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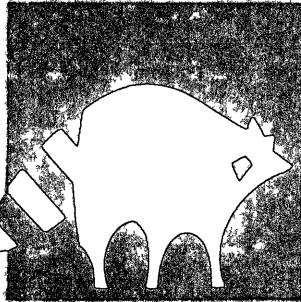
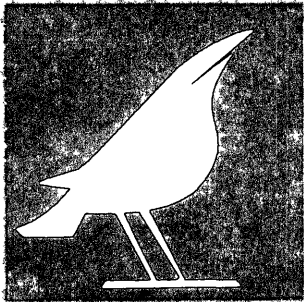
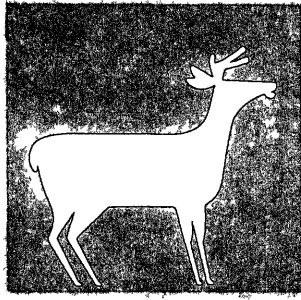
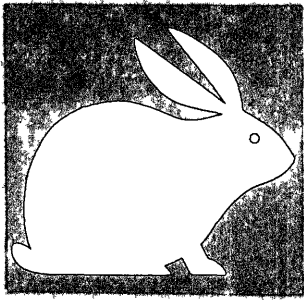


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THE FOURTH EASTERN WILDLIFE
DAMAGE CONTROL CONFERENCE



Proceedings

**THE FOURTH EASTERN WILDLIFE
DAMAGE CONTROL CONFERENCE**

Proceedings

PROCEEDINGS
OF THE FOURTH EASTERN WILDLIFE
DAMAGE CONTROL CONFERENCE

Edited by
Scott R. Craven

Editorial Assistance
Susan Nichols

September 25-28, 1989
Concourse Hotel
Madison, Wisconsin

Sponsored by:

Wisconsin Department of Natural Resources
USDA Animal and Plant Health Inspection Service,
Animal Damage Control
University of Wisconsin Extension - Cooperative Extension
Department of Wildlife Ecology - University of Wisconsin-Madison
National Animal Damage Control Association
The Wildlife Society

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Nicholas R. Holler, U.S. Fish and Wildlife Service, Auburn University
Gary J. San Julian, North Carolina State University
and numerous other wildlife professionals involved with wildlife damage
control for help in the planning and execution of this conference.

Previous and Future Eastern Wildlife Damage Control Conferences

- 1) 1983 Ithaca, New York
- 2) 1985 Raleigh, North Carolina
- 3) 1987 Gulf Shores, Alabama
- 4) 1989 Madison, Wisconsin
- 5) 1991 Invitations pending from Vermont, New York, Nebraska, and South Carolina

Conference Purpose

Editor's note: the following statement from the Proceeding of the 3rd EWDC, as true today as it was several years ago, represents a succinct summary of the reasons behind convening the EWDC. It will remain so well into the future.

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. Format instructions were provided, but variations in type and table and figure presentation were inevitable. The quality and content of each paper are the author's responsibility. Typographical errors that may have been introduced to papers that had to be reformatted by the editorial staff are the responsibility of the editorial staff. In a few instances, only abstracts or extended abstracts are presented to allow the authors freedom of publication in professional journals. The paper by Jennings et al. on alligators in Florida was graciously submitted for inclusion even though the authors were unable to attend the conference. The panel discussions on urban Canada goose and urban deer management were highly productive but no attempt was made to transcribe the content. The editorial staff is very appreciative of the effort made by the authors to submit papers on schedule.

Proceedings availability

Copies of the 4th EWDCC proceedings are available from the USDA/APHIS/ADC office in Sun Prairie, WI (see co-chair list) for \$20 each, postage included or from future conference chairs while supplies last. As of December, 1989, proceedings from the previous 3 EWDCC's were out of print.

Trade names used or vendors mentioned in the Proceedings are used for convenience only and to represent attendance at the conference. No endorsements of products or vendors is intended nor is criticism of unnamed products implied.

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CONFERENCE SCHEDULE

TUESDAY, SEPTEMBER 26, 1989

8:00am - Registration Open - Conference Desk - Grand Ballroom Foyer
 8:30 - **OPENING SESSION - Grand Ballroom**
 8:45am **Chair: Scott Craven, University of Wisconsin-Madison**
WELCOME AND OPENING REMARKS
 Conference Co-Chairs
 8:45 - **WELCOME TO WISCONSIN**
 9:05am C. D. "Buzz" Besadny, Secretary, Wisconsin Department of Natural Resources
 Stephanie R. Binversie, Wisconsin's "Alice in Dairyland." Wisconsin Department of Agriculture, Trade, and Consumer Protection
 9:05- **THE USDA-APHIS-ADC PROGRAM IN THE UNITED STATES WITH A REVIEW OF NATIONAL ANIMAL DAMAGE CONTROL ADVISORY COMMITTEE ACTIONS AND RECOMMENDATIONS**
 9:50am Joe Packham, Deputy Administrator, USDA-APHIS-ADC, Washington, DC

9:50 - **FREE RANGING CATS: THE OVERLOOKED PREDATOR IN RURAL AMERICA**
 10:15am John Coleman and Stanley Temple, University of Wisconsin-Madison
 10:15- **BREAK - Banquet Ticket Purchase Deadline**
 10:35am
 10:35 - **THE ROLE OF PRIVATE ENTERPRISE IN WILDLIFE DAMAGE CONTROL**
 11:00am Lynn Braband, Critter Control, Rochester, NY
 11:00 - **WILDLIFE DISEASE CONCERNS IN ANIMAL DAMAGE CONTROL**
 11:25am Dr. Sarah Hurley, Wisconsin Department of Natural Resources, Madison, WI
 11:25 - **EPA UPDATE ON VERTEBRATE PESTICIDES**
 11:50am Dr. William Jacobs, Insecticide, Rodenticide Branch, U.S. EPA, Washington, DC
 11:50am - **LUNCH**
 1:15pm

Concurrent Sessions

1:15 - **Session A - Grand Ballroom**
 1:40pm **Chair: Russ Reidinger, USDA/APHIS/ADC, Denver Research Center, Denver, CO**
LAUGHING GULLS AT JFK AIRPORT: SAFETY HAZARD OR WILDLIFE RESOURCE?
 Richard Dolbeer and P. P. Woronecki, USDA/APHIS/ADC, Sandusky, OH; E. B. Butler, USDA/APHIS/ADC, Basking Ridge, NJ; S. Chevalier, JFK International Airport, Jamaica, NY
 1:40 - **A REVOLUTION IN BIRD CONTROL**
 2:05pm Michael Amir, ABP - Air Birdstrike Prevention, Worcester, MA
 2:05 - **CONTROLLING ROOSTING STARLINGS IN INDUSTRIAL FACILITIES BY BAITING**
 2:30pm Bernice Constantin, USDA/APHIS/ADC, Louisville, KY, James Glahn, USDA/APHIS/Science and Technology, Mississippi State University
 2:30 - **BREAK**
 2:55pm
 2:55 - **EVALUATION OF GRANULAR TRIMETHACARB AS A DETERRENT FOR GRAZING WATERFOWL**
 3:20pm Michael Avery and Curtis Nelms, USDA/APHIS, Florida Field Station, Gainesville, FL
 3:20 - **A REVIEW OF THE STATUS OF BIRD MANAGEMENT PRODUCTS AND DEVICES IN THE UNITED STATES**
 3:45pm Charles Areson, Bird Management Services, International, Clinton, IN
 3:45 - **A CALL-ACTIVATED SWITCH FOR CANADA GOOSE DAMAGE ABATEMENT**
 4:10pm James Heinrich, USDA/APHIS/ADC, Waupun, WI; Scott Craven, University of Wisconsin-Madison
 4:10 - **AN AUTOMATIC TRIGGER FOR BIRD FRIGHTENING DEVICES**
 4:35pm Steve Pnce and John Adams, Louisville, KY
 4:35pm **Adjourn**

1:15- **Session B - Diplomat Rooms**
 1:40pm **Chair: Dennis Slate, USDA/APHIS/ADC, State Director, New Hampshire/Vermont, Concord, NH**
AN EVALUATION OF SHEEP PREDATION AND PREDATOR CONTROL EFFORTS IN NEW YORK
 Jay McAninch, Minnesota Department of Natural Resources, Madelia, MN; M. J. Fargione, Millbrook, NY
 1:40- **COYOTE DEPREDATION CONTROL IN NEW YORK - AN INTEGRATED APPROACH**
 2:05pm Thomas Tomsa Jr., USDA/APHIS/ADC, Avoca, NY
 2:05- **DONKEYS FOR PREDATOR CONTROL**
 2:30pm Jeffrey Green, USDA/APHIS/ADC, Dubois, ID
 2:30- **Break**
 2:55pm
 2:55- **USE OF DONKEYS TO GUARD SHEEP AND GOATS IN TEXAS**
 3:20pm Murray Walton, Texas Department of Agriculture, Austin, TX C. Andy Feild, Texas Department of Agriculture, Austin, TX
 3:20- **PERSISTENCE OF TARTRAZINE (FD+C Yellow #5) IN MARKING SHEEP WOOL**
 3:45pm Richard Burns, USDA/APHIS Service and Technology, Utah State University, Logan; Peter Savarie, USDA/APHIS, Denver Research Center, Denver, CO
 3:45- **A REVIEW OF THE TIMBER WOLF IN MINNESOTA**
 4:10pm William Paul, USDA/APHIS/ADC, District Supervisor, Grand Rapids, MN
 4:10- **IMPACT OF WOLVES ON DEER IN NORTH CENTRAL MINNESOTA**
 4:35pm Todd Fuller, Minnesota Department of Natural Resources, Grand Rapids, MN
 4:35pm **Adjourn**

Evening Open - Optional Discussions

WEDNESDAY, SEPTEMBER 27, 1989

8:30- **Session A - Diplomat Rooms**
 10:05am **Chair: Scott Craven, University of Wisconsin-Madison**
 Urban Canada Goose Problems - Panel Discussion
 8:30- Beth Twigg, Citizen Goose Committee, Glendale, WI
 9:45am Darcy Debelack, Nature in the Parks Program, Milwaukee, WI
 Mark Andersen, Wisconsin Department of Natural Resources, Eagle, WI
 James Cooper, University of Minnesota, Minneapolis, MN
 Michael Conover, Connecticut Agriculture Experiment Station, New Haven, CT
 9:45- Summary and Discussion
 10:10- Break
 10:30am **Chair: James Winnat, USDA/APHIS/ADC, Wisconsin State Director, Sun Prairie, WI**
 10:55am **SURVEY OF MISSISSIPPI CATFISH FARMERS ON THE MEANS, EFFORT, AND COSTS OF REPELLING FISH-EATING BIRDS**
 Allen Stickley Jr., USDA/APHIS, Science and Technology, Mississippi State University
 10:55- **FOOD HABITS OF WADING BIRDS AT ARKANSAS MINNOW PONDS**
 11:20am Albert Bivings, Jeffery Jones, and Michael Hoy, USDA/APHIS/ADC, Stuttgart, AR
 11:20- **ECONOMIC IMPACT AND CONTROL OF WADING BIRDS AT ARKANSAS MINNOW PONDS**
 11:45am Michael Hoy, Jeffery Jones, and Albert Bivings, USDA/APHIS/ADC, Stuttgart, AR

8:30- **Session B - Grand Ballroom**
 8:55am **Chair: Jay McAninch, Minnesota Department of Natural Resources, Madelia, MN**
POPULATION DYNAMICS OF WHITE-TAILED DEER
 Keith McCaffery, Wisconsin Department of Natural Resources, Rhinelander, WI
 8:55- **THE EXTENT AND NATURE OF DEER DAMAGE TO COMMERCIAL NURSERIES IN NEW YORK**
 9:15am Roger Sayre and Daniel Decker, Cornell University, Ithaca, NY
 9:15- **PREFERENCE OF WHITE-TAILED DEER FOR CORN HYBRIDS IN WINTER**
 9:40am D. K. Ingebrigtsen and J. B. McAninch, Minnesota Department of Natural Resource, Madelia, MN
 9:40- **GIS: A TOOL FOR ANALYZING AND MANAGING DEER DAMAGE TO CROPS**
 10:05am Glenn Dudderar, Jonathan Haufler, Scott Winterstein, and Petrus Gunarso, Michigan State University, East Lansing, MI
 10:05- Break
 10:30am **Chair: Thomas Hauge, Wisconsin Department of Natural Resources, Madison, WI**
 11:45am **Panel/Urban Deer**
 William Ishmael, Wisconsin Department of Natural Resources, Pike Lake, WI
 Representative of Village of River Hills, River Hills, WI
 Carol Simon, Coalition for Responsible Ecology, West Allis, WI

Afternoon Session

1:20- **Session A - Grand Ballroom**
 1:45pm **Chair: James Miller, National Program Leader - Fish and Wildlife, USDA-Extension Service, Washington, DC**
FARMER ATTITUDES TOWARD WILD TURKEYS IN SOUTHWESTERN WISCONSIN
 Scott R. Craven, University of Wisconsin-Madison
 1:45- **FARMLAND HABITAT USE BY WILD TURKEYS IN WISCONSIN**
 2:10pm Robert Wright, John Kubisiak, and R. Neal Paisley, Wisconsin Department of Natural Resources, LaCrosse, WI
 2:10- Break
 2:30pm **POPULATION DYNAMICS OF BEAVER**
 2:55pm Neal Payne, University of Wisconsin-Stevens Point
 2:55- **BEAVER AND BEAVER DAM REMOVAL IN WISCONSIN TROUT STREAMS**
 3:20pm Larry Dickerson, USDA/APHIS/ADC, Rhinelander, WI
 3:20- **DEMONSTRATION ELECTRIC FENCES FOR BEAR DAMAGE CONTROL AT APIARIES IN WESTERN NEW YORK**
 3:45pm Janet Sillings, USDA/APHIS/ADC, Albany, NY
 3:45- **BEAR DAMAGE IN VIRGINIA**
 4:10pm Michael Vaughn, Virginia Cooperative Wildlife Research Unit, VPI, Blacksburg, VA
 4:10pm Adjourn

1:20- **Session B - Diplomat Rooms**
 1:45pm **Chair: Scott Hygnstrom, University of Nebraska, Lincoln**
ZINC PHOSPHIDE RODENTICIDE REDUCES COTTON RAT POPULATIONS IN FLORIDA SUGARCANE
 Nicholas Holler, Alabama Cooperative Fish and Wildlife Unit, Auburn, AL; David Decker, USDA/APHIS/ADC, Gainesville, FL
 1:45- **A FENCING TECHNIQUE TO REDUCE RACCOON FEEDING DAMAGE TO SUGARCANE RESEARCH PLOTS**
 2:10pm Hugh Fanguy, USDA Sugarcane Research Unit, Houma, LA; Dwight LeBlanc, USDA/APHIS/ADC, Baton Rouge, LA
 2:10-2:30 Break
 2:30- **THE EFFECTIVENESS OF ORCO MOLE BAIT IN CONTROLLING MOLE DAMAGE**
 2:55pm Dale Eishoff and Glenn Dudderar, Michigan State University, East Lansing, MI
 2:55- **GOPHER: A COMPUTERIZED COST-BENEFIT ANALYSIS OF POCKET GOPHER CONTROL**
 3:20pm Scott Hygnstrom and Ronald Case, University of Nebraska, Lincoln
 3:20- **AN INVESTIGATION OF ANIMAL DAMAGE ASSOCIATED WITH MAPLE SYRUP PRODUCTION**
 3:45pm Alan May, USDA/APHIS/ADC, Montpelier, VT
 3:45- **ELK AND AGRICULTURAL CROP DAMAGE IN PENNSYLVANIA**
 4:10pm Gary Witmer, Pennsylvania State University, Dubois, PA; Rawland Cogan, Pennsylvania Game Commission, Benzette, PA

THURSDAY, SEPTEMBER 28, 1989

- Grand Ballroom**
- 8:30- **Chair: Gary San Julian, North Carolina State University, Raleigh, NC**
8:55am **WILDLIFE DAMAGE IN ELECTRICAL SUBSTATIONS IN NEW YORK**
Jody Enck, Cornell University, Ithaca, NY
- 8:55- **ECOLOGY AND CONTROL OF NORTH**
9:45am **AMERICAN BATS**
Paul Robertson, Bat Conservation International, Trinity University, San Antonio, TX
- 9:45- **A REVIEW OF CONTRACEPTION IN**
10:10 **WILDLIFE**
Ulysses S. Seal, V. A. Medical Center, Minneapolis, MN
- 10:10- **Break**
10:35am
- 10:35- **U.S. FISH AND WILDLIFE SERVICE, UPDATE**
11:00am **ON FEDERAL CONTROL PERMITS**
Larry Hood, U.S. Fish and Wildlife Service, Twin Cities, MN
- 11:00- **WILDLIFE DAMAGE TO CROPS:**
11:25am **PERCEPTIONS OF AGRICULTURAL AND WILDLIFE PROFESSIONALS IN 1957 AND 1987**
Michael Conover, Connecticut Agricultural Experiment Station, New Haven, CT; Daniel Decker, Cornell University, Ithaca, NY
- 11:25- **ANIMAL DAMAGE CONTROL AND THE**
11:50am **WILDLIFE PROFESSION**
Gary San Julian, North Carolina State University, Raleigh, NC
- 11:50- **Wrap-up and Adjourn**
Noon

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