



# New Publications

April–June 2008

*Integrated Science Working For You*

Air, Water,  
& Aquatic  
Environments



Aldo Leopold  
Wilderness  
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Fire, Fuel,  
& Smoke



Forests &  
Woodlands  
Ecosystems



Grasslands,  
Shrublands,  
& Desert  
Ecosystems



Inventory,  
Monitoring,  
& Analysis



Human  
Dimensions



Wildlife  
& Terrestrial  
Habitats

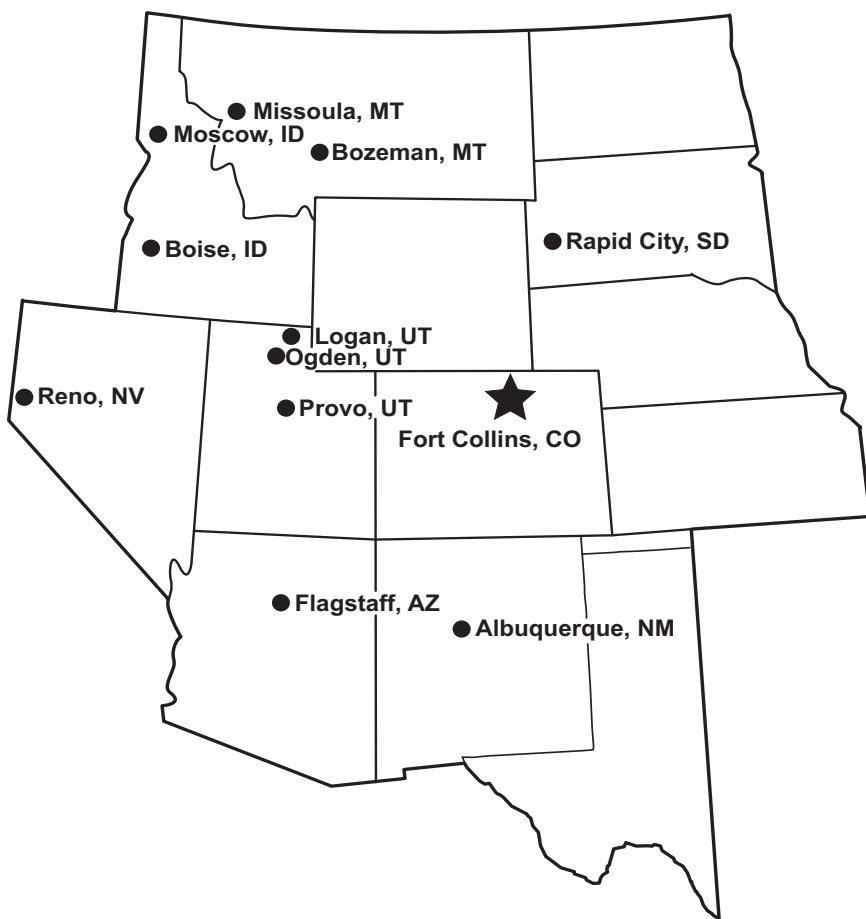


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## New RMRS Series Publications

### Western white pine ecosystems

Order 1



**Death of an ecosystem: perspectives on western white pine ecosystems of North America at the end of the twentieth century.** Harvey, Alan E.; Byler, James W.; McDonald, GERAL I.; Neuenschwander, Leon F.; Tonn, Jonalea R. 2008. Gen. Tech. Rep. RMRS-GTR-208. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 10 p.

The effective loss of western white pine (*Pinus monticola* Dougl.) in the white pine ecosystem has far-reaching effects on the sustainability of local forests and both regional and global forestry issues. Continuing trends in management of this forest type has the potential to put western white pine, as well as the ecosystem it once dominated, at very high risk in the future. Societal issues associated with natural resource management must be resolved early in the 21st century to allow restoration of this ecosystem so that the Interior Northwest's most productive forests can be sustainable at levels near their historical potential.

Online: [http://www.fs.fed.us/rm/pubs/rmrs\\_gtr208.html](http://www.fs.fed.us/rm/pubs/rmrs_gtr208.html)

### Geographic patterns of at-risk species

Order 2



**Geographic patterns of at-risk species: A technical document supporting the USDA Forest Service Interim Update of the 2000 RPA Assessment.** Flather, Curtis H.; Knowles, Michael S.; McNees, Jason. 2008. Gen. Tech. Rep. RMRS-GTR-211. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 21 p.

This technical document supports the Forest Service's requirement to assess the status of renewable natural resources as mandated by the Forest and Rangeland Renewable Resources Planning Act of 1974. It updates past reports on the trends and geographic patterns of species formally listed as threatened or endangered under the Endangered Species Act of 1973. We compare the geographic occupancy of threatened and endangered species at the county-level against the geographic occupancy of a broader set of species thought to be at risk of extinction. Here we document whether past trends and geographic occupancy patterns have changed over time.

Online: [http://www.fs.fed.us/rm/pubs/rmrs\\_gtr211.html](http://www.fs.fed.us/rm/pubs/rmrs_gtr211.html)

### SW rare and endangered plants

Order 3



**Southwestern rare and endangered plants: Proceedings of the Fourth Conference;** March 22–26, 2004; Las Cruces, New Mexico. Barlow-Irick, P.; Anderson, J.; McDonald, C., tech eds. 2007. Proceedings RMRS-P-48CD. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 135 p. CD

These contributed papers review the current status of plant conservation in the southwestern United States.

Online: [http://www.fs.fed.us/rm/pubs/rmrs\\_p048.html](http://www.fs.fed.us/rm/pubs/rmrs_p048.html)

### Fire effects on Gambel oak

Order 4



**Fire effects on Gambel oak in southwestern ponderosa pine-oak forests.** Abella, Scott R.; Fulé, Peter Z. 2008. Res. Note. RMRS-RN-34. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 6 p.

Gambel oak (*Quercus gambelii*) is ecologically and aesthetically valuable in southwestern ponderosa pine (*Pinus ponderosa*) forests. Fire effects on Gambel oak are important because fire may be used in pine-oak forests to manage oak directly or to accomplish other management objectives. We used published literature to: (1) ascertain historical fire regimes in pine-oak forests, (2) discern prescribed burning effects on Gambel oak survival and diameter growth, and (3) provide suggestions for using fire to manage oak. We conclude that fire can be used to manage Gambel oak densities and growth forms, and that large oaks can be maintained during low-intensity burning.

Online: [http://www.fs.fed.us/rm/pubs/rmrs\\_rn034.html](http://www.fs.fed.us/rm/pubs/rmrs_rn034.html)

## Surface fuel litterfall and decomposition

Order **5**



## Mexican spotted owls

Online only



**Surface fuel litterfall and decomposition in the northern Rocky Mountains, U.S.A.** Keane, Robert E. 2008. Res. Pap. RMRS-RP-70. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 22 p.

Surface fuel deposition and decomposition rates are important to fire management and research because they can define the longevity of fuel treatments in time and space and they can be used to design, build, test, and validate complex fire and ecosystem models useful in evaluating management alternatives. We determined rates of surface fuel litterfall and decomposition for a number of major forest types that span a wide range of biophysical conditions in the northern Rocky Mountains, U.S.A. Deposition and decomposition rates are summarized by plot, cover type, and habitat type series. We also present various temporal and spatial properties of litterfall and decomposition fluxes across the six fuel components.

Online: [http://www.fs.fed.us/rm/pubs/rmrs\\_rp070.html](http://www.fs.fed.us/rm/pubs/rmrs_rp070.html)

**Estimating canopy cover in forest stands used by Mexican spotted owls: Do stand-exam routines provide estimates comparable to field-based techniques?** Ganey, Joseph L.; Cassidy, Regis H.; Block, William M. 2008. Res. Pap. RMRS-RP-72WWW. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 8 p.

Canopy cover has been identified as an important correlate of Mexican spotted owl (*Strix occidentalis lucida*) habitat, yet management guidelines in a 1995 U.S. Fish and Wildlife Service recovery plan for the Mexican spotted owl did not address canopy cover. These guidelines emphasized parameters included in U.S. Forest Service stand exams, and canopy cover typically is not sampled in these inventories. Algorithms exist to estimate canopy cover from stand-exam data, but the accuracy of resulting estimates is unknown. We compared existing field data on observed canopy cover within forest stands used by radio-marked Mexican spotted owls with estimates derived from those analysis routines. Based on arbitrary criteria for minimum canopy cover, we also estimated proportions of these stands that would be misclassified by derived estimates. We conclude that existing algorithms for estimating canopy cover from stand-exam data are not useful in forest habitat for Mexican spotted owls.

Online: [http://www.fs.fed.us/rm/pubs/rmrs\\_rp072.html](http://www.fs.fed.us/rm/pubs/rmrs_rp072.html)

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### Air, water, and aquatic environments

**A comparison of coarse bedload transport measured with bedload traps and Helley Smith samplers.** Bunte, Kristin; Abt, Steven R.; Potyondy, John P.; Swingle, Kurt W. 2008. *Geodinamica Acta*. 21(1-2):53-66.

**The effects of climate change on agriculture, land resources, water resources, and biodiversity in the United States.** Walsh, Margaret, ed. 2008. Synthesis and Assessment Product 4.3. Washington, DC: U.S. Environmental Protection Agency, Climate Change Science Program. 362 p. Online: <http://www.climate-science.gov/Library/sap/sap4-3/final-report/default.htm#EntireReport>

**Executive summary.** Backlund, P.; Janetos, A.; Schimel, D.S.; Hatfield, J.; Ryan, M.G.; Archer, S.R.; Lettenmaier, D. 2008. In: Walsh, Margaret, ed. 2008. The effects of climate change on agriculture, land resources, water resources, and biodiversity in the United States. Synthesis and Assessment Product 4.3. Washington, DC: U.S. Environmental Protection Agency, Climate Change Science Program: 1-10. Online: <http://www.climate-science.gov/Library/sap/sap4-3/final-report/default.htm#EntireReport>

**Foliar and ecosystem respiration in an old-growth tropical rain forest.** Cavaleri, Molly A.; Oberbauer, Steven F.; Ryan, Michael G. 2008. *Plant, Cell and Environment*. 31: 473–483. Online: <http://www.treesearch.fs.fed.us/pubs29758>

**Forest disturbance and North American carbon flux.** Goward, S.N.; Masek, J.G.; Cohen, W.; Moisen, G.; Collatz, G.J.; Healey, S.; Houghton, R.A.; Huang, C.; Kennedy, R.; Law, B.; Powell, S.; Turner, D.; Wulder, M.A. 2008. *EOS, Transactions, American Geophysical Union*. 89(11): 105–116. Online: <http://www.treesearch.fs.fed.us/pubs29859>

**Infiltration, erosion, and vegetation recovery following road obliteration.** Foltz, Randy B.; Rhee, Hakjun; Yanosek, Kristina A. 2007. *Transactions of ASABE*. 50(6): 1937–1943. Online: <http://asae.frymulti.com/abstract.asp?aid=24089&t=>

**Introduction.** Backlund, P.; Schimel, D.; Janetos, A.; Hatfield, J.; Ryan, M.G.; Archer, S.R.; Lettenmaier, D. 2008. In: Walsh, Margaret, ed. 2008. The effects of climate change on agriculture, land resources, water resources, and biodiversity in the United States. Synthesis and Assessment Product 4.3. Washington, DC: U.S. Environmental Protection Agency, Climate Change Science Program: 11-20. Online: <http://www.climate-science.gov/Library/sap/sap4-3/final-report/default.htm#EntireReport>

**Land resources.** Ryan, M.G.; Archer, S.R.; Birdsey, R.A.; Dahm, C.N.; Heath, L.S.; Hicke, J.A.; Hollinger, D.Y.; Huxman, T.E.; Okin, G.S.; Oren, R.; Randerson, J.T.; Schlesinger, W.H. 2008. In: Walsh, Margaret, ed. 2008. The effects of climate change on agriculture, land resources, water resources, and biodiversity in the United States. Synthesis and Assessment Product 4.3. Washington, DC: U.S. Environmental Protection Agency, Climate Change Science Program: 75-120. Online: <http://www.climate-science.gov/Library/sap/sap4-3/final-report/default.htm#EntireReport>

**Sediment concentration and turbidity changes during culvert removals.** Foltz, Randy B.; Yanosek, Kristina A.; Brown, Timothy M. 2008. *Journal of Environmental Management*. 87: 329–340.

**Synthesis.** Schimel, D.; Janetos, A.; Backlund, P.; Hatfield, J.; Ryan, M.G.; Archer, S.R.; Lettenmaier, D. 2008. In: Walsh, Margaret, ed. 2008. The effects of climate change on agriculture, land resources, water resources, and biodiversity in the United States. Synthesis and Assessment Product 4.3. Washington, DC: U.S. Environmental Protection Agency, Climate Change Science Program: 183-193. Online: <http://www.climate-science.gov/Library/sap/sap4-3/final-report/default.htm#EntireReport>

**Synoptic climatology of the long-distance dispersal of white pine blister rust I. Development of an upper level synoptic classification.** Frank, K.L.; Kalkstein, L.S.; Geils, B.W.; Thistle, H.W., Jr. 2008. *International Journal of Biometeorology*: DOI 10.1007/s/00484-008-0157-4. Online: <http://www.springerlink.com/content/d0g8563u54857673/fulltext.pdf>

**Synoptic climatology of the long-distance dispersal of white pine blister rust II. Combination of surface and upper-level conditions.** Frank, K. L.; Geils, B.W.; Kalkstein, L.S.; Thistle, H.W., Jr. 2008. *International Journal of Biometeorology*: DOI 10.1007/s/00484-008-0158-3. Online: <http://www.springerlink.com/content/22gn41140h5x2507/fulltext.pdf>

### Fire, fuel, and smoke

**Assessing wildfire risks at multiple spatial scales.** Fitch, Justin. 2008. Las Cruces, NM: New Mexico State University. 69 p. Thesis.

**Decades-old silvicultural treatments influence surface wildfire severity and post-fire nitrogen availability in a ponderosa pine forest.** Lezberg, Ann L.; Battaglia, Michael A.; Shepperd, Wayne D.; Schoettle, Anna W. 2008. *Forest Ecology and Management*. 255: 49-61. Online: <http://www.treesearch.fs.fed.us/pubs/29478>

**Factors in United States Forest Service district rangers' decision to manage a fire for resource benefit.** Williamson, Martha A. 2007. *International Journal of Wildland Fire*. 16(6): 755–762. Online: [http://www.publish.csiro.au/?act=view\\_file&file\\_id=WF06019.pdf](http://www.publish.csiro.au/?act=view_file&file_id=WF06019.pdf)

**Fine-scale variation of historical fire regimes in sagebrush-steppe and juniper woodland: An example from California, USA.** Miller, Richard F.; Heyerdahl, Emily K. 2008. *International Journal of Wildland Fire*. 17: 245-254. Online: [http://www.publish.csiro.au/?act=view\\_file&file\\_id=WF07016.pdf](http://www.publish.csiro.au/?act=view_file&file_id=WF07016.pdf)

**Multi-season climate synchronized forest fires throughout the 20th century, northern Rockies, USA.** Morgan, Penelope; Heyerdahl, Emily K.; Gibson, Carly E. 2008. *Ecology*. 89(3): 717-728. Online: <http://www.esajournals.org/archive/0012-9658/89/3/pdf/i0012-9658-89-3-705.pdf>

**Prescribed fire, soil, and plants: Burn effects and interactions in the central Great Basin.** Rau, Benjamin M.; Chambers, Jeanne C.;

Blank, Robert R.; Johnson, Dale W. 2008. Rangeland Ecology and Management. 61(2): 169–181. Online: <http://www.treeseearch.fs.fed.us/pubs29551>

**Scientist contributions.** Blank, R.; Burkhardt, W.; Chatterton, J.; Dollarhide, W.; James, L.; Klebenow, D.; Krueger, W.; Leonard, S.; Miller, E.; Rimbey, N.; Sanders, K.; Swanson, S.; Tausch, R.; Tueller, P.; West, N.; Young, J. 2008. In: Miller, E.; Narayanan, R., eds. Great Basin wildfire forum: The search for solutions. Reno, NV: University of Nevada, Nevada Agricultural Experiment Station: 12–37. Online: <http://www.cabnr.unr.edu/naes/wildfireforum.pdf>

**Simulation of the consequences of different fire regimes to support wildland fire use decisions.** Miller, C. 2007. Fire Ecology. 3(2): 83–102. Online: [http://www.fireecology.net/journal/Vol%203/No%202/3\(2\)%20Miller.pdf](http://www.fireecology.net/journal/Vol%203/No%202/3(2)%20Miller.pdf)

**Wild-urban interface resident's views on risk and attribution.** Cohn, Patricia J.; Williams, Daniel R.; 2007. In: Martin, Wade E.; Raish, Carol; Kent, Brian, eds. Wildfire risk: Human perceptions and management implications. Washington, DC: Resources for the Future, RFF Press.: 23–43. Online: <http://www.treeseearch.fs.fed.us/pubs29427>

## Forests and woodlands ecosystems

**Ceratonia siliqua L. Carob.** Shepperd, Wayne D. 2008. In: Bonner, F.T.; Karrfalt, R.P., eds. The woody plant seed manual. Agric. Handbook No. 727. Washington, DC. U.S. Department of Agriculture, Forest Service. Online: [http://www.nsl.fs.fed.us/nsl\\_wpsm.html](http://www.nsl.fs.fed.us/nsl_wpsm.html)

**The FRAME Project: A collaborative modeling approach to natural resource management at Mesa Verde National Park.** Turner, C. E.; Romme, W. H.; Chew, J.; Miller, M.E.; Leavesley, G.; Floyd-Hanna, L.; San Miguel, G.; Cobb, N.; Zirbes, R.; Viger, R.; Ironside, K. 2008. In: van Riper, Charles, III; Sogge, Mark K., eds. The Colorado Plateau III: Integrating research and resources management for effective conservation. Tucson: The University of Arizona Press: 23–41. Online: [http://sbsc.wr.usgs.gov/products/pdfs/Turner\\_et\\_al\\_2007.pdf](http://sbsc.wr.usgs.gov/products/pdfs/Turner_et_al_2007.pdf)

**Garrya Dougl. Silktassel.** Shepperd, Wayne D. 2008. In: Bonner, F.T.; Karrfalt, R.P., eds. The woody plant seed manual. Agric. Handbook No. 727. Washington, DC. U.S. Department of Agriculture, Forest Service. Online: [http://www.nsl.fs.fed.us/nsl\\_wpsm.html](http://www.nsl.fs.fed.us/nsl_wpsm.html)

**The geography of private forests that support at-risk species in the conterminous United States.** Robles, Marcos D.; Flather, Curtis H.; Stein, Susan M.; Nelson, Mark D.; Cutko, Andrew. 2008. Frontiers in Ecology and the Environment. 6: doi:10.1890/070106. Online: <http://www.treeseearch.fs.fed.us/pubs29922>

**Ginkgo biloba L. Ginkgo, maidenhair-tree, or Kew-tree.** Shepperd, Wayne D. 2008. In: Bonner, F.T.; Karrfalt, R.P., eds. The woody plant seed manual. Agric. Handbook No. 727. Washington, DC. U.S. Department of Agriculture, Forest Service. Online: [http://www.nsl.fs.fed.us/nsl\\_wpsm.html](http://www.nsl.fs.fed.us/nsl_wpsm.html)

**Influence of host resistance on the genetic structure of the white pine blister rust fungus in the Western United States.** Richardson, B.A.; Klopfenstein, N.B.; Zambino, P.J.; McDonald, G.L.; Geils, B.W.; Carris, L.M. 2008. Phytopathology. 98: 413–420. Online: <http://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-98-4-0413?cookieSet=1>

**Preparing the landscape for invasion—Early intervention approaches for threatened high elevation white pine ecosystems.** Schoettle A.W.; Snieszko, R.A.; Burns, K.S.; Freeman, F. 2007. In: Goheen, E.M.; Snieszko, R.A., tech. coords. Proceedings of the conference Whitebark Pine: a Pacific Coast Perspective. 2006 Aug 27–31, Ashland OR.

R6-NR-FHP-2007-01. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region: 72–75. Online: <http://www.treeseearch.fs.fed.us/pubs/29501>

**Proactive intervention to sustain high-elevation pine ecosystems threatened by white pine blister rust.** Schoettle, Anna W.; Snieszko, Richard A. 2007. Journal of Forest Research. 12: 327–336. Online: <http://www.treeseearch.fs.fed.us/pubs/29500>

**Rapid mortality of Populus tremuloides in southwestern Colorado, USA.** Worrall, J.J.; Egeland, L.; Eager, T.; Mask, R.A.; Johnson, E.W.; Kemp, P.A.; Shepperd, W.D. 2008. Forest Ecology and Management. 255(3–4): 686–696. Online: [http://www.fs.fed.us/r2/fhm/reports/sad\\_2008.pdf](http://www.fs.fed.us/r2/fhm/reports/sad_2008.pdf)

**Susceptibility of ponderosa pine, Pinus ponderosa (Dougl. Ex Laws.), to mountain pine beetle, Dendroctonus ponderosae Hopkins, attack in uneven-aged stands in the Black Hills of South Dakota and Wyoming USA.** Negrón, José F.; Allen, Kurt; Cook, Blaine; Withrow, John R., Jr. 2008. Forest Ecology and Management. 254: 327–334. Online: <http://www.treeseearch.fs.fed.us/pubs/29477>

**Tamarix chinensis Lour. Saltcedar, or five-stamen tamarisk.** Shepperd, Wayne D. 2008. In: Bonner, F.T.; Karrfalt, R.P., eds. The woody plant seed manual. Agric. Handbook No. 727. Washington, DC. U.S. Department of Agriculture, Forest Service. Online: [http://www.nsl.fs.fed.us/nsl\\_wpsm.html](http://www.nsl.fs.fed.us/nsl_wpsm.html)

**Traps and attractants for wood-boring insects in ponderosa pine stands in the Black Hills, South Dakota.** Costello, Sheryl L.; Negrón, José F.; Jacobi, William R. 2008. Journal of Economic Entomology. 101(2): 409–420. Online: <http://www.bioone.org/archive/0022-0493/101/2/pdf/i0022-0493-101-2-409.pdf>

## Grasslands, shrublands, and desert ecosystems

**The 'Appar' flax release: Origin, distinguishing characteristics, and use; and a native alternative.** Pendleton, Rosemary L.; Kitchen, Stanley G.; McArthur, E. Durant; Mudge, Joann E. 2008. Native Plants Journal. 9(1): 18–24.

**Beneficial fungal interactions resulting in accelerated germination of Astragalus utahensis, a hard-seeded legume.** Eldredge, Sean D. 2007. Provo, UT: Brigham Young University. 99 p. Thesis. Online: <http://www.treeseearch.fs.fed.us/pubs29754>

**Competition for soil nitrate and invasive weed resistance of three shrub-steppe growth forms.** Leonard, Eamonn D. 2007. Logan, UT: Utah State University. 78 p. Thesis. Online: <http://www.treeseearch.fs.fed.us/pubs/29752>

**DNA barcoding of western North American taxa: Leymus (Poaceae) and Lepidium (Brassicaceae).** Culumber, Catherine Mae. 2007. Logan, UT: Utah State University. 100 p. Thesis. Online: <http://www.treeseearch.fs.fed.us/pubs/29755>

**DNA markers and gene expression polymorphisms associated with growth habit quantitative trait loci in Leymus wildryes.** Kaur, Parminder. 2007. Logan, UT: Utah State University. 128 p. Dissertation. Online: <http://www.treeseearch.fs.fed.us/pubs/29753>

**Evolutionary and ecological implications of genome size in the North American endemic sagebrushes and allies (Artemisia, Asteraceae).** Garcia, Sônia; Canela, Miguel Á.; Garnatje, Teresa; McArthur, E. Durant; Pellicer, Jaume; Sanderson, Stewart C.; Valles, Joan. 2008. Biological Journal of the Linnean Society. 94: 631–649.

**Fire, native species, and soil resource interactions influence the spatio-temporal invasion pattern of *Bromus tectorum*.** Gundale, Michael J.; Sutherland, Steve; DeLuca, Thomas H. 2008. *Ecography*. 31: 201–210. Online: <http://www.blackwell-synergy.com/doi/abs/10.1111/j.0906-7590.2008.5303.x>

**Forage adaptability trials for forage and seed production in Bolivia; effect of 5 herbicides on 7 native Utah forbs.** Voss, Joshua. 2006. Provo, UT: Brigham Young University. 86 p. Thesis. Online: <http://www.treeseearch.fs.fed.us/pubs29757>

**Potential of basalt milkvetch (*Astragalus filipes* Torr. Ex A. Gray) populations and rhizobial strains for revegetation and restoration of Intermountain West rangelands.** Bhattarai, Kishor. 2007. Logan, UT: Utah State University. 116 p. Thesis. Online: <http://www.treeseearch.fs.fed.us/pubs/29756>

**Seed production of native forbs shows little response to irrigation in a wet year.** Shock, Clinton C.; Feibert, Erik B. G.; Saunders, Lamont D.; Shaw, Nancy; DeBolt, A. 2007. Corvallis, OR: Oregon State University Agricultural Experiment Station. Special Report 1075: 13–20. Online: <http://www.treeseearch.fs.fed.us/pubs29521>

**Soil nitrogen mineralization not affected by grass species traits.** Nosshi, Maged Ikram; Butler, Jack; Trlica, M. J. 2007. *Soil Biology & Biochemistry*. 39: 1031–1039. Online: <http://www.treeseearch.fs.fed.us/pubs/27811>

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