



Joint Fire Science Program Knowledge Exchange
Publication List for Resource Managers

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Contact:
Chris Mallek

Phone:
(530) 752-2644 ☐

Email:
crmallek@ucdavis.edu

SIERRA NEVADA REGION

The following list of publications has been selected to identify useful and applicable scientific resources relevant to the ecology and management of fire and fuels in Sierra Nevada region.

- Agee, J. K., & Skinner, C. N. (2005). Basic principles of forest fuel reduction treatments. *Forest Ecology and Management*, 211(1-2), 83-96.
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- Finney, M. A. (2001). Design of regular landscape fuel treatment patterns for modifying fire growth and behavior. *Forest Science*, 47(2), 219-228.
- Finney, M. A., Seli, R. C., McHugh, C. W., Ager, A. A., Bahro, B., & Agee, J. K. (2007). Simulation of long-term landscape-level fuel treatment effects on large wildfires. *International Journal of Wildland Fire*, 16(6), 712-727.
- Hood, S. M. (2010). Mitigating old tree mortality in long-unburned, fire-dependent forests: a synthesis. Gen. Tech. Rep. RMRS-GTR-238. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 71 p. <http://www.treearch.fs.fed.us/pubs/35004>
- Lenihan, J. H., Bachelet, D., Neilson, R. P., & Drapek, R. (2008). Response of vegetation distribution, ecosystem productivity, and fire to climate change scenarios for California. *Climatic Change, Suppl. 1*, S215-S230.
- Miller, J. D., Safford, H. D., Crimmins, M., & Thode, A. E. (2009). Quantitative evidence for increasing forest fire severity in the Sierra Nevada and southern Cascade Mountains, California and Nevada,

USA. *Ecosystems*, 12(1), 16-32.

<http://www.fs.fed.us/r5/news/2008/pdfs/2008EcosystemsSierraNevadaseveritytrends.pdf>.

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[http://www.plantsciences.ucdavis.edu/affiliates/north/Publications/Wildfire effects on C in fuels treated and untreated forest North Hurteau FEM.pdf](http://www.plantsciences.ucdavis.edu/affiliates/north/Publications/Wildfire%20effects%20on%20C%20in%20fuels%20treated%20and%20untreated%20forest%20North%20Hurteau%20FEM.pdf)
- North, M, Hurteau, M., & Innes, J. (2009). Fire suppression and fuels treatment effects on mixed-conifer carbon stocks and emissions. *Ecological Applications*, 19(6), 1385-1396.
- North, M, Stine, P. A., O'Hara, K. L., Zielinski, W. J., & Stephens, S. L. (2009). An ecosystems management strategy for Sierra mixed-conifer forests, with addendum. Gen. Tech. Rep. PSW-GTR-220. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 49 p.
- Roberts, S. L., Wagtenonk, Jan W. van, Miles, a K., & Kelt, D. a. (2011). Effects of fire on spotted owl site occupancy in a late-successional forest. *Biological Conservation*, 144(1), 610-619.
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- Stephens, S. L., Martin, R. E., & Clinton, N. D. (2007). Prehistoric fire area and emissions from California's forests, woodlands, shrublands and grasslands. *Forest Ecology and Management*, 251, 205-216. [http://nature.berkeley.edu/stephens-lab/Publications/Stephens et al. CA fire area FEM 2007.pdf](http://nature.berkeley.edu/stephens-lab/Publications/Stephens%20et%20al.%20CA%20fire%20area%20FEM%202007.pdf)
- Stephens, S. L., Millar, C. I., & Collins, B. M. (2010). Operational approaches to managing forests of the future in Mediterranean regions within a context of changing climates. *Environmental Research Letters*, 5, 9. [http://nature.berkeley.edu/stephens-lab/Publications/Stephens et al. Med Fire Forests Future ERL 5-10.pdf](http://nature.berkeley.edu/stephens-lab/Publications/Stephens%20et%20al.%20Med%20Fire%20Forests%20Future%20ERL%205-10.pdf)
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<http://www.esajournals.org/doi/pdf/10.1890/ES10-00018.1>