

TABLE OF CONTENTS

Volume 1: Research

List of Contributors

Preface

Acknowledgments

1 Research and Experimental Design

Edward O. Garton, Jocelyn L. Aycrigg, Courtney Conway, and Jon S. Horne

2 Management and Analysis of Wildlife Ecology Data

Bret A. Collier and T. W. Schwertner

3 Capturing and Handling Wild Animals

Nova J. Silvy, Roel R. Lopez, and Therese A. Catanach

4 Chemical Immobilization of Wildlife

Mark L. Drew

5 Use of Dogs in Wildlife Research and Management

David K. Dahlgren, R. Dwayne Elmore, Deborah A. (Smith) Woollett, Aimee Hurt, Julie K. Young,
Daniel Kinka, Edward B. Arnett, David Baines, and John W. Connelly

6 Identifying and Handling Contaminant-Related Wildlife Mortality/Morbidity

Steven R. Sheffield, Joseph P. Sullivan, and Elwood F. Hill

7 Wildlife Health and Disease Surveillance, Investigation, and Management

Markus J. Peterson and Pamela J. Ferro

Identification and Marking Techniques

8 Criteria for Sex and Age of Birds and Mammals

Eddie K. Lyons, Michael A. Schroeder, and Leslie A. Robb

9 Identification of Animals from Field Signs

John M. Tomeček and Jonah Evans

10 Techniques of Marking Wildlife

Nova J. Silvy, Roel R. Lopez, and Markus J. Peterson

11 Radiotelemetry, Remote Monitoring, and Data Analyses

Nova J. Silvy and Therese A. Catanach

12 Estimating Animal Abundance

Brian L. Pierce, Roel R. Lopez, and Nova J. Silvy

13 Use of Remote Cameras in Wildlife Ecology

Israel D. Parker, Roel R. Lopez, and Shawn L. Locke

14 Population Analysis in Wildlife Ecology

Douglas H. Johnson and Stephen J. Dinsmore

15 Use of Bioacoustics Monitoring Systems in Wildlife Research

Joseph M. Szewczak and Michael L. Morrison

16 Tracking Wildlife with Radar Techniques

Therese A. Catanach and Nova J. Silvy

17 Use of Unmanned Aerial Vehicles in Wildlife Ecology

Roderic G. Rosario, Megan K. Clayton, and Ian T. Gates

18 Invertebrate Sampling Methods for Use in Wildlife Research

Therese A. Catanach

19 Vegetation Sampling and Measurement

Kenneth F. Higgins, Kurt J. Jenkins, Daniel W. Uresk, Lora B. Perkins, Kent C. Jensen, Jack E. Norland, Robert W. Klaver, and David E. Naugle

20 Techniques for Wildlife Nutritional Ecology

Lisa A. Shipley, Rachel C. Cook, and David G. Hewitt

21 Simulation Modeling in Wildlife Research

Hsiao-Hsuan (Rose) Wang and William E. Grant

22 Using Geospatial Technologies in Wildlife Studies

Humberto L. Perotto-Baldivieso, Sasathorn Tapaneeyakul, and Zachary J. Pearson

23 Animal Behavior

Jessica R. Young

24 Reproduction and Hormones

Heather M. Bryan and John D. Harder

25 Conservation Genetics and Molecular Ecology in Wildlife Management

Sara J. Oyler-McCance, Emily K. Latch, and Paul L. Leberg

Common and Scientific Names of Animals and Plants

Literature Cited

Index

—

Volume 2: Management

List of Contributors
Acknowledgments

26 Strengthening Connections between Research and Management

Leonard A. Brennan, Stephen J. Demaso, Joseph P. Sands, and Matthew J. Schnupp

27 Ethics in Wildlife Science and Conservation

Markus J. Peterson, M. Nils Peterson, Tarla Rai Peterson, and Erica von Essen

28 Human Dimensions of Wildlife Management

Shari L. Rodriguez and M. Nils Peterson

29 Communications and Outreach

Susan K. Jacobson, Hannah O. Brown, and Ben S. Lowe

30 Conflict in Wildlife Science and Conservation

Andrea M. Feldpausch-Parker and Tarla Rai Peterson

31 Adaptive Management in Wildlife Conservation

John F. Organ, Daniel J. Decker, Shawn J. Riley, John E. McDonald Jr., and Shane P. Mahoney

32 Forest Management for Wildlife

Seth W. Bigelow, Carolyn G. Mahan, Amanda D. Rodewald, L. Mike Conner, and Lora L. Smith

33 Managing Rangelands for Wildlife

Vernon C. Bleich, Michael W. Oehler, and John G. Kie

34 Managing Inland Wetlands for Wildlife

Murray K. Laubhan, Sammy L. King, and Leigh H. Fredrickson

35 Management of Coastal Wetlands for Wildlife

John Andrew Nyman, Chris Elphick, and Greg Shriver

36 Managing Farmlands for Wildlife

Richard E. Warner, Jeffery W. Walk, and James R. Herkert

37 Management and Research of Wildlife in Urban Environments

Robert A. McCleery, Christopher E. Moorman, Mark C. Wallace, and David Drake

38 Managing Surface Disturbed Lands for Wildlife

Therese A. Catanach and Nova J. Silvy

39 Managing Disturbances to Wildlife and Habitats

Chad J. Parent, Fidel Hernandez, and Andrea Bruno

40 Managing State Lands for Wildlife

Thomas J. Ryder and John F. Organ

41 Managing Federal Lands for Wildlife

Bruce Beard, R. Patrick Bixler, Tom Darden, Buddy Huffaker, Mark Madison, and James G. Van Ness

42 Managing North American Indigenous Peoples' Wildlife Resources

Heather Stricker, Paige M. Schmidt, Jonathan Gilbert, Jim Dau, Diana L. Doan-Crider Serra Hoagland, Michel T. Kohl, Claudia A. Perez, Lawrence J. Van Daele, Matthew B. Van Daele, and Daniel Dupont

43 The Role of Nongovernment Organizations in Wildlife Management

Heather A. Mathewson, James J. Giocomo, and Steven P. Riley

44 Harvest Management

John W. Connelly, James H. Gammonley, and Thomas W. Keegan

45 Identification and Management of Wildlife Damage

Kurt C. Vercauteren, Richard A. Dolbeer, Aaron B. Shiels, and Eric M. Gese

46 Managing Terrestrial Invasive Species

Timothy E. Fulbright and Tyler A. Campbell

47 Ecology and Management of Small Populations

Jon S. Horne, L. Scott Mills, J. Michael Scott, Katherine M. Strickler, and Stanley A. Temple

48 Captive Propagation and Translocation

David Drake and Stanley A. Temple

49 Environmental Impact Assessment and Habitat Conservation Plans

Charles J. Randel III, Howard O. Clark Jr., Darren P. Newman, and Thomas P. Dixon

50 Managing Wildlife in a Changing Climate

Douglas B. Inkley and Bruce A. Stein

Common and Scientific Names of Animals and Plants**Literature Cited****Index.**