

[RMRS MAIN](#)[PUBLICATIONS](#)[PERSONNEL](#)[SEARCH](#)[NAT'L FS](#)

RMRS Online Publication

RMRS-P-29: Fire, fuel treatments, and ecological restoration: Conference proceedings; 2002 16-18 April; Fort Collins, CO

Cited in Lands Council v. McNair, No. 07-35000 archived on July 24, 2008

Omi, Philip N.; Joyce, Linda A., technical editors. 2003. **Fire, fuel treatments, and ecological restoration: Conference proceedings; 2002 16-18 April; Fort Collins, CO.** Proceedings RMRS-P-29. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 475 p.

Recent fires have spawned intense interest in fuel treatment and ecological restoration activities. Scientists and land managers have been advocating these activities for years, and the recent fires have provided incentives for federal, state, and local entities to move ahead with ambitious hazard reduction and restoration projects. Recent fires also have increased public awareness about the risks and hazards of living in wild areas. The scientific basis for ecological restoration and fuel treatment activities is growing, but remains largely unsubstantiated, with isolated exceptions. Over 300 participants from all over the United States convened in Ft. Collins, Colorado, to learn from 90 oral and poster presentations.

Keywords: fire, fuel treatment, ecological restoration, hazard reduction, restoration projects

About PDFs: For best results, do not open the PDF in your Web browser. Right-click on the PDF link to download the PDF file directly to your computer. Click here for [more PDF help](#) or [order a printed copy of this publication](#).

Download RMRS-P-29

http://www.fs.fed.us/rm/pubs/rmrs_p029.pdf

(Approx. 12.5 MB)

Download RMRS-P-29 by Papers

[Cover/Contents](#)

(Approx. 650 K)

[Foreword: Conference on Fire, Fuel Treatments, and Ecological Restoration: Proper Place, Appropriate Time](#)

(Approx. 95 K)

Philip N. Omi and Linda A. Joyce, Conference Co-Coordiators

Fuel Treatment Performance and Fire Hazard Reduction

[Fuel Treatments: Opening Remarks](#)

(Approx. 75 K)

Wayne D. Shepperd, Research Forester, Rocky Mountain Research Station; and Sarah Gallup, Fuels/Fire Planner, Arapaho-Roosevelt National Forest

[Performance of Fuel Treatments Subjected to Wildfires](#)

(Approx. 475 K)

Erik J. Martinson and Philip N. Omi, Western Forest Fire Research Center, Department of Forest Sciences, Colorado State University

[Prescribed Burning and Wildfire Risk in the 1998 Fire Season in Florida](#)

(Approx. 160 K)

John M. Pye, Jeffrey P. Prestemon, David T. Butry, and Karen Lee Abt, Southern Research Station, USDA Forest Service

[Fire Hazard and Silvicultural Systems: 25 Years of Experience From the Sierra Nevada](#)

(Approx. 25 K)

Scott Stephens and Jason Moghaddas, Division of Forest Science, Department of Environmental Science, Policy, and Management, University of California

[Canopy Fuel Treatment Standards for the Wildland-Urban Interface](#)

(Approx. 110 K)

Joe H. Scott, Systems for Environmental Management

[Reducing Crown Fire Hazard in Fire-Adapted Forests of New Mexico](#)

(Approx. 800 K)

Carl E. Fiedler, School of Forestry, University of Montana; and Charles E. Keegan, Bureau of Business and Economic Research, University of Montana

Filed in Lands Council V. McNair,
No. 07-35009 archived on July 24, 2008

[Definition of a Fire Behavior Model Evaluation Protocol: A Case Study Application to Crown Fire Behavior Models](#)

(Approx. 110 K)

Miguel G. Cruz, Associação para o Desenvolvimento da Aerodinâmica Industrial and School of Forestry, University of Montana; Martin E. Alexander, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta, Canada; and Ronald H. Wakimoto, School of Forestry, University of Montana

[In Situ Soil Temperature and Heat Flux Measurements During Controlled Surface Burns at a Southern Colorado Forest Site](#)

(Approx. 1.5 MB)

W.J. Massman, J.M. Frank, and W.D. Shepperd, USDA Forest Service, Rocky Mountain Research Station; and M.J. Platten, USDA Forest Service, Manitou Experimental Forest

Restoration Case Studies and Ecosystem Effects

[Ecological Restoration Thinning of Ponderosa Pine Ecosystems: Alternative Treatment Outcomes Vary Widely](#)

(Approx. 80 K)

W. Wallace Covington, Ecological Restoration Institute, Northern Arizona University

[Aspen Response to Prescribed Fire, Mechanical Treatments, and Ungulate Herbivory](#)

(Approx. 110 K)

Steve Kilpatrick and Dean Clause, Wyoming Game & Fish Department; and Dave Scott, USDA Forest Service, Bridger-Teton National Forest

[Experimental Thinning and Burning of Ponderosa Pine Forests in Southwestern Colorado: Effects on Canopy Structure, Understory Composition, and Fuels](#)

(Approx. 25 K)

W.H. Romme, Department of Forest Sciences, Colorado State University; M.L. Floyd-Hanna and D.D. Hanna, Environmental Studies Program, Prescott College; and Phil Kemp, USDA Forest Service, San Juan National Forest

[Effects of Fire Interval Restoration on Carbon and Nitrogen in Sedimentary- and Volcanic-Derived Soils of the Mogollon Rim, Arizona](#)

(Approx. 85 K)

Daniel G. Neary and Steven T. Overby, USDA Forest Service, Rocky Mountain Research Station; and Sally M. Haase, USDA Forest Service, Pacific Southwest Research Station

[Mt. Trumbull Ponderosa Pine Ecosystem Restoration Project](#)

(Approx. 175 K)

Ken Moore, Bob Davis, and Timothy Duck, Parashant National Monument

[Wildlife Responses to Alternative Fire Management Treatments: The National Fire/Fire Surrogate Study Approach](#)

(Approx. 25 K)

Steve Zack and Kerry Farris, Wildlife Conservation Society

[Comparing Two Methods of Identifying Ecological Restoration Opportunities](#)

(Approx. 300 K)

Jimmie D. Chew, USDA Forest Service, Rocky Mountain Research Station

[The Post-Burning Response of Bark Beetles to Prescribed Burning Treatments](#)

(Approx. 150 K)

David J. Ganz and Donald L. Dahlsten, Department of Environmental Science, Policy and Management, University of California; and Patrick J. Shea, USDA Forest Service, Pacific Southwest Research Station

[Root Pathogens and Fire: Silvicultural Interactions in "Exotic" Ecosystems](#)

(Approx. 40 K)

William J. Otrosina, Susana S. Sung, Charles H. Walkinshaw, and Brian T. Sullivan, USDA Forest Service, Institute for Tree-Root Biology

Treatment-Economic

[Social Sciences and the Economics of Moderation in Fuels Treatment](#)

(Approx. 105 K)

Douglas B. Rideout, Forest Economics, Colorado State University

[Costs for Reducing Fuels in Colorado Forest Restoration Projects](#)

(Approx. 75 K)

Dennis L. Lynch and Kurt Mackes, Department of Forest, Rangeland, and Watershed Stewardship, Colorado State University

[The Effects of Fire on Hiking Demand: A Travel Cost Study of Colorado and Montana](#)

(Approx. 520 K)

Hayley Hessel, School of Forestry, University of Montana; John B. Loomis, Department of Agricultural and Resource Economics, Colorado State University; and Armando González-Cabán, USDA Forest Service, Forest Fire Lab, Pacific Southwest Research Station

[Linking GIS and Recreation Demand Models to Estimate the Economic Value of Using Fire to Improve Deer Habitat](#)

(Approx. 500 K)

John Loomis, Department of Agricultural and Resource Economics, Colorado State University; Armando González-Cabán, Forest Fire Lab, USDA Forest Service, Pacific Southwest Station; and Dana Griffin and Ellen Wu, Department of Agricultural and Resource Economics, Colorado State University

[Co-Firing Wood Biomass With Coal at the Cañon City Power Plant](#)

(Approx. 35 K)

Daniel Prokupets, Colorado State Forest Service; and Kurt Mackes and Skip Smith, Department of Forest, Rangeland, and Watershed Stewardship, Colorado State University

Treatment-Social Issues

[Fire Social Science Research: Opening Remarks](#)

(Approx. 85 K)

Antony S. Cheng, Department of Forest Sciences, Colorado State University

[People and Fire in Western Colorado: Methods of Engaging Stakeholders](#)

(Approx. 115 K)

Sam Burns, Office of Community Services, Fort Lewis College; Chuck Sperry, The Rocky Mountain Center for Economic Democracy; and Ron Hodgson, Fire & Aviation Management, Bureau of Land Management

[From Analysis Paralysis to Agency-Community Collaboration in Fuels Reduction for Fire Restoration: A Success Story](#)

(Approx. 85 K)

Timothy Ingalsbee, Western Fire Ecology Center, American Lands Alliance

[Hazardous Fuel Reduction in the Blue Mountains: Public Attitudes and Opinions](#)

(Approx. 100 K)

Eric Toman , Department of Forest Resources, Oregon State University;
and Bruce Shindler, Department of Forest Resources, Oregon State
University

[Fire, Fuel, and Restoration Priorities of the Forest Conservation
Community](#)

(Approx. 25 K)

Gregory H. Aplet, The Wilderness Society

Fire Regime Considerations

[Key Issues in Fire Regime Research for Fuels Management and
Ecological Restoration](#)

(Approx. 145 K)

Thomas T. Veblen, Department of Geography, University of Colorado

[Lessons From the Fires of 2000: Post-Fire Heterogeneity in
Ponderosa Pine Forests](#)

(Approx. 45 K)

Natasha B. Kotliar and Sandra L. Haire, US Geological Survey, Fort Collins
Science Center; and Carl H. Key, US Geological Survey, USGS - Glacier
Field Station Science Center, Glacier National Park

[Mapping the Cheatgrass-Caused Departure From Historical Natural
Fire Regimes in the Great Basin, USA](#)

(Approx. 115 K)

James P. Menakis, Fire Effects Unit, Fire Science Laboratory, USDA Forest
Service, Rocky Mountain Research Station; Dianne Osborne, National
Science and Technology Center, Bureau of Land Management; and
Melanie Miller, Bureau of Land Management

[Determining the Spatial Extent of Historical Fires With Geostatistics
in Northern Lower Michigan](#)

(Approx. 3 MB)

Ann L. Maclean, School of Forest Resources and Environmental Sciences,
Michigan Technological University; and David T. Cleland, USDA Forest
Service, North Central Research Station

[Scaling Rules and Probability Models for Surface Fire Regimes in
Ponderosa Pine Forests](#)

(Approx. 1.3 MB)

Cited in *Lands Council v. McNair*,
No. 07-25000 archived on July 24, 2008

Donald A. Falk and Thomas W. Swetnam, Laboratory of Tree Ring Research, University of Arizona

[Uncertainty in Fire History and Restoration of Ponderosa Pine Forests in the Western United States](#)

(Approx. 125 K)

William L. Baker and Donna S. Ehle, Department of Geography and Recreation, University of Wyoming

[Ancient Piñon-Juniper Forests of Mesa Verde and the West: A Cautionary Note for Forest Restoration Programs](#)

(Approx. 360 K)

William H. Romme, Department of Forest Sciences, Colorado State University; and Lisa Floyd-Hanna and David D. Hanna, Prescott College

Landscape Planning

[Expectation and Evaluation of Fuel Management Objectives](#)

(Approx. 170 K)

Mark A. Finney and Jack D. Cohen, USDA Forest Service Fire Sciences Laboratory, Rocky Mountain Research Station

[Scheduling Removals for Fuels Management](#)

(Approx. 85 K)

John Hof, USDA Forest Service, Rocky Mountain Research Station; and Philip Omi, Department of Forest Sciences, Colorado State University

[Wildland Fire Use: A Wilderness Perspective on Fuel Management](#)

(Approx. 50 K)

Carol Miller, Aldo Leopold Wilderness Research Institute, USDA Forest Service, Rocky Mountain Research Station

[Modeling the Effects of Fuel Treatments for the Southern Utah Fuel Management Demonstration Project](#)

(Approx. 80 K)

Donald Long, Kevin Ryan, Rick Stratton, Ed Mathews, Joe Scott, Maureen Mislivets, Melanie Miller, and Sharon Hood, Fire Sciences Lab, USDA Forest Service, Rocky Mountain Research Station

[Fire Regime Condition Class and Associated Data for Fire and Fuels Planning: Methods and Applications](#)

(Approx. 900 K)

Wendel J. Hann, USDA Forest Service Fire Management; and Diane J.

Strohm, Pike-San Isabel and Comanche-Cimarron National Forests and Grasslands

[Closing Comments: Fire, Fuel Treatments, and Ecological Restoration-
Proper Place, Appropriate Time](#)

(Approx. 70 K)

G. Thomas Zimmerman, National Park Service, National Interagency Fire Center

[Poster Abstracts/Author Contact List](#)

(Approx. 600 K)

Cited On Lands Council v. McNair,
No. 07-35000 archived on July 24, 2008

Title: RMRS-P-29: Fire, fuel treatments, and ecological restoration: Conference proceedings; 2002 16-18 April; Fort Collins, CO

Electronic Publish Date: September 16, 2003

Last Update: March 1, 2004

Questions about RMRS or this Web site?

[Contact Us!](#)

[Evaluate Our Service](#)

We welcome your comments on our service and your suggestions for improvement!