

United States Department of Agriculture

Forest Service Pacific Southwest Research Station



Air Pollution and Global Change Impacts on Western Forest Ecosystems

Center for Urban Forest Research

Chemical Ecology and Management of Forest Insects

Cumulative Effects of Forest Management on Hillslope Processes, Fishery Resources, and Downstream Environments

Ecology and Management of Western Forests Influenced by Mediterranean Climate

Institute of Forest Genetics

Institute of Pacific islands Forestry

Prescribed Fire and Fire Effects

Research Natural Areas

Sierra Nevada Research Center

Sudden Oak Death Research

Timber Management/Wildlife Habitat Interactions

Wildland Fire Management Research, Development, and Application

Wildland Recreation and Urban Cultures

Pacific Southwest Research Station **Publications List**

October 1, 2004-May 31, 2008

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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.
- The Pacific Southwest Research Station has eight primary sites in California and Hawaii.
- 1. Redwood Sciences Laboratory, Arcata
- 2. Silviculture Laboratory, Redding
- 3. Institute of Forest Genetics (Historic), Placerville
- 4. Research Facilities, Davis
- 5. Sciences Laboratory and Station Headquarters, Albany
- 6. Forest Sciences Laboratory, Fresno
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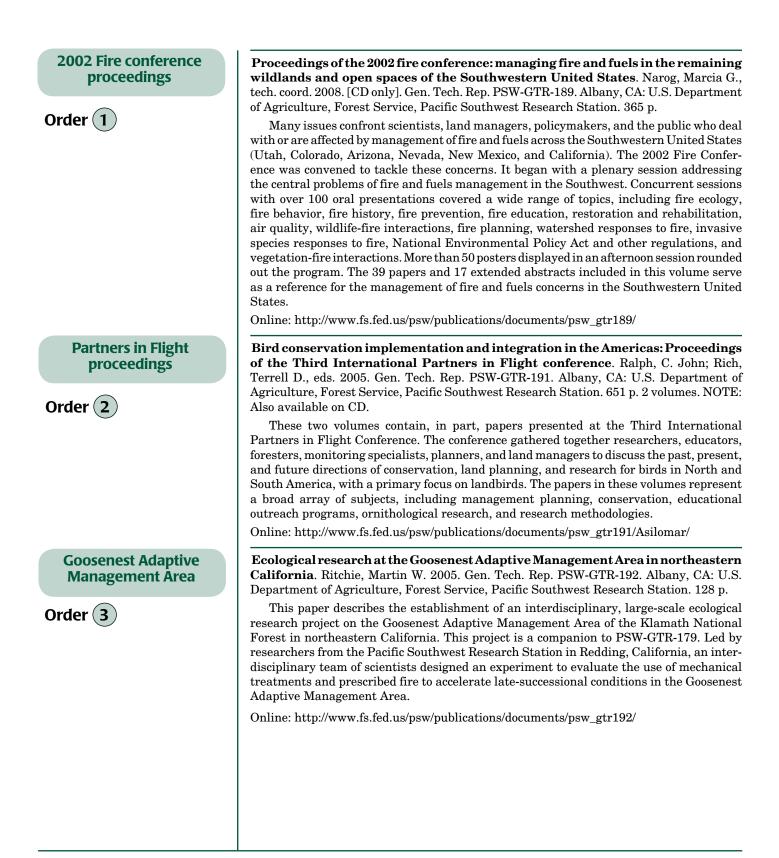




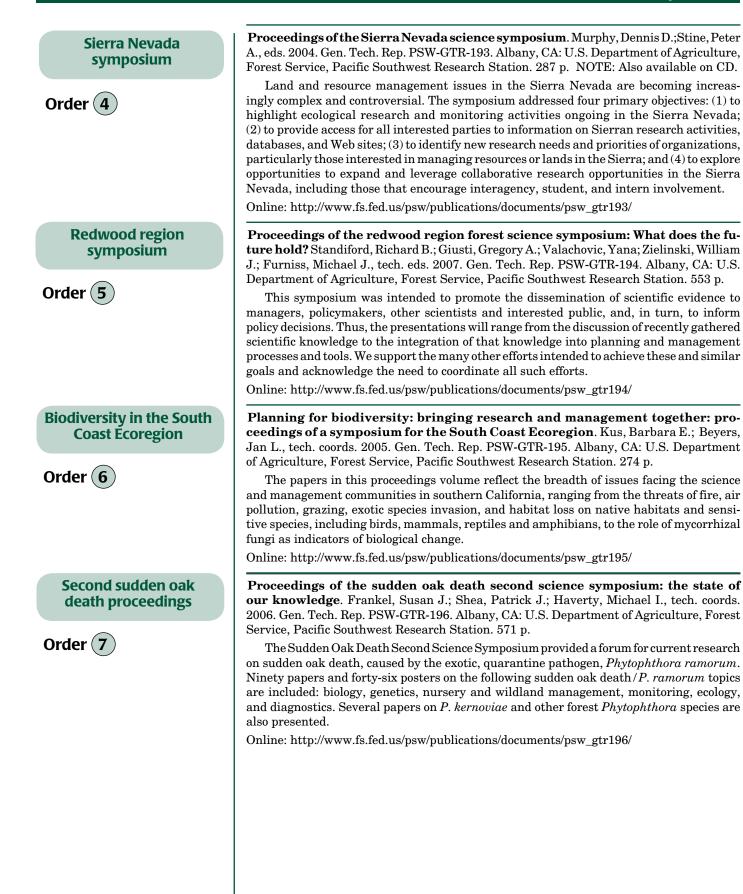
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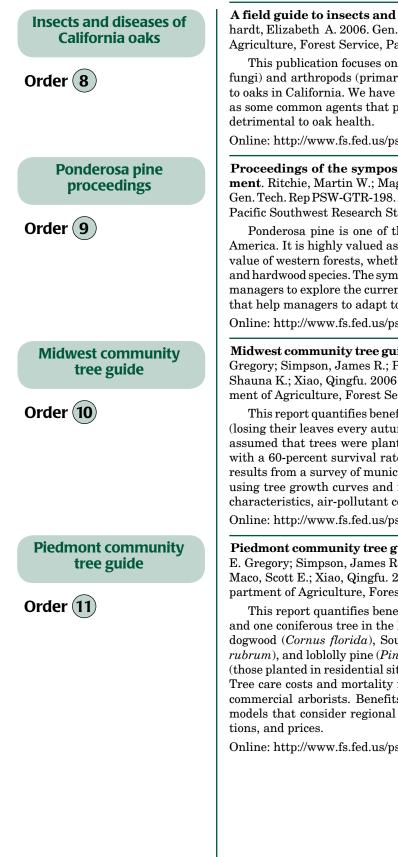
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New PSW Series Publications



PSW Publications List





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. 151 p.

This publication focuses on the relatively small number of microorganisms (primarily fungi) and arthropods (primarily insects) that are capable of causing noticeable damage to oaks in California. We have included agents that cause serious damage to oaks, as well as some common agents that produce conspicuous impacts even if they are not especially detrimental to oak health.

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

Proceedings of the symposium on ponderosa pine: issues, trends, and management. Ritchie, Martin W.; Maguire, Douglas A.; Youngblood, Andrew, tech. coords. 2005. Gen. Tech. Rep PSW-GTR-198. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 281 p.

Ponderosa pine is one of the most widely distributed tree species in western North America. It is highly valued as a source of lumber, but also is key to the health and social value of western forests, whether growing in pure stands or in mixture with other conifer and hardwood species. The symposium was convened to provide a venue for researchers and managers to explore the current state-of-our-knowledge, including management practices that help managers to adapt to constantly changing constraints and objectives.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr198/

Midwest community tree guide: benefits, costs, and strategic planting. McPherson, E. Gregory; Simpson, James R.; Peper, Paula J.; Maco, Scott E.; Gardner, Shelley L.; Cozad, Shauna K.; Xiao, Qingfu. 2006. Gen. Tech. Rep. PSW-GTR-199. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 99 p.

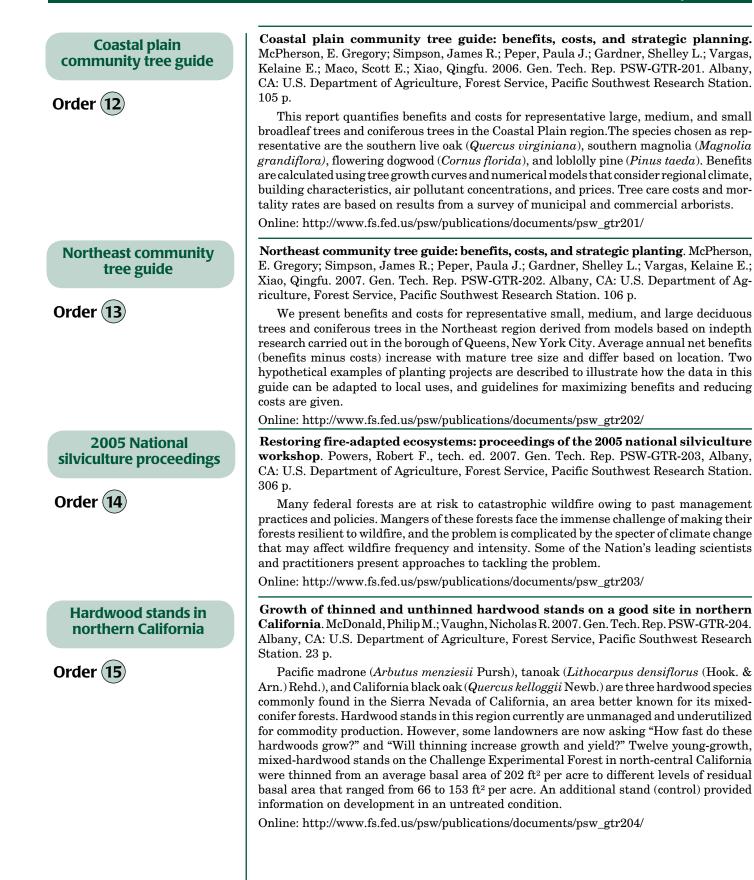
This report quantifies benefits and costs for typical small, medium, and large deciduous (losing their leaves every autumn) trees: crabapple, red oak, and hackberry. The analysis assumed that trees were planted in a residential yard or public site (streetside or park) with a 60-percent survival rate over a 40-year timeframe. Tree care costs were based on results from a survey of municipal and commercial arborists. Benefits were calculated by using tree growth curves and numerical models that consider regional climate, building characteristics, air-pollutant concentrations, and prices.

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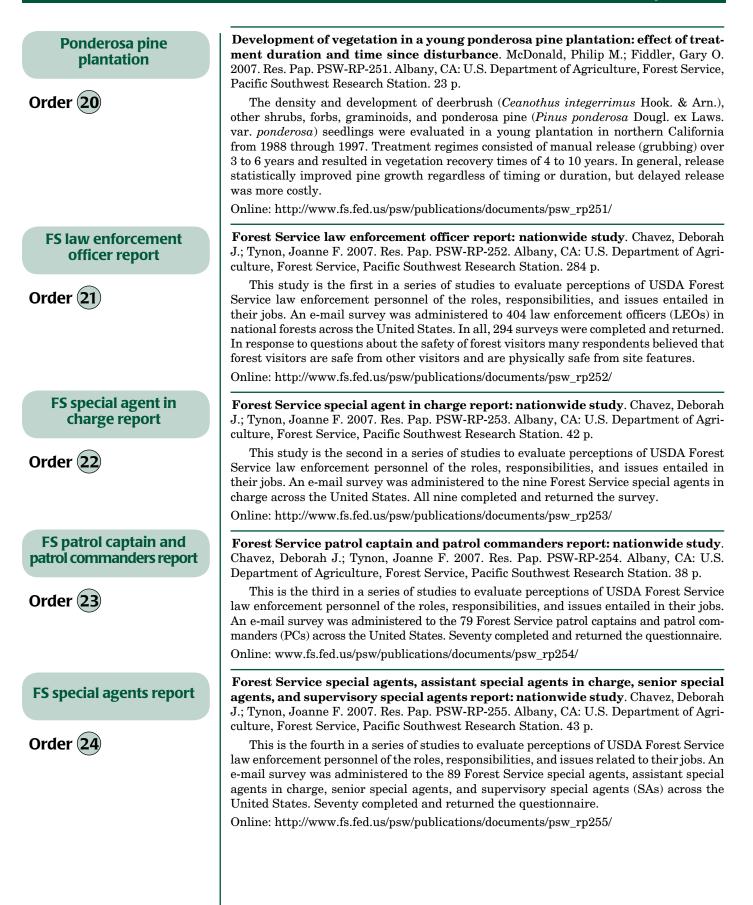
Piedmont community tree guide: benefits, costs, and strategic planting. McPherson, E. Gregory; Simpson, James R.; Peper, Paula J.; Gardner, Shelley L.; Vargas, Kelaine E.; Maco, Scott E.; Xiao, Qingfu. 2006. Gen. Tech. Rep. PSW-GTR-200. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 99 p.

This report quantifies benefits and costs for small, medium, and large broadleaf trees and one coniferous tree in the Piedmont region. The species chosen as representative are dogwood (*Cornus florida*), Southern magnolia (*Magnolia grandiflora*), red maple (*Acer rubrum*), and loblolly pine (*Pinus taeda*), respectively. The analysis describes "yard trees" (those planted in residential sites) and "public trees" (those planted on streets or in parks). Tree care costs and mortality rates are based on results from a survey of municipal and commercial arborists. Benefits are calculated using tree growth curves and numerical models that consider regional climate, building characteristics, air pollutant concentrations, and prices.

Online: http://www.fs.fed.us/psw/publications/documents/psw_gtr200/







Science Perspectives

der (25)	Repelling invaders: Hawaiian foresters use ecology to counter invasive species . Denslow, Julie; Johnson, Tracy; Cordell, Susan. 2008. Albany, CA: U.S. Department of Agriculture, Forest Service Pacific Southwest Research Station. Science Perspective. Spring 2008. 5 p.
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er 28	Restoring forest health: fire and thinning effects on mixed-conifer forests . North, Malcolm M 2006. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station Science Perspective. Summer 2006. 5 p.
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29	Caspar Creek Experimental Watersheds: cumulative effects of forest practices on downstream resources . Lisle, Thomas E.; Harvey, Bret; Reid, Leslie; Keppeler, Elizabeth; Lewis, Jack; Eads, Rand Hilton, Sue; Nakamoto, Rod; Viser, Deb. 2005. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. Science Perspective. Fall 2005. 5 p.
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	Managing wildland fires: integrating weather models into fire projections . Fujioka, Francis 2004. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station Science Perspective. Fall 2004. 5 p.
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	Air pollution: worldwide effects on mountain forests. Bytnerowicz, Andrzej. 2004. Albany, CA U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. Science Perspec- tive. Spring 2004. 5 p.
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	 High Sierra ecosystems: the role of fish stocking in amphibian declines. Matthews, Kathleen R. 2003. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. Science Perspective. Fall 2003. 5 p.
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	Climate change: detecting climate's imprint on California forests. Millar, Constance I. 2003
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