

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

---

3 - Third Eastern Wildlife Damage Control  
Conference (1987)

Eastern Wildlife Damage Control Conferences

---

October 1987

## Frontmatter and Contents

Follow this and additional works at: <http://digitalcommons.unl.edu/ewdcc3>



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

---

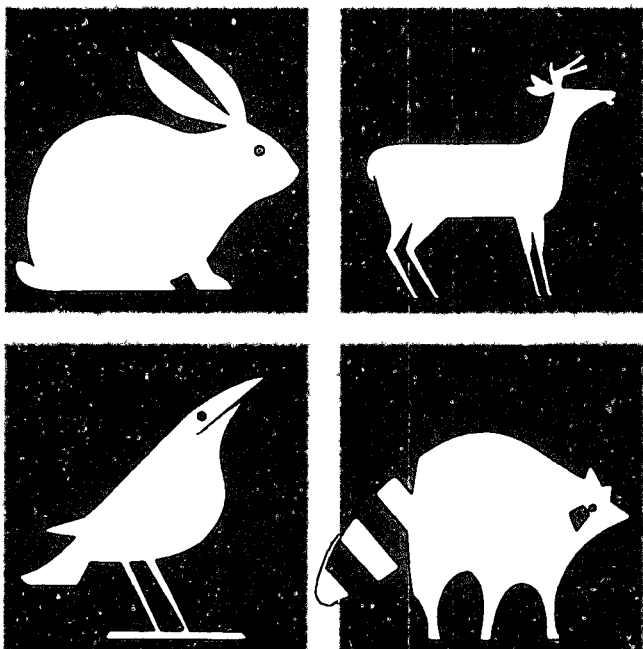
"Frontmatter and Contents" (1987). 3 - *Third Eastern Wildlife Damage Control Conference (1987)*. 16.  
<http://digitalcommons.unl.edu/ewdcc3/16>

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 3 - Third Eastern Wildlife Damage Control Conference (1987) by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

---

---

# THE THIRD EASTERN WILDLIFE DAMAGE CONTROL CONFERENCE



---

---

***Proceedings***

PROCEEDINGS  
OF THE THIRD EASTERN WILDLIFE  
DAMAGE CONTROL CONFERENCE

Edited by  
Nicholas R. Holler

Editorial Assistance  
Judy B. Christian

October 18-21, 1987  
Gulf State Park Resort  
Gulf Shores, Alabama

Sponsored by

Alabama Cooperative Extension Service  
Department of Zoology and Wildlife Science,  
Auburn University  
Alabama Cooperative Fish and Wildlife Research Unit  
USDA Animal and Plant Health Inspection Service,  
Animal Damage Control  
USDA Extension Service  
USDA Forest Service  
The Wildlife Society  
Alabama Chapter of The Wildlife Society  
Alabama Department of Conservation and Natural Resources,  
Division of Game and Fish  
Alabama Agricultural Experiment Station

Conference Committee

H. Lee Stribling, Cochairman, Auburn University  
Nicholas R. Holler, Cochairman, Auburn University  
Frank L. Boyd, USDA-APHIS-ADC, Mississippi State  
Peter T. Bromley, Virginia Cooperative Extension  
Service  
James L. Byford, Agricultural Extension Service, University  
of Tennessee  
Daniel J. Decker, Department of Natural Resources, Cornell  
University  
Richard A. Dolbeer, Denver Wildlife Research Center, Sandusky,  
Ohio  
Edwin J. Jones, Mississippi Cooperative Extension Service  
Charles D. Kelley, Alabama Department of Conservation and  
Natural Resources  
James E. Miller, USDA Extension Service  
Gary J. San Julian, North Carolina Extension Service

## Purpose and Background

The Eastern Wildlife Damage Control Conference originated in 1983 at Cornell University as a program of the New York State Cooperative Extension Service, with funding from the Renewable Resources Extension Program through the Extension Service, USDA. The interest in and success of the conference resulted in plans for a second conference to be held in 1985 at North Carolina State University. The second conference reflected growing sponsorship and continuing interest as reflected in the quality of papers presented and in attendance. Therefore, plans were made to continue the conference in alternate years with the third conference to be presented in 1987 at Gulf Shores, Alabama hosted by Auburn University.

Conflicts between humans and wildlife have continued to increase with human population growth and dispersion into rural habitats, with intensified land use of all types, and with greater use of natural landscapes in the urban/suburban environment. Wildlife problems are of major concern in numerous agricultural, forestry, and residential situations. Damage involves loss of resources, loss of property, and sometimes loss of life. Continued support for maintenance of many wildlife populations is dependent on our ability to address these problems.

Wildlife damage control is an increasingly important discipline within the profession of wildlife management. The discipline has been developing rapidly as a science and in complexity. There is a need to periodically bring research, extension, and agency personnel together to discuss recent advances in technology, problem definition, and policy. Through this type of interchange new and better damage control strategies are formulated, priority areas for research are identified, and new information is disseminated. The Eastern Wildlife Damage Control Conference continues to be a major means for improving communication within the discipline.

## Proceedings

The proceedings were reproduced from camera-ready copy provided by the authors. In a few instances only abstracts were submitted for publication. The quality of the proceedings is a direct reflection of the efforts made by each author. Additionally, Judy Christian spent many hours checking, collating, and putting the papers into proper order for the printer; Lee Stribling made all arrangements for printing and distribution. Their assistance is greatly appreciated. Appreciation is also extended to the many graduate students who assisted with the Conference, and especially to Mark S. Wallace and David W. Mason for their logistical assistance. Funds to support publication of these proceedings were provided by The Wildlife Society, USDA Animal and Plant Health Inspection Service--Animal Damage Control, USDA Cooperative Extension Service, and USDA Forest Service. N.R.H.

## CONTENTS

	PAGE
TECHNICAL PAPERS	
BIRDS	
Use of DRC 1339 to Control Crows in Three Roosts in Kentucky and Arkansas, Frank L. Boyd and Douglas I. Hall	3
Control of Ring-Billed Gull Colonies at Urban and Industrial Sites in Southern Ontario, Canada, H. Blokpoel and G. D. Tessier	8
Distribution and Impact of Canada Goose Crop Damage in East-Central Wisconsin, James Heinrich and Scott Craven	18
The Bird Strike Hazard (BASH) Program, Capt. Edgardo R. Farraro and Capt. Russell P. DeFusco	20
RODENTS	
The Use of the T-Culvert Guard to Protect Road Culverts from Plugging Damage by Beavers, K. J. Roblee	25
Landowner Perceptions of Beaver Damage and Control in Arkansas, T. B. Wigley and M. E. Garner	34
The Problem of Planting Louisiana Swamplands When Nutria ( <u>Myocastor coypu</u> ) Are Present, W. H. Conner and J. R. Toliver	42
Rodenticide Use in Agricultural Crops, Terrell P. Salmon	50
ECONOMICS AND PROBLEM DEFINITIONS	
Wildlife Damage to Agriculture in Nebraska: A Preliminary Cost Assessment, R. J. Johnson and R. M. Timm	57
The Economic Impact of Wildlife Damage on Hudson Valley Orchards, M. Phillips, C. G. Forshey, G. B. White and M. E. Richmond	66
Categorization and Seasonal Periodicity of Terrestrial Vertebrate Pest Control Inquiries in Virginia, Harry J. Dutton, Jefferson L. Waldon and Peter T. Bromley	83
A State-Administered User-Pay Program for Nuisance Wildlife Control, Dale W. May	89
DEER	
Effectiveness of Human Hair, BGR, and a Mixture of Blood Meal and Peppercorns in Reducing Deer Damage to Young Apple Trees, Michael R. Conover and Gary S. Kania	97

Preliminary Testing of a Selenium-Based Systemic Deer Browse Repellent, T. R. Angradi and W. M. Tzilkowski	102
Use of Soybean Fields in Eastern Virginia by White-Tailed Deer, Linda A. Lyon and Patrick F. Scanlon	108
Deer Damage Control Preferences and Use Decisions of New York Orchardists, K. G. Purdy, W. F. Siemer, G. A. Pomerantz, and T. L. Brown	118
Home Range Responses of White-Tailed Deer to Crop-Protection Fences, S. E. Hygnstrom and S. R. Craven	128
Perceptions and Management Preferences of Game Wardens and Extension Agents Towards Deer Damage to Soybeans, Linda A. Lyon and Patrick F. Scanlon	132

#### BLACKBIRDS

Great-Tailed Grackle Predation on South Texas Citrus, John Hobbs and Fred G. Leon	143
Status of Mesuro <sup>®</sup> as a Bird Repellent for Cherries and Other Fruit Crops, Mark E. Tobin and Richard A. Dolbeer	149
Methiocarb-Treated Rice Seed Applied after Field Draining Fails to Repel Blackbirds from Sprouting Rice, N. R. Holler, P. W. Lefebvre, R. E. Matteson, G. R. Gutknecht, R. A. Dolbeer	159
A Method for Assessing Blackbird Damage to Ripening Rice, Robert G. Wright, Keith A. Arnold, and Michael O. Way	164
Decontamination of a <u>Histoplasma capsulatum</u> -Infested Blackbird Roost: Use of a Sprinkler System to Apply Formalin, A. R. Stickley, Jr., J. R. Pruitt, C. E. Hume, T. Pass II, and C. H. Gayle	171
Controlling Blackbirds and Starlings at Winter Roosts Using PA-14, J. F. Heisterberg, A. R. Stickley, Jr., K. M. Garner, and P. D. Foster, Jr.	177
DRC-6749--An Avian Wetting Agent of Low Aquatic Toxicity, P. W. Lefebvre, T. D. Bills, A. R. Stickley, Jr., R. E. Matteson, and L. L. Marking	184
Temporal Use Patterns of Wintering Starlings at a Southeastern Livestock Farm: Implications for Damage Control, J. F. Glahn, S. K. Timbrook, and D. J. Twedt	194

#### URBAN WILDLIFE PROBLEMS

Public Tolerance of Deer in a Suburban Environment: Implications for Management and Control, Nancy A. Connelly, Daniel J. Decker, and Sam Wear	207
Urban Gray Squirrel Damage and Population Management: A Case History, J. Hadidian, D. Manski, V. Flyger, C. Cox, and G. Hodge	219
Fox Squirrels Cause Power Outages: An Urban Wildlife Problem, J. C. Hamilton, R. J. Johnson, R. M. Case, M. W. Riley, and W. W. Stroup	228
The Future of Wildlife Damage Control in an Urban Environment, Gary J. San Julian	229

An Evaluation of Controlled Hunting for Management of Feral Pigeons, Michael D. Hoy and Albert E. Bivings	234
Frogs Captured in Green Bean Harvest: Analysis of a Pest Problem, Donald F. Caccamise	237
The Critter Control Concept Approaches of a Firm Specializing in Nuisance Wildlife Control, Lynn Braband and Kevin Clark	248
 PREDATORS AND TRAPPING	
New Uses of Livestock Guarding Dogs to Reduce Agriculture/Wildlife Conflicts, R. Coppinger, J. Lorenz, and Lorna Coppinger	253
Characteristics of Predation and Losses in the New York Sheep Industry, Jay B. McAninch and Michael J. Fargione	260
Catch Effectiveness and Selectivity of Several Traps, Edward P. Hill	269
Wolf, Golden Eagle, and Coyote Problems in Montana, B. W. O'Gara and W. Rightmire	275
 PINE VOLES	
Bait Stations for Controlling Voles in Apple Orchards, Mark E. Tobin and Milo E. Richmond	287
Effects of Differential Pine Vole Populations on Growth and Yield of 'Mcintosh' Apple Trees, M. E. Richmond, C. G. Forshey, L. A. Mahaffy and P. N. Miller	296
 PANEL DISCUSSIONS	
STATE/FEDERAL/PRIVATE COOPERATIVE PROGRAM RELATIONSHIPS IN WILDLIFE DAMAGE CONTROL	
State/Federal/Private Cooperative Program Relationships in Wildlife Damage Control, Rene M. Bollengier, Jr.	307
Involving Hunting and Trapping in Cooperative Wildlife Damage Control, Ed Hackett	309
State/Federal/Private Cooperative Relationships in Wildlife Damage Control, Charles D. Kelley	310
Extension's Perspective of Federal, State and Private Animal Damage Control Programs, Gary J. San Julian	312
Cooperative Beaver Control: USFWS-ADC and Private/Industrial Landowners, Kim F. Rohr	314
 COYOTES IN THE EASTERN U.S.: STATUS AND IMPLICATIONS	
Status of the Coyote in the Southeastern United States, Edward P. Hill	317
Status of the Coyote in the Northeastern United States, Robert E. Chambers	318

Coyote Damage in the Southeastern United States, Edwin J. Jones	320
Taxonomic Status of Wild Canids in the Southeastern United States, Michael L. Kennedy	321
Coyote Control Techniques and Their Applications in the Eastern United States, Rick D. Owens	323
Coyotes in the Eastern US: Status and Implications --Damage Problems and Economic Losses from Coyotes in the Northeastern U.S.--Dennis Slate	325
 RESEARCH NEEDS IN WILDLIFE DAMAGE CONTROL	
Research Needs in Education and Research Institutions, Jay B. McAninch	329
Research Needs in Wildlife Damage Control, James E. Miller	330
A Perspective from a State Department of Agriculture, Robert J. Mungari	332
Nonpredatory Mammal Damage Research Needs, John L. Seubert	335
Research Needs as Perceived by State Directors in the Eastern ADC Region, Dennis Slate	336
 CONTROVERSIES IN WILDLIFE DAMAGE CONTROL	
Lethal Roost Toxicants for Control of Starlings and Blackbirds, David L. Otis	341
Avoiding Controversies That Impede Wildlife Damage Control, B. W. O'Gara	343
Management of Suburban Deer: An Emerging Controversy, Daniel J. Decker	344
The Urban-Suburban Canada Goose: An Example of Short-Sighted Management?, Michael R. Conover	346
 CLOSING REMARKS	
A Need for Professionalism in Wildlife Damage Control, James E. Miller	349
 LIST OF PARTICIPANTS	 357