

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Proceedings of the Tenth Vertebrate Pest
Conference (1982)

Vertebrate Pest Conference Proceedings collection

2-23-1982

PROCEEDINGS TENTH VERTEBRATE PEST CONFERENCE

Follow this and additional works at: <http://digitalcommons.unl.edu/vpc10>



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

,, "PROCEEDINGS TENTH VERTEBRATE PEST CONFERENCE" (1982). *Proceedings of the Tenth Vertebrate Pest Conference (1982)*. Paper 23.

<http://digitalcommons.unl.edu/vpc10/23>

This Article is brought to you for free and open access by the Vertebrate Pest Conference Proceedings collection at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Proceedings of the Tenth Vertebrate Pest Conference (1982) by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

PROCEEDINGS

**TENTH VERTEBRATE
PEST CONFERENCE**

**Hyatt Del Monte
Monterey, California
February 23, 24, and 25, 1982**

**EDITOR
REX E. MARSH**

Arranged by the VERTEBRATE PEST COUNCIL OF THE VERTEBRATE PEST CONFERENCE

Published at the University of California, Davis, California 95616

June 1982

Cover Drawing by Harry Troughton, Visual Media, University of California, Davis

TENTH VERTEBRATE PEST CONFERENCE

VERTEBRATE PEST COUNCIL 1982

Donald H. Anderson	Ventura County Department of Agriculture
Arthur I. Bischoff	California Department of Fish and Game (Retired)
John E. Borrecco	U.S. Forest Service
Dell O. Clark	California Department of Food and Agriculture
Jerry P. Clark	California Department of Food and Agriculture
A. Charles Crabb	California Polytechnic State University
Maynard W. Cummings	University of California (Currently with American Sportsman's Club)
Richard H. Dana	California Department of Food and Agriculture (Retired)
Richard W. DeHaven	U.S. Fish and Wildlife Service
Roger L. Hothem	U.S. Fish and Wildlife Service
Walter E. Howard	University of California
Michael O. Keffer	California Department of Food and Agriculture
James W. Koehler	California Department of Food and Agriculture
Richard E. Lawley	Solano County Department of Agriculture
Minoo B. Madon	California Department of Health Services
Rex E. Marsh	University of California
Thomas K. Palmer	California Department of Food and Agriculture
Terrell P. Salmon	University of California
Charles C. Siebe	California Department of Food and Agriculture (Retired)
Jerry D. Smith	California Department of Food and Agriculture
Ronald A. Thompson	U.S. Fish and Wildlife Service

EXECUTIVE BOARD

Chairperson - Rex E. Marsh
Specialist in Vertebrate Ecology, Wildlife and Fisheries Biology, University of California, Davis, California.

Chairperson-Elect and Business Manager - Dell O. Clark
Program Supervisor, Pest Detection, California Department of Food and Agriculture, Sacramento California.

Past Chairperson (1978-1980) - Jerry P. Clark
Project Leader, Control and Eradication, California Department of Food and Agriculture, Sacramento, California.

Past Chairperson (1976-1978) - Walter E. Howard
Professor of Wildlife Biology and Vertebrate Ecologist, Wildlife and Fisheries Biology, University of California, Davis, California.

CONFERENCE COMMITTEES

Program Chairperson - Terrell P. Salmon
Wildlife Specialist, Wildlife Extension, University of California, Davis, California.

Publicity Chairperson - A. Charles Crabb
Assistant Professor, Department of Crop Science, California Polytechnic State University, San Luis Obispo, California.

Arrangements Chairperson - Jerry P. Clark
Project Leader, Vertebrate Pest Control, Control and Eradication, Department of Food and Agriculture, Sacramento, California.

Registration Chairperson - Richard DeHaven
Research Biologist, Denver Wildlife Research Center, U.S. Fish and Wildlife Service, Dixon, California.

SESSION CHAIRPERSONS

- Don J. Womeldorf
Chief, Vector Biology and Control Branch, California Department of Health Services,
Sacramento, California.
- Guy E. Connolly
Wildlife Research Biologist, Section of Predator Management Research, Denver Wildlife
Research Center, U.S. Fish and Wildlife Service, Twin Falls, Idaho.
- George W.J. Laidlaw
Vertebrate Control Evaluation Officer, Plant Products and Quarantine Directorate,
Agriculture Canada, Ottawa, Ontario.
- Richard W. Nutter
Agricultural Commissioner, Monterey County Department of Agriculture, Salinas, California.
- Glenn A. Hood
Chief, Section on Bird Damage Control, Denver Wildlife Research Center, U.S. Fish and
Wildlife Service, Denver, Colorado.
- Clyde J. Jones
Director, Wildlife Research Center, U.S. Fish and Wildlife Service, Denver, Colorado.

CONFERENCE ASSISTANTS

The conference is made possible by the efforts of many people who work for the most part behind the scene and who often receive little or no recognition for their contributions. The Council, Executive Board and Conference Committee Chairpersons wish to extend a special acknowledgment to the following individuals for their assistance at the registration desk or for serving as projectionist, and light and sound control technicians:

Alfredo Acosta	Charles Hunter	Thomas Patrick
Roger Bibb	James Jensen	Aurelio Posadas
Robin Breckenridge	James Johnson	Charles Radford
David Butterfield	Rick Keck	Frank Scaroni
Stan Clayton	Michael Keffer	Sewell Simmons
Dennis Griffin	Lester Kreps	Jerry Smith
Bart Hosman	Greg Morris	Valerie Van Way
Roger Hothem	Ross O'Connell	

CHAIRPERSONS OF PREVIOUS CONFERENCES

Walter E. Howard	1962
James W. Koehler	1964
Maynard W. Cunnings	1967
Richard H. Dana	1970
Rex E. Marsh	1972
Warren V. Johnson	1974
Charles C. Siebe	1976
Walter E. Howard	1978
Jerry P. Clark	1980

CONTENTS

	Page
OPENING REMARKS--THE CONFERENCE'S EDUCATIONAL MISSION IN VERTEBRATE PEST CONTROL Rex E. Marsh	1
VERTEBRATE PEST MANAGEMENT AND CHANGING TIMES Donald A. Spencer	2
CO-MINGLING OF NORWAY AND ROOF RATS WITH NATIVE RODENTS* Rex O. Baker.....	--
ALPHA-CHLOROHYDRIN (EPIBLOC [®]): A TOXICANT-STERILANT AS AN ALTERNATIVE IN RODENT CONTROL Ronald J. Ericsson	6
BROMETHALIN--A PROMISING NEW RODENTICIDE William B. Jackson, S.R. Spaulding, R.B.L. Van Lier, and B.A. Dreikorn.....	10
BIRD LIMES AND RAT GLUES--STICKY SITUATIONS William D. Fitzwater.....	17
THE URBAN COYOTE PROBLEM IN LOS ANGELES COUNTY Robert G. Howell.....	21
THE USE OF FENCES FOR PREDATOR DAMAGE CONTROL Dale A. Wade.....	24
MONOFLUOROACETIC ACID (COMPOUND 1080), ITS PHARMACOLOGY AND TOXICOLOGY Ernest Kun.....	34
THE ROLE OF USDA IN ANIMAL DAMAGE CONTROL James E. Miller.....	42
A TIGER PROBLEM IN INDIA Walter E. Howard.....	47
SNARES FOR PREDATOR CONTROL** Major L. Boddicker.....	50
GUARD DOGS AND GAS EXPLODERS AS COYOTE DEPREDAATION CONTROL TOOLS IN NORTH DAKOTA William K. Pfeifer and Michael W. Goos.....	55
MOUNTAIN LION PREDATION ON DOMESTIC LIVESTOCK IN NEVADA H. Russell Suminski	62
PREDATOR PROBLEMS WHEN USING SHEEP AND GOATS IN MANAGING BRUSH ON RANGELANDS James E. Bowns.....	67
DEVELOPMENT AND EVALUATION OF METHODS TO REDUCE RAT DAMAGE TO COCONUT IN THE PHILIPPINES L.A. Fiedler, M.W. Fall, and R.F. Reidinger.....	73
TRADITIONAL APPROACHES FOR PROTECTING CEREAL CROPS FROM BIRDS IN AFRICA P. Ruelle and R.L. Bruggers.....	80
SOLVING TREE SQUIRREL DEBARKING PROBLEMS IN TAIWAN--A REVIEW Pao-Chang Kuo.....	87
COMPENSATION FOR VERTEBRATE PEST DAMAGE Joseph B. Gurba.....	90
PROBLEM VERTEBRATE MANAGEMENT IN ZIMBABWE Mike J.F. Jarvis and Mike La Grange.....	95
CHANGES IN BAIT ACCEPTANCE BY RABBITS IN AUSTRALIA AND NEW ZEALAND A.J. Oliver, S.H. Wheeler, CD. Gooding, and J. Bell.....	101
THE RED EYED TURTLE DOVE (Streptopelia semitorquata) AS AN AGRICULTURAL PEST IN NIGERIA Mrs. Modupe Akande.....	104
COMMENSAL RATS: A THREAT TO POULTRY PRODUCTION IN NIGERIA [†] Oluwadare Funmilayo	107
RODENT CONTROL IN BARBADOS** Charley O. Browne.....	109

	Page
CALIFORNIA REGISTRATION PROCEDURES RELATIVE TO VERTEBRATE PESTICIDES	
Jon H. Shelgren	116
RODENT PROBLEMS RELATIVE TO MECHANICAL HARVESTING	
A. Charles Crabb and Ronald L. Riddle	119
PULSED BAITING--A NEW TECHNIQUE FOR HIGH POTENCY, SLOW ACTING RODENTICIDES	
Adrian C. Dubock	123
GREEN CHOPPED BAIT FOR THE CONTROL OF THE OREGON GROUND SQUIRREL	
Kenneth W. Wright	137
CURRENT IMPROVEMENTS IN BAITING PINE AND MEADOW VOLES	
Ross E. Byers and M.H. Merson	139
ALUMINUM PHOSPHIDE (PHOSTOXIN) AS A BURROW FUMIGANT FOR GROUND SQUIRREL CONTROL	
Terrell P. Salmon, W. Paul Gorenzel and Walter J. Bentley	143
AN IPM APPROACH TO RODENT CONTROL ON MIDWESTERN FARMS	
Robert M. Timm	147
A REVIEW OF THE SECONDARY POISONING HAZARD POTENTIAL TO WILDLIFE FROM THE USE OF ANTICOAGULANT RODENTICIDES	
Dale Kaukeinen	151
REDUCING STARLING DEPREDATIONS AT LIVESTOCK FEEDING OPERATIONS THROUGH CHANGES IN MANAGEMENT PRACTICES	
Daniel J. Twedt and James F. Glahn	159
URBAN BLACKBIRD ROOST SURVEY - 1981	
Sally S. Erdman	164
RAPTOR-MIMICKING KITES FOR REDUCING BIRD DAMAGE TO WINE GRAPES	
Roger L. Hothem and Richard W. DeHaven	171
THE CLIFF SWALLOW--BIOLOGY AND CONTROL	
W. Paul Gorenzel and Terrell P. Salmon	179
BIRD PROBLEMS AND THEIR SOLUTION IN BRITAIN	
Ernest N. Wright	186
PIGEON CONTROL: AN INTEGRATED APPROACH	
Colleen M. Martin and Lee R. Martin	190
ASSESSMENT, UNDERSTANDING AND MANAGEMENT OF BLACKBIRD-AGRICULTURE INTERACTIONS IN EASTERN CANADA	
Patrick J. Weatherhead	193
BIRD DAMAGE TO SUNFLOWERS IN THE SACRAMENTO VALLEY, CALIFORNIA [†]	
Michael L. Avery and Richard DeHaven	197
A COMPARISON OF SELECTED RODENTICIDES FOR THE CONTROL OF THE COMMON VALLEY POCKET GOPHER (<i>Thomomys bottae</i>)	
Barry R. Tickes, Lloyd K. Cheateam, and John L. Stair.....	201
RODENT REPELLENTS FOR PLANTED GRAIN	
Ron J. Johnson, Ann E. Koehler and Orvin C. Burnside.....	205
DISPERSAL AND SOME IMPLICATIONS FOR CONTROL OF THE CALIFORNIA GROUND SQUIRREL	
Dennis C. Stroud.....	210
STRYCHNINE RESIDUE STUDIES AND THEIR IMPLICATIONS IN RODENT CONTROL	
Harry G. Smith.....	214
EVALUATION OF ZINC PHOSPHIDE BAIT FOR POCKET GOPHER CONTROL ON FOREST LAND	
Victor G. Barnes, Jr., Richard M. Anthony, James Evans, and Gerald D. Lindsey	219
RESPONSES OF CAGED RED-WINGED BLACKBIRDS TO METHIOCARB ON WILD RICE [†]	
Daniel W. Moulton.....	226
A NEW SYSTEM FOR DELIVERY OF PREDACIDES OR OTHER ACTIVE INGREDIENTS FOR COYOTE MANAGEMENT [†]	
Rex E. Marsh, Walter E. Howard, Sheila M. McKenna, Barbara Butler and Douglas A. Barnum.....	229

	Page
CLOSING REMARKS-TENTH VERTEBRATE PEST CONFERENCE	
Dell O. Clark	234
TWENTIETH ANNIVERSARY OF VERTEBRATE PEST CONFERENCES IN CALIFORNIA [†]	
Walter E. Howard	235
CONFERENCE PARTICIPANTS	237

Editor's note: In the preparation of the proceedings, editorial liberties were taken on very few papers. For the most part, papers appear as originally written except for instances where minor changes were made for the sake of clarity and uniformity of style.

The editor wishes to thank Mrs. Sydni K. Gillette who typed the manuscripts and Mrs. Dorothy E. Beadle for proofreading and assistance in assembling the Proceedings for publication.

* Paper presented but not included in proceedings. To be modified for later publication.

** Although the author was unable to attend the Conference, the paper is included with his permission.

[†] This paper was accepted for publication, although it was not presented.