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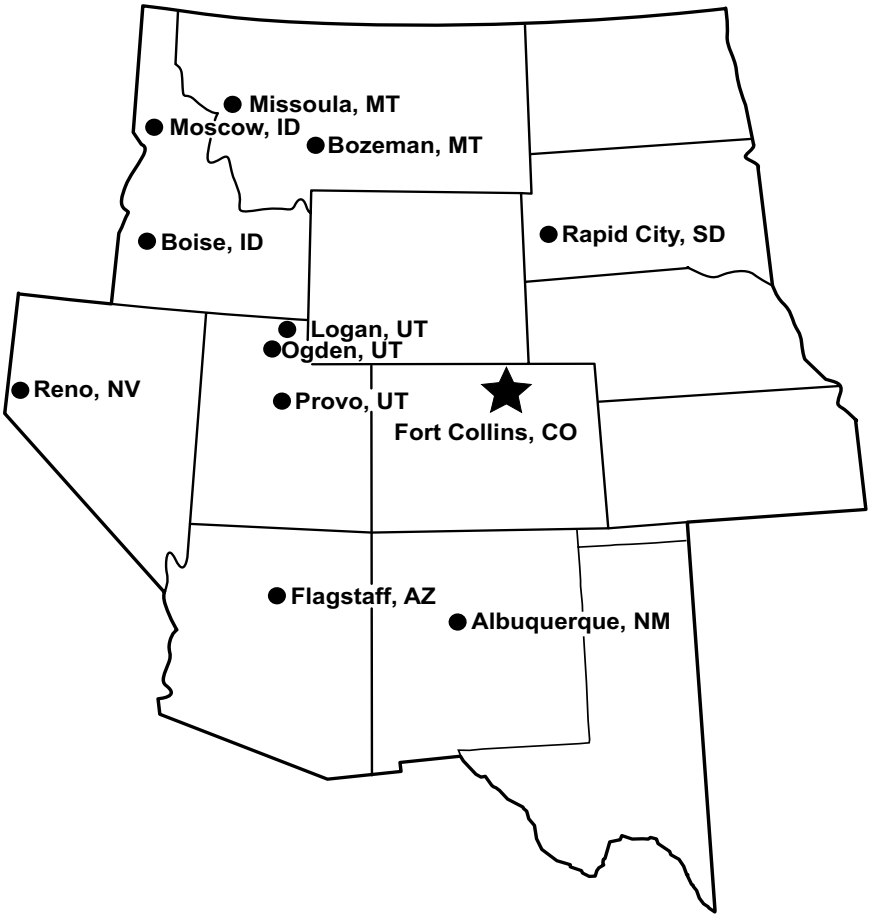

The Rocky Mountain Research Station is one of five regional units that make up the USDA Forest Service Research and Development organization—the most extensive natural resources research organization in the world. We maintain 14 research locations throughout a 14-state territory encompassing the Great Basin, Southwest, Rocky Mountains and parts of the Great Plains. The Station employs over 400 permanent full-time employees, including more than 100 research scientists

Scientists conduct research that spans an area containing 52% of the nation's National Forest System lands (54 National Forests and Grasslands). In the lower 48 states, our territory also includes 55% of the nation's BLM lands; 48% of the designated wildernesses; 37% of National Park Service lands; numerous other public and tribal lands; and 41% of the non-urban/rural private lands.

We administer and conduct research on 14 experimental forests, ranges and watersheds while maintaining long-term databases for these areas. We also oversee activities on more than 260 Research Natural Areas and lead ecosystem management and research partnership projects in Arizona, Montana, New Mexico and Nevada.

For more information, please visit us on the Web at: http://www.fs.fed.us/rmrs/

USDA

New RMRS Series Publications

Fire ecology and management

Order 28

Research Areas:

Fire ecology and management of the major ecosystems of southern Utah. Hood, Sharon M.; Miller, Melanie, eds. 2007. Gen. Tech. Rep. RMRS-GTR-202. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 110 p.

This document provides managers with a literature synthesis of the historical conditions, current conditions, fire regime condition classes (FRCC), and recommended treatments for the major ecosystems in southern Utah. Sections are by ecosystems and include: 1) coniferous forests (ponderosa pine, mixed conifer, and Engelmann spruce-subalpine fir), 2) aspen, 3) pinyon-juniper, 4) big and black sagebrush, and 5) desert shrubs (creosotebush, blackbrush, and interior chaparral). The vegetation types described are similar in species composition, stand structure, and ecologic function, including fire regime to vegetation types found on hundreds of millions of hectares in the 11 western states.

Online: http://www.fs.fed.us/rm/pubs/rmrs_gtr202.html

Post-fire values-at-risk calculation

Order 29

Research Area:

Assessing post-fire values-at-risk with a new calculation tool. Calkin, David E.; Hyde, Kevin D.; Robichaud, Peter R.; Jones, J. Greg; Ashmun, Louise E.; Loeffler, Dan. 2007. Gen. Tech. Rep. RMRS-GTR-205. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Sation. 32 p.

Wildfire effects include loss of vegetative cover and changes to soil properties that may lead to secondary effects of increased runoff, erosion, flooding, sedimentation, and vulnerability to invasive weeds. These secondary effects may threaten human life and safety, cultural and ecological resources, land use, and existing infrastructure. This project examined current methods for post-fire assessment of value-at-risk (VAR) and sought methodologies to standardize and simplify the complex valuation task.

Online: http://www.fs.fed.us/rm/pubs/rmrs_gtr205.html

World wilderness proceedings

Order 30

Research Area:

Science and stewardship to protect and sustain wilderness values: Eighth World Wilderness Congress symposium; September 30–October 6, 2005; Anchorage, AK. Watson, Alan; Sproull, Janet; Dean, Liese, comps. 2007. Proceedings RMRS-P-49. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 581 p.

The Eighth World Wilderness Congress met in Anchorage, Alaska, in 2005. The symposium on science and stewardship to protect and sustain wilderness values was the largest of multiple symposia held in conjunction with the Congress. The papers contained in this proceedings were generated at this symposium, submitted by the author or authors for consideration for inclusion in this proceedings, and have been organized into nine major topics: (1) Alaska: past, present and future; (2) connections between wilderness and communities; (3) values to local and distant societies of wilderness protection; (4) establishing priorities and developing policies for wilderness protection; (5) wilderness stewardship challenges in a changing world; (6) encouraging stewardship through education; (7) place and spirit: commitment to wilderness; (8) protecting ecological integrity of wilderness; and (9) wilderness, water, and wisdom.

(continued on next page)

Science and stewardship to protect and sustain wilderness values: Eighth World Wilderness Congress symposium (continued)

Papers by RMRS authors:

Christensen, N.; Watson, A.; Burchfield, J. *Relationships to place in wildland resources management: Developing an effective research approach*: 470–478.

Gunderson, K.; Cook, C. *Wilderness, water, and quality of life in the Bitterroot Valley*: 537–544.

Liljeblad, A.; Watson, A. E.; Borrie, W. T. *A look inside the dynamics of trust: A guide for managers*: 323–325.

Magro, T. C.; Watson, A.; Bernasconi, P. *Identifying threats, values, and attributes in Brazilian wilderness areas*: 319–322.

Williams, D. R.; Watson, A. E. *Wilderness values: Perspectives from non-economic social science*: 123–133.

Online: http://www.fs.fed.us/rm/pubs/rmrs_p049.html

Nursery Proceedings

Order 31

Research Areas:

National Proceedings: Forest and Conservation Nursery Association—2006. Riley, L.E.; Dumroese, R.K.; Landis, T.D., tech. coords. 2007. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. Proceedings RMRS-P-50. 155 p.

This proceedings is a compilation of 24 papers that were presented at the regional meetings of the forest and conservation nursery associations in the United States in 2006. The Western Forest and Conservation Nursery Association meeting was held in Eugene, Oregon, on June 19 to 22, and was hosted by the USDA Forest Service Dorena Genetic Resource Center and Plum Creek Container Nursery. Subject matter for the technical sessions included bareroot and container nursery culturing and monitoring, disease management, and native species restoration.

The Southern Forest Nursery Association meeting was held July 10 to 13 in Tyler, Texas, and was hosted by the Texas Forest Service Indian Mound Nursery. Subject matter for the technical sessions included labor relations and regulations, bareroot and container nursery culturing, hardwood management, pesticide use, and outplanting strategies.

Online: http://www.fs.fed.us/rm/pubs/rmrs_p050.html

Partial cutting and mountain pine beetle

Order 32

Research Areas:

The influence of partial cutting on mountain pine beetle-caused tree mortality in Black Hills ponderosa pine stands. Schmid, J. M.; Mata, S. A.; Kessler, R. R.; Popp, J. B. 2007. Res. Pap. RMRS-RP-68 Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 19 p.

Ponderosa pine stands were partially cut to various stocking levels at five locations, periodically surveyed, and remeasured during the 20 years after installation. Beetles attacked trees ranging from 8 to 18 inches in partially cut stands and from 7 to 19 inches in unmanaged stands. The effectiveness of partial cutting for minimizing mountain pine beetle-caused mortality is influenced by: residual stocking level, size of the partial cut, amount of time since the area was cut, and proximity of beetle populations. Partial cuts of ≤10 acres may not minimize beetle-caused mortality if the cut stands are surrounded by unmanaged forest. Management to minimize beetle-caused mortality should be considered the top priority in mature ponderosa pine stands.

Online: http://www.fs.fed.us/rm/pubs/rmrs_rp068.html

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Journals and Other Publications

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Air, water, and aquatic environments

A case for classifying the Rio Grande silvery minnow (*Hybognathus amarus*) as an omnivore. Magaña, Hugo A. 2007. Albuquerque, NM: The University of New Mexico. 109 p. Dissertation. Online: http://www.treesearch.fs.fed.us/pubs/29161

A multiscale curvature algorithm for classifying discrete return LiDAR in forested environments. Evans, Jeffrey S.; Hudak, Andrew T. 2007. Geoscience and Remote Sensing. 45(4): 1029–1038. Online: http://www.treesearch.fs.fed.us/pubs/29032

Spatial and temporal variability in stream sediment loads using examples from the Gros Ventre Range, Wyoming, USA. Ryan, Sandra E.; Dixon, Mark K. 2007. In: Habersack, H.; Piégay, H.; Rinaldi, M., eds. Gravel-bed rivers VI: From process understanding to river restoration. Amsterdam, The Netherlands: Elsevier: DOI: 10.1016/S0928-2025(07)11134-2. Online: http://www.treesearch.fs.fed.us/pubs/29168

Fire, fuels, and smoke

Classifying and comparing spatial models of fire dynamics. Cary, Geoffrey J.; Keane, Robert E.; Flannigan, Mike D. 2007. iLEAPS Newsletter. 4: 26–27. Online: http://www.treesearch.fs.fed.us/pubs/28927

Cross-scale analysis of fire regimes. Falk, Donald A.; Miller, Carol; McKenzie, Donald; Black, Anne E. 2007. Ecosystems. 10: 809–823. Online: http://www.treesearch.fs.fed.us/pubs/29189

Determining landscape extent for succession and disturbance simulation modeling. Karau, Eva C.; Keane, Robert E. 2007. Landscape Ecology. 22: 993–1006. Online: http://www.treesearch.fs.fed.us/pubs/28931

Evaluation of linear spectral unmixing and deltaNBR for predicting post-fire recovery in a North American ponderosa pine forest. Smith, A.M.S.; Lenilte, L.B.; Hudak, A.T.; Morgan, P. 2007. International Journal of Remote Sensing. 28(22): 5159-5166. Online: http://www.treesearch.fs.fed.us/pubs/29028

Postfire soil burn severity mapping with hyperspectral image unmixing. Robichaud, Peter R.; Lewis, Sarah A.; Laes, Denise Y. M.; Hudak. Andrew T.; Kokaly, Raymond F.; Zamudio, Joseph A. 2007. Remote Sensing of the Environment. 108: 467–480. Online: http://www.treesearch.fs.fed.us/pubs/29030

Predicting postfire Douglas-fir beetle attacks and tree mortality in the northern Rocky Mountains. Hood, Sharon; Bentz, Barbara. 2007. Canadian Journal of Forest Research. 37: 1058–1069. Online: http://www.treesearch.fs.fed.us/pubs/28675

Prescribed fire in a Great Basin sagebrush ecosystem: Dynamics of soil extractable nitrogen and phosphorus. Rau, B. M.; Blank, R. R.; Chambers, J. C.; Johnson, D. W. 2007. Journal of Arid Environments. 71: 362–375. Online: http://www.treesearch.fs.fed.us/pubs/29171

Forests and woodland ecosystems

Aspen indicator species in lichen communities in the Bear River range of Idaho and Utah. Rogers, Paul C.; Rosentreter, Roger; Ryel, Ronald J. 2007. Evansia. 24(2): 34–41. Online: http://www.treesearch.fs.fed.us/pubs/28979

Defining old growth for fire-adapted forests of the Western United States. Kaufmann, Merrill R.; Binkley, Daniel; Fulé, Peter Z.; Johnson, Marlin; Stephens, Scott L.; Swetnam, Thomas W. 2007. Ecology and Society 12(2): article 15. Online: http://www.treesearch.fs.fed.us/pubs/29159

Factors influencing epiphytic lichen communities in aspen-associated forests of the Bear River Range, Idaho and Utah. Rogers, Paul C. 2007. Logan, UT: Utah State University. 166 p. Dissertation. Online: http://www.treesearch.fs.fed.us/pubs/29037

The influence of white pine blister rust on seed dispersal in whitebark pine. McKinney, Shawn T.; Tomback, Diana F. 2007. Canadian Journal of Forestry Research. 37(6): 1044–1057. Online: http://www.treesearch.fs.fed.us/pubs/28932

Interactions of elevation, aspect, and slope in models of forest species composition and productivity. Stage, Albert R.; Salas, Christian. 2007. Forest Science. 53(4): 486–492. Online: http://www.treesearch.fs.fed.us/pubs/29167

Monitoring the health of selected eastern arc forests in Tanzania. Madoffe, Seif; Hertel, Gerard D.; Rodgers [Rogers], Paul; O'Connel, Barbra [Barbara]; Killenga, Raymond. 2006. African Journal of Ecology. 44: 171–177. Online: http://www.treesearch.fs.fed.us/pubs/289780

The role of old-growth forests in frequent-fire landscapes. Binkley, Daniel; Sisk, Tom; Chambers, Carol; Springer, Judy; Block, William. 2007. Ecology and Society 12(2): article 18. Online: http://www.treesearch.fs.fed.us/pubs/29157

Grasslands, shrublands, and desert ecosystems

Establishing native plants in crested wheatgrass stands using successional management. Fansler, Valerie A. 2007. Corvallis, OR: Oregon State University. 95 p. Thesis. Online: http://www.treesearch.fs.fed.us/pubs/29158

Improving sustainable seed yield in Wyoming big sagebrush. Armstrong, Jeremiah C. 2007. Provo, UT: Brigham Young University. 29 p. Thesis. Online: http://www.treesearch.fs.fed.us/pubs/29035

Investigation into seed collection practices and shrub manipulations to improve sustainable seed yield in wildland stands of bitterbrush (*Purshia tridentata*). Roberts, F. Leland 2007. Provo, UT: Brigham Young University. 35 p. Thesis. Online: http://www.treesearch.fs.fed.us/pubs/29036

Nutrient availability in rangeland soils: Influence of prescribed burning, herbaceous vegetation removal, overseeding with *Bromus tectorum*, season, and elevation. Blank, R. R.; Chambers, J.; Roundy, B.; Whittaker, A. 2007. Rangeland Ecology & Management. 60(6): 644–655. Online: http://www.treesearch.fs.fed.us/pubs/29172

Prediction of cheatgrass field germination potential using wet thermal accumulation. Roundy, Bruce A.; Hardegree, Stuart P.; Chambers, Jeanne C.; Whittaker, Alison. 2007. Rangeland Ecology & Management. 60(6): 613–623. Online: http://www.treesearch.fs.fed.us/pubs/29170

Inventory monitoring and analysis

Evaluating kriging as a tool to improve moderate resolution maps of forest biomass. Freeman, Elizabeth A.; Moisen, Gretchen G. 2007.

Environmental Monitoring and Assessment. 128(1-3): 395–410. Online: http://www.treesearch.fs.fed.us/pubs/28960

Forest inventory and analysis in the United States: Remote sensing and geospatial activities. Photogrammetric Engineering and Remote Sensing. 73(7): 729–732. Nelson, Mark; Moisen, Gretchen; Finco, Mark; Brewer, Ken. 2007. Online: : http://www.treesearch.fs.fed.us/pubs/28959

Habitat classification modelling with incomplete data: Pushing the habitat envelope. Zarnetske, Phoebe L.; Edwards, Thomas C., Jr.; Moisen, Gretchen G. 2007. Ecological Applications. 17(6): 1714–1726. Online: http://www.treesearch.fs.fed.us/pubs/28958

Model-assisted estimation of forest resources with generalized additive models. Opsomer, Jean D.; Breidt, F. Jay; Moisen, Gretchen G.; Kauermann, Goran. 2007. Journal of the American Statistical Association. 102: 400-416. Online: http://www.treesearch.fs.fed.us/pubs/27694

Modeling forest bird species' likelihood of occurrence in Utah with Forest Inventory and Analysis and Landfire map products and ecologically based pseudo-absence points. Zarnetske, Phoebe L.; Edwards, Thomas C., Jr.; Moisen, Gretchen G. 2007. In: McRoberts, Ronald E.; Reams, Gregory A.; Van Deusen, Paul C.; McWilliams, William H., eds. Proceedings of the Seventh Annual Forest Inventory and Analysis Symposium; 2005 October 3–4; Portland, ME. Gen. Tech. Rep. WO-77. Washington, DC: U.S. Department of Agriculture, Forest Service: 291-306. Online: http://www.treesearch.fs.fed.us/pubs/289597

Reineke's Stand Density Index: Where are we and where do we go from here? Shaw, John D. 2006. In: Proceedings: Society of American Foresters 2005 National Convention. October 19–23, 2005, Ft. Worth, TX. Society of American Foresters, Bethesda, MD. CD-ROM. Online: http://www.treesearch.fs.fed.us/pubs/27705

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Distribution and broad-scale habitat relations of the wolverine in the contiguous United States. Aubry, Keith B.; McKelvey Kevin S.; Copeland Jeffrey P. 2007. Journal of Wildlife Management. 71(7): 2147–2158. Online: http://www.treesearch.fs.fed.us/pubs/28925

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Inferring geographic isolation of wolverines in California using historical DNA. Schwartz, Michael K.; Aubry, Keith B.; McKelvey, Kevin S.; Pilgrim, Kristine L.; Copeland, Jeffrey P.; Squires, John R.; Inman, Robert M.; Wisely, Samantha M.; Ruggiero, Leonard F. 2007. Journal of Wildlife Management, 71(7): 2170–2179. Online: http://www.treesearch.fs.fed.us/pubs/28936

Reproductive responses of northern goshawks to variable prey populations. Salafsky, Susan R.; Reynolds, Richard T.; Noon, Barry R.; Wiens, John A. 2007. Journal of Wildlife Management. 71(7): 2274–2283. Online: http://www.treesearch.fs.fed.us/pubs/28934

Seasonal habitat associations of the wolverine in central Idaho. Copeland, Jeffrey P.; Peek, James M.; Groves, Craig R.; Melquist, Wayne E.; McKelvey, Kevin S.; McDaniel, Gregory W.; Long, Clinton D.; Harris, Charles E. 2007. Journal of Wildlife Management. 71(7): 2201–2212. Online: http://www.treesearch.fs.fed.us/pubs/28928

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Changing relationships with wilderness: A new focus for research and stewardship. Dvorak, R. G.; Borrie, W. T. 2007. International Journal of Wilderness 13(3): 12–15. Online:http://www.treesearch.fs.fed.us/pubs/29190

Communication barriers to applying federal research in support of land management in the United States. Wright, V. 2007. In: Miner, Cynthia; Jacobs, Ruth; Dykstra, Dennis; Bittner, Becky, eds. 2007. Proceedings: international conference on transfer of forest science knowledge and technology. Gen. Tech. Rep. PNW-GTR-726. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station: 55–62. Online: http://www.treesearch.fs.fed.us/pubs/29184

Describing change in visitors and visits to the "Bob." Borrie, W. T.; McCool, S. F. 2007. International Journal of Wilderness. 13(3): 28–33. Online: http://www.treesearch.fs.fed.us/pubs/29191

Emerging adults and the future of wild nature. Zinn, H. C.; Graefe, A. R. 2007. International Journal of Wilderness 13(3): 16–22. Online: http://www.treesearch.fs.fed.us/pubs/29182

Giving voice to wildlands visitors: Selecting indicators to protect and sustain experiences in the Eastern Arctic of Nunavut. Watson, A.; Glaspell, B.; Christensen, N.; Lachapelle, P.; Sahanatien, V.; Gertsch, F. 2007. Environmental Management. 40: 880–888. Online: http://www.treesearch.fs.fed.us/pubs/29185

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The prevalence and significance of displacement for wilderness recreation management and research. Schneider, I. E. 2007. International Journal of Wilderness. 13(3): 23–27. Online: http://www.treesearch.fs.fed.us/pubs/29186

Scaling-up the minimum requirements analysis for big wilderness issues. Cole, David N. 2007. International Journal of Wilderness. 13(1): 8–12. Online: http://www.treesearch.fs.fed.us/pubs/27710

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