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**Comprehensive Report on Sudden Oak Death:**
10-year cooperative research effort provides basis for containment

ALBANY, Calif.—Synthesizing more than 10 years of cooperative research on the exotic invasive, quarantine sudden oak death pathogen, the USDA Forest Service’s Pacific Southwest Research Station (PSW) recently published “Sudden Oak Death and *Phytophthora ramorum*: A Summary of the Literature.” This 181-page comprehensive report covers a wide range of topics, including a history of sudden oak death, identification and distribution of the disease, epidemiology and modeling, management and control, and economic and environmental impacts.

Compiled by retired U.S. Forest Service Pacific Southwest regional forest pathologist John T. Kliejunas, the report summarizes research findings published by hundreds of scientists from U.S. and international government agencies and universities, many supported by PSW’s extramural Sudden Oak Death research program.

“The sudden oak death pathogen is a concern to society since it damages cherished and economically valuable trees, forest ecosystems, ornamental nursery plants and is an emerging, exotic microbe,” said Susan Frankel, PSW’s sudden oak death research manager. “This book distills a decade of discovery, exploration and struggle to contain and understand the pathogen’s behavior and impact in wildlands, gardens, and nurseries worldwide. Regulators, forest pathologists, and the nursery industry are utilizing this information to work together to prevent both pathogen spread and future exotic pest introductions.”

The pathogen was new to science when identified in 2000. Information about the disease is scattered in scientific journals, government reports and newspaper articles, so this volume provides a cohesive narrative of what is known about the sudden oak death pathogen for a professional audience, college students and others interested in the biology and management of this pathogen.

Key results include: advances in genetics and diagnostics that show the pathogen has inadvertently been shipped long distances on nursery stock and can escape infested nurseries and infect adjacent forest vegetation; pesticide and other treatments for high-value trees and nursery stock; waterway early-detection monitoring techniques; and the discovery of several new related *Phytophthora* species.

Sudden oak death first appeared in the mid-1990s when an unusual die-off of coast live oaks and tanoaks was observed in Marin County, Calif. In coastal California, the pathogen has killed over a million trees, many in densely populated neighborhoods. The pathogen threatens the health of U.S. oak forests in the Midwest and East. Quarantined in the U.S., European Union, Canada and more than 60 other countries, it has been detected on rhododendron, camellia and other ornamental nursery plants in North America and Europe; nursery detections trigger mandatory eradication. Recent outbreaks in the United Kingdom on Japanese larch are requiring the clear-cutting of thousands of trees. The risk to U.S. larch and other conifer species is not yet known. Additionally, recent detections in rivers in the Pacific Northwest and Southern U.S. are a threat that could lead to pathogen establishment in new areas.

Information on how to download or order a free copy of the report, “Sudden Oak Death and *Phytophthora ramorum*: A Summary of the Literature” can be found at: http://www.fs.fed.us/psw/publications/documents/psw_gtr234/.

The Pacific Southwest Research is headquartered in Albany, Calif. The station develops and communicates science needed to sustain forest ecosystems and other benefits to society. It has laboratories and research centers in California, Hawaii and the United States-affiliated Pacific Islands. For more information, visit http://www.fs.fed.us/psw/.