

Symposia

Session 14 - Tribal Wildlife Management and Conservation in the Southwest I

Welcome and Introduction to Wildlife Management on Tribal Lands in the Southwest

John E. Antonio, Sr

Natural Resources Youth Practicum

Norman Jojola

Water for Wildlife in an Arid Landscape

Timothy Smith

Wildlife Conservation on the Pueblo of Santa Ana, Sandoval County, New Mexico

Glenn Harper

Tracking big game migration and highway crossings on the Southern Ute Indian Reservation

Aran S. Johnson

The Reintroduction of a Culturally and Economically Important Species

Taos Wildlife Biologist Taos Wildlife Biologist

Movements and Migration of Golden Eagles Tagged on Hopi Lands in Arizona

Daniel Driscoll; Darren Talayumptewa; Ernal Takala; Shayne Honanie; Stanley Lomayestewa; Christopher Yaiva

Philosophies of Science and the Conceptualization of Traditional Ecological Knowledge through an Indigenous Lens in Wildlife Research

Seafha Ramos

Conservation through Empowerment

Russ Benford

Session 16 - Challenges of Balancing Stakeholder Engagement and Scientific Decision-Making to Inform Wildlife Policy

Conservation Decision-Making through Transparency, Inclusion, and Use of Best Available Science

Rebecca Humphries

Control of Apex Predators During the Restoration of Endangered Ungulates

Eric M. Rominger

Integrating Stakeholder Input and Science in Governance of the Public Trust in Wildlife

John F. Organ; Shawn A. Riley; Daniel J. Decker

Effective Implementation of the Endangered Species Act By Engaging Multiple Stakeholders

Nancy E. Mathews

Moving Feral Cat Management Forward

Christopher A. Lepczyk

The Politics of Deer Farming in North Carolina - Lessons Learned

Robert D. Brown

Women as Collaborative Leaders on Rangelands in the Western United States

Laura Van Riper

The Art of Deer Management: Finding the Sweet Spot between Biological Reality and Public Acceptance

Jason A. Sumners

Conservation By Conflict

Sherry L. Barrett

Canary in the Marijuana Field: How Wildlife Engaged Stakeholders and Policy in Addressing Environmental Impacts from Marijuana Cultivation in the Western United States

Mourad W. Gabriel

Session 17 - Structured Decision Making: A Vehicle for Navigating the Crossroads of Cultures in Wildlife Management

Road Management for a Declining Species: Integrating Multiple Objectives Through Structured Decision Making

Brian A. Crawford; John C. Maerz; Nik Heynen; Terry M. Norton; Clinton T. Moore

Bridging the Research-Management Gap: Effective Conservation Decisions for Flatwoods Salamanders through Adaptive Management

Katherine M. O'Donnell; Susan C. Walls

Applied Conservation Decision Making in Dynamic Environments: A Case Study in Puerto Rico

Krishna Pacifici

Whose Objectives Are These Anyway? - The Perils of Navigating the Cultural Crossroads Without First Looking in All Directions

Graham Long

We Have Been Talking Past Each Other: an Analysis of Decision Framings for Endangered Species Classification

Jonathan W. Cummings; Sarah J. Converse; David R. Smith; Steve Morey; Michael C. Runge

Integration of Social and Ecological Sciences for Natural Resource Decision Making: Challenges and Opportunities

Angela K. Fuller; Kelly F. Robinson; Richard Stedman; William Seamer

Organizational Decision Quality: Building a Culture of Structured Decision Making Within Federal Agencies and Their Partners

Michael C. Runge

Balancing Risk and Reward in Coastal Impoundment Management

Rachel Katz

Confronting Global Change in a Cultural Context

Jessica Mikels-Carrasco; Fred A. Johnson; Mitchell J. Eaton

Session 18 - Navigating the Path to Professional Success

Selecting the Right Applicant: Critical Examination of Resumes and Applications

Merav Ben-David

Climbing the Career Ladder Starting from Below the Bottom Rung

Colleen Olfenbuttel

Making and Working Connections to Open Doors

Nova Silvy

Making and Working Connections to Open Doors

Nova Silvy

Professional Paths in Wildlife: Pursuing Your Passion

Quentin R. Hays

Involvement in Professional Societies - Being More Than a Member

Susan Ellis-Felege

TWS Student Chapter Involvement - Your First Stop on the Road to Success

TWS Student Chapter of the Year

Session 19 - Bird Conservation on Managed Forest Landscapes

Introduction: The Role of Forest Management in Forest Bird Conservation

Gary J. Roloff

American Woodcock Reproductive Rates in Relation to Forest Structure at Local and Landscape Scales

Allie Shoffner; David Luukkonen; David Williams; Scott Winterstein

Avian Conservation Within Working Forests of the Southeastern US

Emily Jo Williams

The Role of Early Successional Forests in Maintaining Forest Bird Populations

Mark E. Swanson

An Early-Successional Shrubland Habitat Decision Support Tool

David King; Jason Coombs; Keith Nislow; Jeffrey Ritterson; Michael Akresh; Jeffrey Collins

Habitat Selection and Movement of Fledgling Cerulean and Golden-Winged Warblers in Managed Mixed-Oak Forests of the Central Appalachian Mountains

Jeffrey Larkin; Cameron Fiss; Doug Raybuck; Darin J. McNeil; Amanda Rodewald; Than Boves; Scott Stoleson

Guild-Specific Effects of Intensive Forest Management on Avian Abundance

Jake Verschuyf; Jack Giovanini; Matthew G. Betts; Andrew J. Kroll

Forest Management, Bird Diversity, and Early Successional Forests in the Southern US: Research to Date

Scott Rush

Provision of "Open Pine" Conditions on Managed Forest Landscapes in the Southeastern US: Responses from Avian Communities

Darren A. Miller

Migratory Bird Joint Ventures: Bridging Science and Implementation to Conserve Migratory Birds Across North America

Becky Keller

Session 21 - Recent Applications of Multi-State Models to Capture-Recapture and Occupancy Studies

The Multistate Model as an Omnibus Framework for Robust Inference from Mark-Recapture Studies

William Kendall

Estimating Nest Density and Productivity of Grassland Birds with Multi-State Capture-Recapture Models

Adrian P. Monroe; Richard B. Chandler; Loren W. Burger; James A. Martin

The Use of Multi-State Models to Explore Relationships between Changes in Body Condition, Habitat, and Survival of Grizzly Bears

John Boulanger; Gord Stenhouse; Marc Cattet

Multi-State Models Demonstrate Hoary Marmots Are Not Biennial Breeders

Vijay Patil

The Use of Multi-State Models with State Uncertainty to Estimate Survival and Movement Probabilities of Florida Manatees

Catherine A. Langtimm; William L. Kendall

Overview of Multi-State Models in Occupancy Estimation

Larissa L. Bailey

Identifying Drivers of Local Extinction in an Amphibian-Pathogen System Using Multi-Species Occupancy Models

Brittany Mosher; Larissa L. Bailey; Erin Muths; Kathryn P. Huyvaert

Joint Estimation of Habitat Dynamics and Species Interactions

Courtney Davis

Multi-State Models Applied to Species Interactions to Inform Endangered Species Management

Charles Yackulic

Detailed Dynamics: Using Multi-State Responses for Greater Specificity on Species Interaction Dynamics

Jay E. Jones; Andrew J. Kroll

[Session 23 - Mesos in the Middle: Strategies for Researching Understudied or Elusive Mid-Sized Mammalian Carnivores](#)

Understudied But Not Forgotten: The Importance of Mesocarnivores to Community Structure and Function

Gary Roemer

Remote Camera Sampling to Evaluate Occupancy and Intraguild Predation in Desert Carnivores

Quinn Robinson

How Far Have We Come: Radio Telemetry and GPS Technology for Mid-Sized Forest-Dependent Mammals

Katie M. Moriarty; Ryan M. Nielson; Aaron N. Facka; Sean M. Matthews; Christopher O. Kochanny

Techniques for Studying Reproduction and Associated Habitat Use in Mesocarnivores: Examples from Field Studies of Fisher and Other Members of the *Martes* Complex

Rebecca E. Green; Michael J. Joyce; Sean M. Matthews; Kathryn L. Purcell; Mark Higley; Andrzej Zalewski

Panacea or Pandora's Box: Building the Foundational Health Knowledge for a Rare Species, the Pacific Fisher

Mourad W. Gabriel

Conservation Genetics of an Uncommon Mesocarnivore, the Eastern Spotted Skunk

Alexandra A. Shaffer; J. Clint Perkins; Robert C. Dowler; Loren K. Ammerman

Culturally-Based Wildlife Conservation on Native American Lands: A Challenge of Scale and Governance

Sean Matthews; Mark Higley; Jodi Hilty

Crowd-Sourcing, Citizen Scientists, and Collecting Novel Data: The Search for the Eastern Spotted Skunk

J. Clint Perkins; Alexandra A. Shaffer; Nick W. Sharp; D. Blake Sasse; Robert C. Dowler

Designing Mesocarnivore Projects to Maximize their Scientific and Conservation Value: Lessons Learned from a Fisher Reintroduction

Aaron Facka; Roger A. Powell

Integrating Monitoring, Research and Management to Improve Conservation of Mammalian Mesocarnivores
David Jachowski

Session 34 - Wildfire and Spotted Owls: It's a Burning Issue

The Effects of Wildfire on Spotted Owls: The Elements of an Emerging Conservation Conflict

Ralph J. Gutierrez; Gavin M. Jones; M. Zachariah Peery

Federal Wildland Fire Policy & Management

Bryan Rice

Management of Spotted Owls and Their Habitat in the Western United States

Shaula Hedwall

Native American Perspectives on Fire Effects on Spotted Owls

Dee Randall; Serra Jeanette Hoagland

Using Fire as a Management Tool in Southwestern Forests

Tessa Nicolet

Beyond 'Megafires': the Role of Fire Complexity and Spatial Patterns of Severe Fire on Spotted Owls

Gavin Jones; R. J. Gutiérrez; Nicole F. Pietrunti; M. Z. Peery

California Spotted Owl Habitat Use Patterns in a Burned Landscape

Stephanie A. Eyes; Susan L. Roberts; Matthew D. Johnson

California Spotted Owl-Wildfire Associations at Territory, Landscape and Bioregional Scales in the Sierra Nevada, California

John J. Keane; Rahel Sollmann; Ross A. Gerrard; Claire V. Gallagher; Paula A. Shaklee; Thomas E. Munton; James Baldwin

Reconciling Forestchange and Contemporary Fire Patterns with Owl Habitat Requirements Inhistorically Frequent-Fire Forests

Brandon Collins

Are Mixed-Severity Fires a Threat to California Spotted Owls?

Dominick A. DellaSala; Monica Bond; Derek Lee; Chad Hanson

Northern Spotted Owls and Wildfire in the Klamath Province of Northern California: Linkages between Fire Regimes and Habitat Quality

Alan B. Franklin; Jeremy T. Rockweit; Peter C. Carlson

Interactions between Mixed Severity Wildfire and Forest Types Used by Northern Spotted Owls

Damon B. Lesmeister; David M. Bell; Raymond J. Davis; Matthew J. Gregory; Jody C. Vogeler

Higher Fire Severity Drives Reduced Mexican Spotted Owl Occupancy and Reproduction on the Rodeo-Chediski Fire, Arizona

Michael A. Lommler; Joseph L. Ganey; Paul Beier; Jamie S. Sanderlin; Samuel A. Cushman

Effects of Fuel Treatments on Spotted Owls: Current Knowledge and Future Directions

M. Zachariah Peery; Gavin Jones; R.j. Gutierrez

The Role of Fire in Spotted Owl Biology: A Synthesis of the Current State of Knowledge

William M. Block; Kevin McKelvey

Session 42 - Tribal Wildlife Management and Conservation in the Southwest II

Mule Deer Management and Conservation: Jicarilla Apache Nation, New Mexico

Kyle J. Tator

Economic Development of Big Game Hunting Programs

Sam Diswood

Eagle Aviary - Pueblo of Zuni

Nelson Luna

Development of Tribal Threatened and Endangered Species Program

Samuel Diswood

New Mexico Meadow Jumping Mouse on the Southern Ute Indian Reservation in Southwestern Colorado

Aran S. Johnson; Jennifer L. Zahratka

Wild Horse and Burro Issues on Tribal Lands

Brian Gewecke

TBA

Scott Aikin

Statements of Relationship Promote Intergovernmental Partnerships in Conservation

Russell Benford

Tribal Wildlife Management at Isleta Pueblo

Shauna Bally

Session 44 - Wildlife are Individuals, Too: Considering Inter-Individual Variation to Inform Management

Wildlife Are Individuals Too: Considering Inter-Individual Variation to Inform Management

Melissa J. Merrick; John Koprowski

Specialization in Foraging Strategies of Coyotes

Seth D. Newsome; Erich M. Muntz; Evan C. Wilson; Stanley D. Gehrt

TBA

Travis DeVault

Fluctuating Expression of Individuality over the Reproductive Cycle: Relationships between Mate Availability and Breeding Behavior in Male White-Tailed Deer

Tara Gancos Crawford; Bradley S. Cohen; Thomas J. Prebyl; Taylor N. Simoneaux; Michael J. Chamberlain; Karl V. Miller

Individual Variation in Urban Coyote Habitat Selection, Diet, and Movement and Implications for Conflict Mitigation

Maureen H. Murray; Colleen C. St. Clair

Influence of Conspecifics on Individual Behavior: Group Decision-Making in a Fusion-Fission Society

Jerod A. Merkle; Marie Sigaud; Daniel Fortin

The Influence of Fear and Hunger on Individual-Based Decision-Making Across a Landscape of Fear

Michael Sheriff; Catherine E. Pritchard

The Fat and Furious: Consequences of Risk-Sensitive Allocation of Resources in Long-Lived Herbivores

Kevin L. Monteith

Individual Behavior Differences Are Important Predictors of Natal Dispersal Distance in an Endangered Small Mammal

Melissa J. Merrick; John L. Koprowski

Proactive use of reactive behaviour could enhance coexistence with wildlife

Colleen Cassady St. Clair

Session 45 - Climate-Wise Connectivity: How to Plan and Implement

What Is Climate-Wise Connectivity?

Paul Beier

Integrating Connectivity and Climate Change Science to Model Connectivity - a Systematic Review

Annika Keeley; Adina Merenlender; Patrick Huber

Linking Landscapes and Climates: Two Approaches to Modeling Connectivity for Climate Change

Joshua J. Lawler; Caitlin E. Littlefield; Julia Michalak; Jenny McGuire; Brad H. McRae

Adapting Connectivity Conservation to Climate Change: A Case Study from the Pacific Northwest

Meade Krosby

Prioritizing Corridors and Protected Area Expansions to Facilitate Species Range Shifts in Sonoma County, California

Morgan Gray; Adina M. Merenlender

Nested Connectivity Models to Resolve Management Conflicts and Promote Climate Change Resilience Using Mule Deer and American Bullfrogs in the Sonoran Desert as Study System

Joseph Drake; Nancy McIntyre; Kerry Griffis-Kyle

Dispersal Limitation, Climate Change, and Practical Tools for Conservation in Intensively Used Landscapes

Laura Coristine

Multi-Scale Connectivity Approaches As a Means of Implementing Climate-Wise Connectivity Planning for the Mohave Ground Squirrel

Thomas E. Dilts; Peter J. Weisberg; Marjorie D. Matocq; Kevin Shoemaker; Miranda Crowell; Eveline Larrucea; Kenneth Nussear; Phillip Leitner; Richard Inman; Todd Esque

Climate-wise Connectivity on the Kenai Peninsula, Alaska

Tracy A. Melvin

Session 46 - Landscape Conservation Planning: Making Conservation Real for People - Planning Is Easy, People Are Hard - Building Effective Landscape-Scale Conservation Efforts That Endures on the Landscape

The Human Aspects of Large-Scale Conservation in the Southeast Conservation Adaptation Strategy

Cynthia K. Edwards; Bill Uihlein; Wylie Carr

Engaging Partners Through a Decision Support Framework to Accomplish Landscape Conservation Design in the Ozark Highlands

Thomas W. Bonnot; Frank R. Thompson; D. Todd Jones-Farrand

A Recipe for Coastal Resilience: Equal Parts Adaptation Science and Community Engagement

Megan Cook; Cynthia Kallio Edwards; Jeff Burgett; Amy Holman; Karen Murphy; Kat Powelson; Steve Traxler

Leopold's Land Ethic and Conservation Perceptions of Illinois Farmers

Craig A. Miller; Jerry J. Vaske

Conserving the Plains and Prairie Pothole Ecoregion: Use of an Easy Tool to Understand Landowners' Decisions

Lily A. Sweikert; Larry Gigliotti

Understanding Iowa Landowners' Values, Attitudes & Behaviors Toward Wildlife & Wildlife Habitat

Larry M. Gigliotti; Lily A. Sweikert

Integrating Human Information Into Conservation Planning and Design: A Tale of Two Joint Venture Human Dimensions Efforts

Jonathan Hayes

A Monarch's View of the City: Social Science Applications in an Urban Monarch Butterfly Conservation Project

Alexis Winter

Engaging Landowners in Conservation – Case Studies from the Northeast

Steven G. Fuller; Bridget MacDonald

Panel Discussion: Landowner Perspectives on Conservation Partnerships to Sustain Working Landscapes for People and Nature

Steve Jester; Jim Stone; Bill Sproul; Reese Thompson

Session 47 - Wild Horses and Burros: Interactions with Wildlife, Habitats, and Land Managers

The Wild Free-roaming Horses and Burros Act (1971): Public Land Multiple Use, and Management Challenges

Alan Shepherd

Feral Horse Research and Management in the Northern Great Basin

Gail H. Collins

Synecology of Free-Roaming Horses: Multi-Scale Relationships with Mammals, Reptiles, Plants, and Soils of Sagebrush Habitats

Erik Beever

Invited Speaker

Brian Gewecke

Influences of Feral Horses on Native Wildlife in the Great Basin

Brock R. McMillan; Lucas K. Hall; Robert N. Knight; Randy T. Larsen

Wild Horses, Livestock, and Wildlife Use of Springs in Northeastern California

Laura K. Snell; Roger A. Baldwin; David F. Lile

The Influence of Feral Burros and Other Factors on Desert Tortoise Presence in the Western Sonoran Desert

Kristin Berry; Lisa M. Lyren; Tracy Y. Bailey; Julie L. Yee

Well Digging by Wild Burros Increases Water Availability, Local Wildlife Abundance, and Creates Riparian Germination Nurseries in the Sonoran Desert

Erick Lundgren

In Support of Wildlife Professionals: Advocating Science-Based Management of Horses and Burros

Keith A. Norris

Session 49 - Genetics to Genomics: What We've Learned over the Last 10 Years and What's Next for Wildlife

Genetics to Genomics: What We've Learned and What's Next for Wildlife Management

Emily Latch

SNP-Based Assessment of Genetic Diversity and Population Structure in Northern Bobwhite

Damon L. Williford; Randy W. DeYoung; Leonard A. Brennan

High-Throughput Sequencing Used to Compare Neutral and Adaptive Genetic Variation among Tamaulipan Ocelot Populations

J. P. Leonard

Optimizing Disease Management of Prairie Dogs with Population Genomics

Rachael Giglio; Tonie Rocke; Jorge Osorio; Emily Latch

Conservation Genomics of Declining Cascades Frogs at the Southern Edge of Their Range

Bennett Hardy; Emily K. Latch; Karen L. Pope

Importance of Genomics and Hybrid Phenotypes in the Mallard Complex: Establishing a Working Field Key Requires Vetting Phenotypic Characters with Genomic Techniques

Philip Lavretsky

Population Genetic Inferences in Eastern Coyotes: Comparing Microsatellites to Genome-Wide SNPs to Elucidate Patterns of Genetic Diversity and Admixed Ancestry

Elizabeth Heppenheimer

Beyond Population Genomics- Ecological Epigenetics and Application to Wildlife Management

Kristin E. Brzeski

Sage-Grouse Management in the Genomics Age: Insights Into Local Genetic Adaptation and Population Differentiation

Kevin P. Oh; Cameron L. Aldridge; Sara J. Oyler-McCance

Molecular Underpinnings of Sarcoptic Mange Susceptibility and Severity in Yellowstone Wolves

Alexandra DeCandia; Quin Pompei; Emily Almberg; Daniel Stahler; Bridgett vonHoldt

Session 61 - Managing Prairie and Shrubland Grouse Populations in the 21st Century: Revisiting the Declining and Small Population Paradigms

Small Populations: Lessons Learned from the Attwater's Prairie-Chicken

Michael E. Morrow; John E. Toepfer

Small Populations of Prairie Grouse; Causes, Consequences, and Challenges

Michael A. Schroeder

Comprehensive Habitat Requirements and Migration Strategies of a Small Greater Sage-Grouse Population

Aaron C. Pratt; Kurt T. Smith; Jeffrey L. Beck

Landscape Context Is Critical for Conservation of Greater Prairie-Chickens in Nebraska

Larkin A. Powell; Mary Bomberger Brown; Walter H. Schacht

Greater Sage-Grouse Reproductive Habitat Selection, Survival, and Male Lek Counts in Response to Wind Energy Infrastructure

Chad LeBeau

Importance of Increased Reproduction in the Success of Sharp-Tailed Grouse Translocations and Efficacy of Artificial Insemination

Steven R. Mathews; Peter S. Coates; Shwan Espinosa; David J. Delehanty

Patterns of Genomic Diversity Loss in Declining Prairie Grouse Populations and Its Implication on Fitness

Jeff A. Johnson

Managing Genetic Diversity in Small Populations of Sage-Grouse: Promise and Pitfalls

Sara Oyler-McCance

Lesser Prairie-Chicken Population Dynamics: the Good the Bad and the Ugly

Christian Hagen

The Effects of Conifer Encroachment on Greater Sage-Grouse Demography and Tree Removal as a Management Strategy

John P. Severson; Pete Coates; Mark Ricca; Brian Prochazka; Christian Hagen

Potential Restorative Benefits of Tree Removal and Sagebrush Restoration for Gunnison Sage-Grouse

Jeffrey L. Beck; Kevin E. Doherty; Jacob D. Hennig; Jonathan B. Dinkins; Kathleen A. Griffin; Avery A. Cook; Jeremy D. Maestas; David E. Naugle

Understanding the Broad-Scale Implications of Livestock Management on Sage-Grouse Population Trends Using Public Records

Adrian P. Monroe; Cameron L. Aldridge; Timothy J. Assal; Kari E. Veblen; David A. Pyke; Michael L. Casazza

The Adverse Impacts of Wildfire to Greater Sage-Grouse Population Numbers in the Great Basin: Inferences for Management Actions

Mark A. Ricca; Peter S. Coates; Brian G. Prochazka; Matthew L. Brooks; Kevin E. Doherty; Erik J. Blomberg; Christian A. Hagen; Cameron L. Aldridge; Steven Hanser; David A. Pyke; Michael L. Casazza

Simulating the Causes and Fates of Small and Declining Sage-Grouse Populations Using Spatially Explicit Individual-Based Modeling Approaches

Julie A. Heinrichs; Cameron L. Aldridge

A Data-Driven Decision Point Tool to Signal Sage-Grouse Population Declines at Multiple Spatial Scales for Adaptive Management

Peter S. Coates; Mark A. Ricca; Brian G. Prochazka; Cameron L. Aldridge; Steve E. Hanser; Kevin E. Doherty

Session 68 - Freedom to Roam - Wildlife Connectivity in Action from Data to Implementation and Assessment Part I

Foundational Principles of Managing Landscapes for Wildlife Movement and Habitat Connectivity: The State of the Practice of Modeling Wildlife Connectivity

Sam Cushman

Inference About Landscape Connectivity Using Spatial Occupancy Models

Chris Sutherland

Density-Weighted Connectivity for Landscape Management and Connectivity Conservation

Angela K. Fuller; Jeffrey A. Royle; Dana J. Morin; Yexiang Xue; Bistra Dilikina; Amrita Gupta; Chris Sutherland; Carla Gomes

Genetic Data to Estimate Connectivity for US-Mexico Border Species

Melanie Culver

From Swamp Tigers to Desert Lions: Wild Cats as Flagship Species for Landscape Conservation

Ashwin Naidu

Estimating Connectivity in a Metapopulation System

Paige Howell; Blake Hossack; Erin Muths; Brent Sigafus; Richard Chandler

Graph-Theoretic Approaches to Connectivity and Dynamic Spatial Processes

Joseph Drake; Xavier Lambin; Chris Sutherland

Circuitscape Connectivity Modeling with gflow

Paul Leonard; Rob Baldwin

Focal Species and Landscape Naturalness Approaches to Modeling Habitat Connectivity

Meade Krosby

Session 70 - A New Day for Bison? - Ecological Restoration in the 21st Century

Why Restore Wild Bison?

Tom France

Current Conservation Status and Future Opportunities for Plains Bison Restoration

Keith Aune

Historical Context and Threats to Wild Plains Bison Sustainability

Harold Picton

Wild Plains Bison Genetics and Management

Cynthia Hartway

Plains Bison Restoration - Keys to Success on the Ground

Kyran Kunkel

Role of Partnerships on the Restoration of Plains Bison

Luis Ramirez

The Missing Link in the Ecological Restoration of Bison, State Management

Bill Bates

Tribal Role in the Ecological Restoration of Plains Bison

Ervin Carlson

Federal Role in the Ecological Restoration of Plains Bison

Glenn Plumb

The Department of Interior's Bison Conservation Working Group *Meta-Populations and Ecological Restoration*

Stephen C. Torbit

Session 71 - #CalloftheScicomm: How Science Communication via Social Media Can Benefit Your Career and Your Research

#Scicomm-Unity: Representation and Finding Community Through Social Media #Scicomm

Shelby Bohn

Using #Scicomm to Create Buy-In

Marcus Gray

Creative Visual Experiences for Your Research

Natalie Rogers

#Sciencecandle: How Podcasting Science May Help Scientists Earn Public Trust

Madhusudan Katti

Reaching Kids with Your Science: Strategies from Emammal Citizen Science to Foster Future Conservationists

Stephanie Schuttler; Rob Dunn; William J. McShea; Robert Costello; Roland Kays

Scicomm: Normalizing Science for Future and Contemporary Success

Imogene Cancellare

Busting Out of the Bubble: Outreach to New Audiences

David Steen

A Carnivore-Based Soap Opera: Using Stories and Social Media to Disseminate Research

Asia Murphy

Live Streaming Your Science: Engaging Scicomm Via Periscope and Facebook Live

Nicole Wood

[Session 72 - The Role of Research and Adaptive Management in Creating Effective Wildlife Mitigation along Roads](#)

Arizona Wildlife and Transportation Program at Arizona Game and Fish Department: 15 Years in the Making

Scott C. Sprague; Jeffrey W. Gagnon; Chad D. Loberger; Kari S. Ogren; Susan L. Boe

Growth of a Wildlife-Vehicle Collision Mitigation Program - the Pathway for New Mexico Department of Transportation

James Hirsch; Trent Botkin

Wildlife and Roads in the Lonestar State

Stirling Robertson; Robin Gelston

Collaboration and Research on SH 9 as a New Paradigm for Doing Business in Colorado

Michelle Cowardin

Partnerships, Collaboration, and Research Drive Wildlife and Roads Program in Utah

Daniel Olsen; Ashley Green; Patricia Cramer

Helping Carnivores and Ungulates Across Idaho Roads Through Data Collection, Planning, and Research

Gregg Servheen

Research Drives Designs of Crossing Structures to Move Mule Deer and Pronghorn Across Highways in Wyoming

Thomas Hart; Scott Gamo

Nevada: the Fast Track of Wildlife Road Mitigation and Research in Only a Few Years

Nova Simpson

Arizona Success Stories of Developing Wildlife Crossing Structures and Other Mitigation Based on Research of Elk, Mule Deer, Pronghorn Antelope, and Desert Bighorn

Jeffrey W. Gagnon; Scott C. Sprague; Chad D. Loberger; Kari S. Ogren; Susan L. Boe

The Importance of Data Collection, Collaboration, and Research in Building a Statewide Wildlife and Transportation Program

Patricia C. Cramer

Session 73 - Lessons Learned from Long-Term Conservation Research of Amphibians and Reptiles

Conservation of Chiricahua Leopard Frogs in Southwestern New Mexico

Randy D. Jennings; Michelle R. Christman; Bruce L. Christman

A Boreal Toad Stronghold in the Bonneville Basin Desert, Utah

Paul Thompson

Going the Distance: Endurance and Serendipity in Long-Term Studies

Jeff Lovich

Revelations About Long-Term Research from a 25-Year Program on Ecological and Conservation Scaling in the Dunes Sagebrush Lizard

Lee A. Fitzgerald

Amphibian and Reptile Communities Provide Insight Into Understanding the Effects of Non-Native Vegetation and Restoration of Southwestern Riparian Habitats

Heather L. Bateman

The Monitoring Plan and Successes of Multi-Year Monitoring of Flat-Tailed Horned Lizards in California, Arizona, and Mexico

Daniel J. Leavitt; Robert E. Lovich

The Long Goodbye. - Status of a Sky Island Poster Child

Larry K. Kamees; Charles W. Painter; Bill Radke; Andrew T. Holycross

Long-Term Collaborative Rattlesnake Research and Monitoring Leads to Educational Opportunities for Visitors in the Verde Valley National Monuments

Erika Nowak

Session 75 - Assessing Wildlife Habitat to Guide Conservation Planning and Restoration

Existing Methods of Assessing Wildlife Habitat on Private Property During the NRCS Conservation Planning Process

Stuart Tuttle

Connecting Arizona's Wildlife Species to Ecological Site Descriptions - a New Model

Ali Lenton; Paul Beier; Marcus Miller; Stuart Tuttle

MOM Knows Best: Mouse Occupancy Modeling Reveals Habitat of an Endangered Rodent

Carol Chambers; Valerie Horncastle; Garrett Billings; Judith Springer

Tracking Escherichia Coli Infections of the Endangered New Mexico Meadow Jumping Mouse

Austin Dikeman; Daniel Sanchez; Viacheslav Fofanov; Faith Walker; Carol Chambers

Salad Within: Genetically Identifying Diet of an Endangered Species

Daniel Sanchez; Austin L. Dikeman; Faith M. Walker; Valerie Horncastle; Carol L. Chambers

Geomorphic Analysis of New Mexico Meadow Jumping Mouse (*Lepus Hudsonius Luteus*) Habitat

Marcus Miller; Stu Tuttle; Barry Southerland; Carol L. Chambers

Identifying Habitat Resources for Conservation of Riparian Birds on Working Landscapes

Robert J. Steidl; Erik Andersen; Larry D. Howery; George Ruyle; Zachary Smalls; Stuart Tuttle

Effects of Time-Controlled, Livestock Grazing on Habitat of Southwestern Willow Flycatchers in West-Central Arizona

Zachary Smalls; Larry Howery; Stuart Tuttle; George Ruyle; Robert Steidl

Integrating Information on Riparian Systems and Processes to Improve Evaluation of Habitat for Riparian Obligate Species on Private Lands

Matthew Johnson; Jennifer Holmes; Erika M. Nowak

Assessing Wildlife Use of Livestock Water Sources in the Eastern US

Nancy L. Buschhaus; Russell L. Milam; Daniel A R Taylor; Stuart R. Tuttle; Marcus Miller

Session 83 - Conserving Nature's Stages and Helping Wildlife Move between Them

Achieving Climate Connectivity in a Fragmented Landscape

Jenny McGuire; Joshua Lawler; Brad McRae; Tristan Nuñez; David Theobald

Building Ecological Resilience Through Coordinated Riparian Conservation

Alexander K. Fremier; Amanda T. Stahl; Barbara Cosens

Using Abiotic Diversity to Prioritize Biodiverse Core Areas and Define Corridors between Them

Paul Beier

Capturing Species-Specific Corridors with Land Facets

Kathy Zeller; Megan Jennings

Go with the Flow: Measuring Landscape Permeability to Design Conservation Networks That Facilitate Range Shifts

Mark Anderson

Session 85 - Connecting Wildlife and Science: Borderlands and Beyond

Noninvasive Genetic Monitoring of Sonoran Pronghorn Along the United States-Mexico Border

Lisette Waits; Susannah Woodruff; Paul Lukacs; Stephanie Doerries; Miguel Grageda; Jennifer Adams; John Hervert; James Atkinson

An Overview of Advances in Connectivity Conservation at the Borderlands of Sonora and Chihuahua

Juan Carlos Bravo

Border Impacts on Wildlife

Miguel Angel Grageda; Tyler Coleman

Wildlife Conservation in Mexico: Challenges and Risks

Karla Pelz Serano

Protected Areas and the Agricultural Frontier in the Colombia: A New Artificial Border for Carnivores?

I. Mauricio Vela-Vargas; José F. González-Maya; Angela P. Hurtado-Moreno; Diego Andres Zárrate-Charry; J. Sebastian Jiménez-Alvarado; Catalina Moreno; Mauricio González

Session 95 - Freedom to Roam - Wildlife Connectivity in Action from Data to Implementation and Assessment Part II

Tying Together the Legs of Connectivity Analysis - Roadkill, Camera Traps, Genetics, GIS, and Theory

Fraser Shilling

Developing and Implementing Linkage Conservation Plans

Paul Beier

Evaluating The Effectiveness Of Corridors And Corridor Structures Using Genetic Data

Lisette P. Waits

ESRI's Green Infrastructure Initiative

Ryan Perkl

Wildlife Connectivity Planning in Arizona

Julie Mikolajczyk

Case Study: Implementation of Tijeras Canyon Corridor in NM

Kurt Menke

Sustaining Ungulate Migrations: New Tools to Identify and Conserve Corridors Across Multiple-Use Landscapes

Jerod Merkle; Matthew J. Kauffman

Case Study: Implementing Wildlife Crossings in Arizona

Scott C. Sprague; Jeffrey W. Gagnon; Chad D. Loberger; Kari S. Ogren; Susan L. Boe

Connecting Habitat Across New Jersey

Gretchen Fowles; Brian Zarate; MacKenzie Hall; Karina DiLeo

[Session 97 - Farm Bill Conservation Programs: Perspectives on Delivery and Wildlife Benefits](#)

Farm Bill Alphabet Soup: an Overview of Title II Conservation Programs

Andrew Schmidt

A Landowner's Perspective on Participation and Results from Farm Bill Conservation Title and other Conservation Partnerships, Jim Stone, Rancher, Ovando, Montana

Jim Stone; Steve Jester

Estimating the Economic Benefit of the Hunting Access Program in Nebraska

Jennifer R. Foggia; Lindsey N. Messinger; Joseph J. Fontaine

Efficacy of USDA Rangeland Conservation Practices: Is It Time for an Evidence-Based Platform?

David D. Briske

Changing the Paradigm of Conservation Delivery: Using Technology to Identify the Economic Opportunities of Strategic Conservation

Mark McConnell

Conservation Effects Assessment Project Wildlife Component

Charles Rewa

Outcomes Not Acres: Quantifying Conservation Benefits of the NRCS-Led Sage Grouse Initiative

David Naugle; Jeremy Maestas; Tim Griffiths; Thad Heater; Galon Hall

National Bobwhite Conservation Initiative - CRP: from the Farm House to the White House

Thomas Dailey

Conservation Consternation- Wait for Results Or Act Now? Putting Actionable Science to Work

Christian A. Hagen

An Interactive Tool for Evaluating the Effectiveness of Management Actions to Improve Habitat for Golden-Winged Warblers

Casey Lott

Session 98 - Advancing Wildlife Conservation and Renewable Energy: A Synthesis of Energy System Technologies and Identifying Effects on Wildlife

Advancing Wildlife Conservation and Renewable Energy

Steve Grodsky

TBA

Davia Palmeri

Solar Energy: A Technology with Multi-Scale Opportunities to Integrate Wildlife Conservation

Brian B. Boroski

Wind Energy: Effects on Birds

David Drake

Wind Energy: Effects on Bats

Amanda M. Hale; Cris D. Hein

Effects of Harvesting Forest-Based Biofuels on Wildlife: What Have We Learned?

Jessica Homyack; Jake Verschuyf

Perennial Grasses and Agricultural Residue

Susan P. Rupp

Waterpower and Wildlife: Hydropower and Marine Hydrokinetic Energy

Henriette I. Jager; Lindsay M. Wickman

Renewable energy policy directives: long-term implications for wildlife conservation

Edward B. Arnett

Session 99 - Wetlands, Water, & Wildlife: Finding Common Ground among Diverse Stakeholders

It's the Water: A Plea for Integrating Wildlife and Water-Resource Conservation Planning

Adam Janke; Sammy King; Adonia Henry

Minnesota's New Riparian Buffer Law

Jason Garms

LCC Mississippi Basin / Gulf Hypoxia Planning Tool - Precision Conservation Blueprint V15

Kristin Shaw; Kelley Myers; Gwen White; Bill Bartush; Michael Schwartz

Aligning Actions for Water Quality, Wildlife Habitat, and People in the Chesapeake Watershed

Jennifer A. Greiner; Christina Ryder

Draining the Swamp: Water and the Future of Floodplain Forests of the Southeastern United States

Sammy King; Richard F. Keim

It All Goes Downstream: Effects of Altered Riverine Flow on an Estuarine Foundation Species

Megan La Peyre

Wetlands in the Middle Rio Grande, NM: Historic Processes, Perturbations and Fixes

Paul L. Tasjhan

Central Valley California Duck Clubs, Water Districts, and Rice: Opportunities to Enhance Wildlife Habitats

Frederic A. Reid; Mark Petrie; Catherine Hickey; John M. Eadie

The Klamath Basin Walking Wetlands: Utilizing Wetlands as a Functional Agricultural Tool

Dustin Taylor

Using Migratory Waterbirds as a Model for Linking Regional Water Issues

Bruce Dugger; Megan Zarzycki

Session 101 - Mobile Apps in Conservation Science

The Utilization of Cybertracker for Resource Management in Texas

Jason A. Estrella

21st Century Wildlife Management: Data Collection Using Mobile Applications

Bronson Strickland; Steve Demarais; Jason Price

Mobile Apps in the Classroom: Preparing the Next Generation

Ken Boykin

Using Citizen Science to Guide Management and Public Engagement

Sam Kieschnick

An App for Mapping Invasive Plants by Citizen Scientists in Texas

Hans Landel

Cybertracker and Survey123: Pros and Cons for Use in White-Tailed Deer Distance Sampling

Cristy Burch

Interagency Field Data Collection Using Collector for ArcGIS

Julie Mikolajczyk

Birding By Day, Batting By Night: Two Mobile Apps from Wildlife Acoustics Help Citizen Scientists and Nature Enthusiasts Identify and Learn About Local Bird and Bat Species

Sherwood Snyder

Digital Technology and the Modern Conservation Professional: Are We Bleeding the Soul and More of Natural History Study?

Dave Holdermann

Session 106 - Mexican Wolf Conservation: Two Decades of Reintroduction and the Future of Recovery

Mexican Wolf Recovery

Sherry Barrett; Tracy Melbihess; Maggie Dwire; John Oakleaf

Survival and Dispersal Rates of Mexican Wolves

John K. Oakleaf; James W. Cain III; Colby M. Gardner; Sherry Barrett; Cyrenea B. Piper

The Critical Role of the Mexican Wolf Species Survival Plan Facilities: A Binational Collaborative Effort

Pamela Maciel

Livestock Depredation By Mexican Wolves and Non-Lethal Mitigation Techniques

David L. Bergman; Alan May; Stewart W. Breck

Livestock Management, Calving Season, and Conflict Avoidance with Wolves on the X Diamond Ranch

Wink Crigler

Genetic Management and Setting Recovery Goals for Mexican Wolves in the Wild

Larisa E. Harding; Jim Heffelfinger; David Paetkau; Esther Rubin; Jeff Dolphin; Anis Aoude

Cross-Fostering: A Novel Tool for Mexican Wolf Recovery

Julia B. Smith

Mexican Wolf Reintroduction Efforts in Northern Mexico

Carlos A. Lopez Gonzalez; Nalleli E. Lara Diaz; Cristian Aguilar Miguel; Carmen Garcia Chavez; Socorro Vera Ramirez

Mexican Wolf Habitat Suitability Analysis in the Southwestern United States and Mexico

Enrique Martínez-Meyer; Alejandro Gonzalez-Bernal; James Heffelfinger; Julian A. Velasco; Tyson L. Swetnam; Zaira Yaneth Gonzalez-Saucedo; Jorge Ignacio Servin; Carlos Alberto Lopez-Gonzalez; Nalleli Elvira Lara-Diaz; Cristian Aguilar-Miguel; Carmen Chavez-Garcia; Stewart Liley; John K. Oakleaf

Perils of Recovering the Mexican Wolf Outside of Its Historical Range

Eric A. Odell; James R. Heffelfinger; Steven S. Rosenstock; Chad Bishop; Stewart Liley; Alejandro Gonzalez-Bernal; Julian A. Velasco; Enrique Martinez-Meyer

Contributed Papers

Session 15 - Conservation and Ecology of Natural Resources and Habitats

Evaluating the Suitability of Designated Critical Habitat for Imperiled Flatwoods Salamanders

Susan C. Walls; William J. Barichivich; Kevin M. Enge; Thomas A. Gorman; John G. Palis

Islands of Tallgrass Prairie: the Case of the Regal Fritillary

Andrew Caven; Kelsey C. King; Josh Wiese; Emma Brinley Buckley

Predicting Gopher Tortoise Habitat Connectivity in Georgia Using Forest Structure, Land Cover, and Soils

Jeffrey Hepinstall-Cymerman; Tom Prebyl; Bryan Nuse; Clint Moore

Soil Chemistry and Its Effect on Central Pennsylvania's Forest Wildlife Habitat

Danielle R. Begley-Miller; Duane R. Diefenbach; Marc E. McDill; Christopher S. Rosenberry; Emily Just

Diet Overlap of Wild Bees and Ungulates in a Forested Riparian System

Mary M. Rowland; Sandra J. DeBano; Samantha M. Roof; Lauren A. Smith

Impact of Logging Residue Retention on Small Mammals in the Southern Appalachian Region

April D. Boggs; Christopher E. Moorman; Dennis W. Hazel; Cathryn H. Greenberg

Ducks, Diet and Dormancy: Implications for Seed Based Wetland Restoration

Bret N. Mossman; Karin M. Kettenring

The Ecology of the Monarch Butterfly Relative to Density, Host Plant Occurrence and Habitat Use in the Flint Hills

Caroline Skidmore

A National Approach to Map and Quantify Terrestrial Vertebrate Biodiversity

William G. Kepner; Kenneth G. Boykin; Anne C. Neale; Kevin J. Gergely

Breeding Bird Response to Post Oak Savanna Restoration in Eastern Texas 8 Years Post-Management

Courtney K. Williams; Christopher Comer; Jeffrey Gunnels

Session 20 - Conservation and Ecology of Birds I

Protected Areas Facilitate Species Persistence by Reducing Extinction and Improving Colonization

Michelle Peach; Jonathan Cohen; Jacqueline Frair

Identifying Western Yellow-Billed Cuckoo Breeding Habitat with a Dual Modeling Approach

Matthew J. Johnson; Jennifer Holmes; James R. Hatten

Evaluation of Methods Used to Improve Grasslands as Pheasant Brood Habitat

Mandy Orth; Kent C. Jensen; Travis Runia

Wintering Avian Occupancy on West Virginia Agricultural Conservation Easement Program Wetlands

Katharine Lewis; Christopher Rota; James T. Anderson

Climate Change and Long-Term Trends in Bald Eagle Winter Habitat Use

Madeleine A. Rubenstein; Roger Christophersen; Tanya Kitterman; Jason Ransom

Session 22 - Wildlife Disease and Toxicology I

Raccoon Roundworm Intensity Distributions across Hosts and Modeled Implications for Population Management

Matthew E. Gompper; Aniruddha Belsare; Harith Al-Warid

The Potential of Fish to Act as Transport Hosts for *Dracunculus Medinensis* and *D. Insignis* Larvae.

Christopher A. Cleveland; Mark L. Eberhardt; Alec Thompson; Stephen J. Smith; Hubert Zirimwabagabo; Robert Bringolf; Michael J. Yabsley

Adapting a Determinants of Health Model to Identify Drivers and Priorities for Salmon Population Health in Two Groups of Experts

Julie Wittrock; Colleen Duncan; Craig Stephen

Size Matters: Sample Size Calculations for Harvest-Based Wildlife Disease Surveillance Using an Agent-Based Framework

Aniruddha V. Belsare; Matthew E. Gompper; Joshua J. Millspaugh

Prevalence and Distribution of Amphibian Pathogens and Parasites in North Dakota

Melanie Firkins; Vasyl Tkach; Robert Newman

Transmission of Influenza A Virus from Mallards to European Starlings Via Shared Water

Susan Shriner; Katherine L. Dirsmith; Jeremy W. Ellis; J. Jeffrey Root; Kevin T. Bentler; Nicole L. Mooers; Loredana McCurdy

Effects of Sub-Acute External Exposure to Deepwater Horizon Oil in the Double-Crested Cormorant

Brian S. Dorr; Katie C. Hanson-Dorr; Katherine Healy; Katherine Horak; Karen M. Dean; Steven J. Bursian; Kendal Harr; Jane E. Link

Variation in SA α 2,3-GAL is Linked to Variation of Avian Influenza Viral Shedding in Mallard Ducks

Amanda C. Dolinski; Jen C. Owen

West Nile Virus Prevalence in Sympatric Populations of Greater Sage-Grouse and *Culex tarsalis*

Lindsey A. Bischoff; Travis Runia; Andrew Gregory; Jonathan A. Jenks

Potential of Fish Eating Birds to Spread Virulent *Aeromonas Hydrophila*

Fred L. Cunningham; Katie Hanson-Dorr; Lorelei Ford; Alex Crain; Lanna Durst; Raleigh Middleton; Larry Hanson

Session 24 - Biometrics and Population Modeling I

Combining Individual-Based and Dynamic-Landscape Metapopulation Models to Identify Climate Change Threat to a Regional Songbird Population

Thomas W. Bonnot; W. Andrew Cox; Frank R. Thompson III; Joshua J. Millspaugh

Extending the Use of Conditional Occupancy Models to Understand the Role of Competitive Exclusion in an Endangered Plethodontid Salamander

Staci M. Amburgey; David A.W. Miller; Evan H.C. Grant

Estimating Denning Date of Wolves with Daily Movement and GPS Location Fix Failure

Pat Walsh; Suresh Sethi; Bryce Lake; Buck Mangipane; Ryan Neilson; Stacy Lowe

Modeling Plague Dynamics to Optimize Vaccination Strategies

Robin E. Russell; Martin D. Grunnill; Katherine L.D. Richgels; Tonie E. Rocke

An Evolving Sightability Model for a Low-Density Moose Population Using Distance Sampling

Rachel E. Wheat; Jacqueline Frair

Evaluating the Roles of Propagule Size, Life History, and Environmental Conditions on the Establishment Success of an Invasive Species Using Transient Dynamics Models

Michael A. Tabak; Ryan S. Miller

A Range-Wide Species Status Assessment to Evaluate Past Trends and Future Viability of the Red-Cockaded Woodpecker

Stephanie DeMay; Michael Marshall; Will McDearman; Jeffrey Walters

Simulations Inform Design of Regional Occupancy-Based Monitoring for a Sparsely Distributed, Mobile Species

Quresh S. Latif; Martha M. Ellis; Victoria A. Saab; Kim Mellen-McLean

Identifying Limits to Red-Cockaded Woodpecker Population Growth

Emily Brown; Cynthia Ragland; Paige F. B. Ferguson

Intervals of Resource Selection Across Telemetered Animals Enhances Interpretations of Habitat Requirements

Brian S. Cade; Douglas S. Ouren

Session 25 - Conservation and Ecology of Birds II

Adaptations of Tidal Marsh Sparrows to a Changing Environment

Alison R. Kocek; Jonathan B. Cohen; Bri Benvenuti; Alyssa Borowske; Chris S. Elphick; Christopher R. Field; Laura Garey; Thomas P. Hodgman; Adrienne I. Kovach; Rebecca A. Kern; Brian J. Olsen; Samuel G. Roberts; Katharine J. Ruskin; W. Gregory Shriver; Jennifer Walsh

Shorebird Nest Attendance in Response to Research Activities

Alicia K. Andes; Terry L. Shaffer; Mark H. Sherfy; Colin M. Dovichin; Susan N. Ellis-Felege

Secretive Marshbird Response to Wetland Plant Management in Western Minnesota

Nina Hill; David E. Andersen; Douglas H. Johnson; Tom Cooper

Ecological State Change of Saline Lakes on the Southern High Plains

David Haukos; Warren Conway; Destiney Hett; Brandon Weihs

To Exclude Or Not? a Decision Support Tool for Piping Plover Management

Abigail Darrah; Jonathan Cohen; Paul Castelli

Piping Plover Population Irruptions Following Habitat Creating Events

Samantha G. Robinson; James D. Fraser; Daniel H. Catlin; Sarah M. Karpanty; Kelsi L. Hunt; Ruth Boettcher; Alexandra Wilke; Kevin Holcomb; Jon Altman

Heading for Higher Ground: Adapting Marsh Bird Management as Sea Level Rises

Paul J. Taillie; Christopher E. Moorman; Benjamin Poulter

Demographic Consequences of Road Mortality to Snowy Plovers in Northwest Florida

Maureen M. Durkin; Jonathan Cohen

Developing Range-Wide Occupancy Models for King Rails: Optimizing Predictive Capabilities Across Spatial Scales

Bryan S. Stevens; Courtney J. Conway

Gunnison Sage Grouse How Long Can the Crawford Population Persist?

Douglas S. Ouren; Brian Cade; Melissa Siders; Ken Holsinger

Session 26 - Conservation and Ecology of Mammals - Ungulates

Using Occupancy to Understand the Process of Moose Recolonization in Northern Wisconsin.

Lucas Olson; Max Allen; Timothy Van Deelen

Archery Hunting and Scouting Drives Early Fall Migration and Reduces High Quality Forage for Elk with Access to Protected Area Refuge

Nate Mikle; Tabitha A. Graves; Edward M. Olexa

A Framework for Estimating Elk Abundance in Arizona

Kirby Bristow; Mathew Clement; Michelle Crabb; Larisa Harding

Ecological Drivers of Elk Survival in Idaho

Jon Horne; Mark Hurley; Erin Roche; Scott Bergen

Physiological Stress in Reintroduced Elk Reveals Tolerance to Pulses of Increased Human Activity

Colter Chitwood; Barbara J. Keller; Lonnie Hansen; Aaron M. Hildreth; Joshua J. Millspaugh

Mortality and Human Predation: How Sociality Influences Probability of Mortality of Large Mammals

Brittany Slabach; John T. Hast; Philip H. Crowley; Will Bowling; R. Daniel Crank; Gabriel Jenkins; John J. Cox

Behavioral and Nutritional Responses of Moose to Beetle-Killed Forests in Southeast Wyoming

Alexander A. B. May; Matthew J. Kauffman; Kevin L. Monteith

Influence of Beetle-Killed Forests on Elk Habitat Selection

Bryan Lamont; Dr. Matthew Kauffman; Dr. Kevin Monteith; Dr. Jerod Merkle; Matt Hayes; Tony Mong

Drone and Thermal Imaging System as an Innovative Tool for Forest Ungulate Surveys

Stanisław Pagacz; Julia Witczuk; Anna Zmarz; Maciej Cypel

Fire-History Exerts Persistent Effects on Ungulate Behavior: Daily, Seasonal and Successional Patterns

Derek B. Spitz; Mary Rowland; Darren Clark; Mike Wisdom; Taal Levi; Bruce K. Johnson

Session 31 - Biometrics and Population Modeling II

Estimating Florida Manatee Abundance from Sparse Data Using Integrated and Retrospective Population Models

Jeffrey A. Hostetler; Julien Martin; Michael Kosempa; Michael C. Runge; Catherine A. Langtimm; Holly H. Edwards

Inferring Infection Hazard in Wildlife Populations by Linking Data across Individual and Population scales

Kim M. Pepin; Shannon L. Kay; Ben D. Golas; Susan A. Shriner; Amy T. Gilbert; Ryan S. Miller; Andrea L. Graham; Steven Riley; Paul Cross; Michael D. Samuel; Mevin B. Hooten; Jennifer A. Hoeting; James O. Lloyd-Smith; Colleen T. Webb; Michael G. Buhnerkempe

Time Series Sightability Modeling of Animal Populations

Althea ArchMiller; Robert M. Dorazio; Katherine St. Clair; John Fieberg

Bayesian Model-Based Age Classification Using Morphometrics and Capture Dates

Nathanael Lichti; Kenneth F. Kellner; Timothy J. Smyser; Scott A. Johnson

Hunters, Harvest and Herd Health: Investigating The Sociological and Ecological Dynamics of CWD through Data Integration.

Daniel Walsh; Mat Alldredge

Session 32 - Conservation and Ecology of Mammals - Cervids I

Weather and Landscape Factors Affect White-tailed Deer Neonate Survival at Ecologically Important Life Stages in the Northern Great Plains

Eric S. Michel; Jonathan A. Jenks; Kyle D. Kaskie; Robert W. Klaver; William F. Jensen

Juvenile Survival of Mule Deer in the Blue Mountains of Oregon

NATHAN J. JACKSON; KELLEY M. STEWART; DARREN A. CLARK; MICHEAL J. WISDOM

Modeling White-tailed Deer Survival and Recruitment with Novel Spatial Capture-Recapture Models and Camera Data

Kristin N. Engbretsen; Michael J. Cherry; Elina Garrison; Karl V. Miller; Richard B. Chandler

Responses of Female White-tailed Deer to Hunting Activity in Two Different Ecoregions of Missouri

Chloe A. Wright; Jon T. McRoberts; Joshua J. Millsbaugh; Barbara J. Keller; Kevyn H. Wiskirchen

Habitat Selection by Female Mule Deer: Tradeoffs Associated with Reproduction

Levi J. Heffelfinger; Kelley M. Stewart; Kevin T. Shoemaker; Neal W. Darby; Vernon C. Bleich

Session 33 - Conservation and Ecology of Birds - Raptors

Recent Colonization of North American Urban Landscapes by Accipiter Hawks

Jennifer D. McCabe; Benjamin Zuckerberg

The Return of Bald Eagles: Spatiotemporal Dynamics of a Recovering Apex Predator and Shifting Management Impacts

Jennyffer Cruz; Steven Windels; Wayne Thogmartin; Shawn Crimmins; Ben Zuckerberg

Survival and Dispersal of Juvenile Golden Eagles in the Southern Great Plains and Trans Pecos Regions

Natasia Mitchell; Dale Stahlecker; Ben Skipper; Robert Murphy; Clint Boal

Dynamic Multistate Occupancy Models Indicate a Cost of Reproduction in Bald Eagles

Tammy L. Wilson; Joshua H. Schmidt

First-Year Dispersal of Golden Eagles from Natal Areas in the Southwestern United States and Implications for Conservation

Robert K. Murphy

Session 35 - Conservation Planning and Policy I

Using a Single Species as an Umbrella to Conserve Many At-Risk Species: the Lesser Prairie-Chicken and Prairie Conservation

Demi Gary; Krista Mougey; Nancy McIntyre; Kerry Griffis-Kyle

Bird Community Integrity and Land Protection in a Mixed-Use Northern Forest

Kathryn Frens; Andrew Crosby; William Porter

Forestry Effects on Listed Bats

Paola Bernazzani; Shawna Barry; Dale Sparks; Leo Lentsch

A Regional Conservation Program for American Burying Beetle

Lucas Bare; Paola Bernazzani; David Zippin; David Williams

Integrating Biological, Economic, and Social Assessments of the Feasibility and Value of Maintaining a Sustainable Population of Elk.

Jennifer L. Murrow; Marion Deerhake; Katherine Heller; David Cobb; Brad Howard

Session 36 - Conservation and Ecology of Mammals - Chiroptera

Examining the Effectiveness of the North American Bat Monitoring Program (NABat) Acoustic Survey Protocols.

Kevin A. Parker; Han Li; Matina Kalcounis-Rüppell

Using Non-Invasive Methods to Compare Stress Levels in Urban Bats throughout the Chicago Metropolitan Area

Matthew P. Mulligan; Mary Beth Manjerovic; Katherine Fowler; Rachel Santymire

Understanding the Landscape Factors and Scale That Influence Urban Bat Activity

Elizabeth W. Lehrer; Travis Gallo; Mason A. Fidino; Seth B. Magle

Predicting Seasonal Distribution and Migratory Pathways for Neotropical Nectar-Feeding Bats

Rachel A. Burke; Kathryn E. Stoner; Jennifer K. Frey; Christopher P. Brown

Effects of Urbanization on Bat Habitat Use in Phoenix, Arizona: A Multi-Scale Landscape Analysis

Tracy C. Bazelman; Carol L. Chambers; Jianguo Wu; Sam A. Cushman

Session 37 - Conservation and Ecology of Mammals - Ursids

Population Dynamics and Harvest Sustainability of Two Small, Reintroduced American Black Bear Populations

Sean M. Murphy; John J. Cox; Ben C. Augustine; John T. Hast; Joseph M. Guthrie; Jayson H. Plaxico; Sutton C. Maehr; Michael Strunk; Tristan M. Curry

Understanding Motivations for Human Behaviors to Limit Human-Wildlife Conflict

Stacy Lischka; Tara Teel; Heather Johnson; Courtney Larson; Stewart Breck; Kevin Crooks

Compounding Effects of a Natural Food Shortage and Human Development on a Large Carnivore Population along a Human Development-Wildland Interface

Jared Laufenberg; Heather Johnson; Paul Doherty; Stewart Breck

Human Development and Climate Affect Hibernation in Black Bears with Implications for Human-Bear Conflicts

Heather E. Johnson; David L. Lewis; Tana L. Verzuh; Cody F. Wallace; Rebecca M. Much; Lyle K. Willmarth; Stewart W. Breck

Combining Resource Selection Functions, Space Use, and Systematic Conservation Planning to Identify Conservation Priorities for Brown Bears in the Romanian Carpathians

Mihai I. Pop; Ruben Iosif; Iulia V. Miu; Laurentiu Rozylowicz; Viorel D. Popescu

Session 38 - Conservation and Ecology of Birds III

The Effects of Beetle-Induced Tree Death on Forest Songbird Diversity in the Western United States

William M. Janousek; Victoria J. Dreitz

Monitoring Avian Response to Explosive Testing, Wildland Fire Mitigation Measures, and Precipitation

Jesse Berryhill; Charles D. Hathcock; Brent Thompson

Migratory Behavior and Dispersal of Burrowing Owls throughout North America

Courtney J. Conway; David H. Johnson; Carl G. Lundblad; Julie L. Conley

Scavenger Removal of Bird Carcasses at Simulated Wind Turbines: Does Carcass Type Matter?

Travis L. DeVault; Thomas W. Seamans; Kimberly E. Linnell; Dale W. Sparks; James C. Beasley

Woodpecker Nest Survival in Relation to a Mountain Pine Beetle Outbreak

Victoria Saab; Matthew Dresser; Quresh Latif; Jay Rotella; Jonathan Dudley

Session 39 - Conservation and Ecology of Birds - Game Birds I

Lesser Prairie-Chicken Brood Ecology in Response to Land Management in the Sand Shinnery Oak Prairie Ecoregion

Daniel U. Greene; Blake A. Grisham; Sarah R. Fritts; Clint W. Boal; David A. Haukos; Robert D. Cox; Willard R. Heck

"Flushing Out" the Relationship between Grasslands, Conservation Reserve Program Enrollments and Greater Prairie-Chicken Populations in Minnesota

Kalysta I. Adkins; Charlotte Roy; David E. Andersen; Robert G. Wright

Lesser Prairie-Chicken Habitat Selection During Extreme Temperature Events

Jonathan Lautenbach; David Haukos; Blake Grisham

A Tale of Chicken Little and Little Brown Jobs: Umbrella Species Conservation for the Lesser Prairie- Chicken and Grassland Avifauna of the Southern Great Plains

David C. Pavlacky; Anne M. Bartuszevige; Richard Iovanna; Christian A. Hagen; Fawn E. Hornsby

Tradeoffs of Nest and Brood Habitat Availability for Lesser Prairie-Chickens

Daniel S. Sullins; Joseph M. Lautenbach; David A. Haukos

Session 40 - Human Dimensions I

The Future of Hunting and Fishing: A Case for Small Game as a Recruitment Tool.

Loren D. Chase; Doug Burt

Effects of Age, Period, and Cohort on Hunting and Fishing Expenditures and License Purchases.

Rebecca Chase; Loren Chase

Using Age-Period-Cohort Modeling to Project Hunting Participation and Direct Assessment of Retention Intervention for Key Demographic Segments

Brent A. Rudolph; Richelle Winkler; Chris Henderson; Phil Seng; Daniel Escher

Factors Influencing the Motivations of Natural Resource Professionals and Students in Texas to Pursue a Career in the Field

Maria F. Mejia; Kerry Griffis-Kyle; Tom Arsuffi

Full STEAM Ahead: Using Place-Based Art to Evaluate 4th And 5th Grade Students' Knowledge of Trophic Levels

April A. Conkey; Marybeth Green

Session 41 - New Technology I

Surveying Anuran Diversity and Their Breeding Activities Via Call Monitoring: A Novel Device Developed Based on Machine-Learning Algorithms

Michael D. Black; Thilina D. Surasinghe; Christian Brady; Nicholas Abreu; Amber Nieves; Perry Warner

Developing and Testing a Software Defined Radio Telemetry System for Wildlife Tracking

Michael R. Finley; Michael W. Shafer; Paul G. Flikkema

Counting Cats: A User Friendly Tool for Identifying Individual Pumas from Footprints.

Sky Alibhai; Zoe Jewell; Jonah Wy Evans

Detecting the Presence and Abundance of Streamside Salamanders in Middle Tennessee Using Environmental DNA

Nicole A. Witzel; Ali Taheri; William Sutton

Transmitter Influences on Raptor Agility and Raptor Prey Selection

Rebecca Perkins; Clint Boal

Session 43 - Conservation and Ecology of Birds IV

Does Wild Bird Feeding Improve Nest Survival or Clutch Size of Target Species?

Robyn L. Bailey; David N. Bonter

Managed Housing Is A Critical Component to Population Persistence of the Eastern Purple Martin

Blake A. Grisham; Daniel Raleigh; Daniel U. Greene; James D. Ray; Joe Siegrist

Effects of Livestock Grazing Management on the Abundance of Grassland Birds in a Northern Mixed-Grass Prairie Ecosystem

Skyler Vold

Nonnative Grasses Decouple Density and Nest Success in Grassland Birds

Erik M. Andersen; Robert J. Steidl

Understanding Landscape Scale Habitat Associations And Mapping Core and Potential Breeding Habitat for the Tricolored Blackbird

Chad Wilsey; Nicole Michel; Lotem Taylor; Samantha Arthur; Neil Clipperton

Grassland Bird Response to Annual Herbaceous Biomass Harvest on the Leopold Wetland Management District, Wisconsin

BJ Byers; Christine Ribic

Estimating the Effect of Perennial Vegetation in an Agricultural Landscape on Grassland Birds

Julia Dale; Matt Stephenson; Lisa Schulte Moore; Robert Klaver

Sandhill Crane Winter Fidelity on the Southern High Plains

Kathryn J. Brautigam; Blake A. Grisham; William P. Johnson; Daniel P. Collins; Shaun L. Oldenburger; Jude R. Smith; Nichole D. Athearn; Warren C. Conway

Effects of Biosolids on Grassland Wildlife in British Columbia

Kirstie J. Lawson; Karen E. Hodges; Frank Doyle

Using Stable Isotopes to Estimate Reliance on Agricultural Food Subsidies And Migration Timing for a Migratory Bird

Matthew A. Boggie; Scott A. Carleton; Daniel P. Collins; John Vrandenburg; Christopher J. Sroka

Session 48 - Wildlife Damage Management

Civil Airports from a Landscape Perspective: Implications for Reducing Damaging Bird Strikes

Morgan B. Pfeiffer; Tavis L. DeVault

Efficacy of Translocation as a Management Tool for Urban Mule Deer in Utah

Channing R. Howard; David N. Koons; Mark K. Brunson; Mary L. Connor

Spatio-Temporal Strategies for Efficient Planning of Feral Swine Population Management

Kim M. Pepin; Amy J. Davis; Kurt C. Vercauteren

Testing the Effectiveness of Bear-Resistant Containers to Reduce Black Bear-Human Conflicts

Heather Johnson; David Lewis; Stacy Lischka; Stewart Breck

Changes in Feral Swine Activity in Response to Prescribed Burning in the William B. Bankhead National Forest, Alabama.

Patience Knight; Helen Czech; William Stone

Predicting Spatial Factors Associated with Livestock Depredations by the Mexican Wolf in Arizona and New Mexico

Reza Goljani A; Jennifer K. Frey; David L. Bergman; Stewart W. Breck; James W. Cain; John Oakleaf; Julia B. Smith

A Call for Science-Based Metrics of Success for Management Actions Addressing Invasive Species

Amy Davis; Bruce Leland; Michael Bodenchuk; Kurt VerCauteren; Kim Pepin

The Causal Impact of Changes in Deer Abundance on Deer-Vehicle Collisions

Jennifer L. Raynor

Anthraquinone as a Vole Repellent: Not Just for the Birds?

Roger A. Baldwin; Ryan Meinerz; Gary W. Witmer; Scott J. Werner

Hunter and Nonhunter Disease Risk Perceptions over Time

Craig A. Miller; Jerry J. Vaske

Session 50 - Conservation and Ecology of Mammals - Carnivores

A Novel Approach to Estimation of American Badger Density Using Spatially Explicit Capture-Recapture Models and Automatic Cameras at Water Sources in the Chihuahuan Desert

Robert Harrison; Matthew Gould

Occupancy Dynamics of River Otter as a Function of Stream And Riparian Communities

Angela Holland; Eric Hellgren; Clayton Nielsen; Eric Schaubert

Comparison of Raccoon and Opossum Population Sizes Estimated from Traditional Mark-Recapture and Camera Trap Techniques

Breann Ross; Russell Burke; Lorenza Beati; Howard Ginsberg; Graham Hickling; Nicholas Ogden; Jean Tsao

Resting Microsite Use by Fishers and Boreal Martens: Role of Thermal Stress Across Species and Regions

Michael J. Joyce; Andrzej Zalewski; John D. Erb; Ron A. Moen

Quantifying Rest Structure Reuse Rates by Pacific Martens on the Lassen National Forest, California

Matthew Delheimer; Katie Moriarty; Marie Martin; Patrick Tweedy

Distinguishing Reintroduction from Recolonization with Genetic Testing

Frances Stewart; John Volpe; John Taylor; Jeff Bowman; Philippe Thomas; Margo Pybus; Jason T. Fisher

Niche Overlap of Competing Carnivores across Climactic Gradients and the Conservation Implications of Climate Change at Geographic Range Margins.

Jody M. Tucker; William J. Zielinski; Kerry M. Rennie

Fisher Reproductive Parameters in the Southern Sierra Nevada Relative to the Broader Range

Rebecca E. Green; Kathryn L. Purcell; Craig M. Thompson; Douglas A. Kelt; Heiko U. Wittmer

Subsistence Livelihoods Have Low Impact on Mammalian Occupancy in Southeastern Nicaragua Despite Widespread Declines.

Lauren T. Phillips; Gerald R. Urquhart; Robert A. Montgomery

Finding the Eastern Spotted Skunk: Developing a Non-Invasive Hair Snare Method for the Collection of Eastern Spotted Skunk Genetic Material

Brian S. Wuertz; Geriann Albers; Colleen Olfenbuttel; Casey Gray; Ryan Sparks; Andrew Kota; Liesl Erb

Session 51 - Human Dimensions II

Do Wildlife Value Orientations Inform Management Preferences for Wild Pigs?

Erin E. Harper; Stephanie Shwiff; Jessica Tegt

Impact of Multiple Platforms on Chronic Wasting Disease Communication Strategies

Chad Stewart

Conservation and Utilization of the White-tailed Mexican Deer as a Detonator of Social Welfare in the Sierra De Huautla, Biosphere Reserve, Central Mexico.

David García-Solórzano

Hazards to Birds from Open Metal Pipes

Charles Hathcock; Jeanne M. Fair

The Attitudes They Are A-Changin': Using Discrete Choice Experiments to Understand Deer Hunter Preferences

Leslie E. McInenly; David C. Fulton; Louis Cornicelli

Using Hunter and Birdwatcher Trips to Inform Habitat Delivery

Anthony Roberts; Patrick Devers; Scott Knoche; Paul Padding; Robert Raftovich

Designing Multimodal Texts to Engage Non-Specialists in the Protection of Predators

Fabiola C. Rodríguez Estrada; Antonio A. Rodríguez Rosales

Piping Plovers Taste Like Chicken: Conservation Planning to Reduce Human-Wildlife Conflict

Shawna Barry; Paola Bernazzani; David Zippin

Approaches to Preventing Illegal Releases of Boars in the Wild

Stefano Giacomelli; Michael Gibbert; Roberto Viganò

Session 52 - Conservation and Ecology of Mammals I

Behavioral Responses in the Endangered Sonoran Pronghorn to Variation in Short- and Long-Term Risk Arising from Border-Related Human Activity

Stephanie E. Doerries; David A. Christianson

Mitochondrial, Microsatellite, and Genomic Single Nucleotide Polymorphisms Markers for Assessing Landscape-Scale Population Structure and Diversity in Bighorn Sheep Across Wyoming, United States

Sierra M. Love Stowell; Roderick B. Gagne; Holly B. Ernest

Disentangling the Gordian Knot of Mountain Lion Predation on Bighorn Sheep

Eric M. Rominger

When, Where, and Why Do Contacts Occur? Investigating Interactions between Bighorn Sheep in and Around Glacier National Park

Marie I. Tosa; Tabitha A. Graves; Mark J. Biel; Daniel W. Carney; Barb Johnston; Paul C. Cross; Kim A. Keating

Evaluation of Aerial Population Estimation Techniques for Pronghorn in Texas

Caroline L. Ward; Randy W. DeYoung; Timothy E. Fulbright; David G. Hewitt; Shawn S. Gray

Resource Selection in Desert Bighorn Sheep: Trade-Offs Associated with Recruitment

Marcus Blum; Kelley Stewart; Mike Cox; Brian Wakeling; Brian Wakeling

Desert Bighorn Sheep Behavioral Responses to Recreation and Urban Visitor Use of the Pusch Ridge Wilderness Area, Arizona

Brett C. Blum

Role of Harvest and Environmental Factors on Horn Size of Mountain Sheep

Taylor N. LaSharr; Ryan A. Long; James R. Heffelfinger; R. Terry Bowyer; Vernon C. Bleich; Paul R. Krausman; Justin M. Shannon; Kevin L. Monteith

Effects of Sampling Time on Bone Marrow Fat Estimates

Jacob Kay; Dr. James W. Cain III

Quantifying Endocrine Response to Anthropogenic Stressors Associated with Border Activity in Free Ranging Pronghorn

David Christianson; Stephanie Doerries; Susannah Woodruff; Lisette Waits

Session 56 - Fire Science and Management

Demographic Response of Northern Bobwhites to Pyric Herbivory of Non-Native Grassland

Eric D. Grahmann; Timothy E. Fulbright; Fidel Hernandez; Michael W. Hehman; David B. Wester; Alfonso Ortega-Santos; Blake A. Martin

American Black Bear Movements in Response to Wildfire in Eastern Tennessee

Jessica Giacomini; Coy Blair; Joseph D. Clark; Lisa Muller

Building Consensus for Forest Restoration Through Wildfire Risk Assessment

Steven Bassett

Prescribed Rangeland Fire's Influence on Northern Bobwhite Quail Chick Food Resources

Britt Smith; Robin Verble-Pearson; Brad Dabbert

Wildfire Mapping and Damage Analysis in Grand Bay National Estuarine Research Reserve, Mississippi Using a Small Unmanned Aerial System with a Multispectral Payload

Sathishkumar Samiappan; Cary D. McCraine; Gray Turnage; Lee Hathcock; Robert Moorhead

Session 57 - Conservation and Ecology of Birds - Game Birds II

Thermally Usable Space May Become Limiting for Northern Bobwhites

Benjamin R. Olsen; Timothy E. Fulbright; Fidel Hernandez; Eric D. Grahmann; David B. Wester; Michael W. Hehman

Spatiotemporal Variation in Multiscale Space Use by Wild Turkeys

Ryo Ogawa; Jerrold L. Belant; Adam B. Butler; Scott A. Rush; Darren A. Miller; Guiming Wang

Density Estimation and Habitat Modeling for Pheasant Population Restoration in Pennsylvania

Lacey Williamson; Scott Klinger; Duane Diefenbach; David Walter

Wild Turkey Space Use and Movement in Response to Temperature

Allison Rakowski; R. Dwayne Elmore; Craig A. Davis; Samuel D. Fuhlendorf

Resource Selection by American Woodcock During Fall Migration at Cape May, New Jersey

Brian B. Allen

Session 58 - Conservation and Ecology of Mammals - Cervids II

Reproductive Effort and Success of Male White-tailed Deer: Trade-Offs in Time Spent Foraging Vs Mate-Search

Aaron M. Foley; Randy DeYoung; David Hewitt; Matthew Schnupp

Genetic Contribution of Northern Stock Sources to Free-Range Populations of White-tailed Deer in Southcentral United States

Jordan L. Youngmann; Steve Demarais; Randy W. DeYoung; Bronson Strickland; Johnathan Bordelon; Chris Cook; William McKinley

While Males Fight, Females Choose: Male Phenotypic Quality Informs Female Mate Choice in Mammals

Daniel L. Morina; Steve Demarais; Bronson K. Strickland; Jamie E. Larson

Do Antler Point Restrictions Make a Notable Impact?

Rebecca L. Cain; Brent Rudolph; William F. Porter; David M. Williams

Evaluation of Selective Harvest on Phenotypic, Demographic, and Genotypic Traits in White-tailed Deer

Masahiro Ohnishi; Randy W. DeYoung; Don A. Draeger; Charles A. DeYoung; Bronson Strickland; Steven Lukefahr; David G. Hewitt

Session 59 - Conservation Planning and Policy

Meet Wila and What It Took to Make Meaningful New Wildlife Legislation in the Northwest Territories, Canada

Robert Gau; Christine Glowach; Lynda Yonge (retired)

Addressing Ecological, Economic, and Social Tradeoffs of Refuge Expansion in a Constrained Landscape

Marjorie R. Liberati; Chadwick D. Rittenhouse; Jason C. Vokoun

Planning for Urban Biodiversity: A Global Review of Biodiversity and Ecosystem Service Plans

Charles H. Nilon; Myla F.J. Aronson; Sarel S. Cilliers; Cynnamon Dobbs; Lauren J. Frazee; Mark A. Goddard; Karen M. O'Neill; Debra Roberts; Emilie K. Stander; Peter Werner; Marten Winter; Ken P. Yocom

Maximizing Our Effectiveness: State Fish and Wildlife Agencies and the Public Trust

Terra A. Rentz; Jacqueline Frair

Slow Dancing Under the Methane Cloud - the Uneasy Relationship of Policy and Biology in the Gas Patch

James Ramakka

Session 60 - Conservation and Ecology of Reptiles and Amphibians I

Modeling Qualitative Vulnerability of Desert Amphibians and Reptiles to Climate Change

Kerry L. Griffis-Kyle; Krista Mougey; Sharmistha Swain; Matt Van Landeghem; Joseph Drake; Samantha Kahl

Timber Rattlesnake Habitat Use and Selection: A Thermal Landscape Perspective

William E. Peterman; Andrew S. Hoffman

The Rocky Reality of Roadways and Rattlesnakes

Garrett P. Sisson; Willem M. Roosenburg; Shawn R. Kuchta

Snakes Move in Mysterious Ways: Daily Activity Patterns and Movements of Northern Mexican Gartersnakes

Tiffany A. Sprague; Heather L. Bateman; Erika M. Nowak

Species Distribution and Occupancy Models for Informing Reptile Conservation

Daniel Martin; Larissa Bailey; Cameron Aldridge; Robert Reed; Daniel Manier

Session 62 - Wildlife Disease and Toxicology II

Pathogen-Mediated Selection in Free-Ranging Elk Populations Infected by Chronic Wasting Disease

Ryan J. Monello; Nathan L. Galloway; Jenny G. Powers; Sally Madsen-Bouterse; Mary E. Wood; William H. Edwards; Katherine I. O'Rourke; Margaret A. Wild

Drought as a Risk Factor for Hemorrhagic Disease in the Eastern United States

Sonja Christensen; Mark Ruder; David Williams; William Porter; David Stallknecht

The Poor Get Richer? Spatial and Temporal Analysis of Genotypes Associated with Delayed Progression of Chronic Wasting Disease

Darren M. Wood; Amy B. Welsh; James M. Crum; Christopher W. Ryan

Genetic Susceptibility of Eastern Cervid Populations to Chronic Wasting Disease

William Miller; W. David Walter

Advent and Increasing Prevalence of Chronic Wasting Disease in Elk at Wind Cave National Park, South Dakota

Glen A. Sargeant; Margaret A. Wild; Daniel E. Roddy; Gregory M. Schroeder

Session 63 - Conservation and Ecology of Mammals II

Resource Utilization of American Marten in the Hiawatha National Forest in the Upper Peninsula of Michigan

Brad Silet; Gary Roloff; Eric Clark; Joe Lautenbach; Russell Aikens; Aimee Baier; John Powell; Steve Sjogren

Influence of Manatees' Diving on Their Risk of Collision with Watercraft

Holly H. Edwards; Julien Martin; Charles J. Deutsch; Robert G. Muller; Stacie M. Koslovsky; Alexander J. Smith; Margaret E. Barlas

Indirect Effects of Human Disturbance: How Risk-Averse Behavior Affects Use of the Foodscape

Samantha Dwinnell; Hall Sawyer; Jill Randall; Jeffrey L. Beck; Gary L. Fralick; Kevin L. Monteith

Seasonal Shifts in Marine Mammal Core Use Areas and Vessel Traffic in the Alaskan Arctic Ocean

Benjamin K. Sullender; Melanie Smith

Development of On-Shore Behavior Among Polar Bears in the Southern Beaufort Sea: Inherited Or Learned?

Kate Lillie

Session 64 - Conservation and Ecology of Mammals III

The Inefficiency of Harvest-Based Selection In Ungulates

James Heffelfinger; Kevin Monteith; Ryan Long; R. Terry Bowyer; Vernon Bleich; Paul Krausman; Tayler LaSharr

The Landscape of Fear May Play a Minimal Role in the Spatiotemporal Distribution of Urban Mammals

Travis Gallo; Mason Fidino; Elizabeth Lehrer; Seth Magle

A Dollar Out of Fifteen Cents: Estimating Fosa (*Cryptoprocta ferox*) Density in Northeastern Madagascar from Sparse Data

Asia Murphy; Brian Gerber; Marcella Kelly; Sarah Karpanty; Felix Ratelolahy; Zach Farris

Habitat Use and Movement Patterns of Wildlife on the Kenai Peninsula, Alaska Informs Mitigation Strategies for Highways

Lowell H. Suring; William L. Gaines; James S. Begley

Wildlife Movement Models for Conservation Planning along Linear Barriers

Eric Abelson

Session 65 - Human Dimensions III

Predation Services: A Framework for Studying the Costs and Benefits of Carnivores and their Prey

Sophie L. Gilbert; Robin Naidoo

Sustainability Evaluation of Terrestrial Hunting Systems in Japan, South Korea and Taiwan

Arthur Mueller

Perceptions of Wildlife Habitat Management Practices on New Jersey Wildlife Management Areas

Catherine Tredick; Daniel Moscovici; Joseph Russell

A National Analysis of Reptile Biodiversity and Ecosystem Services within the Protected Areas of the United States

Kenneth G. Boykin; William G. Kepner; Alexa J. McKerrow; Anne C. Neale; Kevin J. Gergely

Citizen Reporting of Wildlife Disease Outbreaks

Caitlin N. Ott-Conn; Tyler R. Petroelje; Thomas M. Cooley; Julie R. Melotti

Session 66 - New Technology II

Beyond Capture: Development of a Visual Body Condition Index for Mule Deer Using Camera Traps

Rachel A. Smiley; Tony W. Mong; Kevin L. Monteith; Matthew J. Kauffman; Chadwick D. Rittenhouse

Public Geospatial Datasets as an Approach to Maximizing Efficiency in the Collection of Site Covariates in Wildlife-Vehicle Collision Studies

James Vance; Walter Smith; Gabrielle Smith

Developing and Testing a Software Defined Radio and UAV System for Wildlife Tracking

Kellan M. Rothfus; Matthew Robinson; Gabriel Vega; Michael Shafer; Paul Flikkema

Excel, Geodatabase, and Spatial Tool Workflows to Promote Rapid Organization and Analysis of Data Collected from Platform Transmitter Terminals

Krista Mougey; Cathy Nowak; Dan Collins; Blake Grisham

Spatial Mark-Recapture as a Conservation Tool for Monitoring Grizzly Bear Populations in Alberta

John Boulanger; Scott Nielsen; Gord Stenhouse

Session 67 - Conservation Communication

The Fisherman and the Fishing Cat: How Coastal Lives Depend on a Wild Cat's Habitat

Ashwin Naidu; Sujeevan K. Bullard; Mallika Vijayakumar

Communicating Conservation: How Biologists Can Use Video to Engage the Public

Corey J. Shaw

Non-Lead Hunting Education: A Collaborative Solution

Leland Brown

Recent Developments in Midwest Grassland Bird Conservation

Kelly VanBeek; Thomas Will

Mirror, Mirror: Examining the Reflection of Hunting and Fishing Through Advertisements

Ashley Tanner; Evan Tanner; Samuel Fuhlendorf

Session 69 - Invasive Species

Genetic Origins of United States Feral Swine Populations

Timothy J. Smyser; Michael S. Robeson; Hendrik-Jan Megens; Mirte Bosse; Martien A.M. Groenen; Samuel R. Paiva; Danielle A. de Faria; Harvey D. Blackburn; Brandon S. Schmit; Antoinette J. Piaggio

Biotic and Abiotic Factors Predicting the Global Distribution And Population Density of an Invasive Large Mammal

Jesse Lewis; Matthew Farnsworth; Chris Burdett; David Theobald; Miranda Gray; Ryan Miller

Do Common Forest Management Techniques Facilitate Exotic Plant Invasions?

Donald P. Chance; Johannah R. McCollum; Garrett M. Street; Bronson K. Strickland; Marcus A. Lashley

What If Everything You Thought You Knew About "Feral" Cats Was Wrong?

Peter J. Wolf

Impacts of Invasive Mute Swans on the Avian Diversity of Great Lakes Coastal Wetlands

Nicole J. Wood; Thomas M. Gehring; Donald G. Uzarski

Comparing Depredation by Feral Swine between Simulated and Natural Turkey Nests

Heather N. Sanders; Nathan P. Snow; David G. Hewitt; Kurt C. Vercauteren; Humberto L. Perotto-Baldivieso

Quantifying Site-Level Elimination Certainty of an Invasive Species Through Occupancy Analysis of Camera-Trap Data

Amy Davis; Ryan McCreary; Jeremiah Psiropoulos; Gary Brennan; Terry Cox; Andrew Partin; Kim Pepin

Monitoring the Eradication of European Mouflon Sheep from the Kahuku Unit of Hawai'i Volcanoes National Park

Steven C. Hess; Seth W. Judge; Jonathan K. Faford; Dexter Pacheco; Christina R. Leopold

Do Feral Swine Alter the Island Biogeography of Native Wildlife in Agro-Ecosystem Forest Patches?

Matthew R. Ivey; Dr. Marcus Lashley; Dr. Bronson K. Strickland; Dr. Michael E. Colvin

Spatiotemporal Drivers of Habitat Selection by Feral Pigs in an Agricultural Landscape

Kelsey Paolini; Garrett M. Street; Bronson K. Strickland; Jessica L. Tegt; Kurt C. VerCauteren

Session 76 - Conservation and Ecology of Birds - Waterfowl I

Spatiotemporal Changes in Wintering Harvest Distribution of Midcontinent White-Fronted Geese

Callie B. Moore; Douglas C. Osborne

Habitat Selection of Wintering Waterfowl Communities at Anahuac National Wildlife Refuge

Tiffany C. Lane; Blake A. Grisham; Jena A. Moon; David A. Haukos; Warren C. Conway

Long-Term Trends and Future Projects of Weather Severity Indices for Dabbling Ducks in Eastern North America

Michael L. Schummer; Michael Notaro; Lena Van Den Elsen Van Den Elsen; John Coluccy; Michael Mitchell

Adaptive Nest Site Selection Influences Cinnamon Teal Nest Survival In Colorado

Casey M. Setash; William L. Kendall; David Olson

Body Condition of Arctic Geese Wintering in Arkansas Arctic Geese Wintering in Arkansas

Ethan R. Massey; Douglas C. Osborne

Quantifying Changes and Drivers of Mottled Duck Density in Texas

Beth E. Ross; David A. Haukos; Patrick Walther

Habitat Selection of Adult Female Mallards in the Lake St. Clair Region During Autumn and Winter

Matthew D. Palumbo; Scott A. Petrie; Michael L. Schummer

Hybridization and Population Structure of the Chihuahuan Desert Endemic Mexican Duck

Joshua I. Brown; Philip Lavretsky

Determining Hybrids and Rates of Hybridization: Population Genomics of Lesser and Greater Scaup

Philip Lavretsky

Survival and Reproductive Success of Mottled Ducks on the Upper Texas Coast

Trey McClinton; Heather A. Mathewson; Stephen K. McDowell; Jared D. Hall

Session 77 - Wildlife Disease and Toxicology III

More Offal Than We Thought: Extended Availability of Lead to Wildlife from Hunter-Discarded Gut Piles

Margaret G. Rheude

Evaluating the Role of Elk Migration and Weather Variability On the Commingling Risk of Elk and Livestock: Implications for Brucellosis Transmission in Montana

Nathaniel Rayl; Jerod Merkle; Kelly Proffitt; Emily Almberg; Jennifer Jones; Paul Cross

Climate-Induced Behavioral Changes Influence Exposure of an Arctic Apex Predator to Pathogens and Contaminants

Todd Atwood; Colleen Duncan; Kelly Patyk; Pauline Nol; Jack Rhyan; Matthew McCollum; Melissa McKinney; Andrew Ramey; Jitender Dubey

High Seroprevalence of *Toxoplasma Gondii* in Two Large Mammals of the Central Appalachians, USA

John J. Cox; Sean M. Murphy; Brittany Slabach; John T. Hast; Ben C. Augustine; Joseph McDermott; Joseph M. Guthrie; Sutton C. Maehr; Oliver C. H. Kwok; Jitender P. Dubey

Prevalence of *Toxoplasma Gondii*, *Leptospira Spp.*, and *Parvovirus Spp.* in North American River Otter throughout North Carolina.

Charles W. Sanders; Christopher S. DePerno; Colleen Olfenbuttel

Impacts of Exotic Lice on Hair Loss Syndrome Prevalence and Fawn Survival.

Brooke Berger; Greg Gerstenberg; Daniel Barton; Richard N. Brown

Model Recommendations Meet Management Reality: Implementation and Evaluation of a Network-Informed Vaccination Strategy for Endangered Hawaiian Monk Seals

Stacie Robinson; Michelle Barbieri; Jason Baker; Bert Harting; Charles Littnan; Meggan Craft

Effects of Sylvatic Plague on Northern Idaho Ground Squirrels

Amanda R. Goldberg; Courtney J. Conway; Diane Evans Mack; Greg Burak; Dean E. Biggins

Spatial Ecology of Gray Foxes: Informing Rabies Management in the Southwest

Amanda M. Veals; John L. Koprowski; Kurt C. VerCauteren; David L. Bergman

The Importance of Raccoon Movement in Determining the Effectiveness of a Vaccination Barrier Against the Spatial Spread of Raccoon Rabies

Kim M. Pepin; Stacey Elmore; Erin E. Rees; Rich Chipman; Amy T. Gilbert

Session 78 - Conservation and Ecology of Mammals - Carnivores

Preliminary Predation Patterns of Cougars and Wolves in an Area of Sympatry

Elizabeth K. Orning; Katie M. Dugger; Darren A. Clark

Variable Effects of Harvest within and Across Wolf Packs in the Rocky Mountains

Sarah B. Bassing; Dave E. Ausband; Mike S. Mitchell; Paul M. Lukacs; Mike K. Schwartz; Greg Hale; Lisette P. Waits

Assessing Translocation Strategies for Swift Fox in the Northern Great Plains

Donelle Schwalm; Kristy Bly

Wolf Recolonization Threatens Caribou Persistence on Michipicoten Island, Ontario

Brent R. Patterson; Arthur R. Rodgers; Jen Shuter; Carol Dersch; Steve Kingston; Evan McCaul

Resource Selection by Coastal Wolves Reveals the Seasonal Importance of Seral Forest and Suitable Prey Habitat

Gretchen H. Roffler; David P. Gregovich; Kristian R. Larson

Estimating Recruitment of Wolves with Limited Data

Allison C. Keever; Michael S. Mitchell; Kevin M. Podruzny; Angela D. Luis; James T. Peterson

Using Genetic Pedigree Reconstruction to Support Recovery of the Wild Mexican Gray Wolf Population

Jennifer R. Adams; Colby Gardner; Dyan Straughan; Maggie Dwire; Sherry Barrett; Lisette P. Waits

Large Carnivore Reintroductions Outside of Protected Areas and the Need for Ongoing Conservation Management.

Jay V. Gedir; James W. Cain III; John K. Oakleaf; Stewart W. Breck

Harvest and Group Effects on Pup Survival in Gray Wolves

David Ausband; Mike Mitchell; Carisa Stansbury; Jennifer Stenglein; Lisette Waits

Trophic Ecology and Activity Patterns of Mountain Lion and Culpeo Fox in Chilean Central Andes

Christian T. Osorio Popiolek; Ana S. Muñoz; Nicolás Guarda; Marcella Kelly; Cristian Bonacic

Session 82 - Cultural Aspects of Wildlife Conservation

Changing "Cat-Titudes": The Effects of Messaging When Advocating Feral Cat Colony Control

Maureen R. McClung; Lindsay A. Kennedy; Jessica Bonumwezi; Brynn Davis; Regan Hatwig; Kevin J. Kracjir; Chris Wakim

On the Dependence of Tribal Livelihoods on Coastal Mangrove Forests in Andhra Pradesh, India

Santosh Edupuganti; Appa Rao Allaparthi; Pradeep K. Narsupalli; Ashwin Naidu

Cultural Aspects of Wildlife Conservation in Ancient India

KISHOR S. DERE

Reintroducing the Vicuña to Ecuador: Symbols, Values, and the Politics of Conservation

Brian E. McLaren; Andrea Garrido; Bacilio Pomaina; Luis Alberto Tuaza

Essential Elements Required for Working with American Indians

Jonathan H. Gilbert

Session 86 - Natural Resources Management

Climate Change and Evolutionary Adaptive Capacity (EVAC): Bridging the Gap between Science and Application

Laura Marie Thompson

Use of Fiber-Optic Distributed Temperature Sensing to Characterize Changes in Thermal Patterns within a Fragmented Grassland

Evan P. Tanner; Samuel D. Fuhlendorf; John Polo

Spatial Challenges of Using Local Scale Monitoring Programs for Landscape Level Applications

Mindy Rice

Incorporating Wildlife Research into the Rio Grande Water Fund

Sarah Hurteau; Laura McCarthy

New Mexico Habitat Stamp Program: an Agency-Public Partnership for Wildlife Conservation on Federal Lands

Reuben Teran

Session 87 - Conservation and Ecology of Mammals IV

Floods to Fire: Evaluating Sitatunga Space-Use During Varying Hydrologic Conditions

Camille H. Warbington; Mark S. Boyce

Savanna Elephant Numbers Are Only a Quarter of Their Expected Values

Ashley S. Robson; Morgan J. Trimble; Andrew Purdon; Kim Young-Overton; Stuart L. Pimm; Rudi J. van Aarde

Spatiotemporal Dynamics in Space Use of Mongolian Gazelle: Conservation Implication of Nomadic Movements

Nandintsetseg Dejid; Chloe Bracis; Kirk Olson; Thomas Mueller

Movement Ecology, Habitat, and Nutrient Transfer Dynamics of the Common Hippopotamus

Tristan Nunez; Douglas J. McCauley; Justin Brashares

Ecosystem Engineering by Subterranean Insects Buffers Large Mammals Against Climate Warming

Ryan Long; Elyce Gosselin; Savannah Kollasch; Warren P. Porter; Robert M. Pringle

Session 88 - Conservation and Ecology of Wildlife Communities I

Effects of Wildfire on Avian Communities in the Arizona Sky Islands

Jamie S. Sanderlin; William M. Block; Joseph L. Ganey; Jose M. Iniguez; Samuel Cushman

Native Bees in Managed Shrublands in the Green Mountains, Vermont

David I. King; Joan C. Milam

Emergent Wetland Bee Communities in the Lower Mississippi Alluvial Valley of Arkansas

Phillip L. Stephenson

Wanna Get Buzzed Out on the Range? Pyric Herbivory Increases Pollinator Diversity and Creates Bumble Bee Habitat

Shelly Wiggam; Chyna K. Pei; Gregory Zolnerowich; Lee W. Cohnstaedt; Brian P. McCornack

Understanding Spatial and Temporal Distribution of Red Foxes in Piping Plover Nesting Habitat in Southern New Jersey

Michelle Stantial; Jonathan Cohen

Session 89 - Conservation and Ecology of Reptiles and Amphibians II

Combining Citizen Science and Traditional Research Reveals Trends in Northeastern Diamondback Terrapin Populations

Stephanie Egger; A. Brett Bragin; Barbara Brennessel; Michael Farina; Sandra J. Garren; Alexandra Kanonik; Drew P. McQuade; Noga Neeman; Charlotte B. Sornborger; John Wnek; Russell L. Burke

Drought Affects Growth and Sex Ratio of Painted Turtles in a Long-Term Study in Nebraska

Larkin A. Powell; Ellen Dolph; Charrissa Zuerlein

Movements, Behaviors, and Response to Fire Events of Eastern Box Turtles in East Tennessee

Katie Harris; Craig Harper; Joseph Clark; Dwayne Elmore

Comparison of Survey Methods Enabling Estimates of Population Size and Population Demographics of Rio Grande Cooter

Ivana Mali; Adam Duarte; Dan H. Foley III; Michael R.J. Forstner

Nesting Location Determines Emergence Success of Eastern Box Turtle Hatchlings in a Heavily Altered Landscape

Tracy A. Melvin; Gary Roloff; Alicia Ihnken

Session 90 - Biometrics and Population Modeling III

Estimating Bird Species' Responses to Sandhill Habitat Restoration in the Southeastern United States: Single-Visit Surveys, an Unbalanced Design, and Varying Methodologies

Bryan L. Nuse; Matt Elliott; Clinton T. Moore

Timing of Predation and Carnivore Movement in an Urban-Wildland Interface

Frances Buderman; Mevin Hooten; Mat Alldredge

A Bayesian Hierarchical Model of Loggerhead Sea Turtle Nest Success Response to Extreme High Tide Events

Alicia Wilson

Estimating the Survival of Dependent Young from Repeated Counts: A Hierarchical Bayesian Approach

Timothy P. Lyons; Kirk W. Stodola; Thomas J. Benson

Data Weighting for Integrated Population Models

Charles R. Henderson; Paul M. Lukacs; Mark A. Hurley

Session 91 - Conservation and Ecology of Mammals V

Assessing Snowshoe Hare Distribution and Abundance in the Face of Climate Change

Shawn M. Cleveland; Brian Underwood

Scared to Death: the Lethal Effects of Non-Lethal Predator Exposure

Michael Sheriff

A Survey of the Parasites of the Native New England Cottontail, the Introduced Eastern Cottontail and Cottontail Habitat in the Lower Hudson Valley

Samantha L. Mello; Jonathan B. Cohen; Christopher M. Whipps

Movement and Dispersal in a Rare Native Lagomorph And a Common Invasive Competitor: Implications for Metapopulation Management

Amanda E. Cheeseman; Jonathan B. Cohen; Sadie J. Ryan; Christopher M. Whipps

Restoration of a Rare Lagomorph: Current Status and Approach for Monitoring Remnant New England Cottontail Populations

Adrienne I. Kovach

Session 92 - Conservation and Ecology of Mammals - Cervids III

White-tailed Deer Fawn Space Use in Central Iowa

Patrick G. McGovern; Julie A. Blanchong; Stephen J. Dinsmore

Evaluating The Influence of White-tailed Deer on Forest Regeneration at Landscape Scales In New York

David W. Kramer; Mark Lesser; Rachel Wheat; Martin Dovciak; Jeremy E. Hurst; Jaqueline Frair

Seasonal Effects of Coyote Abundance on White-tailed Deer Foraging Behavior in the Georgia Piedmont

William D. Gulsby; Michael J. Cherry; James T. Johnson; L. Mike Conner; Karl V. Miller

Sociality of Adult Female White-tailed Deer Following Parturition

Jacob M. Haus; Jacob L. Bowman; Justin R. Dion; Joseph E. Rogerson

Landscape-Level Patterns in White-tailed Deer Fawn Survival in North America

Tess Gingery; Duane Diefenbach; Bret D. Wallingford; Christopher S. Rosenberry

Session 93 - Conservation and Ecology of Birds - Waterfowl II

Spring Migration Strategies of Mallards and American Black Duck That Winter in the Finger Lakes Region

Justin M. Droke; Michael Schummer; Jonathan Cohen

Using Camera Technology to Validate Waterfowl Nest Monitoring Protocols

Sam R. Krohn; John Palarski; Nickolas Conrad; Ryann Cressey; Kaylan Carrlson; Tom Buhl; Susan Ellis-Felege

Impacts of Spatiotemporal Variation in Migration Chronology on the Fall Inventory of Midcontinent White-Fronted Geese

Douglas C. Osborne; Ryan J. Askren

From Bluebills to Bivalves: Lesser Scaup Diets and Population Trends on Lake Pontchartrain

Clay M. Stroud; Kevin M. Ringelman; Michael A. Poirrier; Claire E. Caputo

Variables Influencing the Wintering Distribution of Black Scoters in the South Atlantic

Hannah M. Plumpton; Emily D. Silverman; Beth E. Ross

Session 96 - Conservation and Ecology of Mammals VI

Elk Selection for Vacant Predator Niches Favors Coexistence with Wolves And Cougars in Northern Yellowstone National Park.

Michel T. Kohl; Toni K. Ruth; Daniel R. Stahler; Mathew C. Metz; Douglas W. Smith; Daniel R. MacNulty

The Jaguar in El Cielo Biosphere Reserve, Tamaulipas, Mexico

Rogelio Carrera-Trevino; Ivan Lira-Torres; Luis Martinez-Garcia; Martha Lopez-Hernandez

Fear of the Human "Super Predator" Reduces Feeding Time in a Large Carnivore

Justine A. Smith; Justin Suraci; Michael Clinchy; Ayana Crawford; Devin Roberts; Liana Zanette; Chris Wilmers

Habitat Use Patterns of Mountain Lions in Relation to Behavioral State: Implications for Connectivity

Laura C. Gigliotti; Marc R. Matchett; David Jachowski

A Novel Application of Dynamic Occupancy Models with False Positive Errors to Quantify the Seasonal Use of Sugarcane Farmlands in Northern India by Tigers

Rekha Warriar; Barry R. Noon

Estimating Detection of Prey Items in Bobcat Diet Using an Occupancy Framework

Summer D. Higdon; Dana J. Morin; Jennifer L. Holub; David M. Montague; Michael L. Fies; Lisette P. Waits; Marcella J. Kelly

Landscape And Habitat Use for a Large Carnivore in the City: Use and Selection for Mountain Lions Around Los Angeles

Seth P. D. Riley; John F. Benson; Jeffrey A. Sikich

Feeding Ecology of Neotropical Jaguars: New Perspectives from Next-Generation Sequencing

Claudia Wulsch; Marta DeBarba; Lisette P. Waits; Howard Quigley; Marcella J. Kelly; Konstantinos Krampis

Foraging Behavior of Coyotes Under Intraguild Predation Risk by Cougars: an Experimental Approach

Julie K. Young; Peter Mahoney

Threats to Fishing Cats and Smooth Coated Otters in Godavari Mangroves

Srikanth Manneपुरi; Ananth Reddy

Session 100 - Conservation and Ecology of Mammals VII

Assessing Site Occupancy of the Oscura Mountains Colorado Chipmunk Using Camera Traps

Ian E. Perkins-Taylor; Jennifer K. Frey

Fight! Fight! Fight! Tail Wounds as Indicators of Agonistic Behavior and Predation Attempts in America Beavers.

Steve Windels

Habitat Characteristics of the Hoary Marmot: Assessing Distribution Limitations in Montana

Ben Y. Turnock; Andrea R. Litt; John M. Vore; Christopher M. Hammond

Protected Avian Predators Challenge Continued Survival of an Endangered Endemic Forest Mammal

Emily A. Goldstein; Melissa J. Merrick; John L. Koprowski

Rodent Response to Harvesting Wood for Energy

Sarah Fritts; Chris E. Moorman; Steve M. Grodsky; Dennis W. Hazel; Jessica A. Homyack; Chris B. Farrell; Steven B. Castleberry; Emily H. Evans; Daniel U. Greene

What to Eat in a Warming World: Do Increased Temperatures Necessitate Hazardous Duty Pay?

Embere Hall; Anna Chalfoun

Weather and Prey Predict Mammals' Visitation to Water

Grant Harris; Jim Sanderson; Jon Erz; Sarah Lehnem; Matthew Butler

Range-Wide Conservation Genomics of Black-tailed Prairie Dogs

John A. Erwin; Robert Fitak; Melanie Culver

Landscape Genetics of American Beaver within Coastal Oregon Basins

Jimmy Taylor; Vanessa Petro; Clinton Epps; Tyler Creech; Rachel Crowhurst

Does Lack of Nest-Building Foundations Limit an Arboreal Folivore in Young Forest?

Mark Linnell; James Swingle; Damon Lesmeister; John Bailey; Eric Forsman

Session 102 - Conservation and Ecology of Wildlife Communities II

Impact of Vehicular Traffic on Vertebrate Mortality in and around Two National Parks of Sri Lanka:

Conservation Concerns & Insights for Park Management

Thilina D. Surasinghe; Suranjan Karunaratna; Sudeera Ranwala; Majintha Madawala

Regenerating Clearcuts and Post-Harvest Treatments Increase Spruce-Fir Avian Assemblages and Richness in Managed Stands

Brian W. Rolek; Daniel J. Harrison; Cynthia S. Loftin; Petra B. Wood

Metabarcoding with Environmental DNA to Identify Wildlife Species Potentially Attracted to Uranium Mine Containment Ponds as a Water Source in the Arid Southwest US

Katy Klymus; Catherine Richter; Nathan Thompson; Jo Ellen Hinck

A Global Estimate of Net Secondary Productivity: Wildlife in a Changing World

Garrett M. Street; Gordon G. McNickle

Development of Multi-Species, Long-Term Monitoring Programs for Resource Management

Jeremy A. Baumgardt; Michael L. Morrison; Leonard A. Brennan; Brian L. Pierce; Tyler A. Campbell

Predicting the Fundamental Niche and Global Distribution of Hermatypic Coral Reefs Using Machine Learning Algorithms

Vitalis Dubininkas; Stanley Mastrantonis

Data, Sweat, Policy, Law and Ethics - Sharing Wildlife Data in the Instant Access Age

Kimberly Titus

A General Decision Framework for Quantifying Urbanization Gradients

Benjamin J. Padilla; Chris Sutherland

Prairie Songbird Responses to Bison Grazing at the National Bison Range and Yellowstone National Park

Danielle A. Fagre; Victoria J. Dreitz, PhD

Livestock Grazing Effects on Western Terrestrial Vertebrates: A Systematic Review and Meta-Analysis

Daniel C. Barton; Tim Bean; Abigail Rutrough

Session 103 - Conservation and Ecology of Reptiles and Amphibians III

Impacts of Stream Disturbances on an Appalachian Stream Salamander Assemblage

William Sutton; Michael Osborne; Jeff Bailey; Thomas Pauley

Connectivity Vs Isolation: A Case Study of Gene Flow in an Imperiled Salamander

Eric Hoffman; Steve A. Johnson; Sarah May; Anna Farmer; Stacey Lance

Seasonal Growth Rates and Responses to Increasing Temperature Across Five Red-Backed Salamander Populations

David J. Muñoz; David AW Miller; Chris Sutherland; Evan H. Campbell Grant; Tanya Matlaga

Searching for a Giant Salamander: Distribution of the Common Mudpuppy in Southeast Ohio Using Environmental DNA

Merri K. Collins; Shawn R. Kuchta

The Use of Species Distribution Models and Environmental DNA to Evaluate the Distribution of the Eastern Hellbender in Tennessee, U.S.A.

Jeronimo Silva; William Sutton; Stephen Spear; Michael Freake

Spatial Use and Survivorship of Translocated Wild-Caught Texas Horned Lizards

Devin R. Erxleben; Kelly J. Mitchell; Jesse M. Meik; Nathan D. Rains; James C. Martin

Climate and Recruitment in Pond-Breeding Amphibians

Robert Newman

Habitat Suitability for the Eastern Massasauga Rattlesnake throughout Southern Michigan

Stephanie A. Shaffer

Comparison of Road Surveys and Circuit Theory to Predict Hotspot Locations for Implementing Road-Effect Mitigation

Sean P. Boyle; Jacqueline D. Litzgus; David Lesbarrères

Lethal and Sub-Lethal Effects of Predators on Pathogen Transmission and Trophic Cascades

Lexington K. Eiler; Michael Chislock; Zachary Compton; Turner DeBlieux; Samantha Gallagher; Brian Tornabene; Kelton Verble; Jason T. Hoverman

Session 104 - Biometrics and Population Modeling IV

Novel Application of Adaptive Sampling Principles to Spatial Capture-Recapture

Alec Wong; Jeffrey A. Royle; Angela Fuller

Open Population Spatial Capture-Recapture Models - Promises and Challenges Capture-Recapture Models - Promises and Challenges

Rahel Sollmann; Beth Gardner; Jerrold Belant

Quantifying Spatial Variation in Growth in a Recovering Grizzly Bear Population

Tabitha Graves; Amy MacLeod; J. Andrew Royle; Kevin McKelvey; John Boulanger; Katherine Kendall

Monitoring Matters

Douglas H. Johnson

Generalized Spatial Partial Identity - a Generalization and Extension of Current Spatial Capture-Recapture Models with Latent Individual Identities

Ben C. Augustine; J. Andrew Royle; Marcella J. Kelly

Identifying Unique Individuals Using Natural Pelt Patterns to Estimate Population Abundance with Mark-Resight Models

Ben S. Teton; Jesse S. Lewis; Christina Tombach Wright; Mike White; Hillary Young

Novel Methods to Estimate Abundance of Unmarked Animals Using Camera Trap Data

Anna K. Moeller; Paul M. Lukacs; Jon Horne

Single Survey Bobcat Density Estimation Using Fecal DNA and Spatial Capture Recapture

Dana J. Morin; Lisette P. Waits; David C. McNitt; Marcella J. Kelly

Are Forecasts of Future Abundance for Rare And Declining Species Valid for Population Viability Analyses?

Edward O. Garton; Christian A. Hagen

The Influence of Population Density on the Expression of Heterogeneity in Reproductive Traits in a Long-Lived Marine Predator, the Grey Seal

Janelle Badger; W. Don Bowen; Cornelia den Heyer; Greg A. Breed

Session 105 - Conservation and Ecology of Bird - Game Birds III

Identifying Disturbance Thresholds to Assess Effectiveness of Core Area Conservation Metrics for Greater Sage-Grouse

Kurt T. Smith; Christopher P. Kirol; Jeffrey L. Beck; Nicholas E. Graf; Jonathan B. Dinkins; Chad W. LeBeau; Thomas L. Maechtle; Andrew L. Sutphin

Effects of Spring Cattle Grazing on Nest Survival of Greater Sage-Grouse in Southern Idaho.

Andrew R. Meyers; Courtney J. Conway; David D. Musil; Karen Launchbaugh; Shane Roberts

Short-Term Demographic Response of Greater Sage-Grouse to Habitat Treatments

Jason R. LeVan; Kurt T. Smith; Jeffrey L. Beck

Prey for Sage-Grouse: Impacts of Livestock Grazing

David M. Gotsch; Courtney J. Conway; David D. Musil; Shane B. Roberts

Greater Sage-Grouse Habitat and Demographic Response to Grazing by Non-Native Ungulates

Phillip A. Street; Tessa L. Behnke; Levi Jaster; James S. Sedinger

Sharp-tailed Grouse Occupancy Dynamics in Areas Open and Closed to Hunting in Michigan

David R. Luukkonen; David Jentoft

Effect of Wind Turbine Presence on Pheasant Distribution in Central Iowa

James N. Dupuie Jr.; Stephen J. Dinsmore; Julie A. Blanchong

Assessing the Umbrella Effect of Greater Sage-Grouse Management on Golden Eagles in the Western United States

Jason D. Carlisle; Geoffrey Bedrosian; Trent L. McDonald

Factors Affecting Nesting Propensity in Greater Sage-Grouse

Tessa L. Behnke; Phillip A. Street; James S. Sedinger

Species Distribution Models for the Dusky Grouse in the American Southwest: Implications for Conservation and Climate Change

Joseph A. Youtz; Reza A. Goljani; Jennifer K. Frey

Poster Sessions

Session 29 - Poster Session - Monday

Teaching Natural Resource Management in a Multi-Cultural Context through Experiential Learning

Casey C. Day; Patrick A. Zollner; Jonathan H. Gilbert

Using Urban Landscapes to Teach Biodiversity and Conservation for Introductory Lab Courses

Angela van Doorn; Christina Pondell

User-Friendly Resource Design and Passive Extension Capacities: The Design of a Ground Squirrel Best Management Practices Website

Niamh Quinn; Roger A. Baldwin; Monica Dimson

Successes and Limitations of Estrogen-Induced Egg Aversion in Raccoons

Raymond D. Dueser; Joel D. Martin; Nancy D. Moncrief

Challenges to Developing Deterrents to Mountain Lion Depredation: A Future for Lions and Livestock?

Lynn Cullens

Factors Determining Bird Collision Risk at Small Pennsylvania Airport

Samantha DiLorenzo; Uma Ramakrishnan

The Botstiber Institute for Wildlife Fertility Control: Advancing an Emerging Field of Wildlife Management

Stephanie Boyles Griffin

Peoples Engagement in Wildlife Management with Special Reference to Kaziranga National Park, Assam

Juri Goswami

Compensatory Response of Common Carp Fecundity Following Removal Efforts in Utah Lake, Utah

Kenen Goodwin; Jereme W. Gaeta; Kevin Landom

Assessment of Human-Common Leopard Conflict in Northwest Pakistan

Muhammad Awais; Tariq Mahmood; Muhammad Waseem

Trends in Illegal Wildlife Trade: Analyzing Seizure Data in the Pacific Northwest

Rosemary T. Hitchens; April Blakeslee

Sub-Saharan Africa: Wildlife, People and Culture - a Wildlife Biologist - Busman Holiday

Michael Matthews

Collecting Non-Invasive Polar Bear Genetic Id Samples along the Chukchi Sea Coast: Working with Alaska Natives

Andrew Von Duyke; Kelly Nesvacil; Lori Quakenbush; Kimberly Titus

Predation and Parental Care at Blue-winged Teal Nests in North Dakota

John Donald Palarski; Nickolas Conrad; Sam Krohn; Patrick Chastan; Kaylan Carrlson; Tanner Gue; Ryann Cressey; Susan Ellis-Felege

Effects of Climate Change on Birds' Diversity, Distribution, Habitat Utilization and Breeding at Sir Bani Yas Island, Abu Dhabi, UAE

Bilal Kabeer

Effects of Oil and Gas Development on Duck Production in the Prairie Pothole Region of North Dakota and Montana

Mason Sieges; Kaylan Carrlson; Ryann Cressey; Tanner Gue; Johann Walker; Charles Loesch; Michael Szymanski

Baseline Genetic Diversity and Population Structure of Yellow-Billed Magpies Prior to West Nile Virus-Induced Population Decline

Amelia Vazquez; Kyle Gustafson; Ben Harmeling; Holly Ernest

Evaluation of Land Restoration Practices on Northern Bobwhite Survival and Land Use in North Central Texas

Danielle Belleny; Heather Mathewson; Jeff Breeden; John Tomecek; T. Wayne Schwertner; Jim Giocomo

Evaluating Radio Transmitter Attachments, Retention, and Their Effects on Bobwhite Body Mass and Flight Performance

Byron R. Buckley; Brad Dabbert

Effects of Grazing Management of Sharp-tailed Grouse Nest Survival in Mixed Grass Prairies

Megan C. Milligan; Lance B. McNew; Lorelle I. Berkeley

Effect of Nest Micro-Climate on Reproductive Success of Burrowing Owls Along a Latitudinal Gradient

Carl G. Lundblad; Courtney J. Conway

Seasonal and Interspecific Landscape Use of Sympatric Greater Prairie-Chickens and Sharp-tailed Grouse

Jamie E. McFadden; Tim L. Hiller; Larkin A. Powell; Walter H. Schacht

Factors Influencing Nest Survival of Mourning Doves in the Lower Rio Grande Valley, Texas

Kelton W. Mote; Jordan C. Giese; Heather A. Mathewson; Thomas W. Schwertner; Jeff B. Breeden

Using GIS to Develop Priority Areas for the Restoration of Eastern Wild Turkeys in Texas

Jason Anthony Estrella; Jason Hardin; Dave O'Donnell

The Loggerhead Shrike Working Group: Shrike Conservation in the Northeast And Beyond

Amy Chabot; Sergio Harding; Richard Bailey; Stephen Spear

Fine Scale Population Trends of White-Winged Dove in Texas: 2008 - 2016

Conor J. McInerney; Heather A. Mathewson; T. Wayne Schwertner; Shaun L. Oldenburger; Mike Frisbie

Survival of Ring-Necked Pheasants in Western Kansas Spring Cover Crops

Adela Annis; Alixandra Godar; David Haukos; Jeff Prendergast

Ring-Necked Pheasant Use of Spring Cover Crops In Western Kansas

Alixandra Godar; Adela Annis; David Haukos; Jeff Prendergast

Conservation Implications of Hummingbird-Flower Dynamics in the Aviary Setting

Alicia Smith

Factors Influencing Survival and Recovery Rates of White-winged Doves in Texas

Jared D. Hall; Heather Mathewson; T. Wayne Schwertner; Shaun Oldenburger; Mike Frisbie

Negative Search Results Refine Habitat Requirements and Redirect Habitat Creation for an Endangered Songbird

Ken Tuininga; Peter Burke

Evaluating Dig Site Selection in Montezuma Quail

Karlee Cork

Population Estimate for Black-Backed Woodpeckers in the Black Hills of South Dakota and Wyoming

Elizabeth A. Matseur; Brian E. Dickerson; Frank R. Thompson; Joshua Millsaugh

Weather-Induced Declines in Piñon Tree Condition and Response of a Declining Bird Species

Kristine Johnson; Giancarlo Sadoti; Jacqueline Smith

Evaluation of the Conservation Reserve Program as a Conservation Practice for Lesser Prairie-Chickens in the Southern High Plains of Texas

Samuel W. Harryman; Blake A. Grisham; Clint W. Boal; Samantha S. Kahl; Christian A. Hagen

Do Birds Differentiate White Noise and Deterministic Chaos? a Playback Experiment

Daniel T. Blumstein; Jessica Whitaker; Judith J. Kennen; Gregory A. Bryant

The Looming Crisis for Eastern Tidal Marsh Birds

Mitch Hartley; Chris Elphick; Bryan D. Watts; Greg Shriver; Brian Olsen; Aimee Weldon

**Western Burrowing Owls Face Multiple Challenges Associated with Urban Living in Western Arizona
Owls Face Multiple Challenges Associated with Urban Living in Western Arizona**

Kerrie Anne T. Loyd; Morgan T. Beckwith; Joseph J. Osinski

Winter Diet of Montezuma Quail in Arizona and New Mexico

Oscar E. López Bujanda; Alberto Macías Duarte; Reyna A. Castillo Gámez; Angel B. Montoya

Aging Western Bluebirds Nestlings Using Morphometric Data and Feather Tract Development

Aaron Skinner; Chuck Hathcock; Brent Thompson; Jesse Berryhill; Emily Phillips; Maria Musgrave

Nonbreeding Duck Habitat Use and Food Density in Northeastern Colorado

Adam C. Behney

Comparisons of Habitat Selection and Behaviors between Mallards and American Black Ducks In The Finger Lakes Region During Winter

Adam J. Bleau; Jonathan Cohen; Michael Schummer

Habitat Selection, Home Range, and Survival of Female Bachman's Sparrows in the Longleaf Pine Ecosystem

Daniel Choi; Alexander Fish; Christopher Moorman; Christopher DePerno; Jessica Shillaci

Monitoring of the Endangered Masked Bobwhite Quail Population in Mexican Desert Shrubland.

DAVID GARCIA-SOLORZANO

When the Freezer Breaks: Will Climate Warming Impact the Persistence of Resident Birds in Alaska?

Emily J. Williams; Laura M. Phillips; D. Ryan Norris; John M. Marzluff; Carol L. McIntyre

High versus Higher Elevations: Ecological Lessons from Breeding Sparrows

Ross R. Conover

Juvenile Survival and Dispersal in White-Headed Woodpecker

Philip C. Fischer; Teresa J. Lorenz

Microhabitat Use of Migrating Northern Saw-whet Owls

Ian Bierke; Logan Hubbard; Amanda Lang; Jake Shurba; Janelle Taylor

Session 54 - Poster Session - Tuesday

Lead and Mercury Prevalence in Bald Eagles in the Mid-Atlantic United States

Andreas Eleftheriou; Lisa Murphy; Sallie Welte

Does Urbanization Ameliorate the Effect of Endoparasite Infection in Merriam's Kangaroo Rat?

Gizelle Hurtado; Ghislaine Mayer; Karen Mabry

Contaminants of Emerging Concern in the Great Lakes Basin: Implications for Wildlife Management and Conservation

Stephanie Longstaff Hummel; Mandy Annis; Jo Ann Banda; Nicholas Cipoletti; Steve Choy; Sarah Elliot; Dan Gefell; Zachary Jorgenson; Jeremy Moore; Heiko Schoenfuss; William Tucker; Lina Wang; Daelyn Woolnough

Effects of Environmentally Relevant Mixtures of Major Ions and Coal-Contaminated Sediment on Freshwater Mussels

Garrett S. Rhyne

Prevalence of Batrachochytrium Dendrobatidis in Two Sympatric Tree Frog Species, Hyla Cinerea and Hyla Versicolor

Andrea Villamizar-Gomez; Thanchira Suriyamonkol; Kaitlyn N. Forks; William E. Grant; Hsiao-Hsuan Wang; Michael R.J. Forstner; Ivana Mali

Investigating the Effects of Landscape Connectivity on the Occurrence of Chronic Wasting Disease in Michigan

Hunter Stanke; Jonathan Cook; Sonja Christensen; William F. Porter; David M. Williams

Prevalence and Distribution of Raccoon Roundworm (Baylisascaris Procyonis) in a Semi-Urban Landscape in Northwest Missouri as Determined by Fecal Flotation Analysis.

Bridgette French-Harbison; Cary D. Chevalier; Bethany Bolander; Cassie Daldrup; Rachael Domann; Eli Eber; Cody Phillips; Nina Gray; Jessica Gunderson; Chris Kelley; Jaime Lynch; Stephanie Malone; Nick Williams

ASK Yourself Where You Best Fit on the Wildlifehealth Team - Identification of Key Attitudes, Skills, and Knowledge Forupcoming Wildlife Health Professionals

Julie Wittrock; Tricia Fry; Michele Anholt; Colleen Duncan; Adam Herring; Craig Stephen

Telemetr: A Modular Telemetry Data Management System

Mitchell A. Gritts; Cody McKee

Twenty Years of the Modern Vaginal Implant Transmitter Then and Now

Justin R. Dion; Jacob L. Bowman; Jacob M. Haus; Joseph E. Rogerson

Reducing Bat Fatalities at Wind Facilities Through Smart Curtailment

Lauren A. Hooton; Crissy Sutter; John Goodrich-Mahoney; Sue Schumacher

Recording Ultrasonic and Infrasonic Southern Flying Squirrel Responses

Katherine A. Rexroad; Brandon J. Enck; Sara L. Fischer

Identifying Resting Locations of Small, Elusive, Forest-Dwelling Carnivores Using GPS Clusters

Katie M. Moriarty; Caylen Cummins; Bruce Hollen

Picture This: Monitoring Migratory Elk Using Remote Photography

Travis Zaffarano; Doug McWhirter; Aly Courtemanch; Greg Anderson; Matthew Kauffman

Using Tablets to Collect Avian Spot Mapping Data

John R. Stanek; Jenna E. Stanek

Enhancing Wildlife Habitat on Reclaimed Land on an Oil Sands Mine

Paul Knaga; Virgil Hawkes; Nathan Hentze; Ainslie Campbell

The Structural Complexity Index: A Nonparametric Descriptor of Habitat Heterogeneity for Wildlife Research and Management

Larkin A. Powell; Maggi Sliwinski; Walter Schacht; Edward J. Raynor

Evaluation of White-tailed Deer Population in the Nelsonville Bypass, Ohio, and Use of Mitigation Structures

Devon Cottrill; Steven Porter; Matthew Trainer; Eileen Wyza; Robert Wiley; Jeffrey Roush; Nicole Dake; Viorel D. Popescu

The Use of the TRACT Tool to Prioritize and Rank the National Wildlife Refuge System's Land Acquisitions
Keenan Adams; Ken Fowler; Sean Fields; Kathy Fleming; Brad Andres; Mike Estey; Connie Rose; Julie Reeves;
Delissa Padilla; Sarena Selbo; Mindy Rice

A Comparison of White-tailed Deer Recruitment Rates to Relative Predator Abundance in Maryland
Eric Ness; Jacob Bowman; Brian Eyster

Management and Monitoring Wildlife and Its Habitat on Melrose Air Force Range
Charles E. Dixon

Resource Use Agreements: What Are They and How Could They Be Implemented?
Julianne E. Savage

Arizona Game and Fish Department International Wildlife Collaborations
Francisco J. Abarca; Cynthia Soria

Public Trust Thinking: Comparing Public Ownership of Wildlife in Italy and the United States
Darragh Hare; Stefano Giacomelli; Michael Gibbert; Bernd Blossey

The NASA Applied Sciences Program Transitioning Research to Applications: Case Studies Focused on Terrestrial and Aquatic Wildlife
Maury Estes; Jay Skiles; Cindy Schmidt; Woody Turner

Effects of Differential Management Practices on Managed Wetlands within the California Central Valley
dustin howland

Measuring Predator Abundance Using Scent Stations and Trail Cameras in the Rolling Plains of Texas
Bryan D. Bingham; Grady Bergquist; Chris Taborsky; Matthew C. McEwen; C. Brad Dabbert

Survey Olive Ridley Turtle in Cuthbert Bay Sanctuary of Middle Andaman Forest Division, Andaman Nicobar Islands, India
M. Rajkumar

Bisphenol a Contamination in Yellow-Bellied Sliders
Robert B. Cromer; Kayla McDavid

Consumption and Assimilation Patterns of the Eastern Box Turtle, a Diet Generalist
Miranda Figueras; Kent Hatch; Timothy Green; Russell Burke

Evaluating the Success of Captive Propagation for the Conservation of the Endangered Houston Toad
Anjana Parandhaman; Madeleine J. Marsh; Shashwat Sirsi; William W. Keitt; Michael R. J. Forstner

Amphibians Hit the Road: Assessing Roadway Mortality and Ecopassage Utilization Along a Two-Lane Highway
Charlene B. Hopkins; Shawn R. Kuchta; Willem M. Roosenburg

Comparison of Sex Ratios of Western Painted Turtles Based On Long-Term Capture Records Versus Sex Ratios Calculated from Single-Season Capture Records in Clay County, Minnesota
Donna M. Stockrahm; Jessica L. Loeffler

Influence of White-tailed Deer on Oak and Hickory Regeneration in Southern Illinois
Clayton K. Nielsen; Ryan Leeson; Eric Holzmueller; Devon Oliver

Coastal Habitat Restoration on Edwin B. Forsythe National Wildlife Refuge National Wildlife Refuge
Paul M. Castelli; Amy Drohan; Marc Virgilio; Vinny Turner; Virginia Rettig; Richard Albers

Prediction of Emperor Penguin Population at Northern Antarctic Peninsula
Mikail Akshin Bakhtiyarov

Modeling the Effects of White-Nose Syndrome on the Bat Community of Wisconsin

Jordan J. Meyer; Robin E. Russell; Scott E. Hygnstrom; Jason D. Riddle; Christopher J. Yahnke

Simultaneous Estimation of Individual and Population Level Resource Selection Coefficients And Home Range Size Using Random-Effects Poisson Process Models

Daniel A. Crawford; Richard B. Chandler; Michael J. Cherry; Elina P. Garrison; Brian D. Kelly; L. Mike Conner; Karl V. Miller

Estimating Sizes of Ocelot Populations in Coastal Tamaulipas, Mexico

Mitch Sternberg; Rogelio Carrera-Treviño; Francisco Illescas-Martínez; Luis F. Martínez-García; Angel O. Salinas-Andrade; Luis J. Peña; Thomas deMaar

Using Spotlight Surveys and Distance Sampling to Estimate Density and Detection Probability of White-tailed Deer

Andrew S. Norton; Dan J. Kaminski; Tyler M. Harms

Habitat Suitability of Restored Wetlands for Aquatic Turtles in West Virginia

Alissa L. Gulette; James T. Anderson; Joseph Hatton; Donald J. Brown

Session 80 - Poster Session - Wednesday

Mule Deer Habitat Preference in Chihuahua, Mexico

Martha Patricia Olivas; Cuauhcihuatl Vital García; Juan Pedro Flores Margez; Miroslava Quiñonez Martínez; Antonio De la Mora Covarrubias

Assessing Spatio-Temporal Patterns, of Human -Carnivore Conflict in and Around Pir Lasura National Park, Azad Jammu and Kashmir, Pakistan

Faraz Akrim; Tariq Mahmood

Population Size and Habitat of Indian Gazelle in Nizampur Area, District Nowshehra, Khyber Pakhtunkhwa, Pakistan

saif ullah

Herbivorous Mammals Inventory and Monitoring in Ujung Kulon National Park

Adreanna Mazaya; Dandung Wasana; Ambi Setya Rini

The American Black Bear and Baited Hair-Snares: A Quantitative Ethogram and Behavioral Analysis

Steven M. Gurney; Jennifer B. Smith; Dwayne R. Etter; David M. Williams

Forecasting Consequences of Changing Sea Ice Availability for Pacific Walruses

Mark S. Udevitz; Chadwick V. Jay; Rebecca L. Taylor; Anthony S. Fischbach; William S. Beatty; Shawn R. Noren

A Novel Method for Individual Identification of Bobcats and Population Estimate Using Remote Sensor Cameras

Matthew T. Fountain; Micaela Szykman Gunther

The Effects of Mixed-Severity Wildfires on Fisher Population Dynamics

David S. Green; Sean M. Matthews; Laura L. Finley; Roger A. Powell

The Effects of Climate Change on Mammals in the Northeastern Forests of the United States

Toni Lyn Morelli; Rebecca Rowe; Stephen DeStefano; Alexej Siren; Keith Nislow; Mary Ratnaswamy

Identifying Home Range and Resource Selection Patterns of a Reintroduced Elk Population: Black River State Forest, Wisconsin

Travis Bryan

Population Dynamics of Mule and White-tailed Deer in the Chihuahuan Desert

Cuau Vital-García; Martha P. Olivas-Sánchez; Fernando Rodríguez; Michelle Lugo-Castro

Influence of Introgressive Hybridization on Morphology of Coyotes in Pennsylvania

Uma Ramakrishnan; Vincent Buonaccorsi; Kelsey Barth

Estimating Black Bear Density Using DNA from Hair Snares in Northeastern Mexico

Juan P. Fimbres-Macias; Victor Riojas-Valdez; Diana E. Zamora-Avila; Rogelio Carrera-Treviño

Returning Elk to Eastern North America

Don White, Jr.; Tom Toman

Mountain Lion Kill Rates and Competition with Black Bears in New Mexico

Arthur J. Anaya; James W. Cain III; James R. Biggs; Mark Peyton

Follow the Bear: Expanding Understanding of Black Bear Ecology Across Variable Densities and Landscapes

Jennifer Smith; David Williams; Michael Wegan; Dwayne Etter; William Porter

Pacific Fisher Distribution and Detectability in Southwestern Oregon

Brent R. Barry; Katie Moriarty; Taal Levi

Using Non-Invasive Hair Snares to Monitor American Marten 30 Years Post-Reintroduction

Jill C. Witt; Karen Ickes; Anjela Sullenger; Dominika Mazzola; Joseph Susic; Jennifer Adams; Robert Sanders; Ari Cornman

Survival and Movements of Rehabilitated Black Bear Cubs Released in North Carolina

Casey A. Gray; Colleen Olfenbuttel

Disentangling Drivers of Pocket Mouse Occupancy in the Sagebrush Sea

Kristina Harkins; Merav Ben-David; Doug Keinath

Trapping Protocol for Difficult to Detect Small Mammals

Douglas A. Keinath; Kristina Harkins; Merav Ben-David

Bobcat Home Range Size, Home Range Overlap, and Habitat Utilization in Northern Wisconsin

Catherine C. Dennison; Nicholas Forman; Nathan M. Roberts

Distribution of Swift Fox and Sympatric Canid Species in the Dakotas

Emily L. Mitchell; Tammy L. Wilson; Donelle Schwalm; Jonathan A. Jenks

Utilizing Non-Invasive Techniques to Determine Genetic Variation and Demographics of Snowshoe Hare in Michigan

Genelle Uhrig; Eric Clark; Emily Latch

Ecological Parameters of Black Bear in the Northwest of Cumbres De Monterrey National Park, Nuevo Leon, Mexico.

Mercedes A. Salinas Camarena

Ten New Locations of the Endangered New Mexico Meadow Jumping Mouse Detected on Tribal Lands in Southwestern Colorado

Jennifer L. Zahratka; Aran S. Johnson; Erin M. Lehmer; Steven D. Fenster; Steve L. Whiteman

Using Fine Resolution Vegetation Data from Lidar and Ground Based Sampling to Describe Pacific Marten Resting Habitat

Patrick J. Tweedy; Katie M. Moriarty; John D. Bailey; Clinton W. Epps; Brian Wing

Application of the Bighorn Sheep Risk of Contact Tool and Best Available Science to a Domestic Sheep Allotment Analysis Process: the Fisher-Ivy/Goose Allotment, Rio Grande National Forest.

Randal Ghormley; Dale Gomez

Too Close for Comfort? Inbreeding Dynamics in a Small Mountain Lion Population Is Greater Los Angeles

John F. Benson; Jeff A. Sikich; Devaughn L. Fraser; Robert K. Wayne; Holly B. Ernest; Seth P.D. Riley

Predicting Habitat Use by Bats to Protect Bats and Inform Wind Energy Development

Clarissa A. Starbuck; Carol L. Chambers

Understanding Mechanisms of Diet Selection in White-tailed Deer

Jacob Dykes; Marcus Lashley; Bronson Strickland; Steve Demarais; Dan Reynolds

Summer Forage Quality Differs for Migrants and Residents in a Partially Migratory Population of Elk

Kristin J. Barker; Michael Mitchell; Kelly M. Proffitt; Jesse DeVoe; Craig Jourdonnais; Philip Ramsey

The Effects of Land Use and Food Availability on Gelada Habitat Use in the Simien Mountains National Park, Ethiopia

Julie C. Jarvey; Bobbi S. Low; Jacinta C. Beehner

Are North American Populations of Migratory Tree-roosting Bats Declining?

Erin F. Baerwald; Robert M. R. Barclay

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