

June 25, 2014

The Honorable Barack Obama  
President of the United States  
The White House  
1600 Pennsylvania Avenue NW  
Washington, DC 20500

Dear Mr. President:

As scientists with many years of professional experience in research and management of forest ecosystems, we are seeking your support for a National Old-Growth Conservation Policy that would preserve existing old-growth forests within the United States. The remaining old-growth forests, from the redwoods of California, to the Douglas-fir forests of Washington, to the spruce-hemlock rainforests of southeast Alaska, provide the nation with many irreplaceable ecological benefits. These include clean water for millions of Americans, outdoor recreation, and key habitat for salmon and other important wildlife species. Because old-growth forests store vast quantities of carbon, protecting these remaining forests from logging could also play a role in reducing the effects of global climate change.

The U.S. Department of Agriculture's Forest Service manages ~20% of the forest land in the United States, including most of the remaining old growth. These National Forest lands are to be managed in trust for the American public for "outdoor recreation, range, timber, watershed, and wildlife and fish purposes" under the Multiple Use-Sustained Yield Act of 1960. The National Forest Management Act of 1976 (and its planning regulations of 2012) requires that forest plans must provide for "ecological sustainability" and "ecosystem integrity," including provisions "to maintain or restore ecosystem structure, function, composition, and connectivity." 36 C.F.R. 219.8(a). In addition forest plans "must provide for the diversity of plant and animal communities." 16 U.S.C. 1604(g)(3)(B).

The composition and structure of old-growth forests varies geographically among forest types and the history of natural disturbance regimes. Old-growth forests include old trees but tree sizes and ages may be variable. Old-growth forests often have dead standing and fallen trees, variable structure, and more diverse understories than younger, managed forests. The most important ecological characteristics of old growth take centuries to develop and, hence, are never achieved in managed forests with typical harvest rotations of 50-120 years. The remaining old growth has high value. For example, old-growth rainforests from the Pacific Northwest to southeast Alaska have the highest density carbon stores on Earth and the largest and oldest trees sequester and store the greatest amount of carbon.

Currently, only about 5-10% of the original old-growth forests that existed prior to European settlement remain in the United States (excluding Alaska's taiga) and most of that occurs in the Pacific Northwest and southeast Alaska. Even in the Pacific Northwest, 72% of the original old

growth has been removed. The very largest trees in the Pacific Northwest, the great “giants” with diameters in excess of 10-20 feet, were long targeted by logging and are now completely gone. In the eastern United States, old growth is virtually absent and occurs only in isolated fragments in parks or wilderness areas. The largest extent of remaining old-growth forest is found in southeast Alaska. But even there, more than half of the largest trees have been logged, and pressure continues to cut the best of what’s left. The diversity and productivity of forest communities, along with the myriad of ecosystem benefits that they provide to people, have been significantly reduced.

Old-growth forests are a rare and diminishing legacy throughout the world and the US should take a leadership role in establishing sensible conservation policy. There is a pressing need to conserve what remains, as well as to restore a representation of mature forests to old growth conditions. Any conservation policy for old-growth trees and forests across the US needs to evaluate the benefits of potential restoration treatments in frequent-fire forest ecosystems where fire exclusion policies have resulted in excessive fuel accumulation (e.g., ponderosa pines of the intermountain west, mixed conifers of the Sierra Nevada, and longleaf pine forests of the southeastern US). An old-growth policy for frequent-fire forests needs to allow for active management to restore and, following restoration, sustain such forests with such activities to retain and restore old tree populations. In contrast, where old-growth forests undergo infrequent, stand-replacement events (like Pacific rainforests) the best strategy is to establish conservation reserves and leave them alone. Active management will rarely, if ever, be appropriate in such old-growth forests and has the potential to destabilize them.

We honor the social, cultural and economic value of working landscapes in America’s public forest system. We anticipate the value of old growth for hunting, fisheries, recreation, tourism, and scientific research will only increase. We support investments in rural livelihoods, including ecological restoration, consistent with a National Old Growth Conservation Policy. Such a policy will also help us move past decades of unproductive social and legal conflict over the issue, thus enabling a more constructive focus on more consensual issues in National Forest management. This recognition is perhaps why so many collaborative initiatives in the U.S. West focused on forest management recommend measures to protect old growth and its attendant values. A national policy on the matter is the logical next step.

We, the undersigned scientists, respectfully request that you direct the Secretary of Agriculture and Chief of the U.S. Forest Service to utilize their authority to craft a National Old Growth Conservation Policy that fully protects the remaining old-growth forests on national forests throughout the United States and also encourages the restoration of representative stands of mature forests where old growth has been depleted. Such a policy will leave a lasting legacy benefiting all Americans. Thank you for considering our recommendation.

Sincerely,

Jack Ward Thomas, PhD  
Emeritus Professor of Wildlife Ecology  
University of Montana  
Chief Emeritus, USDA Forest Service  
Florence, MT

Mike Dombeck, PhD  
UW System Fellow and Professor  
of Global Conservation  
University of Wisconsin-Stevens Point  
Chief Emeritus, USDA Forest Service  
Stevens Point, WI

Paul B. Alaback, Ph.D  
Professor Emeritus of Forest Ecology  
University of Montana  
Berthoud, CO

Robert H. Armstrong, MS  
Honorary Ph.D. University of Alaska  
Associate Professor of Fisheries  
University of Alaska  
Fisheries Biologist & Research Supervisor  
Alaska Department of Fish & Game, Retired  
Juneau, AK

Mark S. Ashton, Ph.D.  
Morris K. Jessup Professor of Silviculture  
and Forest Ecology  
Yale University  
New Haven, CT

Reginald H. Barrett, Ph.D.  
Goertz Professor of Wildlife Management  
University of California  
Berkeley, CA

Merav Ben-David, Ph.D  
Professor  
Department of Zoology and Physiology  
University of Wyoming  
Laramie, WY

Craig W. Benkman, Ph.D.  
Professor of Zoology & Physiology  
University of Wyoming  
Laramie, WY

P. Dee Boersma, Ph.D  
Director, Center for Penguins as Ocean Sentinels  
Wadsworth Endowed Chair  
in Conservation Science  
Department of Biology  
University of Washington  
Seattle, WA

R. Terry Bowyer, Ph.D.  
Professor of Ecology  
Idaho State University  
Pocatello, ID

Mark Boyce, Ph.D.  
Professor of Ecology  
University of Alberta  
Edmonton, Alberta

Todd J. Brinkman, PhD  
Assistant Professor  
University of Alaska Fairbanks  
Fairbanks, AK

Mason Bryant, Ph.D.  
Research Fish Biologist (retired)  
Douglas, Alaska

Len H. Carpenter, Ph.D.  
Wildlife Biologist  
Colorado Division of Wildlife  
Wildlife Management Institute, Retired  
Past President The Wildlife Society  
Fort Collins, CO

Stephen R. Carpenter, Ph.D.  
Director and Professor  
Center for Limnology  
University of Wisconsin-Madison  
Madison, WI

F. Stuart Chapin, III, Ph.D.  
Professor Emeritus of Ecology  
University of Alaska Fairbanks  
Fairbanks, AK

Joseph A. Cook, Ph.D.  
Professor of Biology  
University of New Mexico  
Albuquerque, NM

Natalie Dawson, PhD  
Professor of Ecosystem and Conservation  
Director of the Wilderness Institute  
University of Montana  
Missoula, MT

David R. Foster, Ph.D.  
Director, Harvard Forest  
Harvard University  
Petersham, MA

Jerry F. Franklin, Ph.D.  
Professor of Ecosystem Analysis  
College of Forest Resources  
University of Washington  
Seattle, WA

Thomas M. Franklin MS  
Certified Wildlife Biologist®  
Past President, The Wildlife Society  
Washington, DC

Holly K. Gibbs, Ph.D.  
Assistant Professor  
Department of Geography  
Nelson Institute for Environmental Studies  
Center for Sustainability & the Global Env.  
University of Wisconsin – Madison

Michael P. Gillingham, Ph.D.  
Professor of Wildlife Biology  
Natural Resources and Environmental  
Studies Institute  
University of Northern British Columbia  
Prince George, British Columbia

Alan Haney, Ph.D.  
Emeritus Professor of Forest Ecology  
University of Wisconsin-Stevens Point  
Stevens Point, WI

Thomas A. Hanley, Ph.D.  
Research Wildlife Biologist  
Pacific Northwest Research Station  
U.S. Forest Service (retired)  
Juneau, AK

Kris J. Hundertmark, PhD  
Associate Professor of Wildlife Ecology  
University of Alaska Fairbanks  
Fairbanks, AK

Malcolm Hunter, Jr., Ph.D.  
Libra Professor of Conservation Biology  
University of Maine  
Orono, Maine

Winifred B Kessler, PhD  
U.S. Forest Service (retired)  
& Past President of The Wildlife Society  
Prince George, British Columbia

James G. King  
Honorary Ph.D. University of Alaska  
US Fish & Wildlife Service, Retired  
Juneau, AK

David R. Klein, Ph.D.  
Professor Emeritus  
Institute of Arctic Biology  
University of Alaska Fairbanks  
Fairbanks, AK

K Koski, Ph.D.  
Fisheries Scientist  
National Marine Fisheries Service, retired  
Oak Harbor, WA

Paul R. Krausman, Ph.D.  
Boone and Crockett Professor of Wildlife  
Conservation  
Wildlife Biology Program  
University of Montana  
Missoula, MT

Russell Lande, Ph.D.  
Royal Society Research Professor  
Imperial College London, Silwood Park Campus  
Ascot, Berkshire, UK

Jack Lentfer, M.S.  
Wildlife Biologist  
US Fish and Wildlife Service, Retired  
Alaska Department of Fish and Game, Retired  
Gustavus, AK

Ken P. Lertzman, Ph.D.  
Professor  
School of Resource &  
Environmental Management  
Simon Fraser University  
Burnaby, British Columbia

Gene E. Likens, Ph.D.  
Special Advisor to President on  
Environmental Affairs  
& Distinguished Research Professor  
University of Connecticut  
& Founding Director and President Emeritus  
Cary Institute of Ecosystem Studies  
Millbrook, NY

William Z. Lidicker, Jr., Ph.D.  
Professor of Integrative Biology and  
Curator of Mammals Emeritus  
University of California, Berkeley

Thomas E. Lovejoy, Ph.D.  
Professor  
Environmental science and Public Policy  
George Mason University  
Fairfax, VA

Andy MacKinnon, Ph.D. (*honoris causa*)  
Simon Fraser University  
Research Ecologist  
Victoria, British Columbia

Dale R. McCullough, Ph.D.  
Professor Emeritus  
Department of Environmental Science, Policy,  
and Management  
& Museum of Vertebrate Zoology  
University of California, Berkeley

Peter B. McIntyre, Ph.D.  
Assistant Professor  
Center for Limnology & Department of Zoology  
University of Wisconsin  
Madison, WI

Theodore R. Merrell, MS  
Fishery Research Biologist  
Founding Member & past President  
Alaska Chapter, American Fisheries Society  
Juneau, AK

E. Charles Meslow, PhD  
Research Wildlife Biologist  
U.S. Geological Survey, retired  
Corvallis, OR

Sterling Miller Ph.D.  
Dunrovin Research  
Lolo, Montana

David J. Mladenoff, Ph.D.  
Professor, Forest Ecology  
Department of Forest & Wildlife Ecology  
University of Wisconsin  
Madison, Wisconsin

David R. Montgomery, Ph.D.  
Professor of Geomorphology  
University of Washington  
Seattle, WA

Robert J. Naiman, Ph.D.  
Professor, Aquatic & Fishery Sciences  
University of Washington  
Seattle, WA

Martin Nie, Ph.D.  
Professor, Natural Resource Policy  
College of Forestry and Conservation  
University of Montana  
Missoula, MT

Barry R. Noon, Ph.D.  
Professor  
Department of Fish, Wildlife, and  
Conservation Biology  
Colorado State University  
Fort Collins, CO

Elliott Norse, Ph.D.  
Marine Conservation Institute  
Seattle, WA

Gordon H. Orians, Ph.D.  
Professor Emeritus of Biology  
University of Washington  
Seattle, WA

Katherine L. Parker, PhD  
Professor of Wildlife Ecology  
Natural Resources and Environmental Studies  
University of Northern British Columbia  
Prince George, British Columbia

James Peek, Ph.D.  
Professor Emeritus  
Department of Fish & Wildlife Science  
University of Idaho  
Moscow, Idaho

David K. Person, Ph.D.  
Wildlife Biologist  
Braintree, Vermont

Stuart Pimm, Ph.D.  
Doris Duke Chair of Conservation  
Duke University,  
Durham, NC

Jim Pojar, Ph.D.  
Forest Ecologist, B.C. Forest Service (retired)  
Certified Senior Ecologist (ESA)  
Smithers, British Columbia

Roger A Powell, PhD  
Professor Emeritus  
Department of Applied Ecology  
North Carolina State University  
Ely, Minnesota

Michael L. Rosenzweig, Ph.D.,  
Professor, Ecology & Evolutionary Biology  
University of Arizona  
Tucson, AZ

Carl Safina, PhD  
Founding President, Blue Ocean Institute  
Research Professor, School of Marine and  
Atmospheric Sciences  
Visiting Professor and co-chair,  
Alan Alda Center for Communicating Science  
Stony Brook University  
Stony Brook, NY

George B. Schaller, Ph.D.  
Wildlife Scientist  
Panthera  
& Wildlife Conservation Society  
Bronx, NY

John W. Schoen, Ph.D.  
Wildlife Ecologist  
Alaska Department of Fish & Game, Retired  
Audubon Alaska, Retired  
Anchorage, AK

Charles C. Schwartz, Ph.D.  
Alaska Department of Fish & Game, Retired  
N Rocky Mountain Science Center,  
USGS, Retired  
Bozeman, MT

David L. Secord, Ph.D.  
Affiliate Associate Professor  
University of Washington  
Vancouver, British Columbia

Chris Smith, M.S.  
Wildlife Biologist  
Alaska Department of Fish & Game, Retired  
Montana FWP, Retired  
Helena, MT

Winston P. Smith, Ph.D.  
Principal Research Scientist  
Institute of Arctic Biology  
University of Alaska – Fairbanks  
Juneau, AK

Rollin D. Sparrowe, Ph.D.  
US Fish And Wildlife Service, Retired  
Certified Wildlife Biologist  
Past President, The Wildlife Society  
Daniel, WY

Lowell H. Suring, MS  
Principal Wildlife Ecologist  
Northern Ecologic L.L.C.  
USDA Forest Service (retired)  
Suring, Wisconsin

Richard D. Taber Ph.D.  
Professor of Wildlife Science  
University of Washington, Retired  
University of Montana, Retired  
Lolo, MT

Stanley A. Temple, Ph.D.  
Beers-Bascom Professor Emeritus  
in Conservation  
University of Wisconsin-Madison  
& Senior Fellow, Aldo Leopold Foundation  
Madison, WI

Jake Vander Zanden, Ph.D.  
Professor  
Dept. of Zoology and Center for Limnology  
University of Wisconsin - Madison  
Madison, WI

Don Waller, Ph.D.  
John T. Curtis Professor of Botany  
& Chair: Department of Botany  
University of Wisconsin – Madison  
Madison, WI

Robert G. White, Ph.D.  
Professor Emeritus  
Institute of Arctic Biology  
University of Alaska Fairbanks  
Fairbanks, AK

David S. Wilcove, Ph.D.  
Professor of Ecology, Evolutionary Biology &  
Public Affairs  
Woodrow Wilson School & EEB  
Princeton University  
Princeton, NJ

Jack E. Williams, Ph.D.  
Senior Scientist  
Trout Unlimited  
Arlington, VA

Mary F. Willson, Ph.D.  
Professor of ecology (retired)  
Ecology researcher (retired)  
Juneau, AK

Edward O. Wilson, Ph.D.  
Professor Emeritus  
Harvard University  
Cambridge, MA

Steve Zack, Ph.D.  
Senior Scientist,  
Wildlife Conservation Society  
*(affiliation for identification only)*  
Portland, OR

Joy B. Zedler, Ph.D.  
Aldo Leopold Chair of Restoration Ecology  
& Professor of Botany  
University of Wisconsin  
Madison, WI

cc: The Honorable Tom Vilsack, Secretary of Agriculture  
The Honorable Thomas Tidwell, Chief, U.S. Forest Service  
The Honorable Sally Jewell, Secretary of Interior