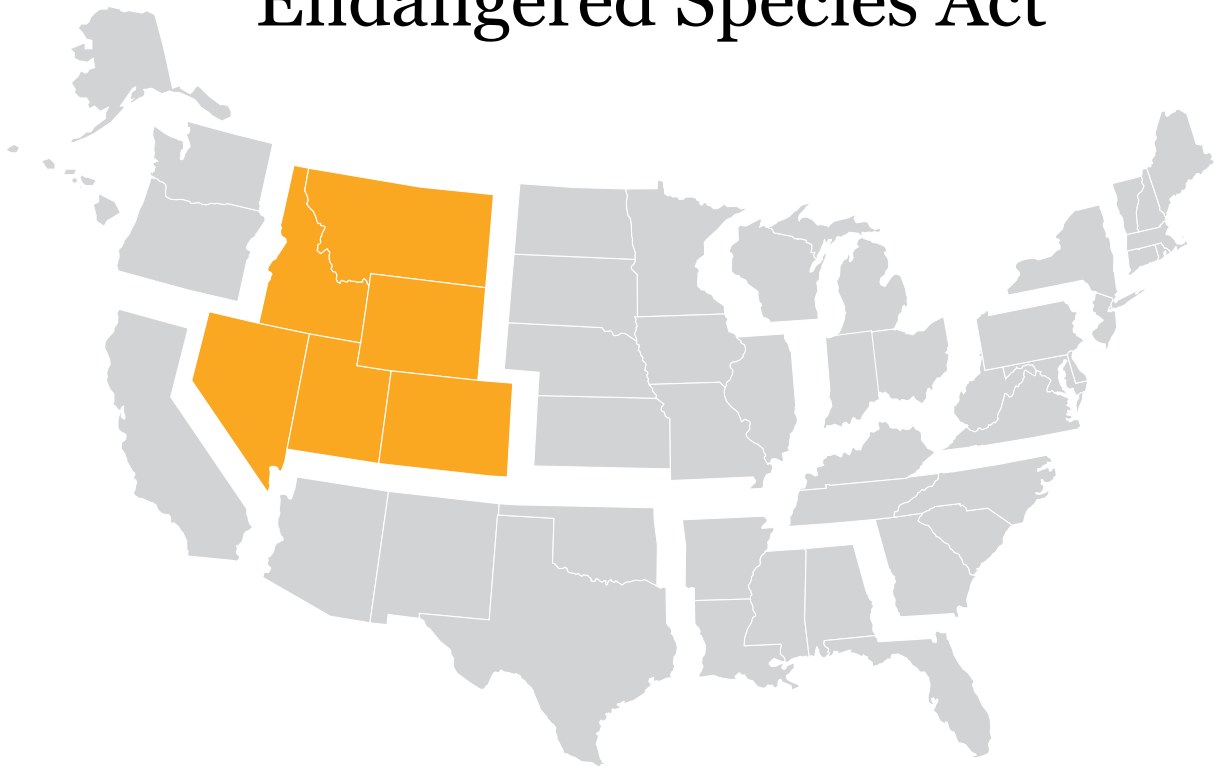


M A R C H 2 0 0 6



A Letter from Biologists
to the United States Senate
Concerning Science in the
Endangered Species Act



MOUNTAIN WEST

The Endangered Species Act is scientifically sound and its goals are important to human well-being. We should improve its performance, not reduce its protections.

Jane Lubchenco, Marine Ecologist

Valley Professor of Marine Biology and Distinguished Professor of Zoology, Oregon State University; member, National Academy of Sciences; MacArthur Fellow; past president, American Association for the Advancement of Science, Ecological Society of America, and International Council for Science

As children, small creatures endlessly fascinate us; as adults, we can protect them so as to inspire future children.

Les E. Watling, Marine Ecologist

Professor of Biological Oceanography and former director, Darling Marine Center, University of Maine; Pew Fellow in Marine Conservation; and past president, Crustacean Society

Scientists know we must protect species because they are working parts of our life-support system.

Paul Ehrlich, Entomologist, Population Biologist

Bing Professor of Population Studies and president, Center for Conservation Biology, Stanford University, California; member, National Academy of Sciences; MacArthur Fellow; and Crafoord Prize winner in Bioscience

For what DNA literacy if we have extinguished the books?

Daniel H. Janzen, Evolutionary Ecologist

Professor of Biology, University of Pennsylvania; member, National Academy of Sciences; MacArthur Fellow; and Crafoord Prize winner in Bioscience

To weaken the scientific foundation of the Endangered Species Act is to doom more species to extinction.

Walter V. Reid, Ecologist

Consulting professor, Institute for the Environment, Stanford University, California; former director, Millennium Ecosystem Assessment; and past board member, Society for Conservation Biology



A Letter from Biologists
to the United States Senate
Concerning Science in the
Endangered Species Act

M A R C H 2 0 0 6

A Letter from 5,738 Biologists to the United States Senate Concerning Science in the Endangered Species Act

Dear Senators:

WE ARE WRITING AS BIOLOGISTS WITH EXPERTISE IN A VARIETY OF SCIENTIFIC disciplines that concern biological diversity and the loss of species. With the Senate considering policies that could have long-lasting impacts on this nation's species diversity, we ask that you take into account scientific principles that are crucial to species conservation. Biological diversity provides food, fiber, medicines, clean water, and myriad other ecosystem products and services on which we depend every day. If we look only at well-studied species groups, nearly one-third of native species in the United States are at risk of disappearing.¹ Extinction is truly irreversible — once gone, individual species and all of the services that they provide us cannot be brought back.

On December 8, 1973, President Richard Nixon signed the Endangered Species Act (“ESA”) with the goal of conserving endangered and threatened species and the ecosystems on which they depend. For species that have been listed and provided protection under the ESA, much of that purpose has been achieved. According to an article in the September 30, 2005, edition of *Science*, less than one percent of listed species have gone extinct since 1973, while 10 percent of candidate species still waiting to be listed have suffered that fate. In addition to the hundreds of species that the Act has protected from extinction, listing has contributed to population increases or the stabilization of populations for at least 35 percent of listed species, and perhaps significantly more, as well as the recovery of such signature species as the peregrine falcon. While complete recovery has been realized for just two percent of species listed, given the precarious state of most species when listed, this represents significant progress.

One of the great strengths of the Endangered Species Act is its foundation in sound scientific principles and its reliance on the best available science.² Unfortunately, recent legislative proposals would critically weaken this foundation. For species conservation to continue, it is imperative both that the scientific principles embodied in the Act are maintained, and that the Act is strengthened, fully implemented, and adequately funded.

► LISTING

Objective scientific information and methods should be used in listing species, subspecies, and distinct population segments as endangered or threatened under the Act. While non-scientific factors may appropriately be considered at points later in the process of protecting species, their use in listing decisions is inconsistent with biologically defensible principles. Due to the fragile state of many of those species that require the Act's protections, the listing process needs to proceed as promptly as possible; otherwise, species will go extinct while waiting to be listed.

► HABITAT

Habitat provides the unique food, shelter, and other complex requirements that each species needs for its survival; habitat loss and degradation are the principal reasons for the decline of most species at risk. Habitat protection is essential if species are to be conserved and the goals of the ESA are to be met. The relationship between species, their habitats, and the threats they face can be exceedingly complex. Therefore, the chances of species recovery are maximized when habitat protection is based on sound scientific principles, and when the determinations of the biological needs of at-risk species are scientifically well informed.

1 From NatureServe, an international network of scientists cataloguing biological diversity.

2 The National Academy of Science's National Research Council said in its seminal 1995 report, *Science and the Endangered Species Act*: “...there has been a good match between science and the ESA...[and] the ESA is based on sound scientific principles.”

The obligation for federal agencies to consult with the appropriate wildlife agency and its biologists when federal actions could affect habitat for listed species is an indispensable provision in the ESA. It provides the means for science to inform decisions about the habitat-dependent survival and recovery of species at-risk. The designation of critical habitat places further obligations on the federal government to, among other things, protect the habitat essential to species recovery. It is far more effective, far easier, and far less expensive to protect functioning natural habitats than it is to recreate them once they are gone.

► **SCIENTIFIC TOOLS**

The current Endangered Species Act standard of “best available science” has worked well and has been flexible enough over time to accommodate evolving scientific information and practice. Failure to keep the ESA open to the use of scientific information from the best available research and monitoring, and to rely on impartial scientific experts, will contribute to delays in species recovery and to species declines and extinctions. Critical scientific information should not only include current empirical data, but also, for example, historic habitat and population information, population surveys, habitat and population modeling, and taxonomic and genetic studies. Use of scientific knowledge should not be hampered by administrative requirements that overburden or slow the Act’s implementation, or by limiting consideration of certain types of scientific information.

► **RECOVERY PLANS**

Recovery plans must be science-based documents that are developed with the input of scientists and are responsive to new information. Recovery plans must be based on the best possible information about the specific biology of each species, must identify threats to each species and address what is needed to mitigate those threats, and must predict how species are likely to respond to mitigation measures that may be adopted. To be most effective, recovery plans need to incorporate scientific principles of adaptive management, so they can be updated as new information on species and their habitats becomes available. Changes to the ESA that would delay completion of recovery plans, or provide for inflexible recovery goals that cannot be informed by new or additional scientific knowledge, should be avoided.

► **SCIENTIFIC ADVANCES AND NEW ISSUES**

The scientific community has contributed significant new information on imperiled species, their uses of habitats, and threats to those resources since the ESA was first passed into law. Serious, new, and as yet insufficiently addressed issues, such as global warming and invasive species, have emerged as primary environmental concerns that affect the fate of our native species diversity. We urge Congress to initiate thorough studies to consider the foremost problems that drive species toward extinction.

Losing species means losing the potential to solve some of humanity’s most intractable problems, including hunger and disease. The Endangered Species Act is more than just a law — it is the ultimate safety net in our life support system. As Earth has changed and as science has progressed since the Endangered Species Act was authorized in 1973, the ESA has served our nation well, largely because of its flexibility and its solid foundation in science. It is crucial to maintain these fundamental principles. The challenges of effective implementation of the Act should not be interpreted to require substantive rewriting of this valuable, well-functioning piece of legislation.

Thank you very much for taking our concerns into account. We are available to discuss any and all of the issues we have raised.

Sincerely,

5,738 Scientific Experts Concerned About Endangered Species and Their Habitats

Colorado

Christine M. Albano, M.S.

Graduate Research Assistant
Department of Biology
Colorado State University
Fort Collins, CO

Kevin Alexander, Ph.D.

Associate Professor
Western State College of Colorado
Gunnison, CO

David M. Armstrong, Ph.D.

Professor
Department of Ecology
and Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

Timothy J. Assal, M.S.

Front Range Community College
Ft. Collins, CO

Teresa Audesirk, Ph.D.

Department of Biology
University of Colorado, Denver
Denver, CO

Laura Backus, M.A.

Denver, CO

Mark E. Bakeman, Ph.D.

President
Ensign Technical Services, Inc.
Longmont, CO

Dirk V. Baker

Doctoral Candidate
Fort Collins, CO

Andy Baltensperger

Master's Candidate
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

David Batts, M.S.

Restoration Ecologist
Lyons, CO

Margot C. Beckett, Ph.D.

Grand Junction, CO

Marc Bekoff, Ph.D.

Professor
Department of Ecology
and Environmental Biology
University of Colorado, Boulder
Boulder, CO

Jane H. Bock, Ph.D.

Professor
Department of Biology
University of Colorado, Boulder
Boulder, CO

William D. Bowman, Ph.D.

Professor
Department of Ecology
and Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

Joseph G. Brettillo, M.S.

Image Analyst
Department of Natural Resources
Colorado State University
Fort Collins, CO

Heather Brown, M.S.

Doctoral Candidate
Department of Ecology
Colorado State University
Fort Collins, CO

Jane Bunin, Ph.D.

Adjunct Professor
Department Environmental Studies
Naropa University
Boulder, CO

Charles H. Calisher, Ph.D.

Professor
Fort Collins, CO

Shelley B. Calisher, Ph.D.

Retired
Red Feather Lakes, CO

Ronald Capen, Ph.D.

Professor
Department of Biology
Colorado College
Colorado Springs, CO

Lynn Carroll, Ph.D.

Paonia, CO

Jack L. Carter, Ph.D.

Professor Emeritus
Department of Biology
Colorado College
Colorado Springs, CO

RJ Cavanagh, M.D.

Chico, CO

Lindsey Christensen, Ph.D.

Natural Resource Ecology Laboratory
Colorado State University
Fort Collins, CO

Dina Clark, M.S.

Denver, CO

Kate A. Cleary

Master's Candidate
Fishery and Wildlife Biology
Colorado State University
Fort Collins, CO

Kent Clement, Ph.D.

Professor
Colorado Mountain College
Leadville, CO

Theo E. Colborn, Ph.D.

President
The Endocrine Disruption Exchange
Paonia, CO

Patrick J. Comer, M.S.

Department of Ecology
NatureServe
Boulder, CO

Sarah J. Converse, Ph.D.

Post-doctoral Researcher
Colorado Cooperative Fish
and Wildlife Research Unit
Colorado State University
Fort Collins, CO

Kevin R. Crooks, Ph.D.

Assistant Professor
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

David W. Crumpacker, Ph.D.

Professor Emeritus
Department of Ecology
and Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

Robin L. Cuany, Ph.D.

Professor Emeritus
Department of Soil and Crop Science
Colorado State University
Fort Collins, CO

Joseph DeCant, M.S.

Colorado State University
Fort Collins, CO

Claire DeLeo, M.S.

Longmont, CO

Gail Dethloff, Ph.D.

Natural Resources Manager
Fort Collins, CO

Craig D. Dodson, Ph.D.

Professor
Department of Physical and
Environmental Sciences
Mesa State College
Grand Junction, CO

Marlis R. Douglas, Ph.D.

Department of Fish and Wildlife
Biology
Colorado State University
Fort Collins, CO

Michael E. Douglas, Ph.D.

Department of Fishery and
Wildlife Biology
Colorado State University
Ft. Collins, CO

James J. Ebersole, Ph.D.

Professor and Co-Chair
Department of Biology
Colorado College
Colorado Springs, CO

Ralph J. Ellis, M.S.

Fish and Wildlife Enhancement
U.S. Fish and Wildlife Service
Denver, CO

Veronica Estelle

Doctoral Candidate
Department of Ecology
Colorado State University
Fort Collins, CO

Jeffrey A. Falke, M.S.

Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Jonas A. Feinstein, M.S.

Graduate Research Assistant
Department of Forest, Rangeland,
and Watershed Stewardship
Colorado State University
Fort Collins, CO

Ashley D. Ficke

Graduate Research Assistant
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Alan B. Franklin, Ph.D.

Research Scientist III
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Colorado

Jonathan Freeman, M.S.
Colorado State University
Fort Collins, CO

Zachary German
Doctoral Candidate
Colorado State University
Fort Collins, CO

Mary Gervais, M.A.
Frisco, CO

Robert L. Grossman, Ph.D.
Retired Research Associate
Department of Atmospheric
and Oceanic Sciences
University of Colorado, Boulder
Boulder, CO

Grant E. Gurnee
Senior Ecologist Master's Candidate
Boulder, CO

Sarah Hamman
Doctoral Candidate
Department of Forest, Rangeland,
and Watershed Stewardship
Colorado State University
Fort Collins, CO

Philip Harrison, M.A.
Pueblo, CO

John Hawkins, M.S.
Research Associate
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Peggy Herzog, M.S.
Paonia, CO

M. Shane Heschel, Ph.D.
Department of Biology
Colorado College
Colorado Springs, CO

Jeffrey A. Hicke, Ph.D.
Research Scientist
Fort Collins, CO

Tim Hogan, M.S.
Assistant Curator
Herbarium
University of Colorado, Boulder
Boulder, CO

Lisa Hollis-Brown, Ph.D.
Colorado Springs, CO

Douglas R. Hunter, M.A.
Longmont, CO

Donna Kashian, Ph.D.
Post-doctoral Fellow
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Carol A. Kearns, Ph.D.
Conservation Biologist
Department of Ecology and
Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

Ken Keefover-Ring, M.A.
Doctoral Candidate
Boulder, CO

Larry Kline, M.S.
Lakewood, CO

Linda Kothera
Doctoral Candidate
Department of Biology
Colorado State University
Fort Collins, CO

Monique LaPerriere
Masters Candidate
Department of Ecology
Colorado State University
Fort Collins, CO

Julia Page Lindsey, Ph.D.
Durango, CO

Brian Linkhart, Ph.D.
Associate Professor
Department of Biology
Colorado College
Colorado Springs, CO

Stacy J. Lynn, M.S.
Department of Ecology
Colorado State University
Fort Collins, CO

Jennifer C. Mackesy, Ph.D.
Professor
Department of Biological Sciences
University of Northern Colorado
Greeley, CO

Stephen P. Mackesy, Ph.D.
Professor
Department of Biological Sciences
University of Northern Colorado
Greeley, CO

Andrew P. Martin, Ph.D.
Department of Ecology
and Evolution
University of Colorado, Boulder
Boulder, CO

Michelle McGree, M.S.
Department of Fisheries Biology
Colorado State University
Fort Collins, CO

Janice McKee, M.S.
Botanist
Denver, CO

Carron Meaney, Ph.D.
Meaney and Company
Boulder, CO

Elisa M. Miller
Doctoral Candidate
Department of Ecology and
Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

Chester G. Moore, Ph.D.
Professor
Department of Environmental
and Radiological Health Sciences
Colorado State University
Fort Collins, CO

Jared R. Morrow, Ph.D.
Associate Professor
Department of Earth Sciences
University of Northern Colorado
Greeley, CO

Patrick H. Murphy, M.S.
President
Ecotone Corporation
Boulder, CO

Erin Muths, Ph.D.
Fort Collins, CO

Christopher A. Myrick, Ph.D.
Assistant Professor
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Daniel J. Neubaum, M.S.
Wildlife Biologist
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Barry Noon, Ph.D.
Associate Professor
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Thomas J. O'Shea, Ph.D.
Research Wildlife Biologist
Fort Collins, CO

Douglas B. Osmundson, M.S.
Fishery Biologist
Palisade, CO

Michael Paterson, M.D.
Emergency Department
San Luis Valley Medical Center
Monte Vista, CO

Antoinette Piaggio, Ph.D.
Wildlife Geneticist
Boulder, CO

Nathan L. Poff, Ph.D.
Associate Professor
Department of Biology
Colorado State University
Fort Collins, CO

Tom A. Ranker, Ph.D.
Professor
Department of Ecology
and Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

Richard P. Reading, Ph.D.
Director
Conservation Biology
Denver Zoological Foundation
Denver, CO

Eric Rechel, Ph.D.
Department of Biology
Mesa State College
Grand Junction, CO

Gordon Reese, M.S.
Colorado State University
Fort Collins, CO

Noreen E. Reist, Ph.D.
Associate Professor
Department of Biomedical Sciences
Colorado State University
Fort Collins, CO

Monique Rocca, Ph.D.
Assistant Professor
Department of Forest, Rangeland,
and Watershed Stewardship
Colorado State University
Fort Collins, CO

Brooke Roeper, M.P.H.
Department of Disease Ecology
Colorado State University
Fort Collins, CO

Colorado

Barry R. Rosenbaum, Ph.D.

Research Associate
Boulder, CO

Suzanne M. Royer, Ph.D.

Senior Research Associate
Department of Biology
Colorado State University
Fort Collins, CO

Emily Walsh Ruell

Master's Candidate
Department of Fishery and Wildlife
Biology
Colorado State University
Fort Collins, CO

Anne Ruggles, M.S., J.D.

Bear Canyon Consulting, L.L.C.
Boulder, CO

Michael G. Ryan, Ph.D.

Fort Collins, CO

Susan R. Salafsky, M.S.

Doctoral Candidate
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Sheridan Samano, M.A.

Denver, CO

John Sanderson, Ph.D.

Fort Collins, CO

Robert L. Sanford, Ph.D.

Professor
Department of Biological Sciences
University of Denver
Denver, CO

Julie A. Savidge, Ph.D.

Fort Collins, CO

Julie Schneider, M.S.

Biologist
Paradox, CO

Robert A. Schorr, M.S.

Research Associate
Doctoral Candidate
Department of Fisheries and
Wildlife Biology
Colorado State University
Fort Collins, CO

Tony Schountz, Ph.D.

Department of Biological Sciences
University of Northern Colorado
Greeley, CO

Keith A. Schulz, M.S.

Regional Vegetation Ecologist
Department of Ecology
NatureServe
Fort Collins, CO

Anna A. Sher, Ph.D.

Assistant Professor
Department of Biological Sciences
University of Denver
Denver, CO

Susan A. Shriner, Ph.D.

Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Sara Simonson, M.S.

Research Associate
Fort Collins, CO

Gary T. Skiba, M.S.

Senior Wildlife Biologist
Durango, CO

Hobart Muir Smith, Ph.D.

Professor Emeritus
Department of Ecology
and Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

Lesley Smith, Ph.D.

Boulder, CO

Elise Snider

Master's Candidate
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Neil Snow, Ph.D.

Greeley, CO

Darrel E. Snyder, M.S.

Research Scientist
Department of Larval Fish Laboratory
Colorado State University
Fort Collins, CO

Charles H. Southwick, Ph.D.

Professor Emeritus
Department of Ecology and
Evolutionary Biology
University of Colorado, Boulder
Boulder, CO

John Sovell, M.S.

Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Emily Spencer

Weed Management
Planning Specialist
National Park Service
Dinosaur, CO

Thomas Stanley, Ph.D.

Wildlife Research Biologist
Fort Collins, CO

Erica L. Suchman, Ph.D.

Associate Professor
Department of Microbiology,
Immunology and Pathology
Colorado State University
Fort Collins, CO

Dylan Taatjes, Ph.D.

Boulder, CO

Alan R. Taylor, M.S.

Ft. Collins, CO

Brad Thacker, M.S.

Lakewood, CO

Jan Loechell Turner, M.S.

Assistant Professor
Denver, CO

Harold M. Tyus, Ph.D.

Senior Scientist Lecturer
Cooperative Institute for Research
in Environmental Sciences
University of Colorado, Boulder
Boulder, CO

James R. Walsh, M.S.

Ecologist
Fort Collins, CO

Matthew Williamson

Master's Candidate
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

Kenneth Wilson, Ph.D.

Professor
Department of Fishery and
Wildlife Biology
Colorado State University
Fort Collins, CO

William J. Zabaronick, M.S.

Cancer Center
University of Colorado, Denver
Westminster, CO

Kathryn Zeiler, Ph.D.

Lakewood, CO

Idaho

Bruce B. Ackerman, Ph.D.

Staff Biologist
Idaho Department of Fish and Game
Boise, ID

Dick Artley, M.S.

Department of Forestry
Oregon State University
Grangeville, ID

Deniz Aygen, M.S.

Boise, ID

Keith P. Barnes, M.S.

Boise, ID

Colden Baxter, Ph.D.

Department of Biological Sciences
Idaho State University
Pocatello, ID

Paul M. Beardsley, Ph.D.

Assistant Professor
Pocatello, ID

Del Blackburn, M.S.

Professor (Retired)
Retired/private consulting
Worley, ID

Than James Boves

Master's Candidate
Department of Biology
Boise State University
Boise, ID

Jeffrey Braatne, Ph.D.

Assistant Professor
Moscow, ID

Jody Brostrom, M.S.

Orofino, ID

Celeste J. Brown, Ph.D.

Associate Professor
Department of Biological Sciences
University of Idaho
Moscow, ID

Amie-June Brumble

Master's Candidate
Department of Forest Resources
Moscow, ID

Steven Brunsfeld, Ph.D.

College of Natural Resources
University of Idaho
Moscow, ID

Chris Caudill, Ph.D.

Moscow, ID

John Connelly, Ph.D.

Blackfoot, ID

Jessica DelMonte, M.S.

Doctoral Candidate
Pocatello, ID

Alex Doetsch, Ph.D.

Department of Biology
College of Southern Idaho
Twin Falls, ID

Sanford Eigenbrode, Ph.D.

Associate Professor and Chair
Department of Plant, Soil and
Entomological Sciences
University of Idaho
Moscow, ID

Carol Evans, M.S.

Chubbuck, ID

Robert Flagor

Environmental Scientist
Monarch Research
Coeur d'Alene, ID

Kara J. Gebhardt

Master's Candidate
Moscow, ID

Laura Girardeau, M.E.S.

Washington State University
Moscow, ID

Douglas Halford, M.S.

Idaho Falls, ID

Eric Hallingstad, M.S.

Boise, ID

Stephanie E. Hampton, Ph.D.

Assistant Professor
Department of Fish and Wildlife
University of Idaho
Moscow, ID

Thor Hanson

Doctoral Candidate
Department of Forest Resources
University of Idaho
Moscow, ID

Jon Horne, Ph.D.

Department of Fish and Wildlife
University of Idaho
Moscow, ID

Tyson V. Kemper, M.S.

Botanist
Department of Forest Resources
University of Idaho
Moscow, ID

John G. Kie, Ph.D.

Research Professor
Department of Biological Sciences
Idaho State University
Pocatello, ID

Michael Kreuzer, Ph.D.

Pocatello, ID

Karen L. Laitala

Master's Candidate
Department of Plant, Soil and
Entomological Science
University of Idaho
Moscow, ID

William Laurance, Ph.D.

Boise, ID

Jesse S. Lewis

Master's Candidate
Moscow, ID

Ryan Long, M.S.

Department of Fish and Wildlife
Resources
University of Idaho
Moscow, ID

Carl D. Marti, Ph.D.

Adjunct Graduate Professor
Department of Biology
Boise State University
Boise, ID

Kathleen E. McGrath, Ph.D.

Department of Fish and
Wildlife Resources
University of Idaho
Moscow, ID

Jonathan D. Muir, M.S.

Department of Fish and Wildlife
Resources Department
University of Idaho
Moscow, ID

Pamela P. O'Hearn, M.S.

Wildlife Biologist
Idaho Falls, ID

Debra Patla, M.S.

Research Associate
Department of Biological Sciences
Idaho State University
Pocatello, ID

Andrew M. Ray, Ph.D.

Affiliate Faculty
Department of Biological Sciences
Idaho State University
Pocatello, ID

Gerald Rehfeldt, Ph.D.

Plant Geneticist Professor Emeritus
Moscow, ID

John Robison, M.S.

Public Lands Director
Idaho Conservation League
Boise, ID

Toni K. Ruth, Ph.D.

Associate Conservation Scientist
North American Program
Wildlife Conservation Society
Salmon, ID

Todd Sajwaj, M.S.

Remote Sensing Analyst
Department of Geography
National Gap Analysis Program
Moscow, ID

Alan R. Sands, M.S.

Conservation Ecologist
Boise, ID

Joanna L. Schultz, Ph.D.

Department of Natural Sciences
Lewis-Clark State College
Lewiston, ID

Janice L. Simpkin, Ph.D.

Associate Professor
Department of Biology
College of Southern Idaho
Twin Falls, ID

Rosemary Smith, Ph.D.

Department of Biological Sciences
Idaho State University
Pocatello, ID

Chris S. Staley, M.S.

Advisory Scientist
CWI Environmental Services
Idaho National Laboratory
Idaho Falls, ID

Katherine Strickler, Ph.D.

Department of Fish and
Wildlife Resources
University of Idaho
Moscow, ID

Mark Sugden, Ph.D.

Professor
Twin Falls, ID

Jack Sullivan, Ph.D.

University of Idaho
Moscow, ID

Kaz Thea, M.N.S.

Biologist and Consultant
Hailey, ID

Sue J. Vilord

Wildlife Biologist
Idaho Falls, ID

Nancy Wood, M.S.

Department of Science
Eagle Academy
Boise, ID

Montana

Mary Cloud Ammons, Ph.D.

Department of Veterinary
Molecular Biology
Montana State University
Bozeman, MT

Tom Bansak, M.S.

Division of Biological Sciences
University of Montana
Missoula, MT

Norman A. Bishop

Resources Interpreter (Retired)
Yellowstone Center for Resources
National Park Service
Bozeman, MT

David H. Branson, Ph.D.

Sidney, MT

Len Broberg, Ph.D.

Professor
Department of
Environmental Studies
University of Montana
Missoula, MT

Anthony Caesar, Ph.D.

Research Plant Pathologist
Sidney, MT

Janelle G. Corn, Ph.D.

Western Agricultural
Research Center
Montana State University
Corvallis, MT

Cecily M. Costello, M.S.

Wildlife Biologist
Doctoral Candidate
Wildlife Conservation Society
Bozeman, MT

April C.H. Craighead, M.S.

Biologist
Canadian Energy Research Institute
Bozeman, MT

Frank L. Craighead, Ph.D.

Craighead Environmental
Research Institute
Bozeman, MT

Scott Creel, Ph.D.

Professor
Department of Ecology
Montana State University
Bozeman, MT

Elizabeth Crowe, M.S.

Greater Yellowstone Inventory
and Monitoring Network
Bozeman, MT

Kenneth P. Dial, Ph.D.

Professor
Division of Biological Sciences
University of Montana
Missoula, MT

John DiBari, Ph.D.

Landscape Ecologist
Missoula, MT

Richard J. Douglass, Ph.D.

Professor
Department of Biology
Montana Tech of the University
of Montana
Butte, MT

Tamara Enz, M.S.

Biological Technician
Department of Land Resources
and Environmental Sciences
Montana State University
Bozeman, MT

Rachel J. Feigley

Wildlife Biologist
Livingston, MT

Jake Ferguson

Master's Candidate
Department of Ecology
Montana State University
Bozeman, MT

Lila Fishman, Ph.D.

Assistant Professor
Division of Biological Sciences
University of Montana
Missoula, MT

Christine M. Foreman, Ph.D.

Department of Land Resources
and Environmental Science
Montana State University
Bozeman, MT

Christopher A. Frissell, Ph.D.

Senior Staff Scientist
The Pacific Rivers Council
Polson, MT

Robert A. Garrott, Ph.D.

Professor
Department of Ecology
Montana State University
Bozeman, MT

John F. Gaskin, Ph.D.

Agricultural Research Service
U.S. Department of Agriculture
Sidney, MT

Nike Goodson, Ph.D.

Bozeman, MT

Craig Groves, M.S.

Wildlife Conservation Society
Bozeman, MT

Gillian Hadley, M.S.

Department of Ecology
Montana State University
Bozeman, MT

Wayne F. Hadley, Ph.D.

Fisheries Biologist
Deer Lodge, MT

Andrew J. Hansen, Ph.D.

Professor
Department of Ecology
Montana State University
Bozeman, MT

Archie Harper

Helena, MT

F. Richard Hauer, Ph.D.

Professor and Endowed Chair
Flathead Lake Biological Station
University of Montana
Polson, MT

Kimberly S. Heinemeyer, Ph.D.

Conservation Scientist
Round River Conservation Studies
Bozeman, MT

Steve Henry, M.S.

Ecologist
Invasive Species Management
Lewistown, MT

Joan Henson, Ph.D.

Professor
Bozeman, MT

Jodi A. Hilty, Ph.D.

Assistant Director
International Conservation
North America Program
Wildlife Conservation Society
Bozeman, MT

Greg Hoffman, M.S.

Libby, MT

William E. Holben, Ph.D.

Professor
Division of Biological Sciences
University of Montana
Missoula, MT

Oscar Johnson, Ph.D.

Bozeman, MT

Gayle Joslin, M.A.

Area Wildlife Biologist
Montana Fish, Wildlife and Parks
Helena, MT

Steven T. Kalinowski, Ph.D.

Assistant Professor
Department of Ecology
Montana State University
Bozeman, MT

Timothy J. Kaminski, M.S.

Mountain Livestock Cooperative
Bozeman, MT

Paul J. Kerman

Master's Candidate
Department of
Environmental Studies
University of Montana
Missoula, MT

Brian Logan, M.S.

Wildlife Biologist
Bozeman, MT

Kelly Lotts, M.S.

Big Sky Institute
Montana State University
Bozeman, MT

Winsor H. Lowe, Ph.D.

Assistant Professor
Division of Biological Sciences
University of Montana
Missoula, MT

Peggy Luensmann, M.S.

Missoula, MT

L. Jack Lyon, Ph.D.

Research Biologist (Retired)
Missoula, MT

Elizabeth Madden, M.S.

Wildlife Biologist
U.S. Fish and Wildlife Service
Medicine Lake, MT

Montana

Bruce D. Maxwell, Ph.D.

Professor
Department of Land Resources
and Environmental Science
Montana State University
Bozeman, MT

Eliot McIntire, Ph.D.

Missoula, MT

Megan V. McPhee, Ph.D.

Researcher
Division of Biological Sciences
University of Montana
Missoula, MT

Rachelle Meyer, M.S.

Missoula, MT

Sterling Miller, Ph.D.

National Wildlife Federation
Missoula, MT

Maureen O'Mara

Biological Science Technician
Agricultural Research Service
U.S. Department of Agriculture
Sidney, MT

Kylie J. Paul

Master's Candidate
Department of
Environmental Studies
University of Montana
Missoula, MT

Judy Perkins, Ph.D.

Missoula, MT

Edwin R. Price

Doctoral Candidate
University of Western Ontario
Missoula, MT

Roland Redmond, Ph.D.

Research Associate Professor
Department of Organismal
Biology and Ecology
University of Montana
Missoula, MT

Charles Repath, M.S.

Bozeman, MT

James P. Riser II, M.S.

Plant Biologist
Division of Forest Service
U.S. Department of Agriculture
Missoula, MT

David W. Roberts, Ph.D.

Professor and Head
Department of Ecology
Montana State University
Bozeman, MT

Bruce A. Robertson, Ph.D.

Division of Biological Sciences
University of Montana
Missoula, MT

Jay Rotella, Ph.D.

Department of Ecology
Montana State University
Bozeman, MT

Scott Samuels, Ph.D.

Associate Professor
Division of Biological Sciences
University of Montana
Missoula, MT

Matthew J. Sanford

Master's Candidate
University of Montana
Missoula, MT

Richard Smith, Ph.D.

Post-doctoral Research Associate
Department of Land Resources
and Environmental Sciences
Montana State University
Bozeman, MT

Paul Sneed, Ph.D.

Professor
Prescott College
Billings, MT

Vicki Watson, Ph.D.

Professor
Department of
Environmental Studies
University of Montana
Missoula, MT

Jennifer Williams

Doctoral Candidate
Division of Biological Sciences
University of Montana
Missoula, MT

Jim Williams, M.S.

Wildlife Biologist
Montana Fish, Wildlife and Parks
Kalispell, MT

Nevada

Susan Abele, M.S.

Conservation Planner
The Nature Conservancy
Reno, NV

Lois Alexander, Ph.D.

Post-doctoral Scholar
Department of Biological Sciences
University of Nevada, Las Vegas
Las Vegas, NV

Michael Atamian

Master's Candidate
Department of Natural Resources
and Environmental Science
University of Nevada, Reno
Reno, NV

Michael Auerbach, Ph.D.

Division of Earth and
Ecosystem Sciences
Desert Research Institute
Reno, NV

Amy M. Barber, Ph.D.

Post-doctoral Researcher
Department of Biology
University of Nevada, Reno
Reno, NV

William C. Bellknap, M.S.

Boulder City, NV

Jim Boone, Ph.D.

Las Vegas, NV

Jessi L. Brown, M.S.

Department of Natural Resources
and Environmental Science
University of Nevada, Reno
Reno, NV

Edmund Burke, Ph.D.

Instructor
Department of Biology
Truckee Meadows
Community College
Reno, NV

Steven Caicco, M.S.

Plant Ecologist
Reno, NV

Eileen Carey, Ph.D.

Tahoe Regional Planning Agency
Stateline, NV

Sudeep Chandra, Ph.D.

Assistant Professor
Department of Natural Resources
and Environmental Science
University of Nevada, Reno
Reno, NV

Yair Chaver, M.S.

Department of Biology
University of Nevada, Reno
Reno, NV

Lisa Crampton, Ph.D.

Department of Biology
University of Nevada, Reno
Reno, NV

Amrita G. de Soyza, Ph.D.

Department of Natural Resources
and Environmental Science
University of Nevada, Reno
Las Vegas, NV

James Deacon, Ph.D.

Distinguished Professor Emeritus
Department of Environmental
Studies and Biology
University of Nevada, Las Vegas
Las Vegas, NV

Craig Downer, Ph.D.

Andean Tapir Fund
Minden, NV

Patrick J. Drohan, Ph.D.

Department of Geoscience
University of Nevada, Las Vegas
Las Vegas, NV

Lynn Fenstermaker, Ph.D.

Las Vegas, NV

Erin Goergen, Ph.D.

University of Nevada, Reno
Reno, NV

Peter Graf, M.S.

Research Assistant
Department of Biology
University of Nevada, Reno
Reno, NV

Eric S. Gustafson, M.A.S.

Awards Committee Chair
Desert Fishes Council
Las Vegas, NV

Jennifer R. Gworek, M.S.

Department of Biology
University of Nevada, Reno
Reno, NV

Bridgette E. Hagerty

Doctoral Candidate
Department of Ecology, Evolution,
and Conservation Biology
University of Nevada, Reno
Reno, NV

Allison Hargett

Master's Candidate
Reno, NV

Alex L. Heindl, M.A.

Curator of Herpetology
Marjorie Barrick Museum
of Natural History
University of Nevada, Las Vegas
Las Vegas, NV

Jim E. Heinrich

Fisheries Biologist
Department of Wildlife
State of Nevada
Boulder City, NV

Elwood F. Hill, Ph.D.

Ecotoxicologist
Gardnerville, NV

Brian Hobbs

Biologist
Las Vegas, NV

Jennifer Hollander

Doctoral Candidate
Department of Ecology, Evolution
and Conservation Biology
University of Nevada, Reno
Reno, NV

Stephen Jenkins, Ph.D.

Professor
Department of Biology
University of Nevada, Reno
Reno, NV

Eric Kelchlin, M.S.

Wildlife and Fisheries Program
Manager
Tahoe Regional Planning Agency
Stateline, NV

Christie A. Klimas

Master's Candidate
Department of Forest Resources
and Conservation
University of Nevada, Reno
Reno, NV

Stephanie M. Leslie

Master's Candidate
Department of Biology
University of Nevada, Reno
Reno, NV

Heather A. Mathewson, M.S.

Doctoral Candidate
Department of Biology
University of Nevada, Reno
Reno, NV

Amanda Matthews, M.S.

Biologist
URS Corporation
Las Vegas, NV

Susan Merideth, M.S.

Department of Biology
University of Nevada, Reno
Reno, NV

Susan G. Mortenson, M.S.

Research Assistant
Department of Natural Resources
and Environmental Science
University of Nevada, Reno
Reno, NV

Dennis Murphy, Ph.D.

Research Professor
Department of Biology
University of Nevada, Reno
Reno, NV

Amanda L. Murray, M.S.

Biological Research Technician
Agricultural Research Service
U.S. Department of Agriculture
Reno, NV

Sean A. Neiswenter, M.S.

Department of Biological Sciences
University of Nevada, Las Vegas
Las Vegas, NV

Helen Neville, Ph.D.

Reno, NV

Jennifer Newmark, M.S.

Program Biologist
Nevada Natural Heritage Program
Carson City, NV

Lewis W. Oring, Ph.D.

Professor
Department of Natural Resources
and Environmental Science
University of Nevada, Reno
Reno, NV

Mary M. Peacock, Ph.D.

Assistant Professor
Department of Biology
University of Nevada, Reno
Reno, NV

Margaret A. Rebane, M.S.

Great Basin Outdoor School
Incline Village, NV

T. Will Richardson, Ph.D.

Department of Biology
University of Nevada, Reno
Reno, NV

Nevada

Brett R. Riddle, Ph.D.

Professor
Department of Biological Sciences
University of Nevada, Las Vegas
Las Vegas, NV

Hillary Robison

Doctoral Candidate
Department of Integrative Biology,
Ecology, Evolution and
Conservation Biology
University of Nevada, Reno
Reno, NV

Javier A. Rodriguez, Ph.D.

Assistant Professor
Department of Biological Sciences
University of Nevada, Las Vegas
Las Vegas, NV

Donald W. Sada, Ph.D.

Associate Research Professor
Division of Hydrologic Sciences
Desert Research Institute
Reno, NV

Fran Sandmeier

Doctoral Candidate
University of Nevada, Reno
Reno, NV

Monte Sanford

Doctoral Candidate
Department of Ecology, Evolution
and Conservation Biology
University of Nevada, Reno
Reno, NV

Raymond A. Saumure, Ph.D.

Department of Research
The Springs Preserve
Las Vegas, NV

Eric T. Simandle

Doctoral Candidate
Reno, NV

Stanley D. Smith, Ph.D.

Professor
Department of Biological Sciences
University of Nevada, Las Vegas
Las Vegas, NV

John C. Tull, M.S.

Doctoral Candidate
Department of Ecology, Evolution,
and Conservation Biology
University of Nevada, Reno
Reno, NV

Peter Weisberg, Ph.D.

Assistant Professor
Reno, NV

Jennifer L. Wilkening

Master's Candidate
Department of Biology
University of Nevada, Reno
Reno, NV

Emily D. Yates, M.S.

Research Associate
Department of Research
Great Basin Institute
Las Vegas, NV

Utah

Brett A. Adams, Ph.D.

Logan, UT

Frederick R. Adler, Ph.D.

Professor
Department of Biology
and Mathematics
University of Utah
Salt Lake City, UT

Carmen Bailey, Ph.D.

Wildlife Biologist
Stockton, UT

Russell J. Bezette, Ph.D.

Biologist
La Verkin, UT

Dennis M. Bramble, Ph.D.

Professor
Department of Biology
University of Utah
Salt Lake City, UT

Jennifer E. Buhay

Doctoral Candidate
Department of Integrative Biology
Brigham Young University
Provo, UT

Sarah E. Bush, Ph.D.

Post-doctoral Researcher
Department of Biology
University of Utah
Salt Lake City, UT

Rex G. Cates, Ph.D.

Professor
Department of Integrative Biology
Brigham Young University
Provo, UT

John F. Cavitt, Ph.D.

Associate Professor
Department of Zoology
Weber State University
Ogden, UT

Dale H. Clayton, Ph.D.

Professor
Department of Biology
University of Utah
Salt Lake City, UT

Phyllis D. Coley, Ph.D.

Department of Biology
University of Utah
Salt Lake City, UT

Steven Cook

Master's Candidate
Salt Lake City, UT

Laura Lissette Curry, M.S.

Aquatic Biologist
Logan, UT

Diane W. Davidson, Ph.D.

Professor
Department of Biology
University of Utah
Salt Lake City, UT

M. Wayne Davis, Ph.D.

Department of Biology
University of Utah
Salt Lake City, UT

Jeffrey G. Eaton, Ph.D.

Department of Geosciences
Weber State University
Ogden, UT

Donald H. Feener, Jr., Ph.D.

Professor
Department of Biology
University of Utah
Salt Lake City, UT

Chris Feldman, M.S.

Department of Biology
Utah State University
Logan, UT

Sam T. Finney, M.S.

Fishery Biologist
Vernal, UT

Eric M. Gese, Ph.D.

Logan, UT

James A. Gessaman, Ph.D.

Professor Emeritus
Department of Biology
Utah State University
Logan, UT

Barrie K. Gilbert, Ph.D.

Senior Scientist
Department of Forest, Range,
and Wildlife Sciences
Utah State University
Logan, UT

Michael E. Golden, M.S.

Fisheries Biologist
Department of Fisheries
Bio-West, Inc.
Enoch, UT

James G. Harris, Ph.D.

Professor
Department of Biology
Utah Valley State College
Orem, UT

Kent Hatch, Ph.D.

Assistant Professor
Department of Integrative Biology
Brigham Young University
Provo, UT

Paul B. Holden, Ph.D.

Principal
Department of Fisheries
Bio-West, Inc.
Logan, UT

Jerald Johnson, Ph.D.

Assistant Professor
Department of Integrative Biology
Brigham Young University
Provo, UT

Allison Jones, M.S.

Salt Lake City, UT

Thomas Kursar, Ph.D.

University of Utah
Salt Lake City, UT

James A. MacMahon, Ph.D.

Logan, UT

John W. Martin, M.S.

Senior Biologist
Richmond, UT

Matt McKell, M.S.

Ogden, UT

Karen Mock, Ph.D.

Logan, UT

Jayanti Mukherjee

Doctoral Candidate
Department of Forest, Range
and Wildlife Sciences
Utah State University
Logan, UT

Charles R. Nelson, Ph.D.

Professor
Department of Integrative Biology
Brigham Young University
Provo, UT

William Newmark, Ph.D.

Research Curator
Utah Museum of Natural History
Salt Lake City, UT

Mark Nielsen, M.S.

Professor
Department of Biology
University of Utah
Salt Lake City, UT

Brice P. Noonan, Ph.D.

Department of Integrative Biology
Brigham Young University
Provo, UT

Russell Norvell, M.A.

Doctoral Candidate
Department of Forest, Range,
and Wildlife Sciences
Utah State University
Logan, UT

Nicole Okazaki, Ph.D.

Assistant Professor
Department of Zoology
Weber State University
Ogden, UT

Robert Okazaki, Ph.D.

Professor
Department of Zoology
Weber State University
Ogden, UT

Jessica M.C. Pearce-Duvel, M.S.

Doctoral Candidate
Department of Biology
University of Utah
Salt Lake City, UT

Jennifer Pramuk, Ph.D.

Department of Integrative Biology
Brigham Young University
Provo, UT

James Price, Ph.D.

Professor
Orem, UT

Alison Pruett, M.S.

Zoologist
Salt Lake City, UT

Robert N. Reed, Ph.D.

Assistant Professor
Department of Biology
Southern Utah University
Cedar City, UT

Eric A. Rickart, Ph.D.

Curator of Vertebrates
Utah Museum of Natural History
University of Utah
Salt Lake City, UT

Julie P. Rieder, Ph.D.

Department of Biology
Utah State University
Logan, UT

Utah

Robert R. Robbins, Ph.D.

Professor
Department of Biology
Utah Valley State College
Orem, UT

Sam Rushforth, Ph.D.

Dean of Science and Health
Utah Valley State College
Orem, UT

Cynthia L. Sanders, M.S.

Wildlife Biologist II
Provo, UT

Dennis K. Shiozawa, Ph.D.

Professor
Department of Integrative Biology
Brigham Young University
Provo, UT

Melissa Siders, M.S.

Wildlife Biologist
Kanab, UT

Leslie E. Sieburth, Ph.D.

Associate Professor
Department of Biology
University of Utah
Salt Lake City, UT

Trey Simmons, M.S.

Doctoral Candidate
Department of Aquatic,
Watershed and Earth Resources
Utah State University
Logan, UT

Jack W. Sites, Jr., Ph.D.

Professor
Department of Integrative Biology
Brigham Young University
Provo, UT

Paul Thompson, M.S.

Ogden, UT

Richard R. Tolman, Ph.D.

Professor
Department of Biology
Utah Valley State College
Orem, UT

Renee Van Buren, Ph.D.

Professor
Department of Biology
Utah Valley State College
Orem, UT

Wayne H. Whaley, Ph.D.

Department of Biology
Utah Valley State College
Orem, UT

Alison Swindle Whiting, Ph.D.

Post-doctoral Researcher
Department of Integrative Biology
Brigham Young University
Provo, UT

Michael F. Whiting, Ph.D.

Associate Professor
Department of Integrative Biology
Brigham Young University
Provo, UT

Krissy W. Wilson, M.S.

Native Aquatic Species
Project Leader
Department of Natural Resources
Utah Division of Wildlife Resources
Springville, UT

Gloria Wurst, Ph.D.

Department of Zoology
Weber State University
Ogden, UT

Thomas M. Yuill, Ph.D.

Yuill Consulting
Mapleton, UT

Sam Zeveloff, Ph.D.

Professor
Ogden, UT

Wyoming

Eric M. Anderson, Ph.D.

Laramie, WY

Robert E. Arlen, M.S.

Freelance Biologist
Casper, WY

Bradley H. Bakken

Doctoral Candidate
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Patricia E. Bigelow, M.S.

Yellowstone National Park, WY

Rebecca S. Buseck, M.S.

Wildlife Biologist
Cheyenne, WY

Steven Buskirk, Ph.D.

University of Wyoming
Laramie, WY

Franz J. Camenzind, Ph.D.

Executive Director
Jackson Hole Conservation Alliance
Jackson, WY

Tin Chi S. Chak, M.S.

University of Wyoming
Laramie, WY

John DePue, M.S.

Doctoral Candidate
Laramie, WY

Elizabeth Flaherty, M.S.

Wildlife Ecologist
Laramie, WY

Gregory Hayward, Ph.D.

Assistant Professor
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Jennifer Hebert

Master's Candidate
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Stephen T. Jackson, Ph.D.

Professor
Department of Botany
University of Wyoming
Laramie, WY

Brian M. Jensen, M.S.

Habitat Extension Biologist
Casper, WY

Laine B. Johnson

Master's Candidate
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Patrick C. Keenan, M.S.

Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Ben Koch, M.S.

Freshwater Ecologist
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Matt C. Kondratieff, M.S.

Fisheries Biologist
Pinedale, WY

Michael C. Marshall

Doctoral Candidate
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Carlos Martinez del Rio, Ph.D.

Professor
Department of Zoology
University of Wyoming
Laramie, WY

Terry McEneaney

Yellowstone National Park, WY

Brandon Munk, M.S.

Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Christopher A. North, M.S.

Doctoral Candidate
Program in Ecology
University of Wyoming
Laramie, WY

Erin O'Doherty, Ph.D.

Laramie, WY

Victoria Poulton, M.S.

Biologist
Cheyenne, WY

Melanie J. Purcell, M.S.

Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Travis B. Sanderson, M.S.

Research Associate
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Steven Slater, M.S.

Wyoming Cooperative Research Unit
Laramie, WY

Rik Smith, Ph.D.

Assistant Professor
Department of Plant Sciences
University of Wyoming
Laramie, WY

Lisa Snowberg, M.S.

Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Daniel R. Stahler, M.S.

Project Biologist
Yellowstone Gray Wolf
Recovery Program
Yellowstone Center for Resources
U.S. National Park Service
Yellowstone National Park, WY

Teresa Tibbets, Ph.D.

Post-doctoral Associate
Department of Zoology
and Physiology
University of Wyoming
Laramie, WY

Once species become extinct, no corrective legislation can bring them back—they are gone forever.

Allen M. Solomon, Paleoecologist

Senior research global ecologist, Environmental Protection Agency (retired); and former senior policy analyst, White House Office of Science and Technology Policy

The Endangered Species Act is crucial to our nation's ecological health, and solid science is crucial to the ESA.

Gary K. Meffe, Conservation Biologist

Professor of Conservation Biology, University of Florida, Gainesville; and editor, *Conservation Biology*

The Endangered Species Act has protected our natural heritage for 30 years; it must continue to do so.

Stuart Pimm, Conservation Biologist

Doris Duke Chair of Conservation Ecology, Nicholas School of the Environment and Earth Sciences, Duke University, North Carolina; Pew Fellow in Conservation and the Environment; and LaRoe Prize winner for biodiversity protection

People can visit sacred shrines and imagine the spirits and the murmur of the voices of past generations. Likewise, we should go into natural places and imagine the spirits and murmurs of future generations hoping to experience the diversity of nature.

Paul Dayton, Marine Ecologist

Professor of Oceanography, Scripps Institution of Oceanography, La Jolla, California; Pew Fellow in Marine Conservation; and member, U.S. Marine Mammal Commission



To view and download signers in your state, visit
www.ucsusa.org/biologistsletter

Each species on our planet plays a role in the healthy functioning of natural ecosystems, on which humans depend.

William H. Schlesinger, Biogeochemist
 Dean, Nicholas School of the Environment and Earth Sciences and James B. Duke Professor of Biogeochemistry, Duke University, North Carolina; member, National Academy of Sciences; and past president, Ecological Society of America

Biodiversity is our nation's natural wealth. The Endangered Species Act safeguards these riches.

Judy L. Meyer, Aquatic Ecologist
 Research professor of Limnology, Institute of Ecology, University of Georgia; fellow, American Association for the Advancement of Science; and past president, Ecological Society of America

Science is the foundation for preserving biodiversity to benefit all life on Earth.

Jerry Schubel, Marine Biologist
 President and CEO, Aquarium of the Pacific, Long Beach, California; former dean and director, SUNY at Stony Brook's Marine Sciences Research Center; and board member, Census of Marine Life

We share this planet with many species. It is our responsibility to protect them, both for their sakes and our own.

Pamela A. Matson, Ecologist
 Dean, School of Earth Sciences and Goldman Professor of Environmental Studies, Stanford University, California; member, National Academy of Sciences; MacArthur Fellow; and past president, Ecological Society of America

