

Pacific Southwest Research Station Publications List

July 1, 2010–June 30, 2011

Pacific Southwest Research Station Programs



United States
Department
of Agriculture



Forest Service
Pacific Southwest
Research Station

Conservation of Biodiversity

- Fish and Aquatic Ecology
- Wildlife
- Biodiversity Protection and Management

Fire and Fuels

- Physical Fire Science
- Environmental Fire Science

Ecosystem Function and Health

- Water, Air and Soil
- Resource Restoration, Management, and Use
- Invasives and Threats

Urban Ecosystems and Social Dynamics

- Urban Ecosystems and Processes
- Social and Environmental Change

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<http://www.fs.fed.us/psw/publications>

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.

The Pacific Southwest Research Station has eight primary sites in California and Hawaii.

1. Arcata
2. Redding
3. Placerville, Institute of Forest Genetics
4. Davis
5. Albany
6. Fresno
7. Riverside
8. Hilo, Institute of Pacific Islands Forestry



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



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New PSW Series Publications

Community tree guide: Central Florida

Order 1

Central Florida community tree guide: benefits, costs, and strategic planting. Peper, Paula J.; McPherson, E. Gregory; Simpson, James R.; Albers, Shannon N.; Xiao, Qingfu. 2010. Gen. Tech. Rep. PSW-GTR-230. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 118 p

Trees make our cities more attractive and provide many ecosystem services, including air quality improvement, energy conservation, stormwater interception, and atmospheric carbon dioxide reduction. These benefits must be weighed against the costs of maintaining trees, including planting, pruning, irrigation, administration, pest control, liability, cleanup, and removal. We present benefits and costs for representative small, medium, and large broadleaf trees and a conifer in the Central Florida region derived from models based on research carried out in Orlando, Florida. Two hypothetical examples of planting projects are described to illustrate how the data in this guide can be adapted to local uses, and guidelines for maximizing benefits and reducing costs are given.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr230.

Conifer plantations in northern and central California

Order 2

Twenty-five years of managing vegetation in conifer plantations in northern and central California: results, application, principles, and challenges. McDonald, Philip M.; Fiddler, Gary O. 2011. Gen. Tech. Rep. PSW-GTR-231. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 87 p.

In the late 1970s, the outlook for conifer seedlings in new plantations in the Western United States was dismal and too many were dying or growing below the potential of the site. This situation was untenable, and a large study aimed at increasing the survival and growth of planted conifer seedlings was implemented. This was the National Administrative Study on Vegetation Management of which the California portion is reported here. This “study” was really a program on plantation release with 32 individual studies that resulted in more than 60 publications over a 25-year timeframe. The authors emphasized plant community development and biological influences to help explain why some direct release methods were effective and some were not. Nineteen principles and 10 conclusions resulted from this research program, but more work in the form of 11 challenges is recommended.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr231.

Fisher (*Martes pennanti*) resting habitat

Order 3

Using forest inventory and analysis data and the forest vegetation simulator to predict and monitor fisher (*Martes pennanti*) resting habitat suitability. Zielinski, William J.; Gray, Andrew N.; Dunk, Jeffrey R.; Sherlock, Joseph W.; Dixon, Gary E. 2010. Gen. Tech. Rep. PSW-GTR-232. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 31 p.

Research has revealed much about the habitat of fishers (*Martes pennanti*) at various research sites in California, yet this work has not been translated into practical tools that managers can use to monitor fisher habitat regionally, or to evaluate and mitigate the effects of proposed forest management on fisher habitat. This led us to create new habitat models that are intimately linked to agency approaches to forest monitoring and software tools used by forest managers to plan timber harvests and vegetation management. We provide an example of how to assess and monitor wildlife habitat using FIA vegetation monitoring protocols. We also provide an example of how to integrate an existing FIA-based model of fisher resting habitat into FVS, software that simulates the effect of alternative silvicultural treatments on vegetation data collected from field plots. This work on the fisher provides one example of how habitat assessments for wildlife could be advanced if they were developed with management applicability and implementation success as a goal.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr232.

Sudden oak death and *Phytophthora ramorum*

Order 4

Quaking aspen: Potential climate change effects

Order 5

Trees pay us back Brochures

Online only

S. California mountains and foothills assessment

Order 6

Dead wood ecology and management

Order 7

Sudden oak death and *Phytophthora ramorum*: A summary of the literature. Kliejunas, John T. 2010. Gen. Tech. Rep. PSW-GTR-234. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 181 p.

Sudden oak death and *Phytophthora ramorum*, both first recognized about a decade ago, have been the subject of hundreds of scientific and popular press articles. This document presents a comprehensive, concise summary of sudden oak death and *P. ramorum* research findings and management activities. Topics covered include introduction and background, identification and distribution, the disease cycle, epidemiology and modeling, management and control, and economic and environmental impacts.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr234.

A review of the potential effects of climate change on quaking aspen (*Populus tremuloides*) in the Western United States and a new tool for surveying sudden aspen decline. Morelli, Toni Lyn; Carr, Susan C. 2011. Gen. Tech. Rep. PSW-GTR-235. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 31 p. NOTE: Currently available online only; paper copy will be available soon.

We conducted a literature review of the effects of climate on the distribution and growth of quaking aspen (*Populus tremuloides* Michx.) in the Western United States. Based on our review, we summarize models of historical climate determinants of contemporary aspen distribution. Overall, research indicates a complex, unpredictable future for aspen in the West, where increased drought, ozone, and insect outbreaks will vie with carbon dioxide fertilization and warmer soils, resulting in unknown cumulative effects.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr235.



Trees Pay Us Back Brochures What is the value of a tree in your climate region? What environmental services do they provide and at what cost? PSW's new *Trees Pay Us Back* brochures answer these and other questions. Produced in partnership with CAL FIRE Urban and Community Forestry, these brochures present information on trees in the 16 U.S. climate zones where research was conducted for our Community Tree Guide General Technical Report series and the i-Tree Streets software application. From Hawaii and Pacific coast regions to the Northeast and Florida, the brochures provide the public with links to additional products they can use to determine the services provided by trees in their communities.

Online: <http://www.fs.fed.us/psw/programs/uesd/uep>.

Older PSW Publications Still Available

Southern California mountains and foothills assessment: Habitat and species conservation issues. Stephenson, John R.; Calcarone, Gena M. 1999. Gen. Tech. Rep. GTR-PSW-172. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station; 402 p.

This publication provides detailed information about current conditions and trends for ecological systems and species in the region. Key areas of high ecological integrity and rare species assemblages are identified in this report.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr172.

Proceedings of the symposium on the ecology and management of dead wood in western forests; Reno, NV. Laudenslayer, William F., Jr.; Shea, Patrick J.; Valentine, Bradley E.; Weatherspoon, C. Phillip; Lisle, Thomas E., comps. 2002. Gen. Tech. Rep. PSW-GTR-181. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station; 949 p.

Papers from this proceedings provide valuable information to researchers and managers working with or managing dead wood in a variety of ecosystems.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr181.

California oak woodlands proceedings: 2001**Order 8**

Proceedings of the fifth symposium on oak woodlands: Oaks in California's changing landscape. 2001 October 22-25; San Diego, CA. Standiford, Richard B.; McCreary, Douglas; Purcell, Kathryn L.; tech. coords. 2002. Gen. Tech. Rep. PSW-GTR-184. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 846 p.

The fifth oak symposium was designed to provide a forum for current research and outstanding case studies on oak woodland conservation and sustainability in California. Topics include: grazing relations, soil relations, Garry oak conservation, oak regeneration and restoration, fire relations, wildlife relations, urban forestry, oak woodland policy, genetic factors, monitoring, ecology, and a special session on "Sudden Oak Death."

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr184.

Partners in Flight proceedings: 2002**Order 9**

Bird Conservation Implementation and Integration in the Americas: Proceedings of the third International Partners in Flight Conference; 2002 March 20-24; Asilomar, CA, Volumes 1 and 2. Ralph, John; Rich, Terrell D., eds. 2005. Gen. Tech. Rep. PSW-GTR-191. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 651 p.

These two volumes contain papers presented at the Third International Partners in Flight Conference. Subjects, included management planning, conservation, educational outreach programs, ornithological research, research methodologies, along with the some of the newest technologies for research and dissemination of information.

NOTE: The two volumes are available paper copy or CD; please specify when ordering.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr191/Asilomar.

California oaks insects and diseases field guide**Order 10**

A field guide to insects and diseases of California oaks. Swiecki, Tedmund J.; Bernhardt, Elizabeth A. 2006. Gen. Tech. Rep. PSW-GTR-197. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 156 p.

California has more than twenty-five native species, natural hybrids, and varieties of oaks (*Quercus* species). The form of these oaks ranges from large trees, up to about 25 m tall, to shrubs no taller than about 1.5 m. California's native oaks include representatives of three oak subgroups or subgenera. Hybridization only occurs between oaks in the same subgroup. In addition, some insects, pathogens, and other agents may selectively colonize or damage oaks in certain subgroups.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr197.

Fire economics, planning, and policy**Order 11**

Proceedings of the second international symposium on fire economics, planning, and policy: a global view. González-Cabán, Armando, tech. coord. 2008. Gen. Tech. Rep. PSW-GTR-208, Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 720 p. 1 CD. [English and Spanish versions included].

These proceedings summarize the results of a symposium designed to address 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.

NOTE: CDs only; no paper copies are available.

Online (English): http://www.fs.fed.us/psw/publications/documents/psw_gtr208en.

Online (Spanish): http://www.fs.fed.us/psw/publications/documents/psw_gtr208es.

Sudden oak death proceedings: 2008**Order 12**

Proceedings of the sudden oak death third science symposium. Frankel, Susan J.; Kliejunas, John T.; Palmieri, Katharine M., tech. coords. 2008. Gen. Tech. Rep. PSW-GTR-214, Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 491 p.

The Sudden Oak Death Third Science Symposium provided a forum for current research on sudden oak death, caused by the exotic, quarantine pathogen, *Phytophthora ramorum*. Topics include: biology, genetics, nursery, and wildland management, monitoring, ecology, and diagnostics.

NOTE: CDs only; no paper copies are available.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr214.

California oak proceedings: 2008

Order 13

Proceedings of the sixth California oak symposium: today's challenges, tomorrow's opportunities. Merenlender, Adina; McCreary, Douglas; Purcell, Kathryn L., tech. eds. 2008. Gen. Tech. Rep. PSW-GTR-217. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 677 p.

The proceedings from this conference series represent the most comprehensive source of scientific and management information on a wide range of subjects including oak ecology, hardwood rangeland management, oak restoration and conservation, woodland land-use change and planning.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr217.

Sierran mixed-conifer forests

Order 14

An ecosystem management strategy for Sierran mixed-conifer forests. North, Malcolm; Stine, Peter; O'Hara, Kevin; Zielinski, William; Stephens, Scott. 2009. Gen. Tech. Rep. PSW-GTR-220 (Second printing, with addendum). Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 49 p.

Current Sierra Nevada forest management is often focused on strategically reducing fuels without an explicit strategy for ecological restoration across the landscape matrix. Collectively, our management recommendations emphasize the ecological role of fire, changing climate conditions, sensitive wildlife habitat, and the importance of forest structure heterogeneity.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr220.

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

Holocene forest development and maintenance on different substrates in the Klamath mountains, northern California, USA. Briles, Christy E.; Whitlock, Cathy; Skinner, Carl N.; Mohr, Jerry. 2011. *Ecology*. 92(3): 590-601. Online: <http://www.treearch.fs.fed.us/pubs/38350>.

The role of vegetation in mitigating air quality impacts from traffic emissions. Baldauf, R.; Jackson, L.; Hagler, G.; Vlad, I.; McPherson, G.; Nowak, D.; Cahill, T.; Zhang, M.; Cook, R.; Bailey, C.; Wood, P. 2011. *EM*. Jan: 1-3. Online: <http://www.treearch.fs.fed.us/pubs/38104>.

Ecosystem processes

The effect of nitrogen additions on bracken fern and its insect herbivores at sites with high and low atmospheric pollution. Jones, M.E.; Fenn, M.E.; Paine, T.D. 2011. *Arthropod-Plant Interactions*: doi:10.1007/s11829-011-9125-8. Online: <http://www.treearch.fs.fed.us/pubs/38348>.

Environmentalism and community: Connections and implications for social action. Marcus, Benjamin J.; Omoto, Allen M.; Winter, Patricia L. 2011. *Ecopsychology* 3(1): 11-24. Online: <http://www.treearch.fs.fed.us/pubs/37661>.

Long-term avian research at the San Joaquin Experimental Range: Recommendations for monitoring and managing oak woodlands. Purcell, Kathryn L. 2011. *Forest Ecology and Management*. 262: 12-19. Online: <http://www.treearch.fs.fed.us/pubs/38328>.

Nitrogen critical loads and management alternatives for N-impacted ecosystems in California. Fenn, M.E.; Allen, E.B.; Weiss, S.B.; Jovan,

S.; Geiser, L.; Tonnesen, G.S.; Johnson, R.F.; Rao, L.E.; Gimeno, B.S.; Yuan, F.; Meixner, T.; Bytnerowicz, A. 2010. *Journal of Environmental Management* 91, 2404-2423. <http://www.treearch.fs.fed.us/pubs/37054>.

Trust mediates conservation-related behaviors. Winter, Patricia L.; Cvetkovich, George. 2010. *Ecopsychology* 2(4): 211-219. Online: <http://www.treearch.fs.fed.us/pubs/37230>.

Fire science

Effects of particle fracturing and moisture content on fire behaviour in masticated fuelbeds burned in a laboratory. Kreye, Jesse K.; Varner, J. Morgan; Knapp, Eric E. 2011. *International Journal of Wildland fire*. 20: 308-317. Online: <http://www.treearch.fs.fed.us/pubs/38346>.

Impacts of fire exclusion and recent managed fire on forest structure in old growth Sierra Nevada mixed-conifer forests. Collins, Brandon M.; Everett, Richard G.; Stephens, Scott L. 2011. *Ecosphere*. 2(4): doi:10.1890/ES11-00026.1. Online: <http://www.treearch.fs.fed.us/pubs/38349>.

Interacting disturbances: Wildfire severity affected by stage of forest disease invasion. Metz, Margaret; Frangioso, Kerri; Meentemeyer, Ross; Rizzo, David. 2010. *Ecological Applications*. 21(2): 313-320. Online: <http://www.treearch.fs.fed.us/pubs/36561>.

Long-term effects of prescribed fire on mixed conifer forest structure in the Sierra Nevada, California. Van Mantgem, Phillip J.; Stephenson, Nathan L.; Knapp, Eric; Barrles, John; Keeley, Jon E. 2011. *Forest Ecology and Management*. 261: 989-994. Online: <http://www.treearch.fs.fed.us/pubs/38347>.

- Managing wildfire events: risk-based decision making among a group of federal fire managers.** Wilson, Robyn S.; Winter, Patricia L.; Maguire, Lynn A.; Ascher, Timothy. 2011. *Risk Analysis* 31(5): 805-818. Online: <http://www.treesearch.fs.fed.us/pubs/37886>.
- Modeling of multi-strata forest fire severity using Landsat TM data.** Meng, Q.; Meentemeyer, R.K. 2011. *International Journal of Applied Earth Observation and Geoinformation*. 13: 120-126. Online: <http://www.treesearch.fs.fed.us/pubs/38351>.
- Stand structure, fuel loads, and fire behavior in riparian and upland forests, Sierra Nevada Mountains, USA: A comparison of current and reconstructed conditions.** Van de Water, Kip; North, Malcolm. 2011. *Forest Ecology and Management* 262(2): 215-228. Online: <http://www.treesearch.fs.fed.us/pubs/38099>.
- Sudden oak death-caused changes to surface fuel loading and potential fire behavior in Douglas-fir-tanoak forests.** Valachovic, Y.S.; Lee, C.A.; Scanlon, H.; Varner, J.M.; Glebocki, R.; Graham, B.D.; Rizzo, D.M. 2011. *Forest Ecology and Management*. 261: 1973-1986. Online: <http://www.treesearch.fs.fed.us/pubs/38355>.
- Insect and disease**
- Climate change and forest diseases.** Sturrock, R.N.; Frankel, S.J.; Brown, A.V.; Hennon, P.E.; Kliejunas, J.T.; Lewis, K.J.; Worrall, J.J.; Woods, A.J. 2011. *Plant Pathology*. 60: 133-149. Online: <http://www.treesearch.fs.fed.us/pubs/36515>.
- Complex interactions among host pines and fungi vectored by an invasive bark beetle.** Lu, Min; Wingfield, Michael J.; Gillette, Nancy E.; Mori, Sylvia R.; Sun, Jian-Hua. 2010. *New Phytologist*. 187: 859-866. Online: www.treesearch.fs.fed.us/pubs/35481.
- Description of the immature stages and life history of *Euselasia* (Lepidoptera: Riodinidae) on *Miconia* (Melastomataceae) in Costa Rica.** Nishida, K. 2010. *Zootaxa*. 2466: 1-74. Online: <http://www.treesearch.fs.fed.us/pubs/36782>.
- The dynamic response of housing values to a forest invasive disease: Evidence from a sudden oak death infestation.** Kovacs, Kent; Holmes, Thomas P.; Englin, Jeffrey E.; Alexander, Janice. 2011. *Environmental and Resource Economics*. 49(3): 445-471. Online: <http://www.treesearch.fs.fed.us/pubs/38356>.
- Epidemiological modeling of invasion in heterogeneous landscapes: Spread of sudden oak death in California (1990-2030).** Meentemeyer, R.K.; Cunniffe, N.J.; Cook, A.R.; Filipe, J.A.N.; Hunter, R.D.; Rizzo, D.M.; Gilligan, C.A. 2011. *Ecosphere*. 2: Article 17. Online: <http://www.treesearch.fs.fed.us/pubs/38357>.
- Evolution and population genetics of exotic and reemerging pathogens: Traditional and novel tools and approaches.** Grünwald, N.J.; Goss, E.M. 2011. *Annual Review of Phytopathology*. 49: 5.1-5.19. Online: <http://www.treesearch.fs.fed.us/pubs/38358>.
- First report of *Phytophthora ramorum* infecting grand fir in California.** Riley, K.L.; Chastagner, G.A. 2011. *Plant Health Progress*. doi.10.1094/PHP-2011-0209-02-BR. Online: <http://www.treesearch.fs.fed.us/pubs/38380>.
- First report of *Phytophthora ramorum* infecting mistletoe in California.** Riley, K.L.; Chastagner, G.A.; Blomquist, C. 2011. *Plant Health Progress*. doi.10.1094/PHP-2011-0401-01-BR. Online: <http://www.treesearch.fs.fed.us/pubs/38381>.
- Forest type influences transmission of *Phytophthora ramorum* in California oak woodlands.** Davidson, J.M.; Patterson, H.A.; Wickland, A.C.; Fichtner, E.J.; Rizzo, D.M. 2011. *Phytopathology*. 101: 492-501. Online: <http://www.treesearch.fs.fed.us/pubs/38359>.
- Geographic variation in bacterial communities associated with the red turpentine beetle (Coleoptera: Curculionidae).** Adams, Aaron S.; Adams, Sandye M.; Currie, Cameron R.; Gillette, Nancy E.; Raffa, Kenneth F. 2010. *Environmental Entomology*. 39(2): 406-414. Online: <http://www.treesearch.fs.fed.us/pubs/35866>.
- Goldspotted oak borer: Field identification guide.** Hishinuma, S.; Coleman, T.W.; Flint, M.L.; Seybold, S.J. 2011. University of California Agriculture and Natural Resources, Statewide Integrated Pest Management Program. 6 p. Online: <http://www.treesearch.fs.fed.us/pubs/38360>.
- Group size effects on survivorship and adult development in the gregarious larvae of *Euselasia chrysippe* (Lepidoptera, Riodinidae).** Allen, P. E. 2010. *Insectes Sociaux*. 57: 199-204. Online: <http://www.treesearch.fs.fed.us/pubs/36779>.
- Historical accumulation of nonindigenous forest pests in the Continental United States.** Aukema, J.E.; McCullough, D.G.; Von Holle, B.; Liebhold, A.M.; Britton, K.; Frankel, S.J. 2010. *Bioscience*. 60(11): 886-897. Online: <http://www.treesearch.fs.fed.us/pubs/38361>.
- Host range of *Secusio extensa* (Lepidoptera: Arctiidae), and potential for biological control of *Senecio madagascariensis* (Asteraceae).** Ramadan, M. M.; Murai, K. T.; Johnson, T. 2011. *Journal of Applied Entomology*. 135(4): 269-284. Online: <http://www.treesearch.fs.fed.us/pubs/36786>.
- Individual-Tree tests of verbenone flakes, verbenone pouches, and green-leaf volatiles to protect lodgepole pines from mountain pine beetle attack.** Kegley, Sandra; Gibson, Ken; Gillette, Nancy; Webster, Jeff; Pederson, Lee; Mori, Silvia. 2010. Numbered Report 10-02. Coeur d'Alene, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Forest health Protection. 12 p. Online: <http://www.treesearch.fs.fed.us/pubs/38333>.
- Phytophthora-ID.org: A sequence-based *Phytophthora* identification tool.** Grünwald, N.J.; Martin, F.N.; Larsen, M.M.; Sullivan, C.M.; Press, C.M.; Coffey, M.D.; Hansen, E.M.; Parke, J.L. 2010. *Plant Disease*. 95(3): 337-342. Online: <http://www.treesearch.fs.fed.us/pubs/38362>.
- Phytophthora ramorum* detections in Canada: Evidence for migration within North America and from Europe.** Goss, E.M.; Larsen, M.; Vercauteren, A.; Werres, S.; Heungens, K.; Grünwald, N.J. 2011. *Phytopathology*. 101: 166-171. Online: <http://www.treesearch.fs.fed.us/pubs/38363>.
- Phytophthora ramorum* is a generalist plant pathogen with differences in virulence between isolates from infectious and dead-end hosts.** Huberli, D.; Garbelotto, M. 2011. *Forest Pathology*. Online: <http://www.treesearch.fs.fed.us/pubs/38364>.
- Phytophthora* taxa associated with cultivated *Agothosmo*, with emphasis on the *P. citricola* complex and *P. capensis* sp. nov.** Bezuidenhout, C.M.; Deman, S.; Kirk, S.A.; Botha, W.J.; Mostert, L.; McLeod, A. 2010. *Persoonia*. 25: 32-49. Online: <http://www.treesearch.fs.fed.us/pubs/38365>.
- Predicting the economic costs and property value losses attributed to sudden oak death damage in California (2010-2020).** Kovacs, Kent; Václavík, Tomas; Haight, Robert G.; Pang, Arwin; Cunniffe, Nik J.; Gilligan, Christopher A.; Meentemeyer, Ross K. 2011. *Journal of Environmental Management*. 92: 1292-1302. Online: <http://www.treesearch.fs.fed.us/pubs/37397>.
- Root and aerial infections of *Chamaecyparis lawsoniana* by *Phytophthora lateralis*: A new threat for European countries.** Robin, C.; Piou, D.; Feau, N.; Douzon, G.; Schenck, N.; Hansen, E.M. 2010. *Forest Pathology*. doi.10.1111/j.1439-0329.2010.00688.x. Online: <http://www.treesearch.fs.fed.us/pubs/38366>.
- Root infections may challenge management of invasive *Phytophthora* spp. in U.K. woodlands.** Fichtner, E.J.; Rizzo, D.M.; Kirk, S.A.; Webber, J.F. 2011. *Plant Disease*. 95: 13-18. Online: <http://www.treesearch.fs.fed.us/pubs/38367>.

Will all the trees fall? Variable resistance to an introduced forest disease in a highly susceptible host. Hayden, K.J.; Nettel, A.; Dodd, R.S.; Garbelotto, M. 2011. *Forest Ecology and Management*. 261: 1781-179. Online: <http://www.treesearch.fs.fed.us/pubs/38368>.

Urban forestry

Benefits and costs of street trees in Lisbon. Soares, A.L.; Rego, F.C.; McPherson, E.G.; Simpson, J.R.; Peper, P.J.; Xiao, Q. 2011. *Urban Forestry and Urban Greening* 10: 69-78. Online: <http://www.treesearch.fs.fed.us/pubs/38103>.

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