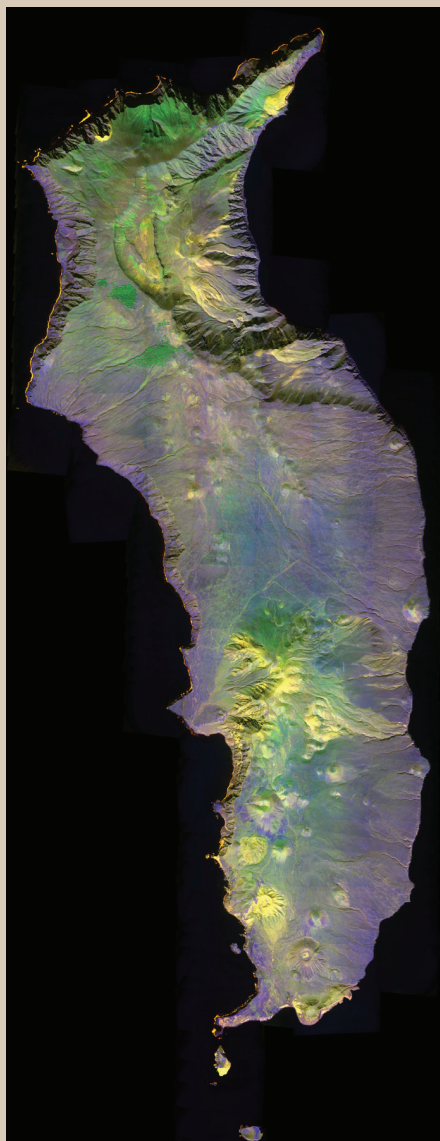


Pacific Southwest Research Station Publications List January 2013 to December 2014



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The Pacific Southwest Research Station

The Pacific Southwest Research Station represents the research and development branch of the USDA Forest Service in the states of California and Hawaii and the U.S.-affiliated Pacific Islands. Our primary work occurs in California (the most populous state with the fifth largest economy in the world) and Hawaii (a strategic location in the Pacific Rim economies and tourism). We develop and deliver science-based information, technologies, and applications to help people make well-informed decisions about natural resource management, conservation, and environmental protection.

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New PSW Series Publications

Challenge Mills, California

Order 1

Life in Challenge Mills, Yuba County, California, 1875–1915, with emphasis on its people, homes, and businesses. McDonald, Philip M.; Lahore, Lona F. 2013. Gen. Tech. Rep. PSW-GTR-239. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.

This report is about the people of Challenge Mills and their way of life around the turn of the 20th century. Native Americans and Chinese are included among its residents. All are inextricably linked to one dynamic individual, Andrew Martin Leach, whose strong business acumen, along with his lumber mills, 50-mile flume, and 6-mile railroad, were the mainstay of the town. Over 20 homes and businesses are listed, and many colorful stories are told about what they were, where they were located, and by whom they were inhabited. This report also denotes the species of trees and the topography of the Challenge Experimental Forest and suggests its value to long-term natural science research.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr239/

Fuel reduction practices

Order 2

Fuel reduction practices and their effects on soil quality. Busse, Matt D.; Hubbert, Ken R.; Moghaddas, Emily E. Y. 2014. Gen. Tech. Rep. PSW-GTR-241. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 156 p.

Soils sustain our terrestrial ecosystems, help fuel plant growth, and govern key ecosystem services such as the storage and provision of clean water, degradation of toxic compounds, and regulation of atmospheric gases. Preserving the integrity of soil thus is an earnest responsibility of land stewardship in the United States. This report provides a synthesis of soil chemical, biological, and physical responses to various prescribed fire and mechanical thinning practices and offers practical considerations for use in fuel reduction planning. A wide range of current topics, identified in a nationwide survey of natural resource managers, is discussed in detail: (1) ecological consequences of prescribed fire on soil heating, water repellency, and soil nitrogen release; (2) whole tree harvesting and nutrient removal; (3) soil compaction; (4) masticated fuel beds; (5) pile burning; (6) cumulative effects of fire and thinning; (7) coarse woody debris; and (8) soil in a changing climate. We submit that with thoughtful planning and implementation, reducing fuels while proactively managing our soils can be complementary outcomes.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr241/

Sudden oak death reference manual

Order 3

A reference manual for managing sudden oak death in California. Swiecki, Tedmund J.; Bernhardt, Elizabeth A. 2013. Gen. Tech. Rep. PSW-GTR-242. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 129 p.

This publication contains background information and guidance for resource management professionals and landowners to understand and manage sudden oak death (SOD) in California forests. The publication is divided into three chapters: Chapter 1 discusses the epidemiology of SOD in California and includes information on biology of the pathogen *Phytophthora ramorum*, host-pathogen interactions, disease spread, and environmental conditions that affect disease development. An understanding of these relationships is needed to choose the most appropriate strategies for managing SOD at a given location. Chapter 2 describes how to develop a plan to manage SOD within a stand and how to identify and prioritize areas that may be suitable for SOD management activities. Options for managing SOD are presented by stage in the disease epidemic: before the SOD pathogen has reached a susceptible forest; during the local epidemic, while disease is active in an area and many hosts are still at risk of becoming diseased; and after SOD has killed so many host trees that forest restoration needs to be considered. Chapter 3 provides descriptions of management techniques.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr242/

Sudden oak death: 5th Proceedings

Order 4

Proceedings of the sudden oak death fifth science symposium. Frankel, S.J.; Kliejunas, J.T.; Palmieri, K.M.; Alexander, J.M., tech. coords. 2013. 2013. Gen. Tech. Rep. PSW-GTR-243. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 169 p.

The Proceedings of the Sudden Oak Death Fifth Science Symposium provides an update on research to address sudden oak death, caused by the exotic, quarantine pathogen, *Phytophthora ramorum*. Over 60 submissions present national and international investigations covering pathogen biology, biosecurity, genetics, monitoring, fire ecology, and diagnostics. Several papers on disease status and progress toward nursery and wildland management are also included.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr243/

Cascades frog conservation

Order 5

Cascades frog conservation assessment. Pope, Karen; Brown, Catherine; Hayes, Marc; Green, Gregory; Macfarlane, Diane, tech. coords. 2014. Gen. Tech. Rep. PSW-GTR-244. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 116 p.

The Cascades frog (*Rana cascadae*) is a montane, lentic-breeding amphibian that has become rare in the southern Cascade Range and remains relatively widespread in the Klamath Mountains of northern California. In the southern Cascades, remaining populations occur primarily in meadow habitats where the fungal disease, chytridiomycosis, and habitat desiccation pose threats to persistence. Major risk factors in the Klamath Mountains include introduced fish and chytridiomycosis. Conservation actions are needed for the Cascades frog in California and especially in the southern Cascades. Conservation options include restoration of breeding pools in the southern Cascades, fish removals in the Klamath Mountains, and adaptive methods to help alleviate the effects of chytridiomycosis rangewide.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr244/

Climate change and wildfires: Proceedings

Order 6

Proceedings of the fourth international symposium on fire economics, planning, and policy: climate change and wildfires. González-Cabán, Armando, tech. coord. 2013. Gen. Tech. Rep. PSW-GTR-245. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 436 p. NOTE: This is available as a CD only in English and Spanish. No paper copy is available.

These proceedings summarize the results of a symposium on current issues of agencies with wildland fire protection responsibility at the Federal and state levels in the United States as well as agencies in the international community. The topics discussed included: climate change and wildland fires; theory and models for strategic fire planning; economic analysis and integrated wildland fire management; forest fires and sustainable forest management; public policies (national and international level) and the wildland fire management problem; hazardous fuels treatment; and wildland fire use and fire suppression activities.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr245/

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr245/es/

Forest degradation in SE Asia: Proceedings

Order 7

Proceedings of the international workshop on monitoring forest degradation in Southeast Asia. Mortenson, Leif A.; Halperin, James J.; Manley, Patricia N.; Turner, Rich L., eds. 2013. Gen. Tech. Rep. PSW-GTR-246. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 56 p.

Forest degradation can play a significant role in decreasing forest carbon, and therefore should be included in forest carbon monitoring for purposes of greenhouse gas inventories and participation in prospective carbon markets. Topics discussed in this workshop included drivers at varying levels, remote sensing techniques and approaches, ground based field measurements, uncertainties and design considerations, integration of monitoring techniques, and regional themes and next steps.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr246/

**Socioecological
resilience: Sierra
Nevada and southern
Cascade Range**

Order 8

Science synthesis to support socioecological resilience in the Sierra Nevada and southern Cascade Range. Long, Jonathan W.; Quinn-Davidson, Lenya N.; Skinner, Carl N. 2014. Gen. Tech. Rep. PSW-GTR-247. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 723 p.

Among the focal topics of this synthesis were forest and fire ecology; soils; aquatic ecosystems; forest carnivores including Pacific fisher, marten, and California spotted owl; air quality; and the social, economic, and cultural components of socioecological systems. Key findings from the synthesis were that (1) efforts to promote resilience of socioecological systems increasingly consider the interaction of social values and ecological processes in pursuit of long-term mutual benefits and social learning for local communities and larger social networks; (2) strategic placement of treatments to reduce hazardous fuel accumulations and to restore fire as an ecosystem process within large landscapes can lower the risk of uncharacteristically large, severe, and dangerous fires, and their associated impacts to sensitive wildlife species; and (3) science suggests a need for active treatment in some riparian and core wildlife habitat to restore fire and its ecological benefits.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr247/

***Pinus ponderosa*:
Taxonomic review**

Order 9

***Pinus ponderosa*: A taxonomic review with five subspecies in the United States.** Callaham, Robert Z. 2013. Res. Pap. PSW-RP-264. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 29 p.

Various forms of *Pinus ponderosa* Douglas ex C. Lawson are found from British Columbia southward and eastward through 16 states and, perhaps, into Mexico. The status of many names previously associated with this species, but excluded here, has been clarified. Accumulated evidence based on variation in morphology and xylem monoterpenes, partial genetic barriers to crossing, and allozyme differences leads to recognition of five subspecies: (1) *Pinus ponderosa* subsp. *ponderosa*; (2) *Pinus ponderosa* subsp. *critchfieldiana* Callaham, subsp. nov.; (3) *Pinus ponderosa* subsp. *scopulorum* (Engelm. in S. Watson) E. Murray; (4) *Pinus ponderosa* subsp. *readiana* Callaham, subsp. nov.; and (5) *Pinus ponderosa* subsp. *brachyptera* (Engelm. in Wislizenus) Callaham, comb. nov.

Online: http://www.fs.fed.us/psw/publications/documents/psw_rp264/

***Pinus ponderosa*:
Morphological variation**

Order 10

***Pinus ponderosa*: geographic races and subspecies based on morphological variation.** Callaham, Robert Z. 2013. Res. Pap. PSW-RP-265. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 29 p.

Morphological variation of ponderosa pine (*Pinus ponderosa* Dougl. ex Laws.), growing north of Mexico, is described. A map shows distributions of five putative races that are analyzed and discussed. Characteristics of branches, shoots, and needles were measured for 10 or fewer trees growing on 147 plots located at 1,500-ft elevational intervals along latitudinal transects. Characteristics of cones were measured from 120 of these plots. Cones from 78 plots yielded seeds for study. Results of analyses and review of literature confirm existence of five morphologically distinct, geographic taxa and four transition zones.

Online: http://www.fs.fed.us/psw/publications/documents/psw_rp265/

**Fire return interval
departure (FRID)
analysis**

Order 11

Using fire return interval departure (FRID) analysis to map spatial and temporal changes in fire frequency on national forest lands in California. Safford, Hugh D.; Van de Water, Kip M. 2014. Res. Pap. PSW-RP-266. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 59 p.

We assessed return interval departure (FRID) variability along geographic, climatic, and vegetation gradients in California on lands managed by the U.S. Department of Agriculture Forest Service and three forest-dominated national parks, using two types of FRID metrics: percent FRID (PFRID), and the NPS-FRID index. Low- and middle-elevation vegetation types supported the greatest departures from presettlement fire frequencies, with oak woodlands, yellow pine, and mixed-conifer forests missing the most fire cycles, and coastal fir, coastal sage scrub, and chaparral tending to experience shorter FRIs than under presettlement conditions.

Online: http://www.fs.fed.us/psw/publications/documents/psw_rp266/

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.

Climate change, mitigation, and adaptation science

Variation in isotopologues of atmospheric nitric acid in passively collected samples along an air pollution gradient in southern California. Bell, Michael D.; Sickman, James O.; Bytnerowicz, Andrzej; Padgett, Pamela E.; Allen, Edith B. 2014. *Atmospheric Environment*. 94: 287-296. Online: <http://www.treesearch.fs.fed.us/pubs/47064>.

Ecosystem processes

Forest degradation sub-national assessments: Monitoring options for Cambodia, Lao PDR, and Vietnam. Turner, Rick; Halperin, James; Manley, Patricia; Mortenson, Leif. 2013. In: Mortenson, Leif A.; Halperin, James J.; Manley, Patricia N.; Turner, Rich L., eds. *Proceedings of the international workshop on monitoring forest degradation in Southeast Asia*. Gen. Tech. Rep. PSW-GTR-246. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 39.

From Nehemiah Grew to Genomics: the emerging field of evo-devo research for woody plants. Groover, Andrew; Cronk, Quentin. 2013. *International Journal of Plant Science* 174(7), 959-963.

Genetic structure of *Notholithocarpus densiflorus* (Fagaceae) from the species to the local scale: A review of our knowledge for conservation and replanting. Dodd, Richard S.; Nettel, Alejandro; Wright, Jessica W.; Afzal-Rafii, Zara. 2013. *Madroño*. 60(2):130-138. Online: <http://www.treesearch.fs.fed.us/pubs/44658>.

Modeling transcriptional networks regulating secondary growth and wood formation in forest trees. Liu, Lijun; Filkov, Vladimir; Groover, Andrew. 2013. *Physiologia Plantarum*. DOI: [10.1111/pp1.12113](https://doi.org/10.1111/pp1.12113). Online: <http://www.treesearch.fs.fed.us/pubs/44992>.

Morphology, physiology, genetics, enigmas, and status of an extremely rare tree: Mutant tanoak. McDonald, Philip M.; Zhang, Jianwei; Senock, Randy S.; Wright, Jessica W. 2013. *Madroño* 60(2):107-117. Online: <http://www.treesearch.fs.fed.us/pubs/44657>.

Multilocus analyses reveal little evidence for lineage-wide adaptive evolution within major clades of soft pines (*Pinus* subgenus *Strobus*). Eckert, Andrew J.; Bower, Andrew D.; Jermstad, Kathleen D.; Wegrzyn, Jill L.; Knaus, Brian J.; Syring, John V.; Neale, David B. 2013. *Molecular Ecology* 22: 5635-5650. Online: <http://www.treesearch.fs.fed.us/pubs/45589>.

Options for monitoring forest degradation in Northern Viet Nam: An assessment in systems design and capacity building needs in Con Cuong District, Nghe An Province. Manley,

Patricia N.; Mortenson, Leif; Halperin, James J.; Quyen, Nguyen Hanh. 2013. USAID Asia Final Report, June 20, 2013. 47 p. Online: <http://www.treesearch.fs.fed.us/pubs/45083>.

The plant vascular system: Evolution and functions. Lucas, William J.; Groover, Andrew; Lichtenberger, Raffael; Furuta, Kaori; Yadav, Shri-Ram; Helariutta, Yka; He, Xin-Qiang; Fukuda, Hiroo; Kang, Julie; Brady, Siobhan M.; Patrick, John W.; Sperry, John; Yoshida, Akiko; Lopez-Millan, Ana-Flor; Grusak, Michael A.; Kachroo, Pradeep. 2013. *Journal of International Plant Biology*. 55(4):294-388. Online: <http://www.treesearch.fs.fed.us/pubs/44993>.

Realized population change for long-term monitoring: California spotted owl case study. Conner, Mary M.; Keane, John J.; Gallagher, Claire V.; Jehle, Gretchen; Munton, Thomas E.; Shaklee, Paula A.; Gerrard, Ross A. 2013. *Journal of Wildlife Management* 77(7):1449-1458. Online: <http://www.treesearch.fs.fed.us/pubs/44969>.

Fire science

California spotted owl, songbird, and small mammal responses to landscape fuel treatments. Stephens, Scott L.; Bigelow, Seth W.; Burnett, Ryan D.; Collins, Brandon M.; Gallagher, Claire V.; Keane, John; Kelt, Douglas A.; North, Malcolm P.; Roberts, Lance J.; Stine, Peter A.; Van Vuren, Dirk H. 2014. *BioScience*. 64(10): 893-906. Online: <http://www.treesearch.fs.fed.us/pubs/47145>.

Establishment of a long-term fire salvage study in an interior ponderosa pine forest. Ritchie, Martin W.; Knapp, Eric E. 2014. *Journal of Forestry*. 112(5): 395-400. Online: <http://www.treesearch.fs.fed.us/pubs/46663>.

Long-term effects of fire severity on oak-conifer dynamics in the southern Cascades. Cocking, Matthew I.; Varner, J. Morgan; Knapp, Eric E. 2014. *Ecological Applications*, 24(1): 94-107. Online: <http://www.treesearch.fs.fed.us/pubs/46549>.

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Quantifying spatial patterns of tree groups and gaps in mixed-conifer forests: reference conditions and long-term changes following fire suppression and logging. Lydersen, Jamie M.;

North, Malcolm P.; Knapp, Eric E.; Collins, Brandon M. 2013. Forest Ecology and Management. 304: 370-382. Online: <http://www.treearch.fs.fed.us/pubs/44828>.

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Snag longevity and surface fuel accumulation following post-fire logging in a ponderosa pine dominated forest. Ritchie, Martin W.; Knapp, Eric E.; Skinner, Carl N. 2013. Forest Ecology and Management 287:113-122. Online: <http://www.treearch.fs.fed.us/pubs/42254>.

Insect and disease

Could tanoak mortality affect insect biodiversity? Evidence for insect pollination in tanoaks. Wright, Jessica W.; Dodd, Richard S. 2013. Madroño 60(2):87-94. Online: <http://www.treearch.fs.fed.us/pubs/44656>.

Scaling up from greenhouse resistance to fitness in the field for a host of an emerging forest disease. Hayden, Katherine J.; Garbelotto, Matteo; Dodd, Richard; Wright, Jessica W. 2013. Evolutionary Applications. 6(6):970-982. Online: <http://www.treearch.fs.fed.us/pubs/44659>.

Water and watersheds

Contrast of degraded and restored stream habitat using an individual-based salmon model. Railsback, S. F.; Gard, M.; Harvey, Bret; White, Jason; Zimmerman, J.K.H. 2013. North American Journal of Fisheries Management. 33: 384-399. Online: <http://www.treearch.fs.fed.us/pubs/43867>.

Effects of water temperature on breeding phenology, growth, and metamorphosis of foothill yellow-legged frogs (*Rana boylei*): a case study of the regulated mainstem and unregulated tributaries of California's Trinity River. Wheeler, Clara; Bettaso, James; Ashton, Donald; Welsh, Hartwell, Jr. 2014. River Research and Applications. doi: [10.1002/rra.2820](https://doi.org/10.1002/rra.2820). Online: <http://www.treearch.fs.fed.us/pubs/46420>.

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- Intersexual variation in the foraging ecology of sexually monochromatic Western Wood-Pewees.** Fogg, Alissa M.; George, T. Luke; Purcell, Kathryn L. 2013. *Journal of Field Ornithology* 84(1): 40-48. Online: <http://www.treeseearch.fs.fed.us/pubs/44225>.
- A method for catching large numbers of birds: Audiolures for migrants and their use in banding stations.** Ralph, C. John. 2013. *North American Bird Bander* 38(1): 44-45. Online: <http://www.treeseearch.fs.fed.us/pubs/44694>.
- A new subspecies of great gray owl (*Strix nebulosa*) in the Sierra Nevada of California, U.S.A.** Hull, Joshua; Englis, Andrew, Jr.; Medley, Joseph R.; Jepsen, Eric P.; Duncan, James R.; Ernest, Holly B.; Keane, John J. 2014. *Journal of Raptor Research*. 48(1): 68-77. Online: <http://www.treeseearch.fs.fed.us/pubs/47135>.
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- Response of benthic macroinvertebrates to whole-lake, non-native fish removals in mid-elevation lakes of the Trinity Alps, California.** Pope, Karen; Hannelly, Erin C. 2013. *Hydrobiologia*. 714: 201-215. Online: <http://www.treeseearch.fs.fed.us/pubs/45240>. Online: <http://www.treeseearch.fs.fed.us/pubs/45240>.
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- Trait-mediated trophic interactions: is foraging theory keeping up?** Railsback, Steven F.; Harvey, Bret C. 2013. *Trends in Ecology and Evolution*. 28(2): 119-125. Online: <http://www.treeseearch.fs.fed.us/pubs/42647>.
- The trophic role of a forest salamander: impacts on invertebrates, leaf litter retention, and the humification process.** Best, M. L.; Welsh, H. H., Jr. 2014. *Ecosphere* 5(2): article 16. Online: <http://www.treeseearch.fs.fed.us/pubs/45487>.
- Use of historically fishless high-mountain lakes and streams by nearctic River Otters (*Lontra canadensis*) in California.** Garwood, Justin M.; Knapp, Roland A.; Pope, Karen L.; Grasso, Robert L.; Magnuson, Michael L.; Maurer, Jeff R. 2013. *Northwestern Naturalist* 94:51-66. Online: <http://www.treeseearch.fs.fed.us/pubs/43372>.
- Using DNA to describe and quantify interspecific killing of fishers in California.** Wengert, Greta M.; Gabriel, Mourad W.; Matthews, Sean M.; Higley, J. Mark; Sweitzer, Rick A.; Thompson, Craig. M.; Purcell, Kathryn L.; Barrett, Reginald H.; Woods, Leslie W.; Green, Rebecca E.; Keller, Stefan M.; Gaffney, Patricia M.; Jones, Megan; Sacks, Benjamin N. 2014. *Journal of Wildlife Management*. 78: 603-611. Online: <http://www.treeseearch.fs.fed.us/pubs/47055>.
- Woodland salamanders as metrics of forest ecosystem recovery: a case study from California's redwoods.** Welsh, H.H., Jr.; Hodgson, G.R. 2013. *Ecosphere* 4(5), article 59: 25 p. Online: <http://www.treeseearch.fs.fed.us/pubs/43998>.

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