2nd	1975	Manhattan, KS	F. Robert Henderson
3rd	1977	Rapid City, SD	F. Robert Henderson
4th	1979	Manhattan, KS	F. Robert Henderson
5th	1981	Lincoln, NE	Robert M. Timm and Ron J. Johnson
6th	1983	Wichita, KS	William F. Andelt
7th	1985	San Antonio, TX	Daniel B. Fagre
8th	1987	Rapid City, SD	Daniel W. Uresk and Greg L. Schenbeck
9th	1989	Fort Collins, CO	William F. Andelt and Robert S. Cook
10th	1991	Lincoln, NE	Scott E. Hygnstrom, Ronald M. Case, and Ron J. Johnson
11th	1993	Kansas	F. Robert Henderson
12th	1995	Tulsa, OK	Ron E. Masters and J. Grant Huggins
13th	1997	Texas	Dale Rollins

NOTE: Mention of trade names, proprietary products or vendors in the proceedings does not constitute a guarantee, warranty, or endorsement of those products, nor does it imply criticism of unnamed products.

Twelfth Great Plains Wildlife Damage Control Workshop Proceedings

April 10-13, 1995
Doubletree Hotel at Warren Place
Tulsa, Oklahoma

Editors:

Ronald E. Masters
Extension Forestry, Wildlife and Aquaculture
Oklahoma State University

J. Grant Huggins
Samuel Roberts Noble Foundation

Sponsors:

Oklahoma Cooperative Extension Service
Samuel Roberts Noble Foundation
USDA-APHIS-ADC
The Wildlife Society
Oklahoma State University, Department of Forestry
Oklahoma Department of Wildlife Conservation
Critter Control, Inc.
Utah State University, Berryman Institute
Oklahoma Chapter, The Wildlife Society
Central Mountains and Plains Section, The Wildlife Society
Oklahoma Cooperative Fish and Wildlife Research Unit
Oklahoma State University, Department of Zoology
National Animal Damage Control Association
Great Plains Agriculture Council

PREFACE

Incidences of urban and rural wildlife and human conflicts have rapidly moved to the forefront in the wildlife field in recent years. Workshops such as the Great Plains provide a regional forum for training and interaction between federal, state, county, and private sector professionals in this field. State-of-the-art techniques and skills are needed to address the increasingly complex array of problems we deal with.

We recognize F. Robert Henderson, retired Extension Animal Damage Control Specialist, Kansas State University, for his efforts initiating and supporting this valuable workshop. We would like to thank all those who assisted with this workshop. Special thanks to the Noble Foundation for the printing of these Proceedings. Sharon Burris handled the layout and design of the Proceedings. George Graves and the Oklahoma ADC field personnel did a tremendous job with the field trip and managing the logistics of everything. Although mentioned elsewhere, the number and level of support from contributors was gratifying and deeply appreciated.

We also thank the secretarial staff from the Department of Forestry and the Noble Foundation for handling phone calls and the myriad of details. Nancy Rains deserves a special note of thanks for her coordination role and making sure everything was accomplished in a timely fashion and that nothing was left out. We also thank the students from Oklahoma State University and University of Nebraska at Lincoln for assistance with projectors, lighting, and the many other tasks they were called upon to handle. Special recognition is due Jeff Sparks for coordinating student efforts. Finally, this workshop could not have taken place without the calm, collected presence of Jandra Pricer, who knew what to do, when to do it, and how.

Traditionally, the Great Plains Wildlife Damage Control Workshop has been held under the auspices of the Great Plains Agricultural Council, Wildlife Committee. The original member states of Montana, Wyoming, North Dakota, South Dakota, Colorado, Nebraska, Kansas, New Mexico, Oklahoma, and Texas formed the regional boundaries. It is evident from this year's participant list that this workshop serves a much larger constituency than the original member states. Although the Great Plains Agricultural Council was disbanded in 1995, we plan to continue this workshop biennially. Extension Wildlife Specialists in the original member states and peripheral states will continue to be the organizing force for workshops to come. The Thirteenth Great Plains Wildlife Damage Control Workshop will be hosted by Dale Rollins, Texas A&M University, in 1997. We look forward to seeing you there.

Ron Masters, Co-Chairman
Grant Huggins, Co-Chairman

Acknowledgments

Program Committee:

William Andelt
 Kevin Grant
 George Graves
 Champe Green
 Grant Huggins
 Scott Hygnstrom
 Alex Lara
 Ron Masters
 Jim Miller
 Jandra Pricer
 Nancy Rains
 Dale Rollins
 Robert Schmidt
 Mike Shaw

Editorial Committee:

Ronald E. Masters, Oklahoma State
 University
 J. Grant Huggins, Samuel Roberts
 Noble Foundation
 Terrence G. Bidwell, Oklahoma State
 University
 James H. Shaw, Oklahoma State
 University
 David M. Leslie, Jr., Oklahoma State
 University
 Stephanie Compton, Oklahoma State
 University
 Jeffrey C. Sparks, Oklahoma State
 University
 Montie D. Stewart, Oklahoma State
 University
 Champe Green, Oklahoma State
 University
 Mike Shaw, Oklahoma Department
 of Wildlife Conservation
 Nancy Rains, Oklahoma State
 University

Moderators:

Ron Masters
 George Graves
 Dallas Virchow
 Jim Miller
 Ken Gee
 Scott Hygnstrom
 Mike Porter
 Dale Rollins
 Jim Armstrong
 Champe Green

Editorial Assistants:

Mari Ann Cunningham
 Juanita Frazee
 Cindy Sturm
 Joni Lewis

Student Assistants:

Jeff Sparks, Oklahoma State University
 Jason Pike, Oklahoma State University
 Chad Thomas, Oklahoma State University
 Stephanie Smith, Oklahoma State University
 Montie Stewart, Oklahoma State University
 Lark Bowmaster, University of Nebraska —
 Lincoln
 Spencer Nelson, University of Nebraska —
 Lincoln
 Scott Stopak, University of Nebraska —
 Lincoln
 Tyson Menne, University of Nebraska —
 Lincoln
 Jerry Newth, University of Nebraska —
 Lincoln
 Coby Billings, University of Nebraska —
 Lincoln

Predator Paradigm Panel:

Bill Andelt, Colorado State University
David M. Leslie, Jr., National Biological Service
Robert Schmidt, Utah State University
Dale Rollins, Texas A&M University
Jim Shaw, Oklahoma State University
Terry Messmer, Utah State University

Commercial Exhibitors:

Animal Care Equipment and Services
P.O. Box 3275
Crestline, CA 92325

Bird Shield Repellent Company
420 W. Main Street
Pullman, WA 99163

Critter Control, Inc.
640 Starkweather
Plymouth, MI 48170

M & M Fur Company
Box 15
Bridgewater, SD 57319

Margo Supplies, Ltd.
P.O. Box 5400
High River, Alberta, Canada, TIV IMS

Oklahoma Animal Damage Control
2800 N. Lincoln Blvd.
Oklahoma City, OK 73105

PMC Specialist Group
4605 NE 48th Terrace
Kansas City, MO 64119

Reed-Joseph International
P.O. Box 894
Greenville, MS 38701

Tomahawk Live Trap Company
P.O. Box 323
Tomahawk, WI 54487

Table Of Contents

Twelfth Great Plains Wildlife Damage Control Workshop Summary <i>Ronald E. Masters, J. Grant Huggins</i>	3
Plenary	
Dynamics of Wildlife Damage Mananagement <i>Bobby R. Acord</i>	4
Research Priorities in Wildlife Damage Management <i>James E. Miller</i>	7
A Comparison of Attitudes Held by Wildlife Damage Managers and Animal Rights Activists <i>James B. Armstrong, Melissa E. Hutchins</i>	13
Human Health Concerns in the Practice of Wildlife Damage Management <i>John R. Fischer</i>	21
Immunocontraception and Possible Application in Wildlife Damage Management <i>Lowell A. Miller</i>	27
Birds	
Effectiveness of Alarm Calls for Deterring Heron Predation on Fish <i>William F. Andelt, Stuart N. Hopper</i>	31
Controlling Nuisance Egret and Heron Rookeries in Oklahoma <i>Kevin R. Grant, James Watson</i>	32
Depredation of Catfish by Double-Crested Cormorant at Aquaculture Facilities in Oklahoma. <i>Robert L. Simmonds, Jr., Alexander V. Zale, David M. Leslie, Jr.</i>	34
Protecting Juvenile Salmonids from Gull Predation Using Wire Exclusion Below Hydroelectric Dams <i>John E. Steuber, Mikel E. Pitzler, Jr., Gary Oldenburg</i>	38
Wedelia: A Potential Ground Cover for Reducing the Attractiveness of Tropical Airfields to Birds <i>Michael A. Linnell, Michael R. Conover, Tim J. Ohashi</i>	42
Livestock Herding Dogs: A Unique Application for Wildlife Damage Management <i>Roger A. Woodruff, Jeffery S. Green</i>	43
Using Sound, Visual, and Tactile Products to Repel Birds <i>Mona Zemsky</i>	46
Effective Repellency Concentration of Bird Shield Repellent ^(TM) with Methyl Anthranilate to Exclude Ducks and Geese from Water Impoundments <i>Leonard R. Askham</i>	48
Deer	
Wild Ungulate Depredation on Winter Wheat: Effects on Grain Yield <i>Dennis D. Austin, Phillip J. Urness</i>	51
Effects of Mule Deer Grazing on Alfalfa Seed Production <i>Dennis D. Austin, Phillip J. Urness</i>	56
An Evaluation of Oklahoma's Depredation Program for Handling Deer Damage to Agricultural Crops <i>Michael G. Shaw</i>	60
Deer Exclusion Efforts to Reduce Crop Damage in Michigan and Northeast Wisconsin <i>Jim Isleib</i>	63
Rodents	
Private Beaver Management in Oklahoma <i>Julianne Whitaker</i>	70

Incidence of <i>Giardia</i> in Beaver and Nutria in Southeast Texas <i>Brett Dunlap</i>	73
Plastic Visual Barriers were Ineffective at Reducing Recolonization Rates of Prairie Dogs <i>Scott E. Hygnstrom</i>	74
Effectiveness of Squirrel Fencing for Protecting Pecan Groves <i>McAlister D. Maxwell, J. Grant Huggins, Clark E. Adams</i>	77

Predation

Predation of Big Game and Livestock in the Texas Trans-Pecos <i>S. Kemble Canon</i>	80
Canine and Gray Fox Rabies Epizootics in Texas <i>Keith A. Clark, Pamela J. Wilson</i>	83
The Oral Rabies Vaccination Project and the Experimental Use of Raboral V-RG in the South Texas Canine Rabies Epizootic <i>Gayne Fearneyhough</i>	88
Curbing the Illegal Use of Pesticides in Predator Control <i>Jeff Jacoby, Martin Fletcher, Ted Warfield</i>	89
Financial Compensation for Wildlife Damage: A Review of Programs in North America <i>Kimberly K. Kessler</i>	90
Current Research on Improving Capture Devices for Coyotes <i>Robert L. Phillips, Kenneth S. Gruver</i>	91
Cue Enhancement of Lithium-Chloride-Induced Mutton/Sheep Aversions in Coyotes <i>Ray T. Sterner</i>	92
Wyoming's M-44 program: An Overview and Assessment of Private and Commercial Applicators <i>Henry R. Uhdén</i>	96
The Puma in the Central Mountains and Great Plains <i>Jay W. Tishendorf, F. Robert Henderson</i>	99
Resolving Human-Large Felid Conflicts Associated with Protected Areas in India <i>N.P.S. Chauhan, V.B. Sawarkar, H.S. Pabla</i>	103

Attitudes, Perspectives, and Techniques

Survey of the Nuisance Wildlife Control Industry with Notes on their Attitudes and Opinions <i>Thomas G. Barnes</i>	104
Wildlife Damage Managers and Euthanasia <i>Robert H. Schmidt</i>	109
Environmental Assessment of Wildlife Damage Control for Wildlife Protection <i>Michael J. Bodenchuck</i>	111
Biodiversity and Wildlife Damage Management <i>Ronald G. Eckstein, Robert C. Willging</i>	113
The Efficacy of Naphthalene and Sulfur Repellents to Cause Avoidance Behavior in the Plains Garter Snake <i>Dennis M. Ferraro</i>	116
Using Telementary Equipment for Monitoring Traps and Snares <i>Thomas D. Halstead, Kenneth S. Gruver, Robert L. Phillips, Richard E. Johnson</i>	121
Feral Hogs in the Rolling Plains of Texas: Perspectives, Problems, and Potential <i>Douglas R. Tolleson, William E. Pinchak, Dale Rollins, Leland J. Hunt</i>	124
Ripening Field Corn Lost to Wildlife in 1993 <i>Alice P. Wywiałowski</i>	129

Participants

130