

References

- Agee, J. K., and C. N. Skinner. 2005. Basic principles of forest fuel reduction treatments. *Forest Ecology and Management* 211:83–96.
- Allen, C.D., D.D. Breshears, and N.G. McDowell. 2015. On underestimation of global vulnerability to tree mortality and forest die-off from hotter drought in the Anthropocene. *Ecosphere* 6: art129.
- Anthony, R. G., E. D. Forsman, A. B. Franklin, D. R. Anderson, K. P. Burnham, G. C. White, C. J. Schwarz, J. D. Nichols, J. E. Hines, G. S. Olson, S. H. Ackers, L. W. Andrews, B. L. Biswell, P. C. Carlson, L. V. Diller, K. M. Dugger, K. E. Fehring, T. L. Fleming, R. P. Gearhardt, S. A. Gremel, R. J. Gutierrez, P. J. Happe, D. R. Herter, J. M. Higley, R. B. Horn, L. L. Irwin, P. J. Loschl, J. A. Reid, and S. G. Sovern. 2006. Status and trends in demography of northern spotted owls, 1985–2003. *Wildlife Monographs* No. 163.
- Bentz, B.J., J. Régnière, C.J. Fettig, E.M. Hansen, J.L. Hayes, J.A. Hicke, R.G. Kelsey, J. Lundquist, J.F. Negrón, and S.J. Seybold. 2010. Climate change and bark beetles of the western United States and Canada: Direct and indirect effects. *Bioscience* 60:602–613.
- Berigan, W. J., R. J. Gutiérrez, and D. Tempel. 2012. Evaluating the efficacy of protected habitat areas for the California spotted owl using long-term monitoring data. *Journal of Forestry* 110:299-303.
- Bias, M. A., and R. J. Gutiérrez. 1992. Habitat associations of California spotted owls in the central Sierra Nevada. *Journal of Wildlife Management* 56:584-595.
- Bingham, B. B., and B. R. Noon. 1997. Mitigation of habitat “take”: application to habitat conservation planning. *Conservation Biology* 11:127-139.
- Brown, P.M., and R. Wu. 2005. Climate and disturbance forcing of episodic tree recruitment in a southwestern ponderosa pine landscape. *Ecology* 86: 3030-3038.
- Cayan, Daniel R., Mary Tyree, Kenneth E. Kunkel, Chris Castro, Alexander Gershunov, Joseph Barsugli, Andrea J. Ray et al. 2013. Future climate: projected average. Pages 101-125 in *Assessment of Climate Change in the Southwest United States*. Island Press/Center for Resource Economics.
- Collins, B. M., and G. B. Roller. 2013. Early forest dynamics in stand-replacing fire patches in the northern Sierra Nevada, California, USA. *Landscape Ecology* 28:1801-1813.
- Collins, B.M., and S.L. Stephens. 2007. Fire scarring patterns in Sierra Nevada wilderness areas burned by multiple wildland fire use fires. *Fire Ecology* 3(2): 53-67.

Collins, B.M., and S.L. Stephens. 2010. Stand-replacing patches within a mixed severity fire regime: quantitative characterization using recent fires in a long-established natural fire area. *Landscape Ecology* 25:927-939.

Collins, B.M., R.G. Everett, and S.L. Stephens. 2011. Impacts of fire exclusion and recent managed fire on forest structure in old growth Sierra Nevada mixed-conifer forests. *Ecosphere* 2(4):art51.

Collins, B.M., Lydersen, J.M., Everett, R.G., Fry, D.L., Stephens, S.L. 2015. Novel characterization of landscape-level variability in historical vegetation structure. *Ecological Applications* 25: 1167-1174.

Connor et al. 2014

Craighead, F.C. 1925. The Dendroctonus problems. *Journal of Forestry* 23:340-354.

Crozier, M. L., M. E. Seamans, R. J. Gutiérrez, P. L. Loschl, R. B. Horn, S. G. Sovern, and E. D. Forsman. 2006. Does the presence of barred owls suppress the calling behavior of spotted owls? *Condor* 108:760–769.

Dark, S. J., R. J. Gutiérrez, and G. I. Gould. 1998. The invasion of the barred owl in California: potential impacts on the spotted owl. *Auk* 115:50-56.

Diller, L. V., K. A. Hamm, D. A. Early, D. W. Lamphear, K. M. Dugger, C. B. Yackulic, and T. L. McDonald. 2016. Demographic response of northern spotted owls to barred owl removal. *The Journal of Wildlife Management* 80:691-707.

Diller, L. V., J. P. Dumbacher, R. P. Bosch, R. R. Bown, and R. J. Gutiérrez. 2014. Removing Barred Owls from local areas: Techniques and feasibility. *Wildlife Society Bulletin* 38: 211-216.

Dow, C. B., B. M. Collins, and S. L. Stephens. 2016. Incorporating resource protection constraints in an analysis of landscape fuel treatment effectiveness in the northern Sierra Nevada, CA, USA. *Environmental Management* 57:516-530.

Dugger, K. M., et al. 2011. Transient dynamics of invasive competition: Barred owls, spotted owls, habitat, and the demons of competition present. *Ecological Applications* 21:2459-2468.

Earles, M., North, M., and Hurteau, M. 2014. Wildfire and drought dynamics destabilize carbon stores of fire-suppressed forests. *Ecological Applications* 24: 732-740.

Fettig, C.J., K.D. Klepzig, R.F. Billings, A.S. Munson, T.E. Nebeker, J.F. Negrón, and J.T. Nowak. 2007. The effectiveness of vegetation management practices for prevention and control of bark beetle infestations in coniferous forests of the western and southern United States. *Forest Ecology and Management* 238:24–53.

Fettig, C.J. 2012. Forest health and bark beetles. In North, M., ed. *Managing Sierra Nevada Forests*. PSW-GTR-237. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 184 p.

Fettig, C.J., C.J. Hayes, K.J. Jones, S.R. McKelvey, S.L. Mori, and S.L. Smith. 2012. Thinning Jeffrey pine stands to reduce susceptibility to bark beetle infestations in California, U.S.A. *Agricultural and Forest Entomology* 14:111–117.

Fettig, C.J., M.L. Reid, B.J. Bentz, S. Sevanto, D.L. Spittlehouse, and T. Wang. 2013. Changing climates, changing forests: A western North American perspective. *Journal of Forestry* 111:214–228.

Fettig, C.J., K.E. Gibson, A.S. Munson, and J.F. Negrón. 2014. Cultural practices for prevention and mitigation of mountain pine beetle infestations. *Forest Science* 60:450–463.

Fettig, C.J. 2015. Native bark beetles and wood borers in Mediterranean forests of California. In Lieutier, F. and T.D. Paine, eds. *Insects and Diseases of Mediterranean Forest Systems*. Springer, New York, in press.

Fites-Kaufman, J.A., P. Rundel, N. Stephenson, and D.A. Weixelman. 2007. Montane and subalpine vegetation of the Sierra Nevada and Cascade Ranges. Pages 456-501 in: M.G. Barbour, T. Keller-Wolf, and A.A. Schoenherr, editors. *Terrestrial vegetation of California*. University of California Press, Berkeley, CA.

Franklin, A. B., D. R. Anderson, R. J. Gutiérrez, and K. P. Burnham. 2000. Climate, habitat quality, and fitness in northern spotted owl populations in northwestern California. *Ecological Monographs* 70:539-590.

Fry, D.L., S.L. Stephens, B.M. Collins, M.P. North, E. Franco-Vizcaino, and S.J. Gill. 2014. Contrasting Spatial Patterns in Active-Fire and Fire-Suppressed Mediterranean Climate Old-Growth Mixed Conifer Forests. *PLOS ONE* 9(2): e88985.

Gallagher, C. V. 2010. Spotted owl home range and foraging patterns following fuels-reduction treatments in the northern Sierra Nevada, California. Davis, California, University of California. 54 p.

Glenn, E. M., et al. 2010. Population trends in northern spotted owls: Associations with climate in the Pacific Northwest. *Biological Conservation* 143:2543-2552.

Glenn, E. M., et al. 2011. Local weather, regional climate, and annual survival of the northern spotted owl. *The Condor* 113:159-176.

Gutiérrez, R. J., A. B. Franklin, and W. S. LaHaye. 1995. Spotted Owl (*Strix occidentalis*). In A. Poole and F. Gill (eds.). *The Birds of North America No. 179: Life Histories for the 21st Century*. The Philadelphia Academy of Sciences and The American Ornithologists' Union, Washington, D. C.

Gutiérrez, R. J., M. Cody, S. Courtney, and A. B. Franklin. 2007. The invasion of barred owls and its potential effect on the spotted owl: A conservation conundrum. *Biological Invasions* 9:181–196.

Hamer, T. E., D. L. Hays, C. M. Senger, and E. D. Forsman. 2001. Diets of northern barred owls and northern spotted owls in an area of sympatry. *Journal of Raptor Research* 35:221–227.

Hauptfeld, R.S., J.M. Kershner, and K.M. Feifel, eds. 2014. *Sierra Nevada Ecosystem Vulnerability Assessment Technical Synthesis: Yellow Pine/Mixed Conifer* in Kershner, J.M., editor. 2014. *A Climate Change Vulnerability Assessment for Focal Resources of the Sierra Nevada*. Version 1.0. EcoAdapt, Bainbridge Island, WA.

Hayes, C.J., C.J. Fettig, and L.D. Merrill. 2009. Evaluation of multiple funnel traps and stand characteristics for estimating western pine beetle-caused tree mortality. *Journal of Economic Entomology* 102:2170–2182.

Hayward, L. S., et al. 2011. Impacts of acute and long-term vehicle exposure on physiology and reproductive success of the northern spotted owl. *Ecosphere* 2(6): art65.

Hessburg, Paul, F., Thomas A. Spies, David A. Perry, Carl N. Skinner, Alan H. Taylor, Peter M. Brown, Scott L. Stephens, Andrew J. Larson, Derek J. Churchill, Nicholas A. Povak, Peter H. Singleton, Brenda McComb, William J. Zielinski, Brandon M. Collins, R. Brion Salter, John J.

Hicke, J.A., M.C. Johnson, J.L. Hayes, and H.K. Preisler. 2012. Effects of bark beetle-caused tree mortality on wildfire. *Forest Ecology and Management* 271: 81-90.

Innes, R.J.; Van Vuren, D.H.; Kelt, D.A.; Johnson, M.L.; Wilson, J.A.; Stine, P.A. 2007. Habitat associations of dusky-footed woodrats (*Neotonia fuscipes*) in mixed-conifer forest of the northern Sierra Nevada. *Journal of Mammalogy* 88:1523-1531.

Jones, G., R. J. Gutierrez, D. Tempel, B. Zuckeberg, and M. Z. Peery. In Review. Using dynamic occupancy models to identify refugia and inform climate change adaptation strategies. *Journal of Applied Ecology*.

Jones, G*. M., R. J. Gutiérrez, D. J. Tempel, S. A. Whitmore, W. J. Berigan, and M. Z. Peery. In Press. Megafires: an emerging threat to old-forest species. *Frontiers in Ecology and the Environment*.

Keanem, Jerry F. Franklin, Greg Riegel. 2016. Tamm Review: Management of mixed-severity fire regime forests in Oregon, Washington, and Northern California. *Forest Ecology and Management*. Volume 366, 15 April 2016, Pages 221–250

Kelt et al. 2013. *Journal of Mammalogy*, 94(6):1197-1213.

Kennedy, M.C., and Johnson. 2014. Fuel treatment prescriptions alter spatial patterns of fire severity around the wildland–urban interface during the Wallow Fire, Arizona, USA. *Forest Ecology and Management* 318:122-132.

Kilgore, B. M., and D. Taylor. 1979. Fire history of a Sequoia mixed conifer forest. *Ecology* 60:129-142.

- Knapp, E.E. 2015. Long-term dead wood changes in a Sierra Nevada mixed conifer forest: habitat and fire hazard implications. *Forest Ecology and Management*. 339: 87-95.
- Knapp, E. E., C. N. Skinner, M. P. North, and B. L. Estes. 2013. Long-term overstory and understory change following logging and fire exclusion in a Sierra Nevada mixed-conifer forest. *Forest Ecology and Management* 310:903–914.
- Kolb, T.E., C.J. Fettig, B.J. Bentz, J.E. Stewart, A.S. Weed, J.A. Hicke, and M.P. Ayres. 2015. Insects and pathogens. In Vose, J., J. Clark, and C. Luce, eds. *Effects of Drought on Forest Ecosystems: A Comprehensive Science Synthesis for the U.S. Forest Sector*. SRS-GTR-XXX. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station, in press .
- Kroll, A. J., T. L. Fleming, and L. L. Irvin. 2010. Site occupancy dynamics of northern spotted owls in the eastern Cascades, Washington, USA, 1990–2003. *Journal of Wildlife Management* 74:1264–1274.
- Larson, A.J., D. Churchill. 2012. Tree spatial patterns in fire-frequent forests of western North America, including mechanisms of pattern formation and implications for designing fuel reduction and restoration treatments. *Forest Ecology and Management* 267:74-92.
- Laudenslayer, W.F., Darr, H.H., 1990. Historical effects of logging on forests of the Cascade and Sierra Nevada Ranges of California. *Trans. West. Sect. Wildl. Soc.* 26: 12–23.
- Laymon, S. A. 1988. The ecology of the spotted owl in the central Sierra Nevada, California. PhD Dissertation, University of California, Berkeley.
- Lee, D. E., et al. 2012. Dynamics of breeding-season site occupancy of the California spotted owl in burned forests. *Condor* 114:792-802.
- Lee, D. E., et al. 2013. Influence of fire and salvage logging on site occupancy of spotted owls in the San Bernardino and San Jacinto mountains of California. *Journal of Wildlife Management* 77:1327-1341.
- Lee, D. E. and Bond, M. L. 2015. Occupancy of California Spotted Owl sites following a large fire in the Sierra Nevada, California. *The Condor* 117:228-236.
- Lehmkuhl, J.; Gaines, W; Peterson, D.W.; Bailey, J; Youngblood, A, tech. eds. 2015. *Silviculture and monitoring guidelines for integrating restoration of dry mixed-conifer forest and spotted owl habitat management in the eastern Cascade Range*. Gen. Tech. Rep. PNW-GTR-915. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 158 p.
- Livezy, K. B. 2009. Range Expansion of Barred Owls, Part I: Chronology and Distribution. *American Midland Naturalist* 161: 49-56.

- Long, J.N., Dean, T.J., Roberts, S.D., 2004. Linkages between silviculture and ecology: examination of several important conceptual models. *Forest Ecology and Management* 200, 249–261.
- Long, JN, and JD Shaw. 2012. A Density Management Diagram for Even-Aged Sierra Nevada Mixed-Conifer Stands. *Western Journal of Applied Forestry* 27 (4), 187-195
- Lydersen, J, M. North, E. Knapp, and B. Collins. 2013. Quantifying spatial patterns of tree groups and gaps in mixed-conifer forests: Reference conditions and long-term changes following fire suppression and logging. *Forest Ecology and management* (304): 370-382.
- Mallek, C., H. Safford, J. Viers, and J. Miller. 2013. Modern departures in fire severity and area vary by forest type, Sierra Nevada and southern Cascades, California, USA. *Ecosphere* 4:1-28.
- Martinez-Vilalta, J., F. Lloret, and D.D. Breshears. 2012. Drought-induced forest decline: Causes, scope and implications. *Biological Letters* 8:689-691.
- McDowell, N.G., and C.D. Allen. 2015. Darcy's law predicts widespread forest mortality under climate warming. *Nature Climate Change* 5: 669-672.
- Meyer, M.D.; Kelt, D.A.; North, M.P. 2005. Nest trees of northern flying squirrels in the Sierra Nevada. *Journal of Mammalogy* 86:275-280.
- Miller, J.M. 1926. The western pine beetle control problem. *Journal of Forestry* 24:897-910.
- Miller, J. D., and H. D. Safford. 2012. Trends in wildfire severity 1984-2010 in the Sierra Nevada, Modoc Plateau and southern Cascades, California, USA. *Fire Ecology* 8:41-57.
- Miller, J. D., H. D. Safford, M. Crimmins, and A. E. Thode. 2009. Quantitative evidence for increasing forest fire severity in the Sierra Nevada and southern Cascade Mountains, California and Nevada, USA. *Ecosystems* 12:16-32.
- Minnich, R. A. (2007). Southern California conifer forests. In M. G. Barbour, T. Keeler-Wolf, & A. A. Schoenherr (Eds.), *Terrestrial Vegetation of California* (pp. 502–538). Berkeley, CA: University of California Press.
- Moen, C. A., and R. J. Gutiérrez. 1997. California spotted owl habitat selection in the central Sierra Nevada. *Journal Wildlife Management* 61:1281-1287.
- Munton, T. E., K. D. Johnson, G. N. Steger, and G. P. Eberlein. 1997. The diet of California spotted owls in riparian deciduous and oak habitats of the southern Sierra Nevada. In: Pillsbury, Norman H.; Verner, Jared; Tietje, William D., technical coordinators. *Proceedings of a symposium on oak woodlands: ecology, management, and urban interface issues; 19-22 March 1996; San Luis Obispo, CA. Gen. Tech. Rep. PSW-GTR-160. Berkeley, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture; 683-687.*
- Munton, T E. K. D. Johnson, G, N. Steger, and G. P. Eberlein. 2002. Diets of California spotted owls in the Sierra National Forest. In: Verner, Jared, tech. ed. *Proceedings of a symposium on*

the Kings River Sustainable Forest Ecosystems Project: progress and current status; 1998 January 26; Clovis, CA. Gen. Tech. Rep. PSW-GTR-183. Albany, C: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 99-105.

North, M., G. Steger, R. Denton, G. Eberlein, T. Munton, and K. Johnson. 2000. Association of weather and nest-site structure with reproductive success in California spotted owls. *Journal of Wildlife Management*. 64: 797-807.

North, M., P. Stine, K. O'Hara, W. Zielinski, and S. Stephens. 2009. An ecosystem management strategy for Sierran mixed-conifer forests. USDA Forest Service, PSW General Technical Report PSW-GTR-220.

North, M., M. Hurteau, R. Fiegenger, and M. Barbour. 2005. Influence of fire and El Nino on tree recruitment varies by species in Sierran mixed conifer. *Forest Science* 51: 187-197.

North, M. P. Stine, K. O'Hara, W. Zielinski, and S. Stephens. 2009. An Ecosystems Management Strategy for Sierra Mixed-Conifer Forests. US Dept. Agriculture Forest Service Pacific Southwest Research Station. General Technical Report PSW-GTR-220 w/ addendum. 52 pages.

North, M.P., B.M. Collins, and S.L. Stephens. 2012. Using fire to increase the scale, benefits and future maintenance of fuels treatments. *Journal of Forestry* 110(7):392-401.

Oliver, W.W. 1995. Is self-thinning in ponderosa pine ruled by *Dendroctonus* bark beetles? In: *Proceedings of the 1995 National Silviculture Workshop*. GTR-RM-267. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO, pp. 213-218.

Olson, G. S., R. G. Anthony, E. D. Forsman, S. H. Ackers, P. J. Loschl, J. A. Reid, K. M. Dugger, E. M. Glenn, and W. Ripple. 2005. Modeling of site occupancy dynamics for northern spotted owls with emphasis on the effects of barred owls. *Journal of Wildlife Management* 69:918-932.

Parsons, D. J., and S. H. Debenedetti. 1979. Impact of fire suppression on a mixed-conifer forest. *Forest Ecology and Management* 2:21-33.

Peery, M. Z., R. J. Gutiérrez, R. Kirby, O. E. LeDee, and W. S. LaHaye. 2012. Climate change and spotted owls: potentially contrasting responses in the southwestern United States. *Global Change Biology*. 18:865-880.

Phillips, C. E., D. Tempel, R. J. Gutiérrez. 2010. Do California spotted owls select nest trees close to forest edges? *Journal of Raptor Research* 44:311-314.

Pyare, S.; Longland, W. 2002. Interrelationships among northern flying squirrels, truffles, and microhabitat structure in Sierra Nevada old-growth habitat. *Canadian Journal of Forest Research* 32:1016-1024.

Regelbrugge, J.C., and S.G. Conard. 1993. Modeling tree mortality following wildfire in *Pinus ponderosa* forests in the central Sierra Nevada of California. *International Journal of Wildland Fire* 3:139-148.

Roberts, S. L., et al. 2011. Effects of fire on spotted owl site occupancy in a late-successional forest. *Biological Conservation* 144: 610-619.

Roberts, S. L., D. A. Kelt, J. W. van Wagtenonk, A. K. Miles, and M. D. Meyer. 2015. Effects of fire on small mammal communities in frequent-fire forests in California. *Journal of Mammalogy* 96:107-119.

Roberts, K., et al. 2015. The occurrence and occupancy status of California spotted owl on Sierra Pacific Industries' lands in the Sierra Nevada, California. Sierra Pacific Industries. Unpublished Draft Report.

Safford, H. D., M. North, and M. D. Meyer. 2012. Chapter 3: Climate change and the relevance of historical forest conditions. Pages 23-46 in M. North, editor. *Managing Sierra Nevada forests*. General Technical Report PSW-GTR-237 U. S. Department of Agriculture, Forest Service, Pacific Southwest Research Station, Albany, CA.

Safford and Stevens in review. Natural Range of Variation (NRV) for yellow pine and mixed conifer forests 1 in the Sierra Nevada, southern Cascades, and Modoc and Inyo National. General Technical Report (in review). For related information and earlier version see: http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5434331.pdf

Scholl, A.E., and A.H. Taylor. 2010. Fire regimes, forest change, and self-organization in an old-growth mixed-conifer forest, Yosemite National Park, USA. *Ecological Applications* 20: 362-380.

Seamans, M. E., et al. 2004. Southernmost record of a spotted owl x barred owl hybrid in the Sierra Nevada. *Western Birds* 35: 173-174.

Seamans, M. E., and R. J. Gutiérrez. 2006. Spatial dispersion of spotted owl sites and the role of conspecific attraction on settlement patterns. *Ethology Ecology & Evolution* 18:99-111.

Seamans, M. E., and R. J. Gutiérrez. 2007. Habitat selection in a changing environment: the relationship between habitat alteration and spotted owl territory occupancy and breeding dispersal. *Condor* 109:566-576.

Short, K.C. 2013. Spatial wildfire occurrence data for the United States, 1992-2011 [FPA_FOD_20130422]. USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO. <http://dx.doi.org/10.2737/RDS-2013-0009>

Show, S.B., and E.I. Kotok. 1923. Forest fires in California, 1911-1920. US Department of Agriculture Department Circular 243.

Smith et al 2005. Patterns of mortality in an old-growth mixed conifer forest of the Southern Sierra Nevada, California. *Forest Science* 51(3) 2005. (higher mortality in larger trees)

Sollmann et al. 2016. *Forest Ecology and Management* 373 (2016) 100–107.

Steel, Z. L., H. D. Safford, and J. H. Viers. 2015. The fire frequency-severity relationship and the legacy of fire suppression in California forests. *Ecosphere* 6:8

- Steger, G., et al. 2006. First documented record of the barred owl in the southern Sierra Nevada. *Western Birds* 37:106-109.
- Stephens, S. L., et al. 2014. California spotted owl, songbird, and small mammal responses to landscape fuel treatments. *BioScience*: biu137
- Stephens, S. L., J. K. Agee, P. Z. Fulé, M. P. North, W. H. Romme, T. W. Swetnam, and M. G. Turner. 2013. Managing forests and fire in changing climates. *Science* 342:41-42.
- Stephens, S.L. 2000. Mixed conifer and upper montane forest structure and uses in 1899 from the Central and Northern Sierra Nevada, CA. *Madrono* 47:43-52.
- Stephens, S.L., R.E. Martin, and N.E. Clinton. 2007. Prehistoric fire area and emissions from California's forests, woodlands, shrublands and grasslands. *Forest Ecology and Management* 251:205-216.
- Stephens S.L, Fry D, Franco-Vizcano E. 2008. Wildfire and forests in Northwestern Mexico: the United States wishes it had similar fire 'problems'. *Ecology and Society*. 13(2): 10
- Stephens, S.L., J.D. Miller, B.M. Collins, M.P. North, J.J. Keane, and S.L. Roberts. In Review. Wildfire impacts on California spotted owl nesting habitat in the Sierra Nevada. *Ecosphere*.
- Stephens, S.L., J.J. Moghaddas, C. Edminster, C.E. Fiedler, S. Hasse, M. Harrington, J.E. Keeley, J.D. McIver, K. Metlen, C.N. Skinner, and A. Youngblood. 2009. Fire treatment effects on vegetation structure, fuels, and potential fire severity in western U.S. forests. *Ecological Applications* 19: 305-320.
- Stephens, S.L., Lydersen, J.M., Collins, B.M., Fry, D.L., Meyer, M.D. 2015. Historical and current landscape-scale ponderosa pine and mixed-conifer forest structure in the Southern Sierra Nevada. *Ecosphere* 6(5) art 79.
- Swarthout, E. C. and R. J. Steidl 2001. Flush responses of Mexican spotted owls to recreationists. *The Journal of Wildlife Management* 65:312-317.
- Swarthout, E. C. and R. J. Steidl 2003. Experimental effects of hiking on breeding Mexican spotted owls. *Conservation Biology* 17:307-315.
- Taylor, A. H. 2004. Identifying forest reference conditions on early cut-over lands, Lake Tahoe Basin, USA. *Ecological Applications* 14:1903-1920.
- Taylor, A.H., A.M. Vandervlugt, R.S. Maxwell, R.M. Beaty, C. Airey, and C.N. Skinner. 2014. Changes in forest structure, fuels and potential fire behavior since 1873 in the Lake Tahoe Basin, USA. *Applied Vegetation Science* 17: 17-31.
- Tempel, D., and R. J. Gutiérrez. 2003. Fecal Corticosterone Levels in California Spotted Owls Exposed to Low-intensity Chainsaw sound. *Wildlife Society Bulletin* 31:698-702.

- Tempel, D. J., and R. J. Gutiérrez. 2004. Factors related to fecal corticosterone levels in California spotted owls: implications for assessing chronic stress. *Conservation Biology* 18:1-11.
- Tempel, D., R. J. Gutierrez, S. Whitmore, M. Reetz, W. Berigan, R. Stoelting, M. E. Seamans, and M. Z. Peery. 2014a. Effects of forest management on California spotted owls: Implications for reducing wildfire risk in fire-prone forests. *Ecological Applications*. 24:2089–2106.
- Tempel, D., M. Z. Peery, and R. J. Gutierrez. 2014b. Integrated population models for wildlife conservation: An example with the California spotted owl (*Strix occidentalis occidentalis*). *Ecological Modelling* 289:86-95.
- Thompson, J.R., T.A. Spies, and L.M. Ganio. 2007. Reburn severity in managed and unmanaged vegetation in a large wildfire. *Proceedings of the National Academy of Science* 104: 10743-10748.
- Thraillkill, J., and M. A. Bias. 1989. Diets of breeding and nonbreeding California spotted owls. *Journal of Raptor Research*, 23: 39-41.
- U.S. Fish and Wildlife Service. 2011. Revised Recovery Plan for the Northern Spotted Owl (*Strix occidentalis caurina*). U.S. Fish and Wildlife Service, Portland, Oregon.
- Van de Water, K.M., and H.D. Safford. 2011. A summary of fire frequency estimates for California vegetation before Euro-American settlement. *Fire Ecology* 7:26-58
- Van Lanen, N. J., et al. 2011. Who hits and hoots at whom? Potential for interference competition between barred and northern spotted owls. *Biological Conservation* 144: 2194-2201.
- Van Mantgem et al 2009. Widespread Increase of Tree Mortality Rates in the Western United States. *Science* 323, 521.
- Van Mantgem et al. 2013
- van Wagtendonk, J. W. 2007. The history and evolution of wildland fire use. *Fire Ecology* 3:3-17.
- van Wagtendonk, J.W., K.A. van Wagtendonk, and A.E. Thode. 2012. Factors associated with the severity of intersecting fires in Yosemite National Park, California, USA. *Fire Ecology* 8 (1): 11-31.
- Verner, J.; Gutiérrez, R.J.; Gould G.I., Jr. 1992a. The California spotted owl: general biology and ecological relations. In: Verner, J.; McKelvey, K.S.; Noon, B.R.; Gutiérrez, R.J.; Gould, G.I., Jr.; Beck, T.W., tech. coords. *The California Spotted Owl: A Technical Assessment of its Current Status*. Gen. Tech. Rep. PSW-GTR-133. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 55–77.
- Verner, J.; McKelvey, K.S.; Noon, B.R.; Gutiérrez, R.J.; Gould G.I., Jr.; Beck, T.W. 1992b. Assessment of the current status of the California spotted owl, with recommendations for management. In: Verner, J.; McKelvey, K.S.; Noon, B.R.; Gutiérrez, R.J.; Gould, G.I., Jr.; Beck, T.W., tech. coords. *The California Spotted Owl: A Technical Assessment of its Current Status*.

Gen. Tech. Rep. PSW-GTR-133. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 3–26.

Vose, J.M.; Clark, J.S.; Luce, C.H.; Patel-Weynand, T., eds. 2016. Effects of drought on forests and rangelands in the United States: a comprehensive science synthesis. Gen. Tech. Rep. WO-93b. Washington, DC: U.S. Department of Agriculture, Forest Service, Washington Office. 289 p.

Ward, J. P. Jr., R. J. Gutiérrez, and B. R. Noon. 1998. Habitat selection by northern spotted owls: the consequences of prey selection and distribution. *Condor* 100:79-92.

Wasser, S. K., K. Bevis, G. King, and E. Hanson. 1997. Noninvasive physiological measures of disturbance in the northern spotted owl. *Conservation Biology* 11:1019-1022.

Waters, J. R., and C. J. Zabel. 1995. Northern flying squirrel densities in fir forests of northeastern California. *Journal of Wildlife Management* 59: 858-866.

Wiens, J. D., R. G. Anthony, and E. D. Forsman. 2014. Competitive interactions and resource partitioning between northern spotted owls and barred owls in western Oregon. *Wildlife Monographs* 185:1-50.

Wiens, J. D., Dugger, K. M., Lewicki, K. E., and Simon, D. C. 2016. Effects of experimental removal of barred owls on population demography of northern spotted owls in Washington and Oregon—2015 progress report (No. 2016-1041). US Geological Survey.

Williams, P. J., R. J. Gutiérrez, and S. A. Whitmore. 2011. Home range and habitat selection of spotted owls in the central Sierra Nevada. *Journal of Wildlife Management* 75:333-343.

Williams, A.P., C.D. Allen, A.K. Macalady, D. Griffin, C.A. Woodhouse, D.M. Meko, T.W. Swetnam, S.A. Rauscher, R. Seager, H.D. Grissino-Mayer, J.S. Dean, E.R. Cook, C. Gangodagamage, M. Cai, and N.G. McDowell. 2013. Temperature as a potent driver of regional forest drought stress and tree mortality. *Nature Clim. Change* 3: 292-297.

Yackulic, C. B., et al. 2012. Neighborhood and habitat effects on vital rates: expansion of the Barred Owl in the Oregon Coast Ranges. *Ecology* 93:1953-1966.

Yackulic, C. B., et al. 2014. The roles of competition and habitat in the dynamics of populations and species distributions. *Ecology* 95:265-279.

York, R.A., Heald, R.C., Battles, J.J., York, J.D., 2004. Group selection management in conifer forests: relationships between opening size and tree growth. *Can. J. For. Res.* 34 (3), 630–641.

York, R., Thomson, A., Keller, R.K., and Collins, B.M. 2014. Biomass harvests and alternatives in mixed conifer plantations. California Energy Commission. Publication number: CEC-XXX-2014-XXX.

Zabel, C. J., G. N. Steger, K. S. McKelvey, G. P. Eberlein, B. R. Noon, and Verner, J., 1992. The California spotted owl: general biology and ecological relations. Pages 149-163. In Verner, J. et al. [eds]. *The California spotted owl: a technical assessment of its current status*. U.S.D.A.

Pacific Southwest Forest and Range Experiment Station. General Technical Report. PSW-GTR-133.

Zald, H., A. Gray, M. North, and R. Kern. (2008). Initial tree regeneration responses to fire and thinning treatment in a Sierra Nevada mixed-conifer forest, USA. *Forest Ecology and Management* 256 , 168-179.

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