New Publications

January–March 2007

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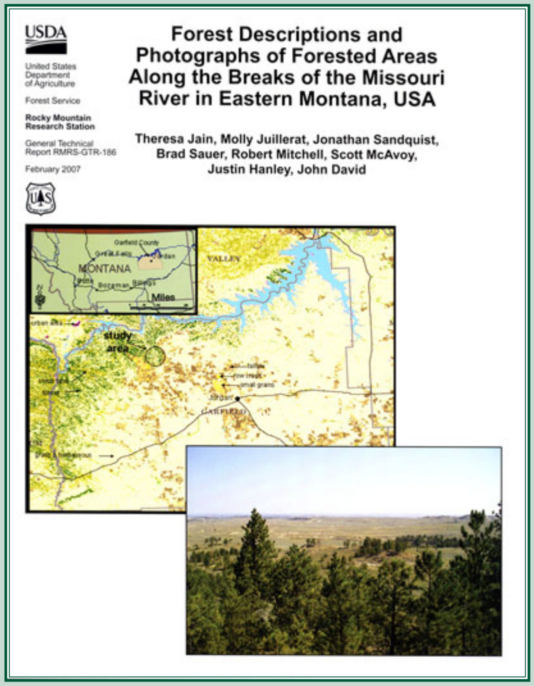

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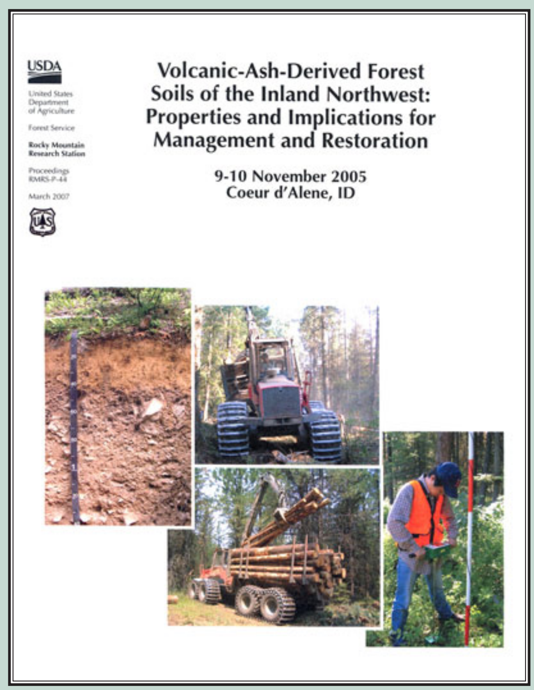

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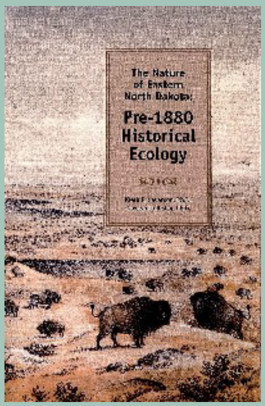
Intermountain Research Station History	1	**Building a research legacy—The Intermountain Station 1911–1997**. Klade, Richard J. 2006. Gen. Tech. Rep. RMRS-GTR-184. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 259 p. **NOTE:** Please indicate if you want a CD or paper copy. Also available: http://www.fs.fed.us/rm/pubs/rmrs_gtr184.html This publication includes highlights of the history of organizations that preceded formation of the Intermountain Forest and Range Experiment Station in 1954; detailed accounts of research and administrative accomplishments; some of the people who led activities; and changes in the organization from 1954 through 1997 when the Intermountain and Rocky Mountain Stations merged to become the Rocky Mountain Research Station.
Campsite restoration	2	**Vegetation and soil restoration on highly impacted campsites in the Eagle Cap Wilderness, Oregon**. Cole, David N.; Spildie, David R. 2007. Gen. Tech. Rep. RMRS-GTR-185. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 26 p. Also available: http://www.fs.fed.us/rm/pubs/rmrs_gtr185.html We assessed the effectiveness of planting techniques and restoration treatments designed to improve the physical, biological, and chemical properties of soils and ameliorate microclimatic conditions on six closed campsites in subalpine forests. Restoration treatments included scarification, soil amendment with organic matter, compost and soil inoculum, and application of a mulch blanket. Our results show the relative ease of establishing various species and growth forms in these forests, as well as which species and growth forms respond best to the applied treatments.
Missouri River forest descriptions	3	**Forest descriptions and photographs of forested areas along the breaks of the Missouri River in eastern Montana, USA**. Jain, Theresa B.; Juillerat, Molly; Sandquist, Jonathan; Sauer, Brad; Mitchell, Robert; McAvoy, Scott; Hanley, Justin; David, John. 2007. Gen. Tech. Rep. RMRS-GTR-186. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 51 p. Also available: http://www.fs.fed.us/rm/pubs/rmrs_gtr186.html This handbook presents information and photographs obtained from forest lands along the breaks of the Missouri River in eastern Montana. Forest characteristics summarized in tables with accompanying photographs can be used by foresters, wildlife biologists, range ecologists, and fire and fuel specialists to provide quick estimates of species composition and densities within similar landscape features. Sites containing three overstory densities are represented within each of the six physiographic positions in the handbook. Inventory data describes the forest floor, ground-level vegetation, tree density, average crown ratio, canopy base height, and other characteristics; two photographs (close and distant view) provide a visual image and accompany the quantitative descriptions.

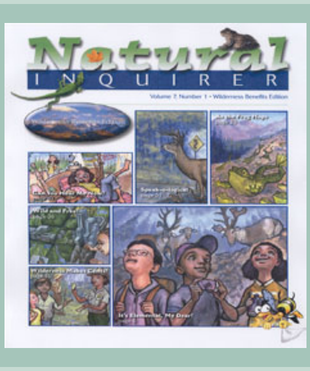
	Order No.	
Volcanic ash soils	4	**Volcanic-ash-derived forest soils of the inland Northwest: Properties and implications for management and restoration. 9–10 November 2005; Coeur d'Alene, ID**. Page-Dumroese, Deborah; Miller, Richard; Mital, Jim; McDaniel, Paul; Miller, Dan, tech. eds. 2007. Proceedings RMRS-P-44; Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 220 p. Also available: http://www.fs.fed.us/rm/pubs/rmrs_p044.html Volcanic ash from the eruption of Mt. Mazama ~7,700 years ago has a strong influence on many forested landscapes of the Pacific Northwest and Intermountain regions of the USA and Canada. Because of the unique biological, physical and chemical properties of the ash, it is closely tied to plant communities and forest productivity, and should therefore be considered as a resource to protect when harvesting, burning, or site preparation activities occur on it. How did this symposium get started? There has been a steady stream of questions, problems, and research on volcanic ash-cap soils for many decades. This symposium was designed to assemble experts to discuss our state-of-knowledge about volcanic ash-cap soil management and restoration..

The Nature of Eastern North Dakota



The nature of Eastern North Dakota: Pre-1880 historical ecology. Sieg, Carolyn Hull; Severson, Kieth E. 2006. Fargo, ND: North Dakota State University Institute of Regional Studies. ISBN 978-0-911042-65-852195. Order: http://www.ndsu.nodak.edu/ndsu/heiraas/ndirs/Nature%20of%20Eastern%20ND.htm

How abundant were bison on the prairies of eastern North Dakota and how did they move over the grasslands? Did prairie dogs live on this eastern edge of the Great Plains? How about wolves, elk and prairie chickens? Was the influence of Native Americans so strong that the Great Plains wilderness described by early European travelers was already far from "natural"? Were fires common before Euro-American settlement, and were Native Americans the only ones setting them? Were trees present? If so, where did they occur and how did they exist in the presence of droughts, fire and widespread grazing? How often did the flooding occur and how common were droughts? How did they compare in intensity and duration to the drought of the 1930s? Such questions are the foundation of *The Nature of Eastern North Dakota*.



Science for Youth

Testing the fire triangle. Smith, Jane Kapler. 2005. Odyssey. September: 10–11. [Adapted from the *FireWorks Curriculum Featuring Ponderosa, Lodgepole, and Whitebark Pine Forests*. Available: http://www.fs.fed.us/rm/pubs/rmrs_gtr65.html]

What makes an experience different at Gates of the Arctic National Park and Preserve? Glaspell, Brian; Watson, Alan; Kneeshaw, Katie; Pendergrast, Don. 2006. Natural Inquirer. 7(1): 6–15. Available: http://www.naturalinquirer.usda.gov/NIIndex.cfm?act=viewIssue&issue=11

Journals and Other Publications

Obtain the following publications through university libraries, the publisher, or web site as listed. Forest Service employees may request these items from the National Forest Service Library at FSLibrary-DocsFC@fs.fed.us or telephone: (970) 498-1205.

Wildland fire and fuels

Best predictors for postfire mortality of ponderosa pine trees in the Intermountain West. Sieg, Carolyn Hull; McMillin, Joel D.; Fowler, James F.; Allen, Kurt K.; Negron, Jose F.; Wadleigh, Linda L.; Anhold, John A.; Gibson, Ken E. 2006. Forest Science. 52(6): 718–728. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_sieg_c001.html

Comparison of the sensitivity of landscape-fire-succession models to variation in terrain, fuel pattern, climate and weather. Cary, Geoffrey J.; Keane, Robert E.; Gardner, Robert H.; Lavorel, Sandra; Flannigan, Mike D.; Davies, Ian D.; Li, Chao; Lenihan, James M.; Rupp, T. Scott; Mouillot, Florent. 2006. Landscape Ecology. 21: 121–137. Available: http://www.treesearch.fs.fed.us/pubs/23714

The complexity of managing fire-dependent ecosystems in wilderness: Relict ponderosa pine in the Bob Marshall wilderness. Keane, Robert E.; Arno, Stephen; Dickinson, Laura J. 2006. Ecological Restoration. 24(2): 71–78. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_keane_r002.html

Estimating canopy fuel characteristics in five conifer stands in the western United States using tree and stand measurements. Reinhardt, Elizabeth; Scott, Joe; Gray, Kathy; Keane, Robert. 2006. Canadian Journal of Forest Research. 36: 2803–2814. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_reinhardt_e001.html

Fossils and fire: a study on the effects of fire on paleontological resources at Badlands National Park. Benton, Rachel; Reardon, James. 2006. In: Lucas, S. G.; Spielmann, J. A.; Hester, P. M.; Kenworthy, J. P.; Santucci, V. L., eds. Fossils from Federal Lands. New Mexico Museum of Natural History and Science Bulletin 34: 47–54. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_benton_r001.html

Learning from escaped prescribed fires—lessons for high reliability. Dether, Deirdre; Black, Anne. 2006. Fire Management Today. 66(4): 50–56. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_dether_d001.html

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Trends in public attitudes towards the use of wildland fire. Knotek, K. 2006. In: Third International Fire Ecology and Management Congress proceedings; 2006 November 13–17; San Diego, CA. Pullman, WA: Washington State University. DVD. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_knotek_k002.html

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Plant species invasions along the latitudinal gradient in the United States: Reply. Flather, Curtis H.; Stohlgren, Thomas J.; Jarnevich, Catherine; Barnett, David; Kartesz, John. 2006. Ecology. 87(12); 3213-3217. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_flather_c002.html

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Benefits and challenges of computer simulation modeling of backcountry recreation use in the Desolation Lake area of the John Muir Wilderness. Lawson, Steven R.; Itami, Robert M.; Gimblett, H. Randy; manning, Robert E. 2006. Journal of Leisure Research. 38(2): 187–207.

Culturally scarred trees in the Bob Marshall Wilderness, Montana, USA—Interpreting Native American historical forest use in a wilderness area. Östlund, Lars; Keane, Bob; Arno, Steve; Andersson, Rikard. 2005. Natural Areas Journal. 25(4): 315–325. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2006_ostlund_l001.html

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Landscape-scale genetic variation in a forest outbreak species, the mountain pine beetle (*Dendroctonus ponderosae*). Mock, K. E.; Bentz, B. J.; O'Neill, E. M.; Chong, J. P.; Orwin, J.; Pfrender, M. E. 2007. Molecular Ecology. 16: 553–568.

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Temperature determines symbiont abundance in a multipartite bark beetle-fungus ectosymbiosis. Six, D. L.; Bentz, B. J. 2007. Microbial Ecology. DOI: 10.1007/s00248-006-9178-x

Resource data and analysis

Effective management strategies for sage-grouse and sagebrush: a question of triage? Wisdom, M. J.; Rowland, M. M.; Tausch, R. J. 2005. Transactions, North American Wildlife and Natural Resources Conference. 70: 206–227. Available: http://www.fs.fed.us/rm/pubs_other/rmrs_2005_wisdom_m001.html

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Partitioning error components for accuracy-assessment of near-neighbor methods of imputation. Stage, Albert R.; Crookston, Nicholas L. 2007. Forest Science. 53(1): 62–72. Available: http://forest.moscowfsl.wsu.edu/gems/StagePartitioningFS.pdf

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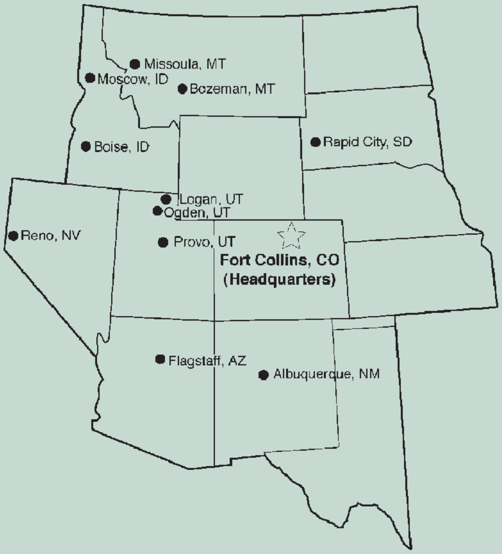

The Rocky Mountain Research Station

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