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April– June 2003



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SUBJECT	ORDER #	TITLE
Rangeland health	5	<p>Indicators of rangeland health and functionality in the Intermountain West. O'Brien, Renee A.; Johnson, Curtis M.; Wilson, Andrea M.; Elsbernd, Van C. 2003. Gen. Tech. Rep. RMRS-GTR-104. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 13 p.</p> <p>This paper describes four rangeland health indicators and interpretation criteria that can be used to characterize rangeland health and functionality. The four indicators tested in this study—noxious weeds, ground cover, species composition, and shrub cover—proved to be viable indicators of rangeland health and functionality. The paper recommends that these indicators can be used at many scales, from the site level for local planning, to State and national levels for strategic planning.</p>
BehavePlus	6	<p>BehavePlus fire modeling system version 2.0: user's guide. Andrews, Patricia L.; Bevins, Collin D.; Seli, Robert C. 2003. Gen. Tech. Rep. RMRS-GTR-106WWW. Ogden, UT: Department of Agriculture, Forest Service, Rocky Mountain Research Station. 132 p. Available: http://www.fs.fed.us/rm/pubs/rmrs_gtr106.html</p> <p>The BehavePlus fire modeling system is a program for personal computers that is a collection of mathematical models that describe fire and the fire environment. It is a flexible system that produces tables, graphs, and simple diagrams. It can be used for a multitude of fire management applications including projecting the behavior of an ongoing fire, planning prescribed fire, and training. BehavePlus is the successor to the BEHAVE fire behavior prediction and fuel modeling system. Primary modeling capabilities include surface fire spread and intensity, safety zone size, size of point source fire, fire containment, spotting distance, crown scorch height, tree mortality, and probability of ignition.</p>
Nursery proceedings	7	<p>National proceedings: forest and conservation nursery associations—2002. Riley, Lee E.; Dumroese, R. Kasten; Landis, Thomas D., tech. coords. 2003. Proceedings RMRS-P-28. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 187 p. Available: http://www.fs.fed.us/rm/pubs/rmrs_p028.html</p> <p>This proceedings is a compilation of 33 papers that were presented at the regional meetings of the forest and conservation nursery associations. Subject matter for both sessions included seed transfer, collection, and processing; pest problems and pesticide use; nursery culturing; transplanting; harvesting, storage, and outplanting.</p>
Fire conference	8	<p>Fire, fuel treatments, and ecological restoration: conference proceedings; 2002 April 16–18; Fort Collins, CO. Omi, Philip N.; Joyce, Linda A., tech. eds. 2003. Proceedings RMRS-P-29. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 475 p.</p> <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.</p>



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Climate change: ecosystem restructuring, natural disturbances and land use. Joyce, Linda A.; Hansen, Andrew. 2001. In: Rahm, Jennifer; McCabe, Richard, eds. *Changing climates of North America: political, social and ecological; transactions of the sixty-sixth North American wildlife and natural resources conference; 2001 March 16–20; Washington, DC.* Washington, DC: Wildlife Management Institute: 327–343.

Climatic controls on fire-induced sediment pulses in Yellowstone National Park and central Idaho; a long-term perspective. Meyer, Grant A.; Pierce, Jennifer L. 2003. *Forest Ecology and Management*. 178: 89–104.

New international long-term ecological research on air pollution effects on the Carpathian Mountain forests, Central Europe. Bytnerowicz, Andrzej; Badea, Ovidiu; Barbu, Ion; [and others]. 2003. *Environment International*. 29: 367–376.

The role of climate and vegetation change in shaping past and future fire regimes in the northwestern US and the implications for ecosystem management. Whitlock, Cathy; Shafer, Sarah L.; Marlon, Jennifer. 2003. *Forest Ecology and Management*. 178: 5–21.

Understanding climatic impacts, vulnerabilities, and adaptation in the United States: building a capacity for assessment. Parson, Edward A.; Corell, Robert W.; Barron, Eric J.; Burkett, Virginia; Janetos, Anthony; Joyce, Linda; Karl, Thomas R.; MacCracken, Michael C.; Melillo, Jerry; Morgan, M. Granger; Schimel, David S.; Wilbanks, Thomas. 2003. *Climatic Change*. 57: 9–42.

Fire

An analysis of “24-hour pay” for forest fire suppression personnel. Gebert, Krista M.; Schuster, Ervin G. 2002. *Western Journal of Applied Forestry*. 17(4): 183–188.

Assessing the impacts of prescribed burning on soil and water resources of oak savannas in the Southwestern United States. Gottfried, Gerald J.; Neary, Daniel G.; Bemis, Ronald J. 2003. In: *Assessing capabilities of soil and water resources in drylands: the role of information retrieval and dissemination technologies; proceedings of the IALC conference and workshop; 2002 October 20–25; Tucson, AZ.* Tucson, AZ: International Arid Lands Consortium: 115–122.

Effects of fire on fish populations: landscape perspectives on persistence of native fishes and non-native fish invasions. Dunham, J. B.; Young, M. K.; Gresswell, R. E.; Rieman, B. E. 2003. *Forest Ecology and Management*. 178: 183–196.

Effects of post-wildfire erosion on channel environments, Boise River, Idaho. Benda, Lee; Miller, Daniel; Bigelow, Paul; Andras, Kevin. 2003. *Forest Ecology and Management*. 178: 105–119.

Fire and amphibians in North America. Pilliod, David S.; Bury, R. Bruce; Hyde, Erin J.; Pearl, Christopher A.; Corn, Paul Stephen. 2003. *Forest Ecology and Management*. 178: 163–181.

Fire and aquatic ecosystems of the western USA: current knowledge and key questions. Bisson, Peter A.; Rieman, Bruce E.; Luce, Charlie; Hessburg, Paul F.; Lee, Danny C.; Kershner, Jeffrey L.; Reeves, Gordon H.; Gresswell, Robert E. 2003. *Forest Ecology and Management*. 178: 213–229.

Fire and riparian ecosystems in landscapes of the western USA. Dwire, Kathleen A.; Kauffman, J. Boone. 2003. *Forest Ecology and Management*. 178: 61–74.

Introduction to the effects of wildland fire on aquatic ecosystems in the Western USA. Rieman, Bruce E.; Luce, Charles H.; Gresswell, Robert E.; Young, Michael K. 2003. *Forest Ecology and Management*. 178: 1–3.

Responses of stream benthic macroinvertebrates to fire. Minshall, G. Wayne. 2003. *Forest Ecology and Management*. 178: 155–161.



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Wildfire effects on stream food webs and nutrient dynamics in Glacier National Park, USA. Spencer, Craig N.; Gabel, Kristin Odney; Hauer, F. Richard. 2003. *Forest Ecology and Management*. 178: 141–153.

Mensuration and management

Comparison of ground sampling methods for estimating canopy cover. Williams, Michael S.; Patterson, Paul L.; Mowrer, H. Todd. 2003. *Forest Science*. 49(2): 235–246.

Water and soils

Assessing the capabilities of soil and water resources. Neary, Daniel G.; DeBano, Leonard F.; Baker, Malchus B., Jr. 2003. In: *Assessing capabilities of soil and water resources in drylands: the role of information retrieval and dissemination technologies; proceedings of the IALC conference and workshop; 2002 October 20–25; Tucson, AZ*. Tucson, AZ: International Arid Lands Consortium: 54–66.

Postfire erosional processes in the Pacific Northwest and Rocky Mountain regions. Wondzell, Steven M.; King, John G. 2003. *Forest Ecology and Management*. 178: 75–87.

A probabilistic approach for channel initiation. Istanbuluoglu, Erkan; Tarboton, David G.; Pack, Robert T. 2002. *Water Resources Research*. 38(12): 1325.

Soil-surface carbon dioxide efflux and microbial biomass in relation to tree density 13 years after a stand replacing fire in a lodgepole pine ecosystem. Litton, Creighton M.; Ryan, Michael G.; Knight, Dennis H.; Stahl, Peter D. 2003. *Global Change Biology*. 9: 680–696.

Time, space, and episodicity of physical disturbance in streams. Miller, Daniel; Luce, Charlie; Benda, Lee. 2003. *Forest Ecology and Management*.

178: 121–140.

Ecosystem management

An environmental narrative of Inland Northwest United States forests, 1800–2000. Hessburg, Paul F.; Agee, James K. 2003. *Forest Ecology and Management*. 178: 23–59.

Forces of reaction and changes of scale in the world system of states. Tainter, Joseph A. 2003. In: Ferguson, R. Brian, ed. *The state identity and violence: political disintegration in the post-cold war world*. London: Routledge: 68–82.

A framework for archaeology and sustainability. Tainter, J. A. 2002. In: *Encyclopedia of life support systems*. Oxford, UK: EOLSS Publishers: 1–23. [<http://www.eolss.net>]

A framework for sustainability. Tainter, Joseph A. 2003. *World Futures*. 59: 213–223

Natural resource extraction: past, present, and future. Rueth, Heather M.; Baron, Jill S.; Joyce, Linda A. 2002. In: Baron, Jill S., ed. *Rocky Mountain futures: an ecological perspective*. Washington, DC: Island Press: 85–112.

Resource transitions and energy gain: contexts of organization. Tainter, Joseph A.; Allen, T. F. H.; Little, Amanda; Hoekstra, Thomas W. 2003. *Conservation Ecology*. 7(3):4. Available: <http://www.consecol.org/vol7/iss3/art4>

Snow redistribution by wind and interactions with vegetation at upper treeline in the Medicine Bow Mountains, Wyoming, U.S.A. Hiemstra, Christopher A.; Liston, Glen E.; Reiners, William A. 2002. *Arctic, Antarctic, and Alpine Research*. 34(3): 262–273.

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Fish and wildlife

Hankin and Reeves' approach to estimating fish abundance in small streams: limitations and alternatives. Thompson, William L. 2003. Transactions of the American Fisheries Society. 132: 69–75.

Measuring woodpecker food: a simple method for comparing wood-boring beetle abundance among fire-killed trees. Powell, Hugh D. W.; Hejl, Sallie J.; Six, Diana L. 2002. Journal of Field Ornithology. 73(2): 130–140.

Parental care of a cowbird host: caught between the costs of egg-removal and nest predation. Tewksbury, Joshua J.; Martin, Thomas E.; Hejl, Sallie J.; Kuehn, Michael J.; Jenkins, J. Wajid. 2002. Proceedings of the Royal Society of London. 269: 423–429.

Probable pheromonal attraction of sexually mature brook trout to mature male conspecifics. Young, Michael K.; Micek, Bradley K.; Rathbun, Michael. 2003. North American Journal of Fisheries Management. 23: 276–282.

Relationships between water, otolith, and scale chemistries of westslope cutthroat trout from the Coeur d'Alene River, Idaho: the potential application of hard-part chemistry to describe movements in freshwater. Wells, Brian K.; Rieman, Bruce E.; Clayton, James L.; Horan, Dona L.; Jones, Cynthia M. 2003. Transactions of the American Fisheries Society. 132: 409–424.

Status of native fishes in the western United States and issues for fire and fuels management. Rieman, Bruce; Lee, Danny; Burns, Dave;

Gresswell, Robert; Young, Michael; Stowell, Rick; Rinne, John; Howell, Philip. 2003. Forest Ecology and Management. 178: 197–211.

Technology and development

Use of fourier transforms to define landscape scales of analysis for disturbances: a case study of thinned and unthinned forest stands. Lundquist, J. E.; Sommerfeld, R. A. 2002. Landscape Ecology. 17: 445–454.

Web access to watershed management data and information <http://ag.arizona.edu/OALS/watershed/>. Baker, Malchus B., Jr.; Or, Barron; Yang, Yu; Yamaguchi, Yuko; Hutchinson, Barbara; Haseltine, Michael; Casler, Carla. 2003. In: Assessing capabilities of soil and water resources in drylands: the role of information retrieval and dissemination technologies; proceedings of the IALC conference and workshop; 2002 October 20–25; Tucson, AZ. Tucson, AZ: International Arid Lands Consortium: 175–178.

Plant biology/physiology

Germination and survival of spruce seedlings following fire in northwestern Alberta. Berger, Carrie A.; Gilmore, Daniel W. 2003. Northern Journal of Applied Forestry. 20(1): 45–47.

Water use by rootstocks of Emory oak coppice. Shipek, D. Catlow; DeBano, Leonard F.; Gottfried, Gerald J.; Ffolliott, Peter F. 2003. In: Assessing capabilities of soil and water resources in drylands: the role of information retrieval and dissemination technologies; proceedings of the IALC conference and workshop; 2002 October 20–25; Tucson, AZ. Tucson, AZ: International Arid Lands Consortium: 167–173.



World Wide Web Publications

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- Cascading effects of fire exclusion in the Rocky Mountain ecosystems: a literature review.** Keane, Robert E.; Ryan, Kevin C.; Veblen, Tom T.; Allen, Craig D.; Logan, Jesse; Hawkes, Brad. 2002. Gen. Tech. Rep. RMRS-GTR-91.
- Detecting swift fox: smoked-plate scent stations versus spotlighting.** Uresk, Daniel W.; Severson, Kieth E.; Javersak, Jody. 2003. Res. Pap. RMRS-RP-39.
- Ecology, silviculture, and management of Black Hills ponderosa pine.** Shepperd, Wayne D.; Battaglia, Michael A. 2002. Gen. Tech. Rep. RMRS-GTR-97.
- From the Rio to the Sierra: an environmental history of the middle Rio Grande Basin.** Scurlock, Dan. 1998. Gen. Tech. Rep. RMRS-GTR-5. 440 p.
- How to recognize blister rust infection on whitebark pine.** Hoff, Ray J. 1992. Res. Note INT-406.
- Indicators of rangeland health and functionality in the Intermountain West.** O'Brien, Renee A.; Johnson, Curtis M.; Wilson, Andrea M.; Elsbernd, Van C. 2003. Gen. Tech. Rep. RMRS-GTR-104.
- Integrating ecosystem sampling gradient modeling, remote sensing, and ecosystem simulation to create spatially explicit landscape inventories.** Keane, Robert E.; Rollins, Matthew G.; McNicoll, Cecilia H.; Parsons, Russell A. 2002. Gen. Tech. Rep. RMRS-GTR-92.
- Lichen communities indicator results from Idaho: baseline sampling.** Neitlich, Peter; Rogers, Paul; Rosentreter, Roger. 2003. Gen. Tech. Rep. RMRS-GTR-103.
- Mistletoes of North American conifers.** Geils, Brian W.; Cibrián Tovar, Jose; Moody, Benjamin, tech. coords. 2002. Gen. Tech. Rep. RMRS-GTR-98.
- Monitoring the vegetation resources in Riparian Areas.** Winward, Alma H. 2000. Gen. Tech. Rep. RMRS-GTR-47.
- National Proceedings: forest and conservation nursery associations—2002.** Riley, L. E.; Dumroese, R. K.; Landis, T. D., tech. coords. 2003. Proceedings RMRS-P-28.
- Santa Rita Experimental Range digital database: user's guide.** McClaran, Mitchel P.; Angell, Deborah L.; Wissler, Craig. 2002. Gen. Tech. Rep. RMRS-GTR-100.
- Second Forest Vegetation Simulator conference.** Crookston, Nicholas L.; Havis, Robert N., comps. 2002. Proceedings RMRS-P-25.
- Stopover ecology of landbirds migrating along the middle Rio Grande in spring and fall.** Yong, Wang; Finch, Deborah M. 2002. Gen. Tech. Rep. RMRS-GTR-99.
- Survey results of the American public's values, objectives, beliefs, and attitudes regarding forests and grasslands: a technical document supporting the 2000 USDA Forest Service RPA assessment.** Shields, Deborah J.; Martin, Ingrid M.; Martin, Wade E.; Haefele, Michelle A. 2002. Gen. Tech. Rep. RMRS-GTR-96.
- Users guide to the Most Similar Neighbor Imputation program Version 2.** Crookston, Nicholas L.; Moeur, Melinda; Renner, David 2002. Gen. Tech. Rep. RMRS-GTR-96.
- Vegetative characteristics of swift fox denning and foraging sites in southwestern South Dakota.** Uresk, Daniel W.; Severson, Kieth E.; Javersak, Jody. 2003. Res. Pap. RMRS-RP-38.
- Wilderness in the circumpolar North: searching for compatibility in ecological, traditional, and ecotourism values.** Watson, Alan E.; Alessa, Lilian; Sproull, Janet, comps. 2002. Proceedings RMRS-P-26.
- Wildland fire in ecosystems: effects of fire on air.** Sandberg, David V.; Ottmar, Roger D.; Peterson, Janice L.; Core, John. 2003. Gen. Tech. Rep. RMRS-GTR-42-vol. 5.
- Wildland fire in ecosystems: effects of fire on fauna.** Smith, J. K., ed. 2000. Gen. Tech. Rep. RMRS-GTR-42-vol. 1.
- Wildland fire in ecosystems: effects of fire on flora.** Brown, J. K.; Smith, J. K., eds. 2001. Gen. Tech. Rep. RMRS-GTR-42-vol. 2.





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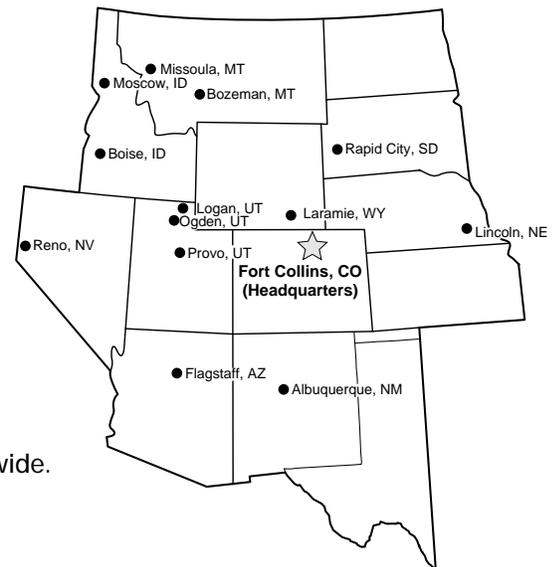
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