



New Publications

April to June 2011

Integrated Science Working for You

Air, Water,
and Aquatic
Environments



Fire, Fuel,
and Smoke



Forest and
Woodland
Ecosystems



Grasslands,
Shrublands,
and Desert
Ecosystems



Human
Dimensions



Inventory,
Monitoring,
and Analysis



Wildlife
and Terrestrial
Habitats



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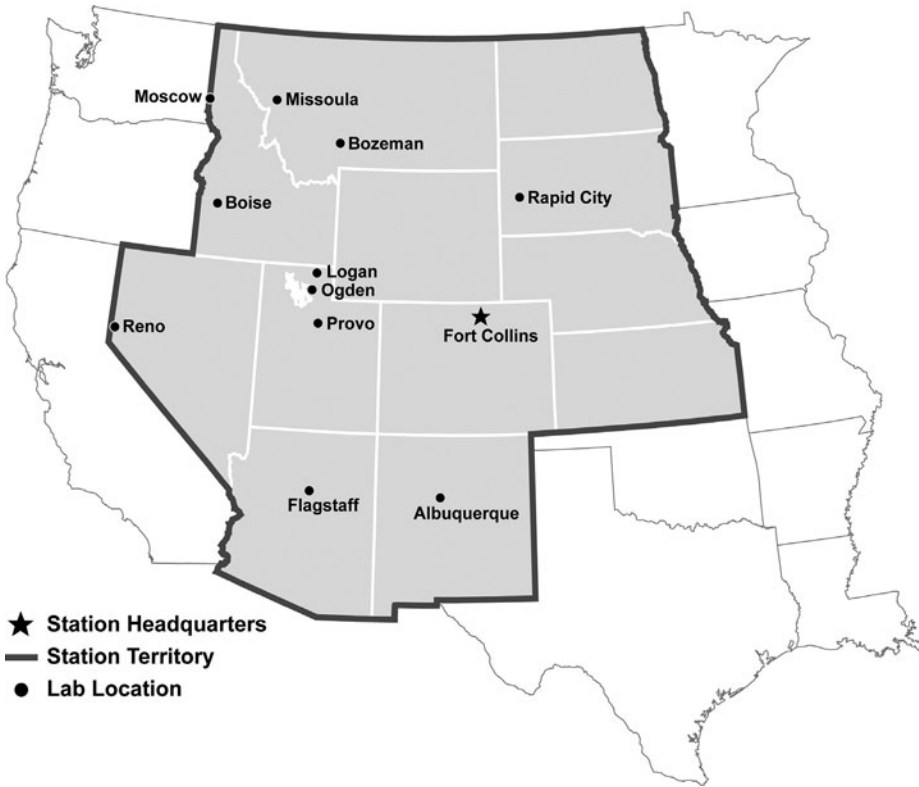
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New RMRS Series Publications

Mexican spotted owls: Status in Upper Gila Mountain recovery unit

Online only

Status and ecology of Mexican spotted owls in the Upper Gila Mountains recovery unit, Arizona and New Mexico. Ganey, Joseph L.; Ward, James P. Jr.; Willey, David W. 2011. Gen. Tech. Rep. RMRS-GTR-256WWW. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 94 p.

This report summarizes current knowledge on the status and ecology of the Mexican spotted owl within the Upper Gila Mountains Recovery Unit (UGM RU). It was written at the request of U.S. Forest Service personnel involved in the Four Forests Restoration Initiative (4FRI), a collaborative, landscape-scale restoration effort covering approximately 2.4 million ac (1 million ha) across all or part of four National Forests (Apache-Sitgreaves, Coconino, Kaibab, and Tonto National Forests) located within the UGM RU. The UGM RU supports >50% of the known population of Mexican spotted owls, and the central location of the UGM RU within the overall range of the owl appears to facilitate gene flow throughout that range. Consequently, the UGM population is viewed as important to stability within the overall range of the owl, and management that impacts owls within the UGM RU could affect owl populations beyond that RU.

Online: http://www.fs.fed.us/rm/pubs/rmrs_gtr256.html

Vulnerability of species to climate change

Order 12

A system for assessing vulnerability of species (SAVS) to climate change. Bagne, Karen E.; Friggens, Megan M.; Finch, Deborah M. 2011. Gen. Tech. Rep. RMRS-GTR-257. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 28 p.

The System for Assessing Vulnerability of Species (SAVS) identifies the relative vulnerability or resilience of vertebrate species to climate change. Designed for managers, the SAVS is an easily applied tool that uses a questionnaire of 22 predictive criteria to create vulnerability scores. The user scores species' attributes relating to potential vulnerability or resilience associated with projections for their region. The SAVS provides a framework for integrating new information into the climate change assessment process.

Online: http://www.fs.fed.us/rm/pubs/rmrs_gtr257.html

Five-needle white pines: Symposium proceedings

Order 13

The future of high-elevation, five-needle white pines in Western North America: Proceedings of the High Five Symposium; 28-30 June 2010; Missoula, MT. Keane, Robert E.; Tomback, Diana F.; Murray, Michael P.; and Smith, Cyndi M., eds. 2011. Proceedings RMRS-P-63. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 376 p.

These proceedings present reports of some of the presentations given at the High Five symposium, a comprehensive International symposium held to: (1) bring together scientists, managers, and concerned citizens to exchange information on the ecology, threats, and management of High elevation five-needle pines; 2) learn about the threats and current status of pine populations; (3) describe efforts to mitigate threats through restoration techniques and action plans; and, (4) build a foundation for the synthesis of research efforts and management approaches.

Online: http://www.fs.fed.us/rm/pubs/rmrs_p063.html

QuickBird imagery to detect cover and spread of post-fire straw mulch

Order 14

Estimating historical density of ponderosa pine

Order 15

Gleasonian landscape ecology

Order 16

Rodeo-Chediski Wildfire's impacts

Order 17

Using QuickBird imagery to detect cover and spread of post-fire straw mulch after the 2006 Tripod Fire, Washington, USA. Lewis, Sarah A.; Robichaud, Peter R. 2011. Res. Note RMRS-RN-43. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 9 p.

Agricultural straw mulch is a commonly applied treatment for protecting resources at risk from runoff and erosion events after wildfires. High-resolution QuickBird satellite imagery was acquired after straw mulch was applied on the 2006 Tripod Fire in Washington. We tested whether the imagery was suitable for remotely assessing the areal coverage of the straw mulch treatment. Our results encourage further exploration of the use of high-resolution imagery for research applications and postfire management.

Online: http://www.fs.fed.us/rm/pubs/rmrs_rn043.html.

Using a terrestrial ecosystem survey to estimate the historical density of ponderosa pine trees. Abella, Scott R.; Denton, Charles W.; Brewer, David G.; Robbie, Wayne A.; Steinke, Rory W.; Covington, W. Wallace. 2011. Res. Note. RMRS-RN-45. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 9 p.

Maps of historical tree densities for project areas and landscapes may be useful for a variety of management purposes such as determining site capabilities and planning forest thinning treatments. We used the U.S. Forest Service Region 3 terrestrial ecosystem survey in a novel way to determine if the ecosystem classification is a useful a guide for estimating historical (1880) ponderosa pine (*Pinus ponderosa*) tree densities on a northern Arizona landscape.

Online: http://www.fs.fed.us/rm/pubs/rmrs_rn045.html

Toward Gleasonian landscape ecology: From communities to species, from patches to pixels. Cushman, Samuel A.; Evans, Jeffrey S.; McGarigal, Kevin; Kiesecker, Joseph M. 2010. Res. Pap. RMRS-RP-84. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 12 p.

We evaluate the sufficiency of several patch-based representations of vegetation at the landscape level to explain the composition of the plant community. Classified vegetation maps all performed poorly in explaining the composition and structure of forest trees among plots. Different categorical vegetation maps provided largely independent explanations of species variability. Individual species models based on spectral, topographic, and climatic variables vastly out-performed those produced using the classified maps.

Online: http://www.fs.fed.us/rm/pubs/rmrs_rp084.html.

The 2002 Rodeo-Chediski Wildfire's impacts on southwestern ponderosa pine ecosystems, hydrology, and fuels. Ffolliott, Peter F.; Stropki, Cody L.; Chen, Hui; Neary, Daniel G. 2011. Res. Pap. RMRS-RP-85. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 36 p.

The Rodeo-Chediski Wildfire burned nearly 462,600 acres in north-central Arizona in the summer of 2002. The wildfire damaged or destroyed ecosystem resources and disrupted the hydrologic functioning within the impacted ponderosa pine (*Pinus ponderosa*) forests in a largely mosaic pattern. Impacts of the wildfire on ecosystem resources, factors important to hydrologic functioning, peak stormflow events and water quality constituents, and loadings of flammable fuels were evaluated on two watersheds in a ponderosa pine forest that was exposed to the burn—one experienced a high severity (stand-replacing) fire (Watershed A), and the other was exposed to only a low severity (stand-modifying) fire (Watershed B).

Online: http://www.fs.fed.us/rm/pubs/rmrs_rp085.html.

Fire effects in oak savannas

Order 18

Fire effects on tree overstories in the oak savannas of the Southwestern Borderlands Region. Ffolliott, Peter F.; Gottfried, Gerald J.; Stropki, Cody L.; Chen, Hui; Neary, Daniel G. 2011. Res. Pap. RMRS-RP-86. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 13 p.

Effects of cool-season and warm-season prescribed burning treatments and a wildfire on tree overstories in oak savannas on the Cascabel Watersheds of the Southwestern Borderlands Region are reported in this paper. Information on the initial survival, levels of crown damage, species compositions and densities, annual growth rates, and basal sprouting following these burning events is presented. Impact of the fires on spatial distributions of trees in the overstories is also described.

Online: http://www.fs.fed.us/rm/pubs/rmrs_rp086.html.

Understory vegetation data quality assessment

Order 19

Understory vegetation data quality assessment for the Interior West Forest and Inventory Analysis program. Patterson, Paul L.; O'Brien, Renee A. 2011. Res. Pap. RMRS-RP-87. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 9 p.

The Interior West Forest Inventory and Analysis (IW-FIA) program of the USDA Forest Service collects field data on understory vegetation structures that have broad applications. In IW-FIA one aspect of quality assurance is assessed based on the repeatability of field measurements. The protocols used to collect the data analyzed in this paper are specific to IW-FIA. A standardized national understory vegetation procedure that is very similar to the IW-FIA procedure described here will be implemented in 2011 for all FIA units.

Online: http://www.fs.fed.us/rm/pubs/rmrs_rp087.html.

Response of ponderosa pine stands to pre-commercial thinning

Order 20

Response of ponderosa pine stands to pre-commercial thinning on Nez Perce and Spokane Tribal forests in the Inland Northwest, USA. Ferguson, Dennis E.; Byrne, John C.; Wykoff, William R.; Kummet, Brian; Hensold, Ted. 2011. Res. Pap. RMRS-RP-88. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 33 p.

Stands of dense, natural ponderosa pine (*Pinus ponderosa* var. *ponderosa*) regeneration were operationally, precommercially thinned at seven sites—four on Nez Perce Tribal lands in northern Idaho and three on Spokane Tribal lands in eastern Washington. Five spacing treatments were studied. Sample trees were measured pre- and post-thinning, 3 yrs after thinning, and 5 yrs after thinning, starting in 1997 (Nez Perce sites) and 1998 (Spokane sites).

Online: http://www.fs.fed.us/rm/pubs/rmrs_rp088.html.

Timber harvest systems: Detrimental soil disturbance

Order 21

Detrimental soil disturbance associated with timber harvest systems on National Forests in the Northern Region. Reeves, Derrick; Page-Dumroese, Deborah; Coleman, Mark. 2011. Res. Pap. RMRS-RP-89. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 12 p.

The objectives of this study were to collate post-harvest soil monitoring data and to statistically document the areal extent of DSD resulting from timber harvest systems in the Northern Region. Current and legacy post-harvest soil monitoring data on National Forests throughout the Northern Region were collected to determine whether timber harvest systems (ground-based, skyline, or helicopter) used in the Northern Region result in DSD levels in excess of the mandated 15% areal extent. Despite significant differences in the amount of DSD resulting from similar timber harvest systems, none of the harvest systems that we evaluated on the National Forests consistently resulted in mean disturbance levels in excess of the 15% areal extent threshold.

Online: http://www.fs.fed.us/rm/pubs/rmrs_rp089.html

Journals and Other Publications

Obtain the following publications through university libraries, the publisher, or other outlets. Forest Service employees may request these items from the National Forest Service Library at FSLibrary-DocsFC@fs.fed.us or telephone: (970) 498-1205. We have also provided links to electronic copies when available.

Air, water, and aquatic environments

Combined effects of heat waves and droughts on avian communities across the conterminous United States. Albright, Thomas P.; Pidgeon, Anna M.; Rittenhouse, Chadwick D.; Clayton, Murray K.; Wardlow, Brian D.; Flather, Curtis H.; Culbert, Patrick D.; Radeloff, Volker C. 2010. *Ecosphere*. 1(5): 22 p.

Differential responses of production and respiration to temperature and moisture drive the carbon balance across a climatic gradient in New Mexico. Anderson-Teixeira, Kristina J.; Delong, John P.; Fox, Andrew M.; Brese, Daniel A.; Litvak, Marcy E. 2011. *Global Change Biology*. 17: 410-424. Online: <http://www.treesearch.fs.fed.us/pubs/37968>.

Effects of wildfire on stream temperatures in the Bitterroot River basin, Montana. Mahlum, Shad K.; Eby, Lisa A.; Young, Michael K.; Clancy, Chris G.; Jakober, Mike. 2011. *International Journal of Wildland Fire*. 20: 240-247. Online: <http://www.treesearch.fs.fed.us/pubs/37519>.

Empirical downscaling of daily minimum air temperature at very fine resolutions in complex terrain. Holden, Zachary A.; Abatzoglou, John T.; Luce, Charles H.; Baggett, L. Scott. 2011. *Agricultural and Forest Meteorology*. 151: 1066-1073.

Impacts of wildfire on runoff and sediment loads at Little Granite Creek, western Wyoming. Ryan, Sandra E.; Dwire, Kathleen A.; Dixon, Mark K. 2011. *Geomorphology*. 129: 113-130. Online: <http://www.treesearch.fs.fed.us/pubs/37604>.

Influence of bedrock geology on water chemistry of slope wetlands and headwater streams in the southern Rocky Mountains. Nelson, Monique LaPerriere; Rhoades, Charles C.; Dwire, Kathleen A. 2011. *Wetlands*. 31:251-261.

Tree responses to drought. Ryan, Michael G. 2011. *Tree Physiology* 31: 237-239. Online: <http://www.treesearch.fs.fed.us/pubs/37684>.

Vulnerability of amphibians to climate change: implications for rangeland management. Bagne, Karen E.; Finch, Deborah M.; Friggens, Megan M. 2011. In: Feldman, Susana R.; Oliva, Gabriel E.; Sacido, Monica B., eds. IX International Rangeland Congress: Diverse Rangelands for a Sustainable Society; April 3-10, 2011; Rosario, Argentina. IRC2001 Congress: 159. Online: <http://www.treesearch.fs.fed.us/pubs/37692>.

Wetland features and landscape context predict the risk of wetland habitat loss. Gutzwiller, Kevin J.; Flather, Curtis H. 2011. *Ecological Applications*. 21(3): 968-982

Fire, fuel, and smoke

Effects of wildfire on stream temperatures in the Bitterroot River basin, Montana. Mahlum, Shad K.; Eby, Lisa A.; Young,

Michael K.; Clancy, Chris G.; Jakober, Mike. 2011. *International Journal of Wildland Fire*. 20: 240-247. Online: <http://www.treesearch.fs.fed.us/pubs/37519>.

Fire effects on the mobilization and uptake of nitrogen by cheatgrass (*Bromus tectorum* L.). Johnson, Brittany G.; Johnson, Dale W.; Chambers, Jeanne C.; Blank, Robert R. 2011. *Plant Soil*. 341: 437-445. Online: <http://www.treesearch.fs.fed.us/pubs/37475>.

Late Holocene geomorphic record of fire in ponderosa pine and mixed-conifer forests, Kendrick Mountain, northern Arizona, USA. Jenkins, Sara E.; Sieg, Carolyn Hull; Anderson, Diana E.; Kaufman, Darrel S.; Pearthree, Philip A. 2011. *International Journal of Wildland Fire*. 20: 125-141.

Using hyperspectral imagery to estimate forest floor consumption from wildfire in boreal forests of Alaska, USA. Lewis, Sarah A.; Hudak, Andrew T.; Ottmar, Roger D.; Robichaud, Peter R.; Lentile, Leigh B.; Hood, Sharon M.; Cronan, James B.; Morgan, Penny. 2011. *International Journal of Wildland Fire*. 20: 255-271. Online: <http://www.treesearch.fs.fed.us/pubs/37505>.

Forest and woodland ecosystems

Allometry, nitrogen status, and carbon stable isotope composition of *Pinus ponderosa* seedlings in two growing media with contrasting nursery irrigation regimes. Dumroese, R. Kasten; Page-Dumroese, Deborah S.; Brown, Robert E. 2011. *Canadian Journal of Forest Research*. 41: 1091-1101. Online: <http://www.treesearch.fs.fed.us/pubs/37877>.

Baboquivari Mountain plants: Identification, ecology, and ethnobotany [book review]. Pendleton, Rosemary L. 2011. *Native Plants*. 12(1): 75. Online: <http://www.treesearch.fs.fed.us/pubs/37967>.

Establishment and growth of container seedlings for reforestation: A function of stocktype and edaphic conditions. Pinto, Jeremiah R.; Marshall, John D.; Dumroese, R. Kasten; Davis, Anthony S.; Cobos, Douglas R. 2011. *Forest Ecology and Management*. 261: 1876-1884. Online: <http://www.treesearch.fs.fed.us/pubs/37966>.

Forest resources of the Clearwater National Forest. Hughes, Ryan P. 2011. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 13 p. Online: <http://www.treesearch.fs.fed.us/pubs/37603>.

Hydrologic, abiotic and biotic interactions: Plant density, windspeed, leaf size and groundwater all affect oak water use efficiency. Law, Darin J.; Finch, Deborah M. 2010. *Ecophysiology*. doi: 10.1002/eco.172. Online: <http://www.treesearch.fs.fed.us/pubs/37964>.

Maintaining adequate nutrient supply: Principles, decision-support tools, and best management practices. Harrison, Robert B.; Maguire, Douglas A.; Page-Dumroese, Deborah. 2011. In: Angima, Sam D.; Terry, Thomas A., eds. Best management practices for maintaining soil productivity in the Douglas-fir region. Corvallis, OR; Oregon State University Extension Service: 33-42. Online: <http://www.treesearch.fs.fed.us/pubs/37520>.

Modeling the height of young forests regenerating from recent disturbances in Mississippi using Landsat and ICESat data. Li, Ainong; Huang, Chengquan; Sun, Guoqing; Shi, Hua; Toney, Chris; Zhu, Zhiliang; Rollins, Matthew G.; Goward, Samuel N.; Masek, Jeffrey G. 2011. *Remote Sensing of Environment*. 115(8): 1837-1849. Online: <http://www.treesearch.fs.fed.us/pubs/38065>.

Roads impact the distribution of noxious weeds more than restoration treatments in a lodgepole pine forest in Montana, U.S.A. Birdsall, Jennifer L.; McCaughey, Ward; Runyon, Justin B. 2011. *Restoration Ecology*. 19. Online: <http://www.treesearch.fs.fed.us/pubs/37963>.

Grassland, shrubland, and desert ecosystems

Abundance of wind scorpions (Solifugae: Eremobatidae) in riparian forests disturbed by grazing, fire, and flood in Central New Mexico, USA. Smith, D. Max; Finch, Deborah M. 2011. In: Feldman, Susana R.; Oliva, Gabriel E.; Sacido, Monica B., eds. IX International Rangeland Congress: Diverse Rangelands for a Sustainable Society; April 3-10, 2011; Rosario, Argentina. IRC2001 Congress: 177. Online: <http://www.treesearch.fs.fed.us/pubs/37686>.

Big sagebrush in pinyon-juniper woodlands: Using forest inventory and analysis data as a management tool for quantifying and monitoring mule deer habitat. Witt, Chris; Patterson, Paul. 2011. In: Wambolt, Carl L.; Kitchen, Stanley G.; Fisina, Michael R.; Sowell, Bok; Keigley, Richard B.; Palacios, Patsy; Robinson, Jill, comps. Proceedings of the 15th wildland shrub symposium; June 17-19, 2008; Bozeman, MT. *Natural Resources and Environmental Issues*. 16: Article 27. Online: <http://digitalcommons.usu.edu/nrei/>.

Displacement of native riparian shrubs by woody exotics: Effects on arthropod and pollinator community composition. Pendleton, Rosemary L.; Pendleton, Burton K.; Finch, Deborah. 2011. In: Wambolt, Carl L.; Kitchen, Stanley G.; Fisina, Michael R.; Sowell, Bok; Keigley, Richard B.; Palacios, Patsy; Robinson, Jill, comps. Proceedings of the 15th wildland shrub symposium; June 17-19, 2008; Bozeman, MT. *Natural Resources and Environmental Issues*. 16: Article 25. Online: <http://digitalcommons.usu.edu/nrei/>.

Dynamics of western juniper woodland expansion into sagebrush communities in central Oregon. Rowland, Mary M.; Suring, Lowell H.; Tausch, Robin J.; Greer, Susan; Wisdom, Michael J. 2011. In: Wambolt, Carl L.; Kitchen, Stanley G.;

Fisina, Michael R.; Sowell, Bok; Keigley, Richard B.; Palacios, Patsy; Robinson, Jill, comps. Proceedings of the 15th wildland shrub symposium; June 17-19, 2008; Bozeman, MT. *Natural Resources and Environmental Issues*. 16: Article 13. Online: <http://digitalcommons.usu.edu/nrei/>.

Ecological assessment of sagebrush grasslands in eastern Wyoming. Ganguli, Amy C.; Haufler, Jonathan B.; Mehl, Carolyn A.; Yeats, Scott D. 2011. In: Wambolt, Carl L.; Kitchen, Stanley G.; Fisina, Michael R.; Sowell, Bok; Keigley, Richard B.; Palacios, Patsy; Robinson, Jill, comps. Proceedings of the 15th wildland shrub symposium; June 17-19, 2008; Bozeman, MT. *Natural Resources and Environmental Issues*. 16: Article 33. Online: <http://digitalcommons.usu.edu/nrei/>.

Effects of spring prescribed fire in expanding pinyon-juniper woodlands on seedling establishment of sagebrush species. Board, David I.; Chambers, Jeanne C.; Wright, Joan G. 2011. In: Wambolt, Carl L.; Kitchen, Stanley G.; Fisina, Michael R.; Sowell, Bok; Keigley, Richard B.; Palacios, Patsy; Robinson, Jill, comps. Proceedings of the 15th wildland shrub symposium; June 17-19, 2008; Bozeman, MT. *Natural Resources and Environmental Issues*. 16: Article 20. Online: <http://digitalcommons.usu.edu/nrei/>.

Fire effects on the cheatgrass seed bank pathogen *Pyrenophora semeniperda*. Beckstead, Julie; Street, Laura E.; Meyer, Susan E.; Allen, Phil S. 2011. *Rangeland Ecology & Management*. 64:148-157. Online: <http://www.treesearch.fs.fed.us/pubs/37483>.

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Long-term effects of weed control with picloram along a gradient of spotted knapweed invasion. Ortega, Yvette K.; Pearson, Dean E. 2011. *Rangeland Ecology & Management*. 64: 67-77. Online: <http://www.treesearch.fs.fed.us/pubs/37485>.

A molecular phylogenetic approach to western North America endemic *Artemisia* and allies (Asteraceae): Untangling the sagebrushes. Garcia, Sonia; McArthur, E. Durant; Pellicer, Jaume; Sanderson, Stewart C.; Valles, Joan; Garnatje, Teresa. 2011. *American Journal of Botany*. 98(4): 638-653. Online: <http://www.treesearch.fs.fed.us/pubs/37682>.

Pelleted biochar: chemical and physical properties show potential use as a substrate in container nurseries. Dumroese, R. Kasten; Heiskanen, Juha; Englund, Karl; Tervahauta, Arja. 2011. *Biomass & Bioenergy*. 35: 2018-2027. Online: <http://www.treesearch.fs.fed.us/pubs/37521>.

The ploidy races of *Atriplex confertifolia* (chenopodiaceae). Sanderson, Stewart C. 2011. *Western North American Naturalist* 71(1): 67-77. Online: <http://www.treesearch.fs.fed.us/pubs/37681>.

Proceedings of the 15th wildland shrub symposium; June 17-19, 2008; Bozeman, MT. Wambolt, Carl L.; Kitchen, Stanley G.; Fisina, Michael R.; Sowell, Bok; Keigley, Richard B.; Palacios, Patsy; Robinson, Jill, comps. 2011. *Natural Resources and Environmental Issues*. 16. Online: <http://digitalcommons.usu.edu/nrei/>.

Site characteristics of intact shortgrass steppe in the southern Great Plains USA. Ford, Paulette L. 2011. In: Feldman, Susana R.; Oliva, Gabriel E.; Sacido, Monica B., eds. IX International Rangeland Congress: Diverse Rangelands for a Sustainable Society; April 3-10, 2011; Rosario, Argentina. IRC2001 Congress: 174. <http://www.treesearch.fs.fed.us/pubs/37689>.

Vegetation dynamics at a Mojave Desert restoration site, 1992 to 2007. Ott, Jeffrey E.; McArthur, Durant; Sanderson, Stewart C. 2011. In: Wambolt, Carl L.; Kitchen, Stanley G.; Fisina, Michael R.; Sowell, Bok; Keigley, Richard B.; Palacios, Patsy; Robinson, Jill, comps. *Proceedings of the 15th wildland shrub symposium;* June 17-19, 2008; Bozeman, MT. *Natural Resources and Environmental Issues*. 16: Article 15. Online: <http://digitalcommons.usu.edu/nrei/>.

Human dimensions

Community wildfire protection planning: is the Healthy Forests Restoration Act's vagueness genius? Jakes, Pamela J.; Nelson, Kristen C.; Enzler, Sherry A.; Burns, Sam; Cheng, Antony S.; Sturtevant, Victoria; Williams, Daniel R.; Bujak, Alexander; Brummel, Rachel F.; Grayzeck-Souter, Stephanie; Staychock, Emily. 2011. *International Journal of Wildland Fire*. 20: 350-363. Online: <http://www.treesearch.fs.fed.us/pubs/38066>.

Geographic information system-based spatial analysis of saw-mill wood procurement. Anderson, Nathaniel M.; Germain, Rene H.; Bevilacqua, Eddie. 2011. *Journal of Forestry*. 109(1): 34-42. Online: <http://www.treesearch.fs.fed.us/pubs/37484>.

Inventory, monitoring, and analysis

Post-stratified estimation: within-strata and total sample size recommendations. Westfall, James A.; Patterson, Paul L.; Coulston, John W. 2011. *Canadian Journal of Forest Research*. 41: 1130-1139. Online: <http://www.treesearch.fs.fed.us/pubs/37876>.

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Assessing plague risk and presence through surveys of small mammal flea communities. Friggens, M. M.; Ford, P. L.; Parmenter, R. R.; Boyden, M.; Gage, K. 2011. In: Feldman, Susana R.; Oliva, Gabriel E.; Sacido, Monica B., eds. IX International Rangeland Congress: Diverse Rangelands for a Sustainable Society; April 3-10, 2011; Rosario, Argentina. IRC2001 Congress: 466. Online: <http://www.treesearch.fs.fed.us/pubs/37688>.

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