

## Fire and Fire Surrogate Study: Literature Cited

- Abbott, I.; Burbidge, T.; Strehlow, K.; Mellican, A.; Wills, A. 2003.** Logging and burning impacts on cockroaches, crickets and grasshoppers, and spiders in Jarrah forest, Western Australia. *Forest Ecology and Management*. 174(1-3): 383-399.
- Abella, S.R.; Covington, W.W. 2004.** Monitoring an Arizona ponderosa pine restoration: sampling efficiency and multivariate analysis of understory vegetation. *Restoration Ecology*. 12(3): 359-367.
- Abrahamson, W.G.; Abrahamson, J.R. 1996.** Effects of a low-intensity winter fire on long-unburned Florida sand pine scrub. *Natural Areas Journal*. 16(3): 171-183.
- Abrams, M.D. 1992.** Fire and the development of oak forests. *Bioscience*. 42(5): 346-353.
- Abrams, M.D. 1998.** The red maple paradox. *Bioscience*. 48(5): 355-364.
- Abrams, M.D.; Mostoller, S.A. 1995.** Gas exchange, leaf structure and nitrogen in contrasting successional tree species growing in open and understory sites during a drought. *Tree Physiology*. 15(6): 361-370.
- Adams, E.M.; Morrison, M.L. 1993.** Effects of forest stand structure and composition on red-breasted nuthatches and brown creepers. *Journal of Wildlife Management*. 57(3): 616-629.
- Adams, A.S.; Rieske, L.K. 2003.** Prescribed fire affects white oak seedling phytochemistry: implications for insect herbivory. *Forest Ecology and Management*. 176(1-3): 37-47.
- Agee, J.K. 1993.** *Fire ecology of the Pacific Northwest forests*. Washington, DC: Island Press. 493 p.
- Agee, J.K.; Lehmkuhl, J.F., comps. 2009.** *Dry forests of the northeastern Cascades Fire and Fire Surrogate project site, Mission Creek, Okanogan-Wenatchee National Forest*. Res. Pap. PNW-RP-577. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 158 p.
- Agee, J.K.; Lolley, M.R. 2006.** Thinning and prescribed fire effects on fuels and potential fire behavior in an eastern Cascades forest, Washington. *Fire Ecology*. 2(2): 142-158.

## Fire and Fire Surrogate Study: Literature Cited

- Agee, J.K.; Skinner, C.N. 2005.** Basic principles of forest fuel reduction treatments. *Forest Ecology and Management*. 211(1/2): 83-96.
- Ahlgren, C.E. 1966.** Small mammals and reforestation following prescribed burning. *Journal of Forestry*. 64(9): 614-618.
- Albrecht, M.A.; McCarthy, B.C. 2006.** Effects of prescribed fire and thinning on tree recruitment patterns in central hardwood forests. *Forest Ecology and Management*. 226(1-3): 88-103.
- Amacher, A.J.; Barrett, R.H.; Moghaddas, J.J.; Stephens, S.L. 2008.** Preliminary effects of fire and mechanical fuel treatments on the abundance of small mammals in the mixed-conifer forest of the Sierra Nevada. *Forest Ecology and Management*. 255(8/9): 3193-3202.
- Amman, G.D.; Ryan, K.C. 1991.** Insect infestation of fire-injured trees in the Greater Yellowstone Area. Res. Note INT-398. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 9 p.
- Ampoorter, E.; Goris, R.; Cornelis, W.M.; Verheyen, K. 2007.** Impact of mechanized logging on compaction status of sandy forest soils. *Forest Ecology and Management*. 241(1-3): 162-174.
- Andrews, P.L.; Bevins, C.; Carlton, D. 2002.** BehavePlus fire modeling system, Version 1.0.0. [Fort Collins, CO]: U.S. Forest Service, Rocky Mountain Research Station, Systems for Environmental Management. 108 p.
- Ansley, J.S.; Battles, J.J. 1998.** Forest composition, structure, and change in an old-growth mixed conifer forest in the northern Sierra Nevada. *Journal of the Torrey Botanical Society*. 125(4): 297-308.
- Antos, J.A.; McCune, B.; Bara, C. 1983.** The effect of fire on an ungrazed western Montana grassland. *American Midland Naturalist*. 110(2): 354-364.
- Antos, J.A.; Halpern, C.B.; Miller, R.E.; Cromack, K., Jr.; Halaj, M.G. 2003.** Temporal and

## Fire and Fire Surrogate Study: Literature Cited

spatial changes in soil carbon and nitrogen after clearcutting and burning of an old-growth Douglas-fir forest. Res. Pap. PNW-RP-552. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 19 p.

**Apigian, K.O. 2005.** Forest disturbance effects on insect and bird communities: insectivorous birds in coast live oak woodlands and leaf litter arthropods in the Sierra Nevada. Berkeley, CA: University of California Berkeley. 178 p. Ph.D. dissertation.

**Apigian, K.O.; Dahlsten, D.L.; Stephens, S.L. 2006a.** Biodiversity of Coleoptera and the importance of habitat structural features in a Sierra Nevada mixed-conifer forest. *Environmental Entomology*. 35(4): 964-975.

**Apigian, K.O.; Dahlsten, D.L.; Stephens, S.L. 2006b.** Fire and fire surrogate treatment effects on leaf litter arthropods in a western Sierra Nevada mixed-conifer forest. *Forest Ecology and Management*. 221(1-3): 110-122.

**Arno, S.F.; Smith, H.Y.; Krebs, M.A. 1997.** Old growth ponderosa pine and western larch stand structures: influences of pre-1900 fires and fire exclusion. Res. Pap. INT-RP-495. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 20 p.

**Arthur, M.A.; Paratley, R.D.; Blankenship, B.A. 1998.** Single and repeated fires affect survival and regeneration of woody and herbaceous species in an oak-pine forest. *Journal of the Torrey Botanical Society*. 125(3): 225-236.

**Artman, V.L.; Downhower, J.F. 2003.** Wood thrush (*Hylocichla mustelina*) nesting ecology in relation to prescribed burning of mixed-oak forest in Ohio. *The Auk*. 120(3): 874-882.

**Ashton, P.M.S.; Berlyn, G.P. 1992.** A comparison of leaf physiology and anatomy of *Quercus* (Section *Erythrobalanus*-Fagaceae) species in different light environments. *American Journal of Botany*. 81(5): 589-597.

**Baer, S.G.; Blair, J.M.; Collins, S.L.; Knapp, A.K. 2004.** Plant community response to

## Fire and Fire Surrogate Study: Literature Cited

resource availability and heterogeneity during restoration. *Oecologia*. 139(4): 617-629.

**Bagne, K.E.; Purcell, K.L.; Rotenberry, J.T. 2008.** Prescribed fire, snag population dynamics, and avian nest site selection. *Forest Ecology and Management*. 255(1): 99-105.

**Bais, H.P.; Vepachedu, R.; Gilroy, S.; Callaway, R.M.; Vivanco, J.M. 2003.** Allelopathy and exotic plant invasion: from molecules and genes to species interactions. *Science*. 301(5638): 1377-1380.

**Baker, S.C.; Richardson, A.M.M.; Seeman, O.D.; Barmuta, L.A. 2004.** Does clearfell, burn and sow silviculture mimic the effect of wildfire? A field study and review using litter beetles. *Forest Ecology and Management*. 199(2/3): 443-448.

**Balda, R.P.; Gaud, W.S.; Brawn, J.D. 1983.** Predictive models for snag nesting birds. In: Davis, J.W.; Goodwin, G.A.; Ockenfels, R.A., tech. coords. Proceedings, snag habitat management. Gen. Tech. Rep. RM-99. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 216-222.

**Bartuszevige, A.M.; Kennedy, P.L. 2009.** Synthesis of knowledge on the effects of fire and thinning treatments on understory vegetation in U.S. dry forests. Special Report 1095. Corvallis, OR: Oregon State University Press. 159 p.

**Battles, J.J.; Shlisky, A.J.; Barrett, R.H.; Heald, R.C.; Allen-Diaz, B.H. 2001.** The effects of forest management on plant species diversity in a Sierran conifer forest. *Forest Ecology and Management*. 146(1-3): 211-222.

**Beaudry, S.; Duchesne, L.C.; Cote, B. 1997.** Short-term effects of three forestry practices on carabid assemblages in a jack pine forest. *Canadian Journal of Forest Research*. 27(12): 2065-2071.

**Beck, A.M.; Vogl, R.J. 1972.** The effects of spring burning on rodent populations in a brush prairie savanna. *Journal of Mammalogy*. 53(2): 336-346.

**Bellocq, M.I.; Jones, C.; Dey, D.C.; Turgeon, J.J. 2005.** Does the shelterwood method to

## Fire and Fire Surrogate Study: Literature Cited

regenerate oak forests affect acorn production and predation? *Forest Ecology and Management*. 205(1-3): 311-323.

**Bennett, L.T.; Adams, M.A. 2004.** Assessment of ecological effects due to forest harvesting: approaches and statistical issue. *Journal of Applied Ecology*. 41(4): 585-598.

**Berger, A.L.; Puettmann, K.J.; Host, G.E. 2004.** Harvesting impacts on soil and understory vegetation: the influence of season of harvest and within-site disturbance patterns on clear-cut aspen stands in Minnesota. *Canadian Journal of Forest Research*. 34(10): 2159-2168.

**Biswell, H.H.; Kallender, J.R.; Komarek, R.; Vogl, J.; Weaver, H. 1973.** Ponderosa fire management. Misc. Publi. No. 2. Tallahassee, FL: Tall Timbers Research Station. 49 p.

**Black, T.A.; Harden, J.W. 1995.** Effect of timber harvest on soil carbon storage at Blodgett Experimental Forest, California. *Canadian Journal of Forest Research*. 25(8): 1385-1396.

**Blair, J.M.; Crossley, D.A.; Callahan, L.C. 1992.** Effects of litter quality and microarthropods on N dynamics and retention of exogenous <sup>15</sup>N in decomposing litter. *Biology and Fertility of Soils*. 12(4): 241-252.

**Blanchard, B.P. 2003.** Community perceptions of wildland fire risk and fire hazard reduction strategies at the wildland-urban interface in the northeastern United States. Amherst, MA: University of Massachusetts. 121 p. M.R.P. thesis.

**Blankenship, B.A.; Arthur, M.A. 1999.** Soil nutrient and microbial response to prescribed fire in an oak-pine ecosystem in eastern Kentucky. In: Stringer, J.W.; Loftis, D.L.; Lacki, M.; Barnes, T.; Muller, R.A., eds. Proceedings, 12<sup>th</sup> central hardwood forest conference. Gen. Tech. Rep. SRS-24. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 39-50

**Block, W.M.; Ganey, J.L.; Scott, P.E.; King, R. 2005.** Prey ecology of Mexican spotted owls in pine-oak forests of northern Arizona. *Journal of Wildlife Management*. 69(2): 618-629.

**Bock, C.E.; Bock, J.H. 1983.** Responses of birds and deer mice to prescribed burning in

## Fire and Fire Surrogate Study: Literature Cited

ponderosa pine. *Journal of Wildlife Management*. 47(3): 836-840.

**Boerner, R.E.J. 2005.** Soil, fire, water, and wind: How the elements conspire in the forest context. In: Dickinson, M.B., ed. *Proceedings: fire in eastern oak forests: delivering science to land managers*. GTR-NRS-P-1. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 104-122.

**Boerner, R.E.J.; Brinkman, J.A. 2003.** Fire frequency and soil enzyme activity in southern Ohio oak-hickory forests. *Applied Soil Ecology*. 23(2): 137-146.

**Boerner, R.E.J.; Brinkman, J.A. 2004.** Spatial, temporal, and restoration treatment effects on soil resources in mixed-oak forests of southeastern Ohio. Yaussy, D.A.; Hix, D.M.; Long, R.P.; Goebel, P.C., eds. *Proceedings, 14<sup>th</sup> central hardwood forest conference*. GTR-NE-316. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station: 241-254.

**Boerner, R.E.J.; Brinkman, J.A.; Smith, A. 2005.** Seasonal variations in enzyme activity and organic carbon in soil of a burned and unburned hardwood forest. *Soil Biology and Biochemistry*. 37(8): 1419-1426.

**Boerner, R.E.J.; Brinkman, J.A.; Yaussy, D.A. 2007.** Ecosystem restoration treatments affect soil physical and chemical properties in Appalachian mixed-oak forests. In: Buckley, D.S.; Clatterbuck, W.S., eds. *Proceedings, 15<sup>th</sup> central hardwood forest conference*. e-Gen. Tech. Rep. SRS-101. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 107-115.

**Boerner, R.E.J.; Coates, A.T.; Yaussy, D.A.; Waldrop, T.A. 2008a.** Assessing ecosystem restoration alternatives in eastern deciduous forests: the view from belowground. *Restoration Ecology*. 16(3): 425-434.

## Fire and Fire Surrogate Study: Literature Cited

- Boerner, R.E.J.; Decker, K.L.M.; Sutherland, E.K. 2000.** Prescribed burning effects on soil enzyme activity in a southern Ohio hardwood forest: a landscape scale analysis. *Soil Biology and Biochemistry*. 32(7): 899-908.
- Boerner, R.E.J.; Gai, C.; Huang, J.; Miesel, J.R. 2008d.** Initial effects of fire and mechanical thinning on soil enzyme activity and nitrogen transformations in eight North American forest ecosystems. *Soil Biology and Biochemistry*. 40(12): 3076-3085.
- Boerner, R.E.J.; Huang, J.; Hart, S.C. 2008b.** Fire, thinning, and the carbon economy: effects of fire and fire surrogate treatments on estimated carbon storage and sequestration rate. *Forest Ecology and Management*. 255(1): 3081-3097.
- Boerner, R.E.J.; Huang, J.; Hart, S.C. 2008c.** Impacts of fire and fire surrogate treatments on ecosystem nitrogen storage patterns: similarities and differences between eastern and western North America. *Canadian Journal of Forest Research*. 38(12): 3056-3070.
- Boerner, R.E.J.; Huang, J.; Hart, S.C. 2009.** Impacts of fire and fire surrogate treatments on forest soil properties: a meta-analytical approach. *Ecological Applications*. 19(2): 338-358.
- Boerner, R.E.J.; Lord, T.R.; Peterson, J.C. 1988.** Prescribed burning in the oak-pine forest of the New Jersey pine barrens: effects on growth and nutrient dynamics of two *Quercus* species. *American Midland Naturalist*. 120(1): 108-119.
- Boerner, R.E.J.; Waldrop, T.A.; Shelburne, V.B. 2006.** Wildfire mitigation strategies affect soil enzyme activity and soil organic carbon in loblolly pine (*Pinus taeda*) forests. *Canadian Journal of Forest Research*. 36(12): 3148-3154.
- Boerner, R.E.J.; Waldrop, T.A.; Skinner, C.N.; Callaham, M.A.; Brinkman, J.A.; Smith, A. 2004.** Ecosystem restoration and wildfire management treatments affect soil organic matter and microbial activity in four contrasting forests. In: Yaussy, D.A.; Hix, D.M.; Long, R.P.; Goebel, P.C., eds. Proceedings, 14<sup>th</sup> central hardwood forest conference. Gen. Tech. Rep.

## Fire and Fire Surrogate Study: Literature Cited

NE-316. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station: 499.

**Boyer, W.D. 1993.** Season of burn and hardwood development in young longleaf pine stands. In: Brissette, J.C., ed. Proceedings, 7<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SO-93. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station: 511-515.

**Boyle, M.F. 2002.** Short-term response of bark beetles to fuel reduction treatments in the upper Piedmont. Clemson, SC: Clemson University. 87 p. M.S. thesis.

**Boyle, M.F.; Hedden, R.L.; Waldrop, T.A. 2004.** Impact of prescribed fire and thinning on host resistance to the southern pine beetle: preliminary results of the National Fire and Fire Surrogate study. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 60-64.

**Brady, M.J.; Slade, N.A. 2004.** Long-term dynamics of a grassland rodent community. *Journal of Mammalogy*. 85(3): 552-561.

**Brigham, R.M.; Grindal, S.D.; Firman, M.C.; Morissette, J.L. 1997.** The influence of structural clutter on activity patterns of insectivorous bats. *Canadian Journal of Zoology*. 75(1): 131-136.

**Brockway, D.G.; Lewis, C.E. 1997.** Long-term effects of dormant-season prescribed fire on plant community diversity, structure and productivity in a longleaf pine wiregrass system. *Forest Ecology and Management*. 96(1/2): 167-183.

**Brockway, D.G.; Outcalt, K.W.; Tomczak, D.J.; Johnson, E.E. 2005.** Restoration of longleaf pine ecosystems. Gen. Tech. Rep. SRS-GTR-83. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 34 p.

**Brose, P.H.; Van Lear, D.H. 1998.** Responses of hardwood advance regeneration to seasonal

## Fire and Fire Surrogate Study: Literature Cited

prescribed fires in oak-dominated shelterwood stands. *Canadian Journal of Forest Research*. 28(3): 331-339.

**Brown, C. 1995.** The DEERHORN case study: a production and cost analysis of a single-grip harvester and small cable yarder performing a thinning/salvage operation in eastern Oregon. Corvallis, OR: Oregon State University. 123 p. M.F. paper.

**Brown, J.K.; Marsden, M.A.; Ryan, K.C.; Reinhardt, E.D. 1985.** Predicting duff and woody fuel consumed by prescribed fire in the northern Rocky Mountains. Res. Pap. INT-337. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 23 p.

**Brudnak, L.; Waldrop, T.A.; Phillips, R.J. 2010.** Use of a thermocouple-datalogger system to evaluate overstory mortality. In: Stanturf, J.A., ed. Proceedings, 14<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 515-517.

**Bruederle, L.P.; Stearns, F.W. 1985.** Ice storm damage to a southern Wisconsin mesic forest. *Bulletin of the Torrey Botanical Club*. 112(2): 167-175.

**Brunson, M.W.; Shindler, B.A. 2004.** Geographic variation in social acceptability of wildland fuels management in the western United States. *Society and Natural Resources*. 17(8): 661-678.

**Buddle, C.M.; Spence, J.R.; Langor, D.W. 2000.** Succession of boreal forest spider assemblages following wildfire and harvesting. *Ecography*. 23(4): 424-436.

**Bull, E.L.; Parks, C.G.; Torgersen, T.R. 1997.** Trees and logs important to wildlife in the interior Columbia River basin. Gen. Tech. Rep. PNW-GTR-391. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 55 p.

## Fire and Fire Surrogate Study: Literature Cited

- Burgoyne, T.A.; DeLuca, T.H. 2009.** Short-term effects of forest restoration management on non-symbiotic nitrogen-fixation in western Montana. *Forest Ecology and Management*. 258(7): 1369-1375.
- Burnett, M.R.; August, P.V.; Brown, J.H.; Killingbeck, K.T. 1997.** The influence of geomorphological heterogeneity on biodiversity. I. A patch-scale perspective. *Conservation Biology*. 12(2): 363-370.
- Busse, M.D.; Simon, S.A.; Riegel, G.M. 2000.** Tree-growth and understory responses to low-severity prescribed burning in thinned *Pinus ponderosa* forests of central Oregon. *Forest Science*. 46(2): 258-268.
- Caldwell, T.G.; Johnson, D.W.; Miller, W.W.; Qualls, R.G. 2002.** Forest floor carbon and nitrogen losses due to prescription fire. *Soil Science Society of America Journal*. 66(1): 262-267.
- Callaham, M.A.; Anderson, P.H.; Waldrop, T.A.; Lione, D.J.; Shelburne, V.B. 2004.** Litter decomposition and soil respiration responses to fuel-reduction treatments in Piedmont loblolly pine forests. In: Connor, K.F., ed. *Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference*. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 25-29.
- Campbell, J.W.; Hanula, J.L.; Outcalt, K.W. 2008.** Effects of prescribed fire and other plant community restoration treatments on tree mortality, bark beetles, and other saproxylic Coleoptera of longleaf pine, *Pinus palustris* Mill, on the coastal plain of Alabama. *Forest Ecology and Management*. 254: 134-144.
- Campbell, J.W.; Hanula, J.L.; Waldrop, T.A. 2007a.** Effects of prescribed fire and fire surrogates on floral visiting insects of the Blue Ridge Province in North Carolina. *Biological Conservation*. 134(3): 393-404.

## Fire and Fire Surrogate Study: Literature Cited

- Campbell, J.W.; Hanula, J.L.; Waldrop, T.A. 2007b.** Observations of *Speyeria diana* (Diana Fritillary) utilizing forested areas in North Carolina that have been mechanically thinned and burned. *Southeastern Naturalist*. 6(1): 179-182.
- Carey, A.B. 2000.** Effects of new forest management strategies on squirrel populations. *Ecological Applications*. 10(1): 248-257.
- Carey, A.B. 2001.** Experimental manipulation of spatial heterogeneity in Douglas-fir forests: effects on squirrels. *Forest Ecology and Management*. 152(1-3): 13-30.
- Carey, A.B.; Harrington, C.A. 2001.** Small mammals in young forests: implications for management for sustainability. *Forest Ecology and Management*. 154(1/2): 289-309.
- Carey, A.B.; Wilson, S.M. 2001.** Induced spatial heterogeneity in forest canopies: responses of small mammals. *Journal of Wildlife Management*. 65(4): 1014-1027.
- Carter, M.C.; Dean, T.J.; Zhou, M.; Messina, M.G.; Wang, Z. 2002.** Short-term changes in soil C, N, and biota following harvesting and regeneration of loblolly pine (*Pinus taeda* L.). *Forest Ecology and Management*. 164(1-3): 67-88.
- Chalmers, S.R.; Hartsough, B.R. 2001.** Thinning and prescribed fire as methods to reduce fuel loading-a cost analysis. In: *Thinnings, a valuable forest management tool proceedings of an international conference*. (CD-ROM). Pointe-Claire, QC: Forest Engineering Research Institute of Canada.
- Chen, H.; Hicks, W. 2003.** High asymbiotic N<sub>2</sub> fixation rates in woody root after six years of decomposition: controls and implications. *Basic and Applied Ecology*. 4(5): 479-486.
- Chiang, J.M.; Brown, K.J. 2007.** Improving the budburst phenology subroutine in the forest carbon model PnET. *Ecological Modelling*. 205(3/4): 515-526.
- Chiang, J.M.; Brown, K.J. 2010.** The effects of thinning and burning treatments on within-canopy variation of leaf traits in hardwood forests of southern Ohio. *Forest Ecology and Management*. 260(6): 1065-1075.

## Fire and Fire Surrogate Study: Literature Cited

- Chiang, J.M.; McEwan, R.W.; Yaussy, D.A.; Brown, K.J. 2007.** The effects of prescribed fire and silvicultural thinning on the aboveground carbon stocks and net primary production of overstory trees in an oak-hickory ecosystem in southern Ohio. *Forest Ecology and Management*. 255(5/6): 1584-1594.
- Choromanska, U.; DeLuca, T.H. 2001.** Prescribed fire alters the impact of wildfire on soil biochemical properties in a ponderosa pine forest. *Soil Science Society of America Journal*. 65(1): 232-238.
- Choromanska, U.; DeLuca, T.H. 2002.** Microbial activity and nitrogen mineralization in forest mineral soils following heating: evaluation of post-fire effects. *Soil Biology and Biochemistry*. 34(2): 263-271.
- Christensen, N.L. 1977.** Fire and soil-plant nutrient relations in a pine-wiregrass savanna on the coastal plain of North Carolina. *Oecologia*. 31(1): 27-44.
- Cleaves, D.A.; Martinez, J.; Haines, T.K. 2000.** Influences on prescribed burning activity and costs in the National Forest System. Gen. Tech. Rep. SRS-37. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Research Station. 34 p.
- Clinton, B.D. 2004.** *Rhododendron maximum* L. In: Francis, J.K., ed. Wildland shrubs of the United States and its territories: taxonomic descriptions: vol. 1. Gen. Tech Rep. IIFT-GTR-26. San Juan, PR: U.S. Department of Agriculture, Forest Service, International Institute of Tropical Forestry, and Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 623-624.
- Clinton, B.D.; Vose, J.M.; Swank, W.T. 1996.** Shifts in aboveground and forest floor carbon and nitrogen pools after felling and burning in the southern Appalachians. *Forest Science*. 42(4): 431-441.
- Clinton, N.E.; Gong, P.; Scott, K. 2006.** Quantification of pollutants emitted from very large wildland fires in southern California, USA. *Atmospheric Environment*. 40(20): 3686-3695.

## Fire and Fire Surrogate Study: Literature Cited

- Coates, T.A. 2006.** Response of forest soil resources to fuel reduction in the southeastern Piedmont and southern Appalachian Mountains. Clemson, SC: Clemson University. 91 p. M.S. thesis.
- Coates, T.A.; Boerner, R.E.J.; Waldrop, T.A.; Yaussy, D.A. 2008.** Soil nitrogen transformations under alternative management strategies in Appalachian forests. Soil Science Society of America Journal. 72(2): 558-565.
- Coates, T.A.; Shelburne, V.B.; Waldrop, T.A.; Smith, B.R.; Hill, H.S., Jr.; Simon, D.M. 2010.** Forest soil response to fuel reduction treatments in the southern Appalachian Mountains. In: Stanturf, J.A., ed. Proceedings, 14<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 283-287.
- Cognato, A.I.; Sun, J.; Anducho-Reyes, M.A.; Owen, D.R. 2005.** Genetic variation and origin of red turpentine beetle (*Dendroctonus valens* LeConte) introduced to the People's Republic of China. Agricultural and Forest Entomology. 7(1): 87-94.
- Cole, K.L.; Klick, K.F.; Pavlovic, N.B. 1992.** Fire temperature monitoring during experimental burns at Indiana Dunes National Lakeshore. Natural Areas Journal. 12(4): 177-183.
- Cole, E.C.; McComb, W.C.; Newton, M.; Leeming, J.P.; Chambers, C.L. 1998.** Response of small mammals to clearcutting, burning, and glyphosate application in the Oregon Coast Range. Journal of Wildlife Management. 62(4): 1207-1216.
- Collins, B.M.; Moghaddas, J.J.; Stephens, S.L. 2007.** Initial changes in forest structure and understory plant communities following fuel reduction activities in a Sierra Nevada mixed conifer forest. Forest Ecology and Management. 239(1-3): 102-111.
- Conklin, D.A.; Armstrong, W.A. 2001.** Effects of three prescribed fires on dwarf mistletoe infection in southwestern ponderosa pine. Forestry and Forest Health Report R3-01-02. Albuquerque, NM: U.S. Department of Agriculture, Forest Service, Southwestern Region. 17

## Fire and Fire Surrogate Study: Literature Cited

p.

**Connell, J.H. 1978.** Diversity in tropical rain forests and coral reefs. *Science*. 199: 1302-1310.

**Conner, R.N.; Shackelford, C.E.; Schaefer, R.R.; Saenz, D.; Rudolph, C.D. 2002.** Avian community response to southern pine ecosystem restoration for red-cockaded woodpeckers. *Wilson Bulletin*. 114(3): 324-332.

**Converse, S.J. 2005.** Small mammal responses to forest restoration and fuel reduction. Fort Collins, CO: Colorado State University. 231 p. Ph.D. dissertation.

**Converse, S.J.; Dickson, B.G.; White, G.C.; Block, W.M. 2004.** Estimating small mammal abundance on fuels treatment units in southwestern ponderosa pine forests. In: van Riper, C., III; Cole, K.L., eds. *The Colorado Plateau: cultural, biological, and physical research*. Tucson, AZ: University of Arizona Press: 113-120.

**Converse, S.J.; White, G.C.; Block, W.M. 2006b.** Small mammal responses to thinning and wildfire in ponderosa pine-dominated forests of the southwestern United States. *Journal of Wildlife Management*. 70(6): 1711-1722.

**Converse, S.J.; White, G.C.; Farris, K.L.; Zack, S. 2006a.** Small mammals and forest fuel reduction: national-scale responses to fire and fire surrogates. *Ecological Applications*. 16(5): 1717-1729.

**Cooke, M.A.; Widden, P.; O'Halloran, I. 1992.** Morphology, incidence, and fertilization effects on the vesicular-arbuscular mycorrhizae of *Acer saccharum* in a Quebec hardwood forest. *Mycologia*. 84(3): 422-430.

**Coulter, E.D. 1999.** Hungry Bob harvest production study: mechanical thinning for fuel reduction in the Blue Mountains of northeast Oregon. Corvallis, OR: Oregon State University. 96 p. M.S. thesis.

**Covington, W.W.; Moore, M.M. 1994.** Postsettlement changes in natural fire regimes and forest structure: ecological restoration of old-growth ponderosa pine forests. *Journal of*

## Fire and Fire Surrogate Study: Literature Cited

Sustainable Forestry. 2(1/2): 153-181.

- Covington, W.W.; Sackett, S.S. 1984.** The effect of a prescribed burn in southwestern ponderosa pine on organic matter and nutrients in woody debris and forest floor. *Forest Science*. 30(1): 183-192.
- Covington, W.W.; Sackett, S.S. 1992.** Soil mineral nitrogen changes following prescribed burning in ponderosa pine. *Forest Ecology and Management*. 54(1-4): 175-191.
- Covington, W.W.; DeBano, L.F.; Huntsberger, T.G. 1991.** Soil nitrogen changes associated with slash pile burning in pinyon-juniper woodlands. *Forest Science*. 37(1): 347-355.
- Craig, V.J.; Klenner, W.; Feller, M.C.; Sullivan, T.P. 2006.** Relationships between deer mice and downed wood in managed forests of southern British Columbia. *Canadian Journal of Forest Research*. 36(9): 2189-2203.
- Crawford, J.A.; Wahren, C.H.A.; Kyle, S.; Moir, W.H. 2001.** Response of exotic plant species to fires in *Pinus ponderosa* forests in northern Arizona. *Journal of Vegetation Science*. 12(2): 261-268.
- Crow, T.R.; Perera, A.H. 2004.** Emulating natural landscape disturbance in forest management--an introduction. *Landscape Ecology*. 19(3): 231-233.
- Csuti, B.A. 1997.** Atlas of Oregon wildlife: distribution, habitat, and natural history. Corvallis, OR: Oregon State University Press. 492 p.
- Cullings, K.W.; Vogler, D.R.; Parker, V.T.; Finley, S.K. 2000.** Ectomycorrhizal specificity patterns in a mixed *Pinus contorta* and *Picea engelmannii* forest in Yellowstone National Park. *Applied and Environmental Microbiology*. 66(11): 4988-4991.
- Davis, J.R.; Ffolliott, P.F.; Clary, W.P. 1968.** A fire prescription for consuming ponderosa pine duff. Res. Note RM-115. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 4 p.
- DeBano, L.F. 2000.** The role of fire and soil heating on water repellency in wildland

## Fire and Fire Surrogate Study: Literature Cited

environments: a review. *Journal Hydrology*. 231-232: 195-206.

**DeBano, L.F.; Neary, D.G.; Ffolliott, P.F. 1998.** Fire's effects on ecosystems. New York, NY: John Wiley and Sons, Inc. 333 p.

**DeBellis, T.; Widden, P.; Messier, C. 2002.** Effects of selective cuts on the mycorrhizae of regenerating *Betula alleghaniensis* and *Acer saccharum* seedlings in two Quebec mixed deciduous forests. *Canadian Journal of Forest Research*. 32(6): 1094-1102.

**DeLuca, T.H.; Zouhar, K.L. 2000.** Effects of selection harvest and prescribed fire on the soil nitrogen status of ponderosa pine forests. *Forest Ecology and Management*. 138(1-3): 263-271.

**DeLuca, T.H.; Nilsson, M.-C.; Zackrisson, O. 2002.** Nitrogen mineral and phenol accumulation along a fire chronosequence in northern Sweden. *Oecologia*. 133(2): 206-214.

**DeLuca, T.H.; MacKenzie, M.D.; Gundale, M.J.; Holben, W.E. 2006.** Wildfire-produced charcoal directly influences nitrogen cycling in ponderosa pine forests. *Soil Science Society of America Journal*. 70(2): 448-453.

**Dey, D.C.; Hartman, G. 2005.** Returning fire to Ozark Highland forest ecosystems: effects on advance regeneration. *Forest Ecology and Management*. 217(1): 37-53.

**Dickson, J.G. 1981.** Effects of forest burning on songbirds. In: Wood, G.W., ed. Proceedings, prescribed fire and wildlife in southern forests. Georgetown, SC: Belle W. Baruch Forest Science Institute, Clemson University: 67-72.

**Dickson, B.G.; Block, W.M.; Sisk, T.D. 2004.** Conceptual framework for studying the effects of fuels treatments on avian communities in ponderosa pine forests of northern Arizona. In: Van Riper, C., III; Cole, K.L., eds. Colorado Plateau: cultural, biological, and physical research. Tucson, AZ: University of Arizona Press: 193-200.

**Dixon, R.K.; Solomon, A.M.; Brown, S.; Houghton, R.A.; Trexler, M.C.; Wisniewski, J. 1994.** Carbon pools and flux of global forest ecosystems. *Science*. 263(5144): 185-190.

## Fire and Fire Surrogate Study: Literature Cited

- Dodson, E.K. 2004.** Monitoring change in exotic plant abundance after fuel reduction/restoration treatments in ponderosa pine forests of western Montana. Missoula, MT: University of Montana. 99 p. M.S. thesis.
- Dodson, E.K.; Fiedler, C.E. 2006.** Impacts of restoration treatments on alien plant invasion in *Pinus ponderosa* forests, Montana, USA. *Journal of Applied Ecology*. 43(5): 887-897.
- Dodson, E.K.; Metlen, K.L.; Fiedler, C.E. 2007.** Common and uncommon understory species differentially respond to restoration treatments in ponderosa pine/Douglas-fir forests, Montana. *Restoration Ecology*. 15(4): 696-708.
- Dodson, E.K.; Peterson, D.W. 2010.** Dry coniferous forest restoration and understory plant diversity: the importance of community heterogeneity and the scale of observation. *Forest Ecology and Management*. 260(10): 1702-1707.
- Dodson, E.K.; Peterson, D.W.; Harrod, R.J. 2008.** Understory vegetation response to thinning and burning restoration treatments in dry conifer forests of the eastern Cascades, USA. *Forest Ecology and Management*. 255(8/9): 3130-3140.
- Dodson-Coulter, E. 1999.** Hungry Bob harvest production study: mechanical thinning for fuel reduction in the Blue Mountains of northeast Oregon. Corvallis, OR: Oregon State University. 96 p. M.S. thesis.
- Dolan, E. 2002.** Soil and site variability in the northeast Wenatchee Mountains. Seattle, WA: University of Washington. 83 p. M.S. thesis.
- Dolan, B.J.; Parker, G.R. 2004.** Understory response to disturbance: and investigation of prescribed burning and understory removal treatments. In: Spetich, M.A., ed. Proceedings, upland oak ecology symposium: history, current conditions, and sustainability. Gen. Tech. Rep. SRS-73. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 285-291.
- Drews, E.; Hartsough, B.; Doyal, J.; Kellogg, L. 1998.** Comparison of forwarder DTL and

## Fire and Fire Surrogate Study: Literature Cited

- skyline yarder CTL systems in a natural eastern Oregon stand. In: Schiess, P.; Krogstad, F., eds. Proceedings, harvesting logistics: from woods to market. Annual conference of the Council of Forest Engineering. [Location of publisher unknown]: [Publisher unknown]: 34-40
- Dugan, F.M.; Lupien, S.L.; Hernandez-Bello, M.; Peever, T.L.; Chen, W. 2005.** Fungi resident in chickpea debris and their suppression of growth and reproduction of *Didymella rabiei* under laboratory conditions. *Journal of Phytopathology*. 153(7/8): 431-439.
- Duguay, J.P.; Wood, P.B.; Nichols, J.V. 2001.** Songbird abundance and avian nest survival rates in forests fragmented by different silviculture treatments. *Conservation Biology*. 15(5): 1405-1415.
- Edminster, C.B.; Weatherspoon, C.P.; Neary, D.G. 2000.** The fire and fire surrogates study: providing guidelines for fire in future watershed management decisions. In: Ffolliott, P.F.; Baker, M.B., Jr.; Edminster, C.B.; Dillon, M.C.; Mora, K.L., tech. coords. Proceedings, land stewardship in the 21<sup>st</sup> century: the contributions of watershed management. RMRS-P-13. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 312-315.
- Eivazi, F.; Bayan, M.R. 1996.** Effects of long-term prescribed burning on the activity of selected soil enzymes in an oak-hickory forest. *Canadian Journal of Forest Research*. 26(10): 1799-1804.
- Elliott, K.J.; Vose, J.M. 2005.** Effects of understory prescribed burning on shortleaf pine (*Pinus echinata* Mill.)/mixed-hardwood forests. *Journal of the Torrey Botanical Society*. 132(2): 236-251.
- Ellison, L.E.; Everette, A.L.; Bogan, M.A. 2005.** Examining patterns of bat activity in Bandelier National Monument, New Mexico, by using walking point transects. *Southwestern Naturalist*. 50(2): 197-208.
- Ellsworth, D.S.; Reich, P.B. 1992.** Leaf mass per area, nitrogen content and photosynthetic

## Fire and Fire Surrogate Study: Literature Cited

carbon gain in *Acer saccharum* seedlings in contrasting forest light environments. *Functional Ecology*. 6(4): 423-435.

**Erickson, J.L.; West, S.D. 2003.** Associations of bats with local structure and landscape features of forested stands in western Oregon and Washington. *Biological Conservation*. 109(1): 95-102.

**Erwin, D.C.; Ribeiro, O.K. 1996.** *Phytophthora* diseases worldwide. St. Paul, MN: American Phytopathological Society Press. 562 p.

**Evans, J.R. 1989.** Photosynthesis and nitrogen relationships in leaves of C<sub>3</sub> plants. *Oecologia*. 78(1): 9-19.

**Fajardo, A.; Graham, J.M.; Goodburn, J.M.; Fiedler, C.E. 2007.** Ten-year responses of ponderosa pine growth, vigor, and recruitment to restoration treatments in the Bitterroot Mountains, Montana, USA. *Forest Ecology and Management*. 243(1): 50-60.

**Fantz, D.K.; Renken, R.B. 2005.** Short-term landscape-scale effects of forest management on *Peromyscus* spp. mice within Missouri Ozark forests. *Wildlife Society Bulletin*. 33(1): 293-301.

**Farris, K.L.; Converse, S.J.; Zack, S.; Robinson, W.D.; Amacher, A.J.; Contreras, T.; Gaines, W.L.; Kilpatrick, E.S.; Lanham, J.D.; Miles D.; Rompré, G.; Sieving, K.E.; Pierson, J.C. 2010a.** Short-term effects of fire and fire surrogate treatments on avian nest survival: a national-scale analysis. *Open Environmental Sciences*. 4: 53-62.

**Farris, K.L.; Zack, S.; Amacher, A.J.; Pierson, J.C. 2010b.** Microhabitat selection of bark-foraging birds in response to fire and fire surrogate treatments. *Forest Science*. 56(1): 100-111.

**Feeney, W.R.; Kolb, T.E.; Covington, W.W.; Wagner, M.R. 1998.** Influence of thinning and burning restoration treatments on presettlement ponderosa pines at the Gus Pearson Natural Area. *Canadian Journal of Forest Research*. 28(9): 1295-1306.

## Fire and Fire Surrogate Study: Literature Cited

- Feller, M.C. 1989.** Estimation of nutrient losses to the atmosphere from slash burns in British Columbia. In: Maclver, D.C.; Auld, H.; Whitewood, R., eds. Proceedings, 10<sup>th</sup> conference of fire and forest meteorology. Ottawa, ON: Environment Canada: 126-135.
- Ferrenberg, S.M.; Schwilk, D.W.; Knapp, E.E.; Groth, E.; Keeley, J.E. 2006.** Fire decreases arthropod abundance but increases diversity: early and late season prescribed fire effects in a Sierra Nevada mixed-conifer forest. *Fire Ecology*. 2(2): 79-102.
- Fettig, C.; Borys, R.; Dabney, C. 2010.** Effects of fire and fire surrogate treatments on bark beetle-caused tree mortality in the southern Cascades, California. *Forest Science*. 56(1): 60-73.
- Fettig, C.J.; Borys, R.R.; McKelvey, S.R.; Dabney, C.P. 2008.** Blacks Mountain Experiment Forest: bark beetle response to differences in forest structure and the application of prescribed fire in interior ponderosa pine. *Canadian Journal of Forest Research*. 38(5): 924-935.
- Fettig, C.J.; Klepzig, K.D.; Billings, R.F.; Munson, A.S.; Nebeker, T.E.; Negrón, J.F.; Nowak, J.T. 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(1-3): 24-53.
- Fettig, C.J.; McKelvey, S.R. 2010.** Bark beetle responses to stand structure and prescribed fire at Blacks Mountain Experimental Forest, California, USA: 5-year data. *Fire Ecology*. 6: 26-42.
- Fettig, C.J.; McKelvey, S.R.; Cluck, D.L.; Smith, S.L.; Otrosina, W.J. 2010.** Effects of prescribed fire and season of burn on direct and indirect levels of tree mortality in ponderosa and Jeffrey pine forests in California, USA. *Forest Ecology and Management*. 260: 207-218.
- Fettig, C.J.; McMillin, J.D.; Anhold, J.A.; Hamud, S.M.; Borys, R.R.; Dabney, C.P.; Seybold, S.J. 2006.** The effects of mechanical fuel reduction treatments on the activity of

## Fire and Fire Surrogate Study: Literature Cited

bark beetles (Coleoptera: Scolytidae) infesting ponderosa pine. *Forest Ecology and Management*. 230(1-3): 55-68.

**Fiedler, C.E.; Arno, S.F.; Carlson, C.E.; Harrington, M.G. 1992.** Management prescriptions for restoring biodiversity in Inland Northwest ponderosa pine-fir forests. *Northwest Environmental Journal*. 8: 211-213.

**Fiedler, C.E.; Becker, R.R.; Haghund, S.A. 1988.** Preliminary guidelines for uneven-aged silvicultural prescriptions in ponderosa pine. In: Baumgartner, D.M.; Lotan, J.E., eds. *Proceedings, Ponderosa pine: the species and its management*. Pullman, WA: Washington State University Conferences and Institutes: 235-241.

**Fiedler, C.E.; Metlen, K.L.; Dodson, E.K. 2010.** Restoration treatment effects on stand structure, tree growth, and fire hazard in a ponderosa pine/Douglas-fir forest in Montana. *Forest Science*. 56(1): 18-31.

**Field, C.; Mooney, H.A. 1986.** The photosynthesis–nitrogen relationship in wild plants. In: Givnish, T.J., ed. *On the economy of plant form and function*. *Proceedings of the 6<sup>th</sup> Maria Moors Cabot symposium: evolutionary constraints on primary productivity, adaptive patterns of energy capture in plants*, Harvard Forest. Cambridge, England: Cambridge University Press: 25-55.

**Finch, D.M.; Ganey J.L.; Yong, W.; Kimball, R.T.; Sallabanks, R. 1997.** Effects and interactions of fire, logging, and grazing. In: Block, W.M.; Finch, D.M., eds. *Songbird ecology in southwestern ponderosa pine forests: a literature review*. Gen. Tech. Rep. RM-GTR-292. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 103-136.

**Finér, L.; Mannerkoski, H.; Piirainen, S.; Starr, M. 2003.** Carbon and nitrogen pools in an old-growth, Norway spruce mixed forest in eastern Finland and changes associated with clear-cutting. *Forest Ecology and Management*. 174(1-3): 51-63.

## Fire and Fire Surrogate Study: Literature Cited

- Finney, M.A. 2001.** Design of regular landscape fuel treatment patterns for modifying fire growth and behavior. *Forest Science*. 47(2): 219-228.
- Fisher, J.T.; Wilkinson, L. 2005.** The response of mammals to forest fire and timber harvest in the North American boreal forest. *Mammal Review*. 35(1): 51-81.
- Fitter, A.H. 1982.** Influence of soil heterogeneity on the coexistence of grassland species. *Journal of Ecology*. 70(1): 139-148.
- Floyd, T.M. 2003.** Effects of prescribed fire on herpetofauna within hardwood forests of the upper Piedmont of South Carolina. Clemson, SC: Clemson University. 127 p. M.S. thesis.
- Floyd, T.M.; Russell, K.R.; Moorman, C.E.; van Lear, D.H.; Guynn, D.C., Jr.; Lanham, J.D. 2002.** Effects of prescribed fire on herpetofauna within hardwood forests of the Upper Piedmont of South Carolina: a preliminary analysis. In: Outcalt, K.W., ed. Proceedings, 11<sup>th</sup> biennial southern silviculture research conference. Gen. Tech. Rep. SRS-48. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 123-127.
- Ford, W.M.; Rodrigue, J.L. 2001.** Soricid abundance in partial overstory removal harvests and riparian areas in an industrial forest landscape of the central Appalachians. *Forest Ecology and Management*. 152(1-3): 159-168.
- Ford, W.M.; Laerm, J.; Barker, K.G. 1997.** Soricid response to forest stand age in southern Appalachian cove hardwood communities. *Forest Ecology and Management*. 91(2/3): 175-181.
- Ford, W.M.; Menzel, M.A.; McGill, D.W.; Laerm, J.; McCay, T.S. 1999.** Effects of a community restoration fire on small mammals and herpetofauna in the southern Appalachians. *Forest Ecology and Management*. 114(2/3): 233-243.
- Foresman, K.R. 2001.** The wild mammals of Montana. Lawrence, Kansas: American Society of Mammalogists. 278 p.
- Fornwalt, P.J.; Kaufmann, M.R.; Huckaby, L.S.; Stoker, J.M.; Stohlgren, T.J. 2003.** Non-

## Fire and Fire Surrogate Study: Literature Cited

native plant invasions in managed and protected ponderosa pine/Douglas-fir forests of the Colorado Front Range. *Forest Ecology and Management*. 177(1-3): 515-527.

**Frank, J.H.; Foltz, J.L.; Almquist, D.T. 2005.** The female of *Oxybleptes meridionalis* (Coleoptera: Staphylinidae: Staphylininae) and range extension for *Oxybleptes*. *Florida Entomologist*. 88(2): 199-200.

**Franklin, S.B.; Robertson, P.A.; Fralish, J.S. 1997.** Small-scale fire temperature patterns in upland *Quercus* communities. *Journal of Applied Ecology*. 34(3): 613-630.

**Franklin, S.B.; Robertson, P.A.; Fralish, J.S. 2003.** Prescribed burning effects on upland *Quercus* forest structure and function. *Forest Ecology and Management*. 184(1-3): 315-335.

**French, T.W. 1980.** *Sorex longirostris*. *Mammalian Species*. 143(Nov. 20, 1980): 1-3.

**Friedmann, H. 1963.** Host relations of the parasitic cowbirds. *Bulletin of the United States National Museum*. 233: 1-276.

**Froelich, H.A. 1978.** Soil compaction from low ground-pressure, torsion-suspension logging vehicles on three forest soils. *Forest Research Laboratory Research Paper 36*. Corvallis, OR: Oregon State University. 13 p.

**Fulé, P.Z.; Covington, W.W.; Moore, M.M. 1997.** Determining reference conditions for ecosystem management of southwestern ponderosa pine forests. *Ecological Applications*. 7(3): 895-908.

**Fulé, P.Z.; McHugh, C.; Heinlein, T.A.; Covington, W.W. 2001.** Potential fire behavior is reduced following forest restoration treatments. In: Vance, R.K.; Edminster, C.B.; Covington, W.W.; Blake, J.A., comps. *Proceedings, Ponderosa pine ecosystems restoration and conservation: steps towards stewardship*. RMRS-P-22. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 28-35.

**Fulé, P.Z.; Covington, W.W.; Smith, H.B.; Springer, J.D.; Heinlein, T.A.; Huisinga, K.D.; Moore, M.M. 2002.** Comparing ecological restoration alternatives: Grand Canyon, Arizona.

## Fire and Fire Surrogate Study: Literature Cited

Forest Ecology and Management. 170(1-3): 19-41.

**Fulé, P.Z.; Laughlin, D.C.; Covington, W.W. 2005.** Pine-oak forest dynamics five years after ecological restoration treatments, Arizona, USA. *Forest Ecology and Management*. 218(1-3): 129-145.

**Gaines, W.; Haggard, M.; Begley, J.; Lehmkuhl, J.; Lyons, A. 2010.** Short-term effects of thinning and burning restoration treatments on avian community composition, density, and nest survival in the eastern Cascades dry forests, Washington. *Forest Science*. 56(1): 88-99.

**Gaines, W.L.; Haggard, M.; Lehmkuhl, J.L.; Lyons, A.; Harrod, R.J. 2007.** Short-term response of land birds to ponderosa pine restoration. *Restoration Ecology*. 10(4): 670-678.

**Gambrell, H.E.; Waldrop, T.A.; Wang, G.G. [In press].** Fuel dynamics across southern Appalachian landscapes. In: 15<sup>th</sup> biennial southern silvicultural research conference. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.

**Gandhi, K.J.K.; Spence, J.R.; Langor, D.W.; Morgantini, L.E. 2001.** Fire residuals as habitat reserves for epigeaic beetles (Coleoptera: Carabidae and Staphylinidae). *Biological Conservation*. 102(2): 131-141.

**Ganz, D.J.; Dahlsten, D.L.; Shea, P.J. 2003.** The post-burning responses of bark beetles to prescribed burning treatments. In: Omi, P.N.; Joyce, L. A. 2003. *Proceedings, Fire, fuel treatments, and ecological restoration*. RMRS-P-29. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 143-158.

**Germaine, H.L.; Germaine, S.S. 2002.** Forest restoration treatment effects on the nest success of western bluebirds (*Sialia mexicana*). *Restoration Ecology*. 10(2): 362-367.

**Gessel, S.P.; Cole, D.W.; Steinbrenner, E.C. 1973.** Nitrogen balance in forest ecosystems of the Pacific Northwest. *Soil Biology and Biochemistry*. 5(1): 19-34.

**Gholz, H.L.; Fisher, R.L. 1982.** Organic matter production and distribution in slash pine (*Pinus elliottii*) plantations. *Ecology*. 63(6): 1827-1839.

## Fire and Fire Surrogate Study: Literature Cited

- Giai, C. 2009.** Fire, exotic earthworms and plant litter decomposition in the landscape context. Columbus, OH: Ohio State University. 151 p. Ph.D. dissertation.
- Giai, C.; Boerner, R.E.J. 2007.** Effects of ecological restoration on microbial activity, microbial functional diversity, and soil organic matter in mixed-oak forests of southern Ohio, USA. *Applied Soil Ecology*. 35(2): 281-290.
- Gibson, D.J.; Hartnett, D.C.; Merrill, G.L.S. 1990.** Fire temperature heterogeneity in contrasting fire prone habitats: Kansas tallgrass prairie and Florida sandhill. *Bulletin of the Torrey Botanical Club*. 117(4): 349-356.
- Gilliam, F.S. 1988.** Interactions of fire with nutrients in the herbaceous layer of a nutrient-poor coastal plain forest. *Bulletin of the Torrey Botanical Club*. 115(4): 265-271.
- Giuliani, R.; Brown, K.J. 2008.** Within-canopy sampling of global irradiance to describe downwelling light distribution and infer canopy stratification in a broadleaf forest. *Tree Physiology*. 28(9): 1407-1419.
- Goetz, J.; Dugan, F.M. 2006.** *Alternaria malorum*: a mini-review with new records for hosts and pathogenicity. *Pacific Northwest Fungi*. 1: 1-8.
- Goetz, J.R., III. 2006.** Fungal endophytes isolated from large roots of Douglas-fir (*Pseudotsuga menziesii*) and ponderosa pine (*Pinus ponderosa*). Pullman, WA: Washington State University. 116 p.
- Goodwin, J.G., Jr.; Hungerford, C.R. 1979.** Rodent population densities and food habits in Arizona ponderosa pine forests. Res. Pap. RM-214. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 12 p.
- Grace, J.B.; Youngblood, A.; Scheiner, S.M. 2009.** Structural equation modeling and ecological experiments. In: Miao, S.; Carstenn, S.; Nungesser, M., eds. *Real world ecology: large-scale and long-term case studies and methods*. New York: Springer Science+Business Media: 19-45. Chapter 2.

## Fire and Fire Surrogate Study: Literature Cited

- Graham, J.B.; McCarthy, B.C. 2006.** Forest floor fuel dynamics in mixed-oak forests of southeastern Ohio. *International Journal of Wildland Fire*. 15(4): 479-488.
- Graham, R.T., ed. 2003.** Hayman Fire Case Study. Gen. Tech. Rep. RMRS-GTR-114. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 396 p.
- Grant, C.D.; Loneragan, W.A. 2001.** The effects of burning on the understory composition of rehabilitated bauxite mines in Western Australia: community changes and vegetation succession. *Forest Ecology and Management*. 145(3): 255-279.
- Greenberg, C.H. 2002.** Response of white-footed mice (*Peromyscus leucopus*) to coarse woody debris and microsite use in southern Appalachian treefall gaps. *Forest Ecology and Management*. 164(1-3): 57-66.
- Greenberg, C.H.; Forrest, T.G.; Waldrop, T. 2010.** Short-term response of ground-dwelling arthropods to prescribed fire and mechanical fuel reduction in a southern Appalachian upland hardwood forest. *Forest Science*. 56(1):112-121.
- Greenberg, C.H.; Miller, S. 2004.** Soricid response to canopy gaps created by wind disturbance in the southern Appalachians. *Southeastern Naturalist*. 3(4): 715-732.
- Greenberg, C.H.; Miller, S.; Waldrop, T.A. 2007.** Short-term response of shrews to prescribed fire and mechanical fuel reduction in a Southern Appalachian upland hardwood forest. *Forest Ecology and Management*. 243 (2/3): 231-236.
- Greenberg, C.H.; Otis, D.L.; Waldrop, T.A. 2006.** Response of white-footed mice (*Peromyscus leucopus*) to fire and fire surrogate fuel reduction treatments in a southern Appalachian hardwood forest. *Forest Ecology and Management*. 234(1-3): 355-362.
- Greenberg, C.H.; Tomcho, A.L.; Lanham, J.D.; Waldrop, T.A.; Tomcho, J.; Phillips, R.J.; Simon, D. 2007.** Short-term effects of fire and other fuel reduction treatments on breeding

## Fire and Fire Surrogate Study: Literature Cited

birds in a southern Appalachian upland hardwood forest. *Journal of Wildlife Management*. 71(6): 1906-1916.

**Greenberg, C.H.; Waldrop, T.A. 2008.** Short-term response of reptiles and amphibians to prescribed fire and mechanical fuel reduction in a southern Appalachian upland hardwood forest. *Forest Ecology and Management*. 255(7): 2883-2893.

**Grier, C.C. 1975.** Wildfire effects on nutrient distribution and leaching in a coniferous ecosystem. *Canadian Journal of Forest Research*. 5(4): 599-607.

**Griffin, G.J. 1989.** Incidence of chestnut blight and survival of American chestnut in forest clearcut and neighboring understory sites. *Plant Disease*. 73(2): 123-127.

**Griffis, K.L.; Crawford, J.A.; Wagner, M.R.; Moir, W.H. 2001.** Understory responses to management treatments in northern Arizona ponderosa pine forests. *Forest Ecology and Management*. 146(1-3): 239-245.

**Grinnell, J.; Storer, T.I. 1924.** Animal life in the Yosemite: an account of the mammals, birds, reptiles, and amphibians in a cross-section of the Sierra Nevada. Berkeley, CA: University of California Press. 752 p;

**Grogan, P.; Burns, T.D.; Chapin, F.S., III. 2000.** Fire effects on ecosystem nitrogen cycling in a Californian bishop pine forest. *Oecologia*. 122(4): 537-544.

**Grupé, M.A. 1998.** Assessing the applicability of the Terrestrial Ecosystem Survey for FARSITE. Albuquerque, NM: University of New Mexico. 95 p. M.S. thesis.

**Gundale, M.J. 2005.** Nitrogen cycling and spatial heterogeneity following fire and restoration treatments in the ponderosa pine/Douglas-fir ecosystem. Missoula, MT: University of Montana. 166 p. Ph.D. dissertation.

**Gundale, M.J.; DeLuca, T.H. 2006.** Temperature and source material influence ecological attributes of ponderosa pine and Douglas-fir charcoal. *Forest Ecology and Management*. 231(1-3): 86-93.

## Fire and Fire Surrogate Study: Literature Cited

- Gundale, M.J.; DeLuca, T.H. 2007.** Charcoal effects on soil solution chemistry and growth of *Koeleria macrantha* in the ponderosa pine/Douglas-fir ecosystem. *Biology and Fertility of Soils*. 43(3): 303-311.
- Gundale, M.J.; DeLuca, T.H.; Fiedler, C.E.; Ramsey, P.W.; Harrington, M.G.; Gannon, J.E. 2005.** Restoration treatments in a Montana ponderosa pine forest: effects on soil physical, chemical and biological properties. *Forest Ecology and Management*. 213(1-3): 25-38.
- Gundale, M.J.; Metlen, K.L.; Fiedler, C.E.; DeLuca, T.H. 2006.** Nitrogen spatial heterogeneity influences diversity following restoration in a ponderosa pine forest, Montana. *Ecological Applications*. 16(2): 479-489.
- Gunn, J.S.; Hagan, J.M., III. 2000.** Woodpecker abundance and tree use in uneven-aged managed, and unmanaged, forest in northern Maine. *Forest Ecology and Management*. 126(1): 1-12.
- Gurevitch, J.; Hedges, L.V. 1999.** Statistical issues in ecological meta-analyses. *Ecology*. 80(4): 1142-1149.
- Hadley, G.L.; Wilson, K.R. 2004.** Patterns of small mammal density and survival following ski-run development. *Journal of Mammalogy*. 85(1): 97-104.
- Haeussler, S.; Beford, L.; Leduc, A.; Bergeron, Y.; Kranabetter, J.M. 2002.** Silvicultural disturbance severity and plant communities of the southern Canadian boreal forest. *Silva Fennica*. 36(1): 307-327.
- Hall, S.A.; Burke, I.C.; Hobbs, N.T. 2006.** Litter and dead wood dynamics in ponderosa pine forests along a 160-year chronosequence. *Ecological Applications*. 16(6): 2344-2355.
- Halpern, C.B. 1988.** Early successional pathways and the resistance and resilience of forest communities. *Ecology*. 69(6): 1703-1715.
- Halpern, C.B.; Spies, T.A. 1995.** Plant species diversity in natural and managed forests of the Pacific Northwest. *Ecological Applications*. 5(4): 913-934.

## Fire and Fire Surrogate Study: Literature Cited

- Halpern, C.B.; Evans, S.A.; Nielson, S. 1999.** Soil seed banks in young, closed-canopy forests of the Olympic Peninsula, Washington: potential contributions to understory reinitiation. *Canadian Journal of Botany*. 77(7): 922-935.
- Hamman, S.T.; Burke, I.C.; Knapp, E.E. 2008.** Soil nutrients and microbial activity after early and late season prescribed burns in a Sierra Nevada mixed conifer forest. *Forest Ecology and Management*. 256(3): 367-374.
- Hansen, E.M.; Sutton, W. 2005.** Persistence of *Phytophthora ramorum* after eradication efforts in Oregon tanoak forests. In: Frankel, S.J.; Shea, P.J.; Haverty, M.I., tech. coords. Proceedings, 2<sup>nd</sup> sudden oak death science symposium: the state of our knowledge. Gen. Tech. Rep. PSW-GTR-196. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 516.
- Hanula, J.L.; Wade, D.D. 2003.** Influence of long-term dormant-season burning and fire exclusion on ground-dwelling arthropod populations in longleaf pine flatwoods ecosystems. *Forest Ecology and Management*. 175(1-3): 163-184.
- Hargrove, W.W.; Gardner, R.H.; Turner, M.G.; Romme, W.H.; Despain, D.G. 2000.** Simulating fire patterns in heterogeneous landscapes. *Ecological Modelling*. 135(2/3): 243-263.
- Harpole, D.N.; Haas, C.A. 1999.** Effects of seven silvicultural treatments on terrestrial salamanders. *Forest Ecology and Management*. 114(2/3): 349-356.
- Harrington, M. 1987.** Ponderosa pine mortality from spring, summer, and fall crown scorching. *Western Journal of Applied Forestry*. 2(1): 14-16.
- Harrington, M.G. 1993.** Predicting *Pinus ponderosa* mortality from dormant season and growing-season fire injury. *International Journal of Wildland Fire*. 3(2): 65-72.
- Harrington, T.B.; Edwards, M.B. 1999.** Understory vegetation, resource availability, and litterfall responses to pine thinning and woody vegetation control in longleaf pine plantations.

## Fire and Fire Surrogate Study: Literature Cited

Canadian Journal of Forest Research. 29(7): 1055-1064.

**Harrod, R.J.; Peterson, D.W.; Povak, N.A.; Dodson, E.K. 2009.** Thinning and prescribed fire effects on overstory tree and snag structure in dry coniferous forests of the interior Pacific Northwest. *Forest Ecology and Management*. 258(5): 712-721.

**Harrod, R.J.; Povak, N.A.; Peterson, D.W. 2007.** Comparing the effectiveness of thinning and prescribed fire for modifying structure in dry coniferous forests. In: Butler, B.W.; Cook, W., comps. *Proceedings, the fire environment-innovations, management, and policy*. RMRS-P-46CD. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 329-346.

**Hart, S.C.; DeLuca, T.H.; Newman, G.S.; MacKenzie, M.D.; Boyle, S.I. 2005.** Post-fire vegetative dynamics as drivers of microbial community structure and function in forest soils. *Forest Ecology and Management*. 220(1-3): 166-184.

**Hart, S.C.; Selmants, P.C.; Boyle, S.I.; Overby, S.T. 2006.** Carbon and nitrogen cycling in southwestern ponderosa pine forests. *Forest Science*. 52(6): 683-693.

**Hartsough, B.R.; Abrams, S.; Barbour, R.J.; Drews, E.S.; McIver J.D.; Moghaddas, J.J.; Schwilk, D.W.; Stephens, S.L. 2008.** The economics of alternative fuel reduction treatments in western United States dry forests: financial and policy implications from the National Fire and Fire Surrogate Study. *Forest Policy and Economics*. 10(6): 344-354.

**Harvey, H.T.; Shellhammer, H.S.; Stecker, R.E. 1980.** Giant sequoia ecology: fire and reproduction. Washington, DC: U.S. Department of the Interior, National Park Service. 1983 p.

**Haskins, M.F.; Shaddy, J.H. 1986.** The ecological effects of burning, mowing, and plowing on ground-inhabiting spiders (Araneae) in an old-field ecosystem. *Journal of Arachnology*. 14(1): 1-13.

**Hatchett, B.; Hogan, M.P.; Grismer, M.E. 2006.** Mechanical mastication thins Lake Tahoe

## Fire and Fire Surrogate Study: Literature Cited

forest with few adverse impacts. *California Agriculture*. 60(2): 77-82.

**Hatten, J.; Zabowski, D.; Scherer, G.; Dolan, E. 2005.** A comparison of soil properties after contemporary wildfire and fire suppression. *Forest Ecology and Management*. 220(1-3): 227-241.

**Haynes, R.W. 1998.** Stumpage prices, volume sold, and volumes harvested from the National Forests of the Pacific Northwest Region, 1984 to 1996. Gen. Tech. Rep. PNW-GTR-423. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 91 p.

**Haywood, J.D.; Harris, F.L.; Grelen, H.E.; Pearson, H.A. 2001.** Vegetative response to 37 years of seasonal burning on a Louisiana longleaf pine site. *Southern Journal of Applied Forestry*. 25(3): 122-130.

**Healy, W.M.; Lewis, A.M.; Boose, E.F. 1999.** Variation of red oak acorn production. *Forest Ecology and Management*. 166(1-3): 1-11.

**Heath, L.S.; Smith, J.E.; Birdsey, R.A. 2003.** Carbon trends in U.S. forestlands: a context for the role of soils in forest carbon sequestration. In: Kimble, J.M.; Heath, L.S.; Birdsey, R.A.; Lal, R. eds. *The potential of U.S. forest soils to sequester carbon and mitigate the greenhouse effect*. Boca Raton, FL: Lewis Publishers, CRC Press: 35-45.

**Hejl, S.J. 1994.** Human-induced changes in bird populations in coniferous forests in western North America during the past 100 years. In: Jehl, J.R., Jr.; Johnson, N.K., eds. *A century of avifaunal change in western North America*. *Studies in Avian Biology*. 15: 232-246.

**Hengst, G.E.; Dawson, J.O. 1994.** Bark properties and fire resistance of selected tree species from the central hardwood region of North America. *Canadian Journal of Forest Research*. 24(4): 688-696.

**Hessburg, P.F.; Agee, J.K. 2003.** An environmental narrative of Inland Northwest United States forests, 1800-2000. *Forest Ecology and Management*. 178(1/2): 23-59.

## Fire and Fire Surrogate Study: Literature Cited

- Hessburg, P.F.; Povak, N.A.; Salter, R.B. 2008.** Thinning and prescribed fire effects on dwarf mistletoe severity in an eastern Cascade Range dry forest, Washington. *Forest Ecology and Management*. 255(7): 2907-2915.
- Hessburg, P.F.; Povak, N.A.; Salter, R.B. 2010.** Thinning and prescribed fire effects on snag abundance and spatial pattern in an eastern Cascade Range dry forest, Washington, USA. *Forest Science*. 56(1): 74-87.
- Heyward, F. 1938.** Soil temperatures during forest fires in the longleaf pine region. *Journal of Forestry*. 36(5): 478-491.
- Hille, M.; den Ouden, J. 2005.** Charcoal and activated carbon as adsorbate of phytotoxic compounds-a comparative study. *Oikos*. 108(1): 202-207.
- Hilt, D.E.; Rast, E.D.; Bailey, H.J. 1983.** Predicting diameters inside bark for 10 important hardwood species. Res. Pap. NE-531. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 7 p.
- Hoff, J.A. 2002.** Fungal diversity in woody roots of east-slope Cascade ponderosa pine (*Pinus ponderosa*) and Douglas-fir (*Pseudotsuga menziesii*). Pullman, WA: Washington State University. 76 p. M.S. thesis.
- Hoff, J.A.; Klopfenstein, N.B.; McDonald, G.I.; Tonn, J.R.; Kim, M.S.; Zambino, P.J.; Hessburg, P.F.; Rogers, J.D.; Peever, T.L.; Carris, L.M. 2004a.** Fungal endophytes in woody roots of Douglas-fir (*Pseudotsuga menziesii*) and ponderosa pine (*Pinus ponderosa*). *Forest Pathology*. 34(4): 255-271.
- Hoff, J.A.; Klopfenstein, N.B.; Tonn, J.R.; McDonald, G.I.; Zambino, P.J.; Rogers, J.D.; Peever, T.L.; Carris, L.M. 2004b.** Roles of woody root-associated fungi in forest ecosystem processes: recent advances in fungal identification. Res. Pap. RMRS-RP-47. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 6 p.
- Holbrook, S.J. 1978.** Habitat relationships and coexistence of four sympatric species of

## Fire and Fire Surrogate Study: Literature Cited

*Peromyscus* in northwestern New Mexico. *Journal of Mammalogy*. 59(1): 18-26.

**Hollenstein, K.; Graham, R.L.; Shepperd, W.D. 2001.** Biomass flow in western forests:

simulating the effects of fuel reduction and presettlement restoration treatments. *Journal of Forestry*. 99(10): 12-19.

**Holliday, N.J. 1991.** Species responses of carabid beetles (Coleoptera: Carabidae) during post-fire regeneration of boreal forest. *The Canadian Entomologist*. 123(6): 1369-1389.

**Holtzschner, M.A.; Landford, B.L. 1997.** Tree diameter effects on cost and productivity of cut-to-length systems. *Forest Products Journal*. 47(3): 25-30.

**Homyack, J.A.; Haas, C.A. 2009.** Long-term effects of experimental forest harvesting on abundance and reproductive demography of terrestrial salamanders. *Biological Conservation*. 142(1): 110-121.

**Hooper, M.C.; Arai, K.; Lechowicz, M.J. 2001.** Impact of a major ice storm on an old-growth hardwood forest. *Canadian Journal of Botany*. 79(1): 70-75.

**Horton, S.P.; Mannan, R.W. 1988.** Effects of prescribed fire on snags and cavity-nesting birds in southeastern Arizona pine forests. *Wildlife Society Bulletin*. 16(1): 37-44.

**Huang, J. 2007.** Ecological responses of two forest understory herbs to changes in resources caused by prescribed fire alone or in combination with restoration thinning. Columbus, OH: Ohio State University. 191 p. Ph.D. dissertation.

**Huang, J.; Boerner, R.E.J. 2007.** Effects of fire alone or combined with thinning on tissue nutrient concentrations and nutrient resorption in *Desmodium nudiflorum*. *Oecologia*. 153(2): 233-243.

**Huang, J.; Boerner, R.E.J. 2008.** Shifts in morphological traits, seed production, and early establishment of *Desmodium nudiflorum* following prescribed fire, alone or in combination with forest canopy thinning. *Botany*. 86(4): 376-384.

**Huang, J.; Boerner, R.E.J.; Rebbeck, J. 2007.** Ecophysiological responses of two herbaceous

## Fire and Fire Surrogate Study: Literature Cited

species to prescribed burning, alone or in combination with overstory thinning. *American Journal of Botany*. 94(5): 755-763.

**Huffman, E.L.; MacDonald, L.H.; Stednick, J.D. 2001.** Strength and persistence of fire-induced soil hydrophobicity under ponderosa pine and lodgepole pine, Colorado Front Range. *Hydrological Processes*. 15(15): 2877-2892.

**Humes, M.L.; Hayes, J.P.; Collopy, M.W. 1999.** Bat activity in thinned, unthinned, and old-growth forests in western Oregon. *Journal of Wildlife Management*. 63(2): 553-561.

**Hurteau, M.; North, M. 2009.** Fuel treatment effects on tree-based forest carbon storage and emissions under modeled wildfire scenarios. *Frontiers in Ecology and the Environment*. 7(8): 409-414.

**Hurteau, S.; Sisk, T.; Dickson, B.; Block, W. 2010.** Variability in nest density, occupancy, and home range size of western bluebirds after forest treatments. *Forest Science*. 56(1): 131-138.

**Hurtt, G.C.; Pacala, S.W.; Moorcroft, P.R.; Caspersen, J.; Shevliakova, E.; Houghton, R.A.; Moore, B., III. 2002.** Projecting the future of the U.S. carbon sink. *Proceedings of the National Academy of Sciences of the United States of America*. 99(3): 1389-1394.

**Hutchinson, J.T.; Lacki, M.J. 2000.** Selection of day roosts by red bats in mixed mesophytic forests. *Journal of Wildlife Management*. 64(1): 87-94.

**Hutchinson, T.F.; Long, R.P.; Ford, R.D.; Sutherland, E.K. 2008.** Fire history and the establishment of oaks and maples in second-growth forests. *Canadian Journal of Forest Research*. 38(5): 1184-1198.

**Hutchinson, T.F.; Sutherland, E.K.; Yaussy, D.A. 2005.** Effects of repeated prescribed fires on the structure, composition, and regeneration of mixed-oak forests in Ohio. *Forest Ecology and Management*. 218(1-3): 210-228.

**Hutto, R.L. 1995.** Composition of bird communities following stand-replacement fires in

## Fire and Fire Surrogate Study: Literature Cited

- Northern Rocky Mountain (U.S.A.) conifer forests. *Conservation Biology*. 9(5): 1041-1058.
- Igboanugo, A.B.I. 1992.** Characteristics of leaf structure and photosynthetic apparatus within the crown of systematically shaded *Quercus petraea* and *Nothofagus procera* seedlings. *Biologia Plantarum*. 34(5/6): 401-407.
- Ingold, J.L.; Galati, R. 1997.** Golden-crowned kinglet (*Regulus satrapa*). In: Poole, A.; Gill, F., eds. *The birds of North America*. No. 301. Philadelphia, PA: The Academy of Natural Sciences; Washington, DC: The American Ornithologists' Union. 28 p.
- Innes, J.C.; North, M.P.; Williamson, N. 2006.** Effect of thinning and prescribed fire restoration treatments on woody debris and snag dynamics in a Sierran old-growth, mixed conifer forest. *Canadian Journal of Forest Research*. 36(12): 3183-3193.
- Inouye, R.S.; Tilman, D. 1995.** Convergence and divergence of old-field vegetation after 11 yr of nitrogen addition. *Ecology*. 76(6): 1872-1887.
- Iverson, L.R.; Hutchinson, T.F.; Prasad, A.M.; Peters, M.P. 2008.** Thinning, fire, and oak regeneration across a heterogeneous landscape in the eastern U.S: 7-year results. *Forest Ecology and Management*. 255(7): 3035-3050.
- Iverson, L.R.; Prasad, A.M.; Hutchinson, T.F.; Rebbeck, J.; Yaussy, D.A. 2004.** Fire and thinning in an Ohio oak forest: grid-based analyses of fire behavior, environmental conditions, and tree regeneration across a topographic moisture gradient. In: Spetich, M.A., ed. *Proceedings, upland oak ecology symposium: history, current conditions, and sustainability*. Gen. Tech. Rep. SRS-73. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 190-197.
- Iverson, L.R.; Yaussy, D.; Rebbeck, J.; Hutchinson, T.; Long, R.; McCarthy, B.; Riccardi, C.; Prasad, A. 2003.** Spatial and temporal distribution of fire temperatures from prescribed fires in the mixed oak forests of southern Ohio. In: Van Sambeek, J.W.; Dawson, J.O.; Ponder, F., Jr.; Loewenstein, E.F.; Fralish, J.S., eds. *Proceedings, 13<sup>th</sup> central hardwood*

## Fire and Fire Surrogate Study: Literature Cited

forest conference. Gen. Tech. Rep. NC-234. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station: 293-294.

**Iverson, L.R.; Yaussy, D.A.; Rebbeck, J.; Hutchinson, T.F.; Long, R.P.; Prasad, A.M. 2004.**

A comparison of thermocouples and temperature paints to monitor spatial and temporal characteristics of landscape-scale prescribed fires. *International Journal of Wildland Fire*. 13(3): 311-322.

**Jameson, E.W., Jr. 1951.** Local distribution of white-footed mice, *Peromyscus maniculatus* and *P. boylei*, in the northern Sierra Nevada, California. *Journal of Mammalogy*. 32(2): 197-203.

**Jenkins, M.A.; Parker, G.R. 1998.** Composition and diversity of woody vegetation in silvicultural openings of southern Indiana forests. *Forest Ecology and Management*. 109(1-3): 57-74.

**Joesting, H.M.; McCarthy, B.C.; Brown, K.J. 2007.** The photosynthetic response of American chestnut seedlings to differing light conditions. *Canadian Journal of Forest Research*. 37(9): 1714-1722.

**Johannesson, H.; Stenlid, J. 1999.** Molecular identification of wood-inhabiting fungi in an unmanaged *Picea abies* forest in Sweden. *Forest Ecology and Management*. 115(2/3): 203-211.

**Johnson, A.S.; Hale, P.E. 2000.** The historical foundations of prescribed burning for wildlife: a southeastern perspective. In: Ford, W.M.; Russell, K.R.; Moorman, C.E., eds. *Proceedings, the role of fire in nongame wildlife management and community restoration: traditional uses and new directions*. Gen. Tech. Rep. NE-288. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station: 11-23.

**Johnson, C.G. 1998.** Vegetation response after wildfires in national forests of northeastern Oregon. R6-NR-ECOL-TP-06-98. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region. 128 p. plus appendices.

## Fire and Fire Surrogate Study: Literature Cited

- Johnson, D.W.; Curtis, P.S. 2001.** Effects of forest management on soil carbon and N storage: meta analysis. *Forest Ecology and Management*. 140(2/3): 227-238.
- Johnson, D.W.; West, D.C.; Todd, D.E.; Mann, L.K. 1982.** Effects of sawlog vs. whole-tree harvesting on the nitrogen, phosphorus, potassium, and calcium budgets of an upland mixed oak forest. *Soil Science Society of America Journal*. 46(6): 1304-1309.
- Johnson, D.W.; Susfalk, R.B.; Dahlgren, R.A. 1997.** Nutrient fluxes in forests of the eastern Sierra Nevada mountains, United States of America. *Global Biogeochemical Cycles*. 11(4): 673-681.
- Johnson, P.S. 1974.** Survival and growth of northern red oak seedlings following a prescribed burn. Res. Note NC-177. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 3 p.
- Jones, S.M. 1991.** Landscape ecosystem classification for South Carolina. In: Mengel, D.L.; Tew, D.T., eds. *Proceedings, Ecological land classification: applications to identify the productive potential of southern forests*. Gen. Tech. Rep. SE-68. Asheville, NC U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station: 59-68.
- Jones, C.A. 1992.** Review of the effects of fire on *Peromyscus* and *Podomys*. *Florida Scientist*. 55(2): 75-84.
- Jones, J.L.; Webb, B.W.; Butler, B.W.; Dickinson, M.B.; Jimenez, D.; Reardon, J.; Bova, A.S. 2006.** Prediction and measurement of thermally induced cambial tissue necrosis in tree stems. *International Journal of Wildland Fire*. 15(1): 3-17.
- Jonsson, L., Dahlberg, A.; Nilsson, M.-C.; Zackrisson, O.; Kårén, O. 1999.** Ectomycorrhizal fungal communities in late-successional Swedish boreal forests, and their composition following wildfire. *Molecular Ecology*. 8(2): 205-215.
- Jurgensen, M.F.; Graham, R.T.; Larsen, M.J.; Harvey, A.E. 1992.** Clear-cutting, woody residue removal, and nonsymbiotic nitrogen fixation in forest soils of the Inland Pacific

## Fire and Fire Surrogate Study: Literature Cited

Northwest. Canadian Journal of Forest Research. 22(8): 1172-1178.

**Kalabokidis, K.D.; Wakimoto, R.H. 1992.** Prescribed burning in uneven-aged stand management of ponderosa pine/Douglas-fir forests. Journal of Environmental Management. 34(3): 221-235.

**Kalcounis-Ruppell, M.C.; Millar, J.S. 2002.** Partitioning of space, food, and time by syntopic *Peromyscus boylii* and *P. californicus*. Journal of Mammalogy. 83(2): 614-625.

**Kauffman, J.B.; Martin, R.E. 1989.** Fire behavior, fuel consumption, and forest-floor changes following prescribed understory fires in Sierra Nevada mixed conifer forests. Canadian Journal of Forest Research. 19(4): 455-462.

**Kaufman, D.W.; Finck, E.J.; Kaufman, G.A. 1990.** Small mammals and grassland fires. In: Collins, S.L.; Wallace, L.L., eds. Fire in North American tallgrass prairies. Norman, OK: University of Oklahoma Press: 46-80.

**Kaye, J.P.; Hart, S.C. 1998.** Ecological restoration alters nitrogen transformations in a ponderosa pine-bunchgrass ecosystem. Ecological Applications. 8(4): 1052-1060.

**Keeley, J.E.; McGinnis, T.W. 2007.** Impact of prescribed fire and other factors on cheatgrass persistence in a Sierra Nevada ponderosa pine forest. International Journal of Wildland Fire. 16(1): 96-106.

**Keeley, J.E.; Lubin, D.; Fotheringham, C.J. 2003.** Fire and grazing impacts on plant diversity and alien plant invasions in the southern Sierra Nevada. Ecological Applications. 13(5): 1355-1374.

**Kennard, D.K.; Outcalt, K.W.; Jones, D.; O'Brien, J.J. 2005.** Comparing techniques for estimating flame temperature of prescribed fires. Fire Ecology. 1(1): 75-84.

**Kennedy, P.L.; Fontaine, J.B. 2009.** Synthesis of knowledge on the effects of fire and fire surrogates on wildlife in U.S. dry forests. Special Report 1096. Corvallis, OR: Oregon State University. 132 p.

## Fire and Fire Surrogate Study: Literature Cited

- Kerns, B.K.; Thies, W.G.; Niwa, C.G. 2006.** Season and severity of prescribed burn in ponderosa pine forests: implications for understory native and exotic plants. *Ecoscience*. 13(1): 44-55
- Keyser, P.D.; Sausville, D.J.; Ford, W.M.; Mengak, M.T.; Brose, P.; Van Lear, D.H. 2001.** Fire impacts to small mammals in Piedmont oak-shelterwoods. In: Eversole, A.G.; Wong, K.C.; Chamberlain, M.; Galvez, J.I., eds. Proceedings, 55<sup>th</sup> annual conference of Southeast Association of Fish and Wildlife Agencies. Tallahassee, FL: Southeastern Association of Fish and Wildlife Agencies: 375-381. Vol. 55.
- Keyser, P.D.; Sausville, D.J.; Ford, W.M.; Schwab, D.J.; Brose, P.H. 2004.** Prescribed fire impacts to amphibians and reptiles in shelterwood-harvested oak-dominated forests. *Virginia Journal of Science*. 55(4): 159-168.
- Kilgo, J.C.; Moorman, C.E. 2003.** Patterns of cowbird parasitism in the southern Atlantic Coastal Plain and Piedmont. *Wilson Bulletin*. 115(3): 277-284.
- Kilgore, B.M. 1973.** Impact of prescribed burning on a sequoia-mixed conifer forest. In: Proceedings of the 12<sup>th</sup> annual Tall Timbers Fire Ecology Conference. Tallahassee, FL: Tall Timber Research Station: 345-375.
- Kilpatrick, E.S. 2002.** The effects of prescribed burning and thinning as fuel reduction treatments on herpetofauna in the upper Piedmont of South Carolina. Clemson, SC: Clemson University. 66 p. M.S. thesis.
- Kilpatrick, E.S. 2006.** Responses of vertebrate fauna to prescribed fire and fuel reduction treatments in the southern Piedmont. Clemson, SC: Clemson University. 198 p. Ph.D. dissertation.
- Kilpatrick, E.S.; Kubacz, D.B.; Guynn, D.C., Jr.; Lanham, J.D.; Waldrop, T.A. 2004.** The effects of prescribed burning and thinning on herpetofauna and small mammals in the upper Piedmont of South Carolina: preliminary results of the National Fire and Fire Surrogate

## Fire and Fire Surrogate Study: Literature Cited

study. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 18-22.

**Kilpatrick, E.S.; Lanham, J.D.; Waldrop, T.A. 2010.** Effects of fuel reduction treatments on avian nest density in the upper Piedmont of South Carolina. *Open Environmental Sciences*. 4: 70-75.

**Kilpatrick, E.S.; Waldrop, T.A.; Lanham, J.D.; Greenberg, C.H.; Contreras, T.H. 2010.** Short-term effects of fuel reduction treatments on herpetofauna from the southeastern United States. *Forest Science*. 56(1): 122-130.

**Kingery, H.E.; Ghalambor, C.K. 2001.** Pygmy nuthatch (*Sitta pygmaea*). In: Poole, A.; Gill, F., eds. *The birds of North America*. No. 567. Philadelphia, PA: The Academy of Natural Sciences; Washington, DC: The American Ornithologists' Union. 32 p.

**Kirkland, G.L., Jr. 1990.** Patterns of initial small mammal community change after clearcutting of temperate North American forests. *Oikos*. 59(3): 313-320.

**Kirkland, G.L., Jr.; Snoddy, H.W.; Amsler, T.L. 1996.** Impact of fire on small mammals and amphibians in a central Appalachian deciduous forest. *American Midland Naturalist*. 135(2): 253-260.

**Klemmedson, J.O. 1992.** Decomposition and nutrient release from mixtures of Gambel oak and ponderosa pine leaf litter. *Forest Ecology and Management*. 47(1-4): 349-361.

**Klemola, T.; Koivula, M.; Korpimäki, E.; Norrdahl, K. 2000.** Experimental tests of predation and food hypotheses for population cycles of voles. *Proceedings of the Royal Society of London, Biological Sciences*. 267: 351-356.

**Klenner, W.; Sullivan, T.P. 2003.** Partial and clear-cut harvesting of high-elevation spruce-fir forests: implications for small mammal communities. *Canadian Journal of Forest Research*. 33(12): 2283-2296.

## Fire and Fire Surrogate Study: Literature Cited

- Klepac, J.; Reutebuch, S.E.; Rummer, R. B. 1999.** An assessment of soil disturbance from five harvesting intensities. Presentation Paper 99-5052. St. Joseph, MI: American Society of Agricultural Engineers. 17 p.
- Klironomos, J.N. 1995.** Arbuscular mycorrhizae of *Acer saccharum* in different soil types. Canadian Journal of Botany. 73(11): 1824-1830.
- Klug, P.E.; Jackrel, S.L.; With, K.A. 2010.** Linking snake habitat use to nest predation risk in grassland birds: the dangers of shrub cover. *Oecologia*. 162(3): 803-813.
- Knapp, E.E.; Estes, B.L.; Skinner, C.N. 2009.** Ecological effects of prescribed fire season: a literature review and synthesis for managers. Gen. Tech. Rep. PSW-GTR-224. U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 80 p.
- Knapp, E.E.; Keeley, J.E. 2006.** Heterogeneity in fire severity within early season and late season prescribed burns in a mixed-conifer forest. *International Journal of Wildland Fire*. 15(1): 37-45.
- Knapp, E.E.; Keeley, J.E.; Ballenger, E.A.; Brennan, T.J. 2005.** Fuel reduction and coarse woody debris dynamics with early season and late season prescribed fire in a Sierra Nevada mixed conifer forest. *Forest Ecology and Management*. 208(1-3): 383-397.
- Knapp, E.E.; Schwilk, D.W.; Kane, J.M.; Keeley, J.E. 2007.** Role of burning season on initial understory vegetation response to prescribed fire in a mixed conifer forest. *Canadian Journal of Forest Research*. 37(1): 11-22.
- Knapp, E.E.; Stephens, S.L.; McIver, J.D.; Moghaddas, J.J.; Keeley, J.E. 2004.** Fire and fire surrogate study in the Sierra Nevada: evaluating restoration treatments at Blodgett Forest and Sequoia National Park. In: Murphy, D.D.; Stine, P.A., eds. Proceedings, Sierra Nevada science symposium 2002: science for management and conservation. Gen. Tech. Rep. PSW-GTR-193. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 79-85.

## Fire and Fire Surrogate Study: Literature Cited

- Knapp, S.M.; Hass, C.A.; Harpole, D.N.; Kirkpatrick, R.L. 2003.** Initial effects of clearcutting and alternative silvicultural practices on terrestrial salamander abundance. *Conservation Biology*. 17(3): 752-762.
- Knoepp, J.D.; Swank, W.T. 1993.** Site preparation burning to improve southern Appalachian pine-hardwood stands: nitrogen responses in soil, soil water, and streams. *Canadian Journal of Forest Research*. 23(10): 2263-2270.
- Knoepp, J.D.; Vose, J.M.; Swank, W.T. 2004.** Long-term soil responses to site preparation burning in the southern Appalachians. *Forest Science*. 50(4): 540-550.
- Kobziar, L.; Moghaddas, J.; Stephens, S.L. 2006.** Tree mortality patterns following prescribed fires in a mixed conifer forest. *Canadian Journal of Forest Research*. 36(12): 3222-3238.
- Kolaks, J.E.; Cutter, B.E.; Loewenstine, E.F.; Grabner, K.W.; Hartman, G.; Kabrick, J.M. 2003.** Fuel loading in the central hardwoods. In: *Proceedings, 2<sup>nd</sup> international wildland fire ecology and fire management congress*. Boston, MA: American Meteorology Society. 6 p.
- Kolb, T.E.; Holmberg, K.M.; Wagner, M.R.; Stone, J.E. 1998.** Regulation of ponderosa pine foliar physiology and insect resistance mechanisms by basal area treatments. *Tree Physiology*. 18(6): 375-381.
- Kolb, T.E.; Agee, J.K.; Fulé, P.Z.; McDowell, N.G.; Pearson, K.; Sala, A.; Waring, R.H. 2007.** Perpetuating old growth ponderosa pine. *Forest Ecology and Management*. 249(3): 141-157.
- Komarek, E.V., Sr. 1977.** A quest for ecological understanding; the Secretary's review. Misc. Publ. 5. Tallahassee, FL: Tall Timbers Research Station. 140 p.
- Kopper, K.E. 2002.** Meta-analysis design and interpretation: a case study of prescribed fire effects on fuel loadings in ponderosa pine ecosystems. Seattle, WA: University of Washington. 36 p. M.S. thesis.
- Korb, J.E.; Johnson, N.C.; Covington, W.W. 2003.** Arbuscular mycorrhizal propagule

## Fire and Fire Surrogate Study: Literature Cited

densities respond rapidly to ponderosa pine restoration treatments. *Journal of Applied Ecology*. 40(1): 101-110.

**Kotliar, N.B.; Hejl, S.J.; Hutto, R.L.; Saab, V.A.; Melcher, C.P.; McFadzen, M.E. 2002.**

Effects of fire and post-fire salvage logging on avian communities in conifer-dominated forests of the western United States. *Studies in Avian Biology*. 25: 49-64.

**Kovacic, D.A.; Swift, D.M.; Ellis, J.E.; Hakonson, T.E. 1986.** Immediate effects of prescribed

burning on mineral soil nitrogen in ponderosa pine of New Mexico. *Soil Science*. 141(1): 71-76.

**Kraemer, J.F.; Hermann, R.K. 1979.** Broadcast burning: 25-year effects on forest soils in the

western flanks of the Cascade Mountains. *Forest Science*. 25(3): 427-439.

**Krefting, L.W.; Ahlgren, C.E. 1974.** Small mammals and vegetation changes after fire in a

mixed conifer-hardwood forest. *Ecology*. 55(6): 1391-1398.

**Kruger, E.L.; Reich, P.B. 1997.** Responses of hardwood regeneration to fire in mesic forest

openings. Part I: Post-fire community dynamics. *Canadian Journal of Forest Research*. 27(12): 1822-1831.

**Kubacz, D.B. 2003.** Effects of fire and fire surrogate treatments on small mammals in the South

Carolina Piedmont. Clemson, SC: Clemson University. 73 p. M.S. thesis.

**Kubiske, M.E.; Pregitzer, K.S. 1996.** Effects of elevated CO<sub>2</sub> and light availability on the

photosynthetic light response of trees of contrasting shade tolerance. *Tree Physiology*. 16(3): 351-358.

**Kuddes-Fischer, L.M.; Arthur, M.A. 2002.** Response of understory vegetation and tree

regeneration to a single prescribed fire in oak-pine forests. *Natural Areas Journal*. 22(1): 43-52.

**Kyle, S.C.; Block, W.M. 2000.** Effects of wildfire severity on small mammals in northern Arizona

ponderosa pine forests. In: Moser, W.K.; Moser, C.F., eds. *Proceedings, fires and forest*

## Fire and Fire Surrogate Study: Literature Cited

- ecology: innovative silviculture and vegetation management. Tall Timbers Fire Ecology Conference proceedings No. 21. Tallahassee, FL: Tall Timbers Research Station: 163-168.
- Lambers, H.; Chapin, F.S., III; Pons, T.L. 1998.** Plant physiological ecology. 2<sup>nd</sup> ed: NY: Springer Science+Business Media. 604 p.
- Landers, J.L.; Byrd, N.A.; Komarek, R. 1989.** A holistic approach to managing longleaf pine communities. In: Farrar, R.S, Jr., ed. Proceedings, mangement of longleaf pine. Gen. Tech. Rep. SO-75. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station: 135-167.
- Landsberg, J.D.; Cochran, P.H.; Finck, M.M.; Martin, R.E. 1984.** Foliar nitrogen content and tree growth after prescribed fire in ponderosa pine. Res. Note PNW-412. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 16 p.
- Latty, E.F.; Canham, C.D.; Marks, P.L. 2004.** The effects of land-use history on soil properties and nutrient dynamics in northern hardwood forests of the Adirondack Mountains. Ecosystem. 7(2): 193-207.
- Laughlin, D.C.; Bakker, J.D.; Stoddard, M.T.; Daniels, M.L.; Springer, J.D.; Gildar, C.N.; Green, A.M.; Covington, W.W. 2004.** Toward reference conditions: wildfire effects on flora in an old-growth ponderosa pine forest. Forest Ecology and Management. 199(1): 137-152.
- Laughlin, D.C.; Bakker, J.D.; Daniels, M.L.; Moore, M.M.; Casey, C.A.; Springer, J.D. 2008.** Restoring plant species diversity and community composition in a ponderosa pine-bunchgrass ecosystem. Plant Ecology 197(1): 139-151.
- Legendre, P.; Legendre, L. 1998.** Numerical ecology. Amsterdam, The Netherlands: Elsevier Science B.V. 853 p.
- Lehmkuhl, J.F. 2002.** The effects of spring burning and grass seedling in forest clearcuts on native plants and conifer seedlings in coastal Washington. Northwest Science. 76(1): 46-60.

## Fire and Fire Surrogate Study: Literature Cited

- Leput, D.W. 2004.** Eastern red bat (*Lasiurus borealis*) and eastern pipistrelle (*Pipistrellus subflavus*) maternal roost selection: implications for forest management. Clemson, SC: Clemson University. 86 p. M.S. thesis.
- Lione, D. 2002.** Effects of prescribed burning and thinning as fuel reduction treatments on the soils of the Clemson Experimental Forest. Clemson, SC: Clemson University. 87 p. M.S. thesis.
- Loeb, S.C.; Waldrop, T.A. 2008.** Bat activity in relation to fire and fire surrogate treatments in southern pine stands. *Forest Ecology and Management*. 255(8/9): 3185-3192.
- Loehle, C. 2004.** Applying landscape principles to fire hazard reduction. *Forest Ecology and Management*. 198(1-3): 261-267.
- Lolley, M.R. 2005.** Wildland fuel conditions and effects of modeled fuel treatments on wildland fire behavior and severity in dry forests of the Wenatchee Mountains. Seattle, WA: University of Washington. 145 p. M.S. thesis.
- Lombardo, J.A.; McCarthy, B.C. 2008.** Forest management and curculionid weevil diversity in mixed oak forests of southeastern Ohio. *Natural Areas Journal*. 28(4): 363-369.
- Loomis, R.M. 1973.** Estimating fire-caused mortality and injury in oak-hickory forests. Res. Pap. NC-94. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 6 p.
- Lundquist, J.E. 2007.** The relative influence of diseases and other small-scale disturbances on fuel loading in the Black Hills. *Plant Disease*. 91(2): 147-152.
- Lundquist, R.W.; Manuwal, D.A. 1990.** Seasonal differences in foraging habitat of cavity-nesting birds in the southern Washington Cascades. In: Morrison, M.L.; Ralph, C.J.; Verner, J.; Jehl, J.R., Jr., eds. *Avian foraging: theory, methodology, and applications*. *Studies in Avian Biology*. 13: 218-225.

## Fire and Fire Surrogate Study: Literature Cited

- Lyons, A.L.; Gaines, W.L.; Lehmkuhl, J.F.; Harrod, R.J. 2008.** Short-term effects of fire and fire surrogate treatments on foraging tree selection by cavity-nesting birds in dry forests of central Washington. *Forest Ecology and Management*. 255(8/9): 3203-3211.
- Machmer, M. 2002.** Effects of ecosystem restoration treatments on cavity-nesting birds, their habitat, and their insectivorous prey in fire-maintained forests of southeastern British Columbia. In: Laudenslayer, W.F.; Shea, P.J.; Valentine, B.E.; Weatherspoon, C.P.; Lisle, T.E., tech. cords. Proceedings, ecology and management of dead wood in western forests. Gen. Tech. Rep. PSW-181. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 121-133.
- MacKenzie, M.D.; DeLuca, T.H.; Sala, A. 2004.** Forest structure and organic horizon analysis along a fire chronosequence in the low elevation forests of western Montana. *Forest Ecology and Management*. 203(1-3): 331-343.
- Mager, K.J.; Nelson, T.A. 2001.** Roost site selection by eastern red bats (*Lasiurus borealis*). *American Midland Naturalist*. 145(1): 120-126.
- Mann, L.K.; Johnson, D.W.; West, D.C.; Cole, D.W.; Hornbeck, J.W.; Martin, C.W.; Riekerk, H.; Smith, C.T.; Swank, W.T.; Tritton, L.M.; Van Lear, D.H. 1988.** Effects of whole-tree and stem-only clearcutting on postharvest hydrologic losses, nutrient capital, and regrowth. *Forest Science*. 34(2): 412-428.
- Mantgem, P.J. van; Schwilk, D.W. 2009.** Negligible influence of spatial autocorrelation in the assessment of fire effects in a mixed conifer forest. *Fire Ecology*. 5(2): 116-125.
- Marino, P.C.; Eisenberg, R.M.; Cornell, H.V. 1997.** Influence of sunlight and soil nutrients on clonal growth and sexual reproduction of the understory perennial herb *Sanguinaria canadensis* L. *Journal of the Torrey Botanical Society*. 124(3): 219-227.
- Marks, G.C.; Kassaby, F.Y.; Fagg, P.C. 1975.** Variation in population levels of *Phytophthora cinnamomi* in *Eucalyptus* forest soils of eastern Victoria. *Australian Journal of Botany*. 23(3):

## Fire and Fire Surrogate Study: Literature Cited

435-449.

**Martell, A.M. 1984.** Changes in small mammal communities after fire in northcentral Ontario. Canadian Field-Naturalist. 98(2): 223-226.

**Matson, P.A.; Vitousek, P.M. 1981.** Nitrogen mineralization and nitrification potentials following clearcutting in the Hoosier National Forest, Indiana. Forest Science. 27(4): 781-791.

**Matthews, C.E. 2008.** Long-term response of herpetofauna and soricid populations to fire and fuel reduction treatments in the southern Appalachian Mountains. Raleigh, NC: North Carolina State University. 57 p. M.S. thesis.

**Matthews, C.E.; Moorman, C.E.; Greenberg, C.H.; Waldrop, T.A. 2009.** Response of soricid populations to repeated fire and fuel reduction treatments in the southern Appalachian Mountains. Forest Ecology and Management. 257(9): 1939-1944.

**Matthews, C.E.; Moorman, C.E.; Greenberg, C.H.; Waldrop, T.A. 2010.** Response of reptiles and amphibians to repeated fuel reduction treatments. Journal of Wildlife Management. 74(6): 1301-1310.

**Matzka, P.J. 2003.** Thinning with prescribed fire and timber harvesting mechanization for fuels reduction and forest restoration. Corvallis, OR: Oregon State University. 228 p. Ph.D. dissertation.

**Matzka, P.; Kellogg, L. 1999.** Thinning with prescribed fire and timber harvesting mechanization for forest restoration: a review of past and present research. In: Proceedings, 1999 international mountain logging and 10<sup>th</sup> Pacific Northwest skyline symposium. Corvallis, OR: Oregon State University: 293-302.

**Matzka, P.J.; Kellogg, L.D. 2000.** An economic model for evaluating factors affecting biomass reduction and forest restoration. In: Proceedings, technologies for new millennium forestry, joint meeting of Council of Forest Engineering and Canadian Woodlands Forum. Corvallis, OR: Council of Forest Engineering. 5 p.

## Fire and Fire Surrogate Study: Literature Cited

- McCaffrey, S.; Moghaddas, J.J.; Stephens, S.L. 2008.** Different interest group views of fuels treatments: survey results from fire and fire surrogate treatments in a Sierran mixed conifer forest, California, USA. *International Journal of Wildland Fire*. 17(2): 224-233.
- McCarthy, B. 1995.** Eastern old-growth forests. *Ohio Woodland Journal*. 1: 8-10.
- McCarthy, B.C.; Bailey, R.R. 1994.** Distribution and abundance of coarse woody debris in a managed forest landscape of the central Appalachians. *Canadian Journal of Forest Research*. 24(7): 1317-1329.
- McCarthy, B.C.; Quinn, J.A. 1989.** Within- and among-tree variation in flower and fruit production in two species of *Carya* (Juglandaceae). *American Journal of Botany*. 76(7): 1015-1023.
- McCay, T.S. 2000.** Use of woody debris by cotton mice (*Peromyscus gossypinus*) in a southeastern pine forest. *Journal of Mammalogy*. 81(2): 527-535.
- McConnell, B.R.; Smith, J.R. 1965.** Understory response three years after thinning pine. *Journal of Range Management*. 18(3): 129-132.
- McConnell, B.R.; Smith, J.R. 1970.** Response of understory vegetation to ponderosa pine thinning in eastern Washington. *Journal of Range Management*. 23(3): 208-212.
- McEwan, R.W.; Muller, R.N.; McCarthy, B.C. 2005.** Vegetation-environment relationships among woody species in four canopy-layers in an old-growth mixed mesophytic forest. *Castanea*. 70(1): 32-46.
- McEwan, R.W.; Hutchinson, T.F.; Long, R.P.; Ford, R.D.; McCarthy, B.C. 2007.** Temporal and spatial patterns in fire occurrence during the establishment of mixed-oak forests in eastern North America. *Journal of Vegetation Science*. 18(5): 655-664.
- McGee, G.G.; Leopold, D.J.; Nyland, R.D. 1995.** Understory response to springtime prescribed fire in two New York transition oak forests. *Forest Ecology and Management*. 76(1-3): 149-168.

## Fire and Fire Surrogate Study: Literature Cited

- McHugh, C.W.; Kolb, T.E. 2003.** Ponderosa pine mortality following fire in northern Arizona  
International Journal of Wildland Fire. 12(1): 7-22.
- McHugh, C.W.; Kolb, T.E.; Wilson, J.L. 2003.** Bark beetle attacks on ponderosa pine following  
fire in northern Arizona. Environmental Entomology. 32(3): 510-522.
- McIver, J.; Weatherspoon, P.; Edminster, C. 2001.** Alternative ponderosa pine restoration  
treatments in the western United States. In: Vance, R.K.; Edminster, C.B.; Covington, W.W.;  
Blake, J.A., comps. Proceedings, ponderosa pine ecosystems restoration and conservation:  
steps toward stewardship. RMRS-P-22. Ogden, UT: U.S. Department of Agriculture, Forest  
Service, Rocky Mountain Research Station: 104-109.
- McIver, J.; Youngblood, A.; Stephens, S.L. 2009.** The national fire and fire surrogate study:  
ecological consequences of fuel reduction methods in seasonally dry forests. Ecological  
Applications. 19(2): 283-284.
- McIver, J.D.; Adams, P.W.; Doyal, J.A.; Drews, E.S.; Hartsough, B.R.; Kellogg, L.D.; Niwa,  
C.G.; Ottmar, R.; Peck, R.; Taratoot, M.; Torgersen, T.; Youngblood A. 2003.**  
Environmental effects and economics of mechanized logging for fuel reduction in  
northeastern Oregon mixed-conifer stands. Western Journal of Applied Forestry. 18(4): 238-  
249.
- McIver, J.D.; Boerner, R.E.J.; Hart, S.C. 2008.** The national fire and fire surrogate study:  
ecological consequences of alternative fuel reduction methods in seasonally dry forests.  
Forest Ecology and Management. 255(8/9): 3075-3080.
- McIver, J.D.; Fettig, C.J. 2010.** Ecological consequences of alternative fuel reduction  
treatments in seasonally dry forests: the national fire and fire surrogate study. Forest  
Science. 56(1): 2-3.

## Fire and Fire Surrogate Study: Literature Cited

- McIver, J.D.; Weatherspoon, C.P. 2010.** On conducting a multisite, multidisciplinary forestry research project: lessons from the national fire and fire surrogate study. *Forest Science*. 56(1): 4-17.
- McIver, J.D.; Youngblood, A.; Niwa, C.; Ottmar, R.; Smith, J. 2000a.** Hypotheses on the ecological effects of alternative fuel reduction methods. In: *Proceedings, Society of American Foresters 1999 National Convention*. Methesda, MD: Society of American Foresters: 552-555.
- McIver, J.D.; Youngblood, A.; Niwa, C.; Smith, J.; Ottmar, R.; Matzka, P. 2000b.** Alternative fuel reduction methods in Blue Mountain Dry Forests: an introduction to the Hungry Bob project. In: Neuenschwander, L.F.; Ryan, K.C.; Goldberg, G.E., eds. *Proceedings, crossing the millennium: integrating spatial technologies and ecological principles for a new age in fire management, 1999 Joint Fire Science conference*. Moscow, ID: University of Idaho Press, online version: 282-286.
- McKee, W.H., Jr. 1982.** Changes in soil fertility following prescribed burning on Coastal Plain pine sites. Res. Pap. SE-234. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 23 p.
- McLaughlin, I.M. 2008.** Effects of fuel reduction treatments on species of *Phytophthora* and *Leptographium* in forest ecosystems. Clemson, SC: Clemson University. 162 p. M.S. thesis.
- McQuattie, C.J.; Rebbeck, J.; Yaussy, D.A. 2004.** Effects of fire and thinning on growth, mycorrhizal colonization, and leaf anatomy of black oak and red maple seedlings. In: Yaussy, D.A.; Hix, D.M.; Long, R.P.; Goebel, P.C., eds. *Proceedings, 14<sup>th</sup> central hardwood forest conference*. Gen. Tech. Rep. GTR-NE-316. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station: 200-208.

## Fire and Fire Surrogate Study: Literature Cited

- McRae, D.J.; Duchesne, L.C.; Freedman, B.; Lynham, T.J.; Woodley, S. 2001.** Comparisons between wildfire and forest harvesting and their implications in forest management. *Environmental Reviews*. 9(4): 223–260.
- Means, D.B.; Dodd, C.K., Jr.; Johnson, S.A.; Palis, J.G. 2004.** Amphibians and fire in longleaf pine ecosystems: response to Schurbon and Fauth. *Conservation Biology*. 18(4): 1149-1153.
- Medin, D.E.; Booth, G.D. 1989.** Responses of birds and small mammals to single-tree selection logging in Idaho. Res. Pap. INT-408. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 11 p.
- Menges, E.S.; Quintana Ascencio, P.F.; Weekley, C.W.; Gaoue, O.G. 2006.** Population viability analysis and fire return intervals for an endemic Florida scrub mint. *Biological Conservation*. 127(1): 115-127.
- Menzel, M.A.; Krishon, D.M.; Carter, T.C.; Laerm J. 1999.** Notes on tree roost characteristics of the northern yellow bat (*Lasiurus intermedius*), the Seminole bat (*L. seminolus*) the evening bat (*Nycticeius humeralis*) and the eastern pipistrelle (*Pipistrellus subflavus*). *Florida Scientist*. 62(Part 3/4): 185-193.
- Merrill, E.H.; Mayland, H.F.; Peek, J.M. 1980.** Effects of a fall wildfire on herbaceous vegetation on xeric sites in the Selway-Bitterroot Wilderness, Idaho. *Journal of Range Management*. 33(5): 363-367.
- Merrett, P. 1976.** Changes in the ground-living spider fauna after heathland fires in Dorset. *Bulletin of the British Arachnological Society*. 3(8): 214-221.
- Metlen, K.L. 2002.** Undergrowth vegetation response to fuel reduction treatments in the Blue Mountains of eastern Oregon. Missoula, MT: University of Montana. 74 p. M.S. thesis.
- Metlen, K.L.; Dodson, E.K.; Fiedler, C.E. 2006.** Vegetation response to restoration treatments in ponderosa pine-Douglas-fir forests. In: *Fire Effects Information System*. Fort Collins, CO:

## Fire and Fire Surrogate Study: Literature Cited

U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.

[www.fs.fed.us/database/feis/research\\_project\\_summaries/Metlen06/all.html](http://www.fs.fed.us/database/feis/research_project_summaries/Metlen06/all.html) (Date accessed Jan. 23, 2012)

**Metlen, K.L.; Fiedler, C.E. 2006.** Restoration treatment effects on the understory of ponderosa pine/Douglas-fir forests in western Montana, USA. *Forest Ecology and Management*. 222(1-3): 355-369.

**Metlen, K.L.; Fiedler, C.E.; Youngblood, A. 2004.** Understory response to fuel reduction treatments in the Blue Mountains of northeastern Oregon. *Northwest Science*. 78(3): 175-185.

**Miesel, J.R. 2009.** Restoring mixed-conifer forests with fire and mechanical thinning: effects on soil properties and mature conifer foliage. Columbus, OH: Ohio State University. 209 p. Ph.D. dissertation.

**Miesel, J.R.; Boerner, R.E.J.; Skinner, C.N. 2008.** Mechanical restoration of California mixed-conifer forests: Does it matter which trees are cut? *Restoration Ecology*. 17(6): 784-795.

**Miesel, J.; Skinner, C.; Boerner, R. 2006.** Impact of fire on soil resource patterns in mixed-conifer forests in the southern Cascade Range of northern California. In: Dickinson, M.B., ed. *Proceedings, fire in eastern oak forests: delivering science to land managers*. Gen. Tech. Rep. NRS-P-1. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 290.

**Miller, C.; Urban, D.L. 2000.** Modeling the effects of fire management alternatives on Sierra Nevada mixed-conifer forests. *Ecological Applications*. 10(1): 85-94.

**Miller R.B.; Stout, J.D.; Lee, K.E, 1955.** Biological and chemical changes following scrub burning on a New Zealand hill soil. *New Zealand Journal of Science and Technology*. 37: 390-313.

**Miller, D.A.; Leopold, B.D.; Conner, L.M.; Shelton; M.G. 1999.** Effects of pine and hardwood

## Fire and Fire Surrogate Study: Literature Cited

basal areas after uneven-aged silviculture treatments on wildlife habitat. *Southern Journal of Applied Forestry*. 23(3): 151-157.

**Moehring, D.M.; Grano, C.X.; Bassett J.R. 1966.** Properties of forested loess soils after repeated prescribed burns. Res. Note SO-40. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 4 p.

**Moghaddas, E.E.Y.; Stephens, S.L. 2007a.** Thinning, burning, and thin-burn fuel treatment effects on soil properties in a Sierra Nevada mixed-conifer forest. *Forest Ecology and Management*. 250(3): 156-166.

**Moghaddas, E.E.Y.; Stephens, S.L. 2008.** Mechanized fuel treatment effects on soil compaction in Sierra Nevada mixed-conifer stands. *Forest Ecology and Management*. 255(8/9): 3098-3106.

**Moghaddas, J.J.; Stephens, S.L. 2007b.** Fire performance in traditional silvicultural and fire surrogate treatments in Sierran mixed conifer forests: a brief summary. In: Powers, R.F., ed. *Proceedings, 2005 national silviculture workshop, restoring fire-adapted ecosystems*. Gen. Tech. Rep. PSW-GTR-203. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 251-260.

**Moghaddas, J.J.; Stephens, S.L.; York, R.A. 2008.** Initial response of conifer and California black oak seedlings following fuel reduction activities in a Sierra Nevada mixed conifer forest. *Forest Ecology and Management*. 255(8/9): 3141-3150

**Mohr, H.H.; Waldrop, T.A. 2006.** A simulation of wildfire behavior in Piedmont forests. In: Conner, K.F., ed. *Proceedings, 13<sup>th</sup> biennial southern silvicultural research conference*. Gen. Tech. Rep. SRS-92. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 507-509.

**Mohr, H.H.; Waldrop, T.A.; Rideout, S.; Phillips, R.J.; Flint, C.T. 2004.** Effectiveness of fire and fire surrogate treatments for controlling wildfire behavior in Piedmont forests: a

## Fire and Fire Surrogate Study: Literature Cited

simulation study. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 71-73.

**Mohr, H.H.; Waldrop, T.A.; Simon, D.M. 2010.** Using BEHAVEPlus for predicting fire behavior in southern Appalachian hardwood stands subjected to fuel reduction treatments. In: Stanturf, J.A., ed. Proceedings, 14<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 565-567.

**Monleon, V.J.; Cromack, K., Jr.; Landsberg, J.D. 1997.** Short and long-term effects of prescribed underburning on nitrogen availability in ponderosa pine stands in central Oregon. Canadian Journal of Forest Research. 27(3): 369-378.

**Monroe, M.C.; Pennisi, L.; McCraffrey, S.; Mileti, D. 2006.** Social science to improve fuels management: a synthesis of research related to communicating with homeowners about fuels management efforts. Gen. Tech. Rep. NC-267. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 42 p.

**Monroe, M.E.; Converse, S.J. 2006.** The effects of early season and late season prescribed fires on small mammals in a Sierra Nevada mixed conifer forest. Forest Ecology and Management. 236(2/3): 229-240.

**Moody, J.M. 2002.** Fire and alternative fuel treatments on soil nitrogen: a case study of Myakka River State Park. Tallahassee, FL: Florida Agriculture and Mechanical University. 52 p. M.S. thesis.

**Moore, M.M.; Casey, C.A.; Bakker, J.D.; Springer, J.D.; Fulé, P.Z.; Covington, W.W.; Laughlin, D.C. 2006.** Herbaceous vegetation responses (1992-2004) to restoration treatments in a ponderosa pine forest. Rangeland Ecology and Management. 59(2): 135-144.

## Fire and Fire Surrogate Study: Literature Cited

- Moretti, M.; Obrist, M.K.; Duelli, P. 2004.** Arthropod biodiversity after forest fires: winners and losers in the winter fire regime of the southern Alps. *Ecography*. 27(2): 173-186.
- Moretti, M.; Duelli, P.; Obrist, M.K. 2006.** Biodiversity and resilience of arthropod communities after fire disturbance in temperate forests. *Oecologia*. 149(2): 312–327.
- Morrison, M.L.; Raphael, M.G. 1993.** Modeling the dynamics of snags. *Ecological Applications*. 3(2): 322-330.
- Morrison, M.L.; Dahlsten, D.L.; Tait, S.M.; Heald, R.C.; Milne, K.A.; Rowney, D.L. 1989.** Bird foraging on incense-cedar and incense-cedar scale during winter in California. Res. Pap. PSW-RP-195. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and Range Experiment Station. 10 p.
- Moseley, K.R.; Castleberry, S.B.; Schweitzer, S.H. 2003.** Effects of prescribed fire on herpetofauna in bottomland hardwood forests. *Southeastern Naturalist*. 2(4): 475-486.
- Moses, R.A.; Boutin, S. 2001.** The influence of clear-cut logging and residual leave material on small mammal populations in aspen-dominated boreal mixedwoods. *Canadian Journal of Forest Research*. 31(3): 483-495.
- Muona, J.; Rutanen, I. 1994.** The short-term impact of fire on the beetle fauna in boreal coniferous forest. *Annales Zoologici Fennici*. 31(1): 109-121.
- Murphy, E.C.; Lehnhausen, W.A. 1998.** Density and foraging ecology of woodpeckers following a stand-replacement fire. *Journal of Wildlife Management*. 62(4): 1359-1372.
- Murphy, J.D.; Johnson, D.W.; Miller, W.W.; Walker, R.F.; Blank, R.R. 2006.** Prescribed fire effects on forest floor and soil nutrients in a Sierra Nevada forest. *Soil Science*. 171(3): 181-199.
- Mushinsky, H.R. 1985.** Fire and the Florida sandhill herpetofaunal community: with special attention to responses of *Cnemidophorus sexlineatus*. *Herpetologica*. 41(3): 333-342.
- Mushinsky, H.R. 1992.** Natural history and abundance of southeastern five-lined skinks,

## Fire and Fire Surrogate Study: Literature Cited

*Eumeces inexpectatus*, on a periodically burned sandhill in Florida. *Herpetologica*. 48(3): 307-312.

**Mutch, L.S.; Parsons, D.J. 1998.** Mixed conifer mortality and establishment before and after prescribed fire in Sequoia National Park, California. *Forest Science*. 44(3): 341-355.

**Muzika, R.M.; Grushecky, S.T.; Liebhold, A.M.; Smith, R.L. 2004.** Using thinning as a management tool for gypsy moth: the influence on small mammal abundance. *Forest Ecology and Management*. 92(2/3): 349-359.

**Naidu, S.L.; DeLucia, E.H. 1998.** Physiological and morphological acclimation of shade-grown tree seedlings to late-season canopy gap formation. *Plant Ecology*. 138(1): 27-40.

**Nelson, C.R.; Halpern, C.B.; Agee, J.K. 2008.** Thinning and burning result in low-level invasion by nonnative plants but neutral effects on natives. *Ecological Applications*. 18(3): 762-770.

**New, K.C.; Hanula, J.L. 1998.** Effect of time elapsed after prescribed burning in longleaf pine stands on potential prey of the red-cockaded woodpecker. *Southern Journal of Applied Forestry*. 22(3): 175-183.

**Nichols, W.F.; Killingbeck, K.T.; August, P.V. 1998.** The influence of geomorphological heterogeneity on biodiversity. II: A landscape perspective. *Conservation Biology*. 12(2): 371-379.

**Niemelä, J.; Haila, Y.; Punttila, P. 1996.** The importance of small-scale heterogeneity in boreal forests: variation in diversity in forest-floor invertebrates across the succession gradient. *Ecography*. 19(3): 352-368.

**Nieppola, J. 1992.** Long-term changes in stands of *Pinus sylvestris* in southern Finland. *Journal of Vegetation Science*. 3(4): 475-484.

**Nissley, S.D.; Zasoski, R.J.; Martin, R.E. 1980.** Nutrient changes after prescribed surface burning of Oregon ponderosa pine stands. In: Martin, R.E.; Edmonds, R.L.; Faulkner, D.A.;

## Fire and Fire Surrogate Study: Literature Cited

Harrington, J.B.; Fuquay, D.M.; Stocks, B.J.; Barr, S., eds. Proceedings, 6<sup>th</sup> conference on fire and forest meteorology. Bethesda, MD: Society of American Foresters: 214-219.

**Norden, A.H.; Kirkman, L.K. 2004.** Persistence and prolonged winter dormancy of the federally endangered *Schwalbea americana* L. (Scrophulariaceae) following experimental management techniques. *Natural Areas Journal*. 24(2): 129-134.

**Norrdahl, K.; Klemola, T.; Korpimäki, E.; Koivula, M. 2002.** Strong seasonality may attenuate trophic cascades: vertebrate predator exclusion in boreal grassland. *Oikos*. 99(3): 419-430.

**North, M.; Oakley, B.; Chen, J.; Erickson, H.; Gray, A.; Izzo, A.; Johnson, D.; Ma, S.; Marra, J.; Meyer, M.; Purcell, K.; Rambo, T.; Rizzo, D.; Roath, B.; Schowalter, T. 2002.** Vegetation and ecological characteristics of mixed-conifer and red fir forests at the Teakettle Experimental Forest. Gen. Tech. Rep. PSW-GTR-186. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 52 p.

**Oester, P.T.; Emmingham, W.T.; Larson, P. 2005.** Thinning alternatives for ponderosa pine: tools and strategies for family forest owners. *Western Journal of Applied Forestry*. 20(4): 216-223.

**Økland, B.; Bakke, A.; Hågvar, S.; Kvamme, T. 1996.** What factors influence the diversity of saproxylic beetles? A multi-scaled study from a spruce forest in southern Norway. *Biodiversity and Conservation*. 5(1): 75-100.

**Otrosina, W.J.; Hess, N.J.; Zarnoch, S.J.; Perry, T.J.; Jones, J.P. 1997.** Blue-stain fungi associated with roots of southern pine trees attacked by the southern pine beetle, *Dendroctonus frontalis*. *Plant Disease*. 81(8): 942-945.

**Outcalt, K.W. 2003.** Developing management options for longleaf communities of the Gulf Coastal Plain. In: Kush, J.S., comp. Proceedings, 4<sup>th</sup> Longleaf Alliance regional conference, longleaf pine: a southern legacy rising from the ashes. Longleaf Alliance Report No. 6. Andalusia, AL: The Longleaf Alliance: 126-129.

## Fire and Fire Surrogate Study: Literature Cited

- Outcalt, K.W. 2005.** Restoring structure and composition of longleaf pine ecosystems of the Gulf Coastal Plains. In: Kush, J.S., comp. Proceedings, 5<sup>th</sup> Longleaf Alliance regional conference. Longleaf Alliance Report No. 8. Andalusia, AL: The Longleaf Alliance: 97-100.
- Outcalt, K.W.; Foltz, J.L. 2004.** Impacts of growing-season prescribed burns in the Florida pine flatwoods type. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 30-34.
- Page-Dumroese, D.; Jurgensen, M.F.; Harvey, A.E. 2003.** Fire and fire-suppression impacts on forest-soil carbon. In: Kimble, J.M.; Heath, L.S.; Birdsey, R.A.; Lal, R. eds. The potential of U.S. forest soils to sequester carbon and mitigate the greenhouse effect. Boca Raton, FL: Lewis Publishers, CRC Press: 201-210.
- Paquin, P.; Coderre, D. 1997.** Deforestation and fire impact on edaphic insect larvae and other macroarthropods. *Environmental Entomology*. 26(1): 21–30.
- Park, J.O.; Hargreaves, J.R.; Cole, A.L.J.; Ghisalberti, E.L.; Gams, W.; Sivasithamparam, K. 2001.** Cuticular disruption and mortality of *Caenorhabditis elegans* expose to culture filtrate of *Byssochlamys nivea* Westling. *Nematology*. 3(4): 355-363.
- Parker, G.G.; Davis, M.M.; Chapotin, S.M. 2002.** Canopy light transmittance in Douglas fir/western hemlock stands. *Tree Physiology*. 22(2/3): 147-157.
- Parsons, D.J.; DeBenedetti, S.H. 1979.** Impact of fire suppression on a mixed-conifer forest. *Forest Ecology and Management*. 2: 21–33.
- Parsons, W.F.J.; Knight, D.H.; Miller, S.L. 1994.** Root gap dynamics in lodgepole pine forest: nitrogen transformations in gaps of different size. *Ecological Applications*. 4(2): 354-362.
- Passovoy, M.D.; Fulé, P.Z. 2006.** Snag and wood debris dynamics following severe wildfires in northern Arizona ponderosa pine forests. *Forest Ecology and Management*. 223(1-3): 237-246.

## Fire and Fire Surrogate Study: Literature Cited

- Pearce, J.; Venier, L. 2005.** Small mammals as bioindicators of sustainable boreal forest management. *Forest Ecology and Management*. 208(1-3): 153-175.
- Pechmann, J.H.K.; Estes, R.A.; Scott, D.E.; Gibbons, J.W. 2001.** Amphibian colonization and use of ponds created for trail mitigation of wetland loss. *Wetlands*. 21(1): 93-111.
- Pérez, B.; Moreno, J.M. 1998.** Methods for quantifying fire severity in shrubland-fires. *Plant Ecology*. 139(1): 91-101.
- Perison, D.; Phelps, J.; Pavel, C.; Kellison, R. 1997.** The effects of timber harvest in a South Carolina blackwater bottomland. *Forest Ecology and Management*. 90(2/3): 171-185.
- Perkins, D.W.; Vickery, P.D.; Shriver, W.G. 2003.** Spatial dynamics of source-sink habitats: effects on rare grassland birds. *Journal of Wildlife Management*. 67(3): 588-599.
- Perrakis, D.D.B.; Agee, J.K. 2006.** Seasonal fire effects on mixed-conifer forest structure and ponderosa pine resin properties. *Canadian Journal of Forest Research*. 36(1): 238-254.
- Perry, R.W.; Thill, R.E. 2005.** Small-mammal responses to pine regeneration treatments in the Ouachita Mountains of Arkansas and Oklahoma, USA. *Forest Ecology and Management*. 219(1): 81-94.
- Peterson, D.L.; Arbaugh, M.J. 1986.** Postfire survival in Douglas-fir and lodgepole pine: comparing the effects of crown and bole damage. *Canadian Journal of Forest Research*. 16(6): 1175-1179.
- Peterson, D.L.; Arbaugh, M.J. 1989.** Estimating postfire survival of Douglas-fir in the Cascade Range. *Canadian Journal of Forest Research*. 19(4): 530-533.
- Petranka, J.W.; Eldridge, M.E.; Haley, K.E. 1993.** Effects of timber harvesting on southern Appalachian salamanders. *Conservation Biology*. 7(2): 363-370.
- Petranka, J.W.; Brannon, M.P.; Hopey, M.E.; Smith, C.K. 1994.** Effects of timber harvesting on low elevation populations of southern Appalachian salamanders. *Forest Ecology and Management*. 67(1-3): 135-147.

## Fire and Fire Surrogate Study: Literature Cited

- Phelps, J.P.; Lancia, R.A. 1995.** Effects of a clearcut on the herpetofauna of a South Carolina bottomland swamp. *Brimleyana*. 22: 31-45.
- Phillips, J.D.; Perry, D.; Garbee, A.R.; Carey, K.; Stein, D.; Morde, M.B.; Sheehy, J.A. 1996.** Deterministic uncertainty and complex pedogenesis in some Pleistocene dune soils. *Geoderma*. 73(3/4): 147-164.
- Phillips, R.; Hutchinson, T.; Brudnak, L.; Waldrop T. 2007.** Fire and fire surrogate treatments in mixed-oak forests: effects on herbaceous layer vegetation. In: Butler, B.W.; Cook, W., comp. Proceedings, the fire environment—innovations, management, and policy. RMRS-P-46CD. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 475-485.
- Phillips, R.J.; Waldrop, T.A. 2008.** Changes in vegetation structure and composition in response to fuel reduction treatments in the South Carolina Piedmont. *Forest Ecology and Management*. 255(8/9): 3107-3116.
- Phillips, R.J.; Waldrop, T.A. [In press].** Fuel loading after fuel reduction treatments and impacts from natural disturbances. In: Proceedings, 15<sup>th</sup> biennial southern silvicultural research conference. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.
- Phillips, R.J.; Waldrop, T.A.; Chapman, G.L.; Mohr, H.H.; Callahan, M.A.; Flint, C.T. 2004.** Effects of fuel-reduction techniques on vegetative composition of Piedmont loblolly-shortleaf pine communities: preliminary results of the National Fire and Fire Surrogate study. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference, Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 44-47.
- Phillips, R.J.; Waldrop, T.A.; Simon, D.M. 2006.** Assessment of the FARSITE model for predicting fire behavior in the Southern Appalachian Mountains. In: Connor, K.F., ed.

## Fire and Fire Surrogate Study: Literature Cited

Proceedings, 13<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-92. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 521-525.

**Phillips, R.J.; Waldrop, T.A.; Simon, D.M. 2010.** Third-year responses of understory woody regeneration to fuel reduction treatments in the Southern Appalachian Mountains. In: Stanturf, J.A., ed. Proceedings, 14<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 289-293.

**Pickett, S.T.A. 1980.** Non-equilibrium coexistence of plants. Bulletin of the Torrey Botanical Club. 107(2): 238-248.

**Pierson, J.C.; Mills, L.S.; Christian, D.P. 2010.** Foraging patterns of cavity-nesting birds in fire-suppressed and prescribe-burned ponderosa pine forests in Montana. Open Environmental Sciences. 4: 41-52.

**Plymale, A.E.; Boerner, R.E.J.; Logan, T.J. 1987.** Relative nitrogen mineralization and nitrification in soils of two contrasting hardwood forests: effects of site microclimate and initial soil chemistry. Forest Ecology and Management. 21(1/2): 21-36.

**Pollet, J.; Omi, P.N. 2002.** Effects of thinning and prescribed burning on crown fire severity in ponderosa pine. International Journal of Wildland Fire. 11(1): 1-10.

**Pough, F.H.; Smith, E.M.; Rhodes, D.H.; Collazo, A. 1987.** The abundance of salamanders in forest stands with different histories of disturbance. Forest Ecology and Management. 20(1/2): 1-9.

**Powers, R.F.; Oliver, W.W. 1990.** *Libocedrus decurrens* Torr. Incense cedar. In Burns, R.M.; Honkala, B.H., eds. Silvics of North America. Vol 1: Conifers. Agric. Handb. 654. Washington, DC: U.S. Department of Agriculture, Forest Service: 173-180.

**Raison, R.J. 1979.** Modification of the soil environment by vegetation fires, with particular

## Fire and Fire Surrogate Study: Literature Cited

reference to nitrogen transformations: a review. *Plant and Soil*. 51(1): 73-108.

**Rall, A.E. 2004.** Effects of longleaf pine management practices on the herpetofauna of south Alabama. Auburn, AL: Auburn University. 61 p. M.S. thesis.

**Ramsey, A.C. 2005.** Ecology of fungal endophytes in Douglas-fir and ponderosa pine roots in eastern Washington. Seattle, WA: University of Washington. 75 p. M.S. thesis.

**Raphael, M.G.; White, M. 1984.** Use of snags by cavity-nesting birds in the Sierra Nevada. *Wildlife Monographs*. 86: 1-84.

**Rappaport, N.G.; Owen, D.R.; Stein, J.D. 2001.** Interruption of semiochemical-mediated attraction of *Dendroctonus valens* (Coleoptera: Scolytidae) and selected nontarget insects by verbenone. *Environmental Entomology*. 30(5): 837-841.

**Raymond, K.; Moore, T. 1989.** Mechanized processing and extraction of shortwood thinning. Rotorua, New Zealand: Report of Logging Industry Research Association. 14(5). 7 p.

**Ream, C.H. 1981.** The effects of fire and other disturbances on small mammals and their predators: an annotated bibliography. Gen. Tech. Rep. INT-106. Ogden, UT: Intermountain Forest and Range Experiment Station. 55 p.

**Rebbeck, J.; Long, R.; Yaussy, D. 2004.** Survival of hardwood seedlings and saplings following overstory thinning and prescribed fires in mixed-oak forests of southern Ohio. Gen. Tech. Rep. SRS-GTR-73. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 275-284.

**Rebertus, A.J.; Shifley, S.R.; Richards, R.H.; Roovers, L.M. 1997.** Ice storm damage to an old-growth oak-hickory forest in Missouri. *American Midland Naturalist*. 137(1): 48-61.

**Reetz, M.J.; Farley, E.; Contreras, T.A. 2008.** Evidence for Bachman's sparrow raising brown-headed cowbirds to fledging. *Wilson Journal of Ornithology*. 120(3): 625-627.

**Regelbrugge, J.C.; Smith, D.W. 1994.** Postfire tree mortality in relation to wildfire severity in mixed oak forests in the Blue Ridge of Virginia. *Northern Journal of Applied Forestry*. 11(3):

## Fire and Fire Surrogate Study: Literature Cited

90-97.

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

**Reich, P.B.; Abrams, M.D.; Ellsworth, D.S.; Kruger, E.L.; Tabone, T.J. 1990.** Fire affects ecophysiology and community dynamics of central Wisconsin oak forest regeneration. *Ecology*. 71(6): 2179-2190.

**Reich, P.B.; Walters, M.B.; Ellsworth, D.S.; Uhl, C. 1994.** Photosynthesis-nitrogen relations in Amazonian tree species. I: Patterns among species and communities. *Oecologia*. 97(1): 62-72.

**Renken, R.B. 2006.** Does fire affect amphibians and reptiles in eastern U.S. oak forests? In: Dickinson, M.B., ed. *Proceedings, fire in eastern oak forests: delivering science to land managers*. Gen. Tech. Rep. NRS-P-1. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 158-166.

**Reynolds, H.L.; Hungate, B.A.; Chapin, F.S., III; Antonio, C.M. 1997.** Soil heterogeneity and plant competition in an annual grassland. *Ecology*. 78(7): 2076-2090.

**Riccardi, C.L.; McCarthy, B.C.; Long, R.P. 2004.** Oak seed production, weevil (Coleoptera: Curculionidae) populations, and predation rates in mixed-oak forests of southeast Ohio. In: Yaussy, D.A.; Hix, D.M.; Long, R.P.; Goebel, P.C., eds. *Proceedings, 14<sup>th</sup> central hardwood forest conference*, Gen. Tech. Rep. NE-316. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station: 10-20.

**Richter, D.D.; Ralston, C.W.; Harms, W.R. 1982.** Prescribed fire: effects on water quality and forest nutrient cycles. *Science*. 215(4533): 661-663.

**Riegel, G.M.; Miller, R.F.; Krueger, W.C. 1995.** The effects of aboveground and belowground competition on understory species composition in a *Pinus ponderosa* forest. *Forest Science*.

## Fire and Fire Surrogate Study: Literature Cited

41(4): 864-889.

**Ritchie, M.W. 2005.** Ecological research at the Gooseneck Adaptive Management Area in northeastern California. Gen. Tech. Rep. PSW-GTR-192. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 120 p.

**Ritchie, M.W.; Skinner, C.N.; Hamilton, T.A. 2007.** Probability of tree survival after wildfire in an interior pine forest of northern California: effects of thinning and prescribed fire. *Forest Ecology and Management*. 247(1-3): 200-208.

**Robbins, L.E.; Myers, R.L. 1992.** Seasonal effects of prescribed burning in Florida: a review. Misc. publ. 8. Tallahassee, FL: Tall Timbers Research, Inc. 90 p.

**Robinson, W.D. 2010.** The challenges of studying vertebrates in habitat treatment plots. *Open Environmental Sciences*. 4: 21-23.

**Robinson W.D.; Robinson, S.K. 1999.** Effects of selective logging on forest bird populations in a fragmented landscape. *Conservation Biology*. 13(1): 58-66.

**Robinson, W.D.; Rompré, G. 2010.** Nest survival of understory birds in longleaf pine forests exposed to fire and fire-surrogate treatments. *Open Environmental Sciences*. 4: 63-69.

**Rodewald, P.G.; Withgott, J.H.; Smith, K.G. 1999.** Pine warbler (*Dendroica pinus*). In: Poole, A.; Gill, F., eds. *The Birds of North America*. No. 438. Philadelphia, PA: The Academy of Natural Sciences; Washington, DC: The American Ornithologists' Union. 28 p.

**Rompré, G. 2003.** Successful nesting of the sharp-shinned hawk (*Accipiter striatus*) in a longleaf pine stand in southern Alabama. *Alabama Birdlife*. 49(1): 10-13.

**Rotella J.J.; Taper, M.; Stephens, S.; Lindberg, M. 2007.** Extending methods for modeling heterogeneity in nest-survival data using generalized mixed models. *Studies in Avian Biology*. 34: 34-44.

## Fire and Fire Surrogate Study: Literature Cited

- Rothenbach, C.A. 2007.** The response of nuthatches (*Sitta* spp.) to restorative treatments in ponderosa pine ecosystems of northeastern Oregon. Prince George, British Columbia: University of Northern British Columbia. 112 p. M.S. thesis.
- Rummer, B.; Carter, E.; Stokes, B.; Klepac, J. 1997.** Strips, clearcuts, and deferment cuts: harvest costs and site impacts for alternative prescriptions in upland hardwoods. In: Meyer, D.A., ed. Proceedings, 25<sup>th</sup> annual hardwood symposium; 25 years of hardwood silviculture: a lock back and a look ahead. Memphis, TN: National Hardwood Lumber Association: 103-112.
- Russell, K.R.; Van Lear, D.H.; Guynn, D.C., Jr. 1999.** Prescribed fire effects on herpetofauna: review and management implications. *Wildlife Society Bulletin*. 27(2): 374-384.
- Ryan, K.C.; Reinhardt, E.D. 1988.** Predicting postfire mortality of seven western conifers. *Canadian Journal of Forest Research*. 18(10): 1291-1297.
- Saa, A.; Trasar-Cepeda, M.C.; Gil-Sotres, F.; Carballas, T. 1993.** Changes in soil phosphorus and acid phosphatase activity immediately following forest fires. *Soil Biology and Biochemistry*. 25(9): 1223-1230.
- Saab, V.A.; Dudley, J.G. 1998.** Responses of cavity-nesting birds to stand-replacement fire and salvage logging in ponderosa pine/Douglas fir. Res. Pap-RMRS-11. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 17 p.
- Saab, V.; Block, W.; Russell, R.; Lehmkuhl, J.; Bate, L.; White, R. 2007.** Birds and burns of the interior west: descriptions, habitats and management in western forests. Gen. Tech. Rep. PNW-GTR-712. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 23 p.
- Sackett, S.S.; Haase, S.M. 1992.** Measuring soil and tree temperatures during prescribed fires with thermocouple probes. Gen. Tech. Rep. PSW-GTR-131. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 20 p.

## Fire and Fire Surrogate Study: Literature Cited

- Sackett, S.S.; Haase, S.M. 1998.** Two case histories for using prescribed fire to restore ponderosa pine ecosystems in northern Arizona. In: Pruden, T.L.; Brennan, L.A., eds. Proceedings, 20<sup>th</sup> Tall Timbers fire ecology conference, fire in ecosystem management: shifting the paradigm from suppression to prescription. Tallahassee, FL: Tall Timbers Research Station: 380-389.
- Sala, A.; Peters, G.D.; McIntyre, L.R.; Harrington, M.G. 2005.** Physiological responses of ponderosa pine in western Montana to thinning, prescribed fire and burning season. *Tree Physiology*. 25(3): 339-348.
- Sartwell, C. 1971.** Thinning ponderosa pine to prevent outbreaks of mountain pine beetle. In: Baumgartner, D.M., ed. Precommercial thinning of coastal and intermountain forests in the Pacific Northwest. Pullman, WA: Washington State University: 41-52.
- Satterthwaite, W.H.; Menges, E.S.; Quintana-Ascencio, P.F. 2002.** Assessing scrub buckwheat population viability in relation to fire using multiple modeling techniques. *Ecological Applications*. 12(6): 1672-1687.
- Saveland, J.M.; Neuenschwander, L.F. 1990.** A signal detection framework to evaluate models of tree mortality following fire damage. *Forest Science*. 36(1): 66-76.
- Scherer, G.; Zabowski, D.; Java, B.; Everett, R. 2000.** Timber harvesting residue treatment Part II: Understorey vegetation response. *Forest Ecology and Management*. 126(1): 35-50.
- Schmidt, D.A.; Taylor, A.H.; Skinner, C.N. 2008.** The influence of fuels treatment and landscape arrangement on simulated fire behavior, southern Cascade Range, California. *Forest Ecology and Management*. 255(8/9): 3170-3184.
- Schnellhardt, O.; Heald, F.D. 1936.** The spore load of market wheat. *Transactions of the American Microscopical Society*. 55(3): 281-285.
- Schoenagel, T.; Waller, D.M.; Turner, M.G.; Romme, W.H. 2004.** The effect of fire interval on post-fire understorey communities in Yellowstone National Park. *Journal of Vegetation*

## Fire and Fire Surrogate Study: Literature Cited

Science. 15(6): 797-806.

- Schwilk, D.W.; Keeley, J.E.; Knapp, E.E.; McIver, J.; Bailey, J.D.; Fettig, C.J.; Fiedler, C.E.; Harrod, R.J.; Moghaddas, J.J.; Outcalt, K.W.; Skinner, C.N.; Stephens, S.L.; Waldrop, T.A.; Yaussy, D.A.; Youngblood, A. 2009.** The national fire and fire surrogate study: effects of fuel reduction methods on forest vegetation structure and fuels. *Ecological Applications*. 19(2): 285-304.
- Schwilk, D.W.; Knapp, E.E.; Ferrenberg, S.M.; Keeley, J.E.; Caprio, A.C. 2006.** Tree mortality from fire and bark beetles following early and late season prescribed fires in a Sierra Nevada mixed-conifer forest. *Forest Ecology and Management*. 232(1-3): 36-45.
- Sharp, N.W. 2005.** Demography of small mammal populations in longleaf pine undergoing restoration. Auburn, AL: Auburn University. 84 p. M.S. thesis.
- Sharp, N.W.; Mitchell, M.S.; Grand; J.B. 2009.** Sources, sinks, and spatial ecology of cotton mice in longleaf pine stands undergoing restoration. *Journal of Mammalogy*: 90(6): 1440-1448.
- Shelburne, V.B.; Boyle, M.F.; Lione, D.J.; Waldrop, T.A. 2004.** Preliminary effects of prescribed burning and thinning as fuel reduction treatments on the Piedmont soils of the Clemson Experimental Forest. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 35-38.
- Shelton, M.G.; Murphy, P.A. 1997.** Understory vegetation 3 years after implementing uneven-aged silviculture in a shortleaf pine-oak stand. Res. Pap. SO-296. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern forest Experiment Station. 20 p.
- Shumway, D.L.; Abrams, M.D.; Ruffner, C.M. 2001.** A 400-year history of fire and oak recruitment in an old-growth oak forest in western Maryland, U.S.A. *Canadian Journal of Forest Research*. 31(8): 1437-1443.

## Fire and Fire Surrogate Study: Literature Cited

- Siegel, R.B.; DeSante, D.F. 2003.** Bird communities in thinned versus unthinned Sierran mixed conifer stands. *Wilson Bulletin*. 115(2): 155-165.
- Siemann, E.; Haarstad, J.; Tilman, D. 1997.** Short-term and long-term effects of burning on oak savanna arthropods. *American Midland Naturalist*. 137(2): 349 –361.
- Simon, J.L. 1992.** Resampling: the new statistics. Arlington, VA: Resampling Stats, Inc. 261 p.
- Singh, J.S.; Gupta, S.R. 1977.** Plant decomposition and soil respiration in terrestrial ecosystems. *The Botanical Review*. 43(4): 449-528.
- Six, D.L.; Skov, K. 2009.** Response of bark beetles and their natural enemies to fire and fire surrogate treatments in mixed-conifer forests in western Montana. *Forest Ecology and Management*. 258(5): 761-772.
- Skinner, C.N.; Ritchie, M.W.; Hamilton, T.; Symons, J. 2004.** Effects of thinning and prescribed fire on wildfire severity. In: Cooper, S., ed. Proceedings, 25<sup>th</sup> annual forest vegetation management conference. Redding, CA: University of California, Shasta County Cooperative Forestry Extension: 80-91.
- Skov, K.R.; Kolb, T.E.; Wallin, K.F. 2005.** Difference in radial growth response to restoration thinning and burning treatments between young and old ponderosa pine in Arizona. *Western Journal of Applied Forestry*. 20(1): 36-43.
- Slocum, M.G.; Platt, W.J.; Cooley, H.C. 2003.** Effect of differences in prescribed fire regimes on patchiness and intensity of fires in subtropical savannas of Everglades National Park, Florida. *Restoration Ecology*. 11(1): 91-102.
- Smith, J.E.; Heath, L.S. 2002.** A model of forest floor carbon mass for United States forest types. Res. Pap. NE-722. Newton Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 42 p.

## Fire and Fire Surrogate Study: Literature Cited

- Smith, J.E.; McKay, D.; Brenner, G.; McIver, J.; Spatafora, J.W. 2005.** Early impacts of forest restoration treatments on the ectomycorrhizal fungal community and fine root biomass in a mixed conifer forest. *Journal of Applied Ecology*. 42(3): 526-535.
- Smith, T.G.; Maguire, C.C. 2004.** Small-mammal relationships with down wood and antelope bitterbrush in ponderosa pine forests of central Oregon. *Forest Science*. 50(5): 711-728.
- Smucker, K.M.; Hutto, R.L.; Steele, B.M. 2005.** Changes in bird abundance after wildfire: importance of fire severity and time since fire. *Ecological Applications*. 15(5): 1535-1549.
- Sparks, J.C.; Masters, R.E.; Engle, D.M.; Palmer, M.W.; Bukenhofer, G.A. 1998.** Effects of late growing-season and late dormant-season prescribed fire on herbaceous vegetation in restored pine-grassland communities. *Journal of Vegetation Science*. 9(1): 133-142.
- Sperry, J.H.; George, T.L.; Zack, S. 2008.** Ecological factors affecting response of dark-eyed juncos to prescribed burning. *Wilson Journal of Ornithology*. 120(1): 131-138.
- Staeben, J.C. 2003.** The effects of fire and fire surrogate forest management practices on coleopterans in the Clemson Experimental Forest. Clemson, SC: Clemson University. 90 p. M.S. thesis.
- Steen, D.A.; McGee, A.E.R.; Hermann, S.M.; Stiles, J.A.; Stiles, S.H.; Guyer, C. 2010.** Effects of forest management on amphibians and reptiles: generalist species obscure trends among native forest associates. *Open Environmental Sciences*. 4: 24-30.
- Stendell, E.R.; Horton, T.R.; Bruns, T.D. 1999.** Early effects of prescribed fire on the structure of the ectomycorrhizal fungal community in a Sierra Nevada ponderosa pine forest. *Mycological Research*. 103(10): 1353-1359.
- Stephens, S.L.; Finney, M.A. 2002.** Prescribed fire mortality of Sierra Nevada mixed conifer tree species: effects of crown damage and forest floor combustion. *Forest Ecology and Management*. 162(2/3): 261-271.

## Fire and Fire Surrogate Study: Literature Cited

- Stephens, S.L.; Moghaddas, J.J. 2005a.** Experimental fuel treatment impacts on forest structure, potential fire behavior, and predicted tree mortality in a California mixed conifer forest. *Forest Ecology and Management*. 215(1-3): 21-36.
- Stephens, S.L.; Moghaddas, J.J. 2005b.** Fuel treatment effects on snags and coarse woody debris in a Sierra Nevada mixed conifer forest. *Forest Ecology and Management*. 214(1-3): 53-64.
- Stephens, S.L.; Moghaddas, J.J.; Edminster, C.; Fiedler, C.E.; Haase, S.; Harrington, M.; Keeley J.E.; Knapp, E.E.; McIver, J.D.; Metlen, K.; Skinner, C.N.; Youngblood, A. 2009a.** Fire treatment effects on vegetation structure, fuels, and potential fire severity in western U.S. forests. *Ecological Applications*. 19(2): 305-320.
- Stephens, S.L.; Moghaddas, J.J.; Hartsough, B.R.; Moghaddas, E.E.Y.; Clinton, N.E. 2009b.** Fuel treatment effects on stand-level carbon pools, treatment-related emissions, and fire risk in a Sierra Nevada mixed-conifer forest. *Canadian Journal of Forest Research*. 39(8): 1538-1547.
- Stephens, S.; Rapp, V. 2008.** Chainsaws or driptorches: How should fire risk be reduced? *Fire Science Brief* 6. Boise, ID: Joint Fire Science Program. 6 p.
- Stephens, S.L.; Ruth, L.W. 2005.** Federal forest-fire policy in the United States. *Ecological Applications*. 15(2): 532-542.
- Stone, J.E.; Kolb, T.E.; Covington, W.W. 1999.** Effects of restoration thinning on presettlement *Pinus ponderosa* in northern Arizona. *Restoration Ecology*. 7(2): 172-182.
- Stratford, J.A.; Tucker, J.W., Jr. 2002.** Sharp-shinned hawk (*Accipiter striatus*) nest in the east Gulf Coastal Plain of Alabama. *Alabama Birdlife*. 48:10-12.
- Streby, H.M.; Miles, D.B. 2010.** Assessing ecosystem restoration alternatives in eastern deciduous hardwood forests using avian nest survival. *Open Environmental Sciences*. 4: 31-40.

## Fire and Fire Surrogate Study: Literature Cited

- Strom, B.L.; Goyer, R.A.; Ingram, L.L., Jr.; Boyd, G.D.L.; Lott, L.H. 2002.** Oleoresin characteristics of progeny of loblolly pines that escaped attack by the southern pine beetle. *Forest Ecology and Management*. 158(1-3): 169-178.
- Sulkava, P.; Huhta, V. 1998.** Habitat patchiness affects decomposition and faunal diversity: a microcosm experiment on forest floor. *Oecologia*. 116(3): 390-396.
- Sullivan, T.P.; Sullivan, D.S.; Lindgren, P.M.F. 2001.** Stand structure and small mammals in young lodgepole pine forest: 10-year results after thinning. *Ecological Applications*. 11(4): 1151-1173.
- Sutherland, E.K. 1997.** History of fire in a southern Ohio second-growth mixed-oak forest. In: Pallardy, S.G.; Cecich, R.A.; Garrett, H.E.; Johnson, P.S., eds. *Proceedings, 11<sup>th</sup> central hardwood forest conference*. Gen. Tech. Rep. NC-188. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station: 172-183.
- Suzuki, N.; Hayes, J.P. 2003.** Effects of thinning on small mammals in Oregon coastal forests. *Journal of Wildlife Management*. 67(2): 352-371.
- Swan, F.R., Jr. 1970.** Post-fire response of four plant communities in south-central New York State. *Ecology*. 51(6): 1074-1082.
- Sweeney, J.R.; Biswell, H.H. 1961.** Quantitative studies of the removal of litter and duff by fire under controlled conditions. *Ecology*. 42(3): 572-575.
- Swezy, D.M.; Agee, J.K. 1991.** Prescribed fire effects on fine-root and tree mortality in old-growth ponderosa pine. *Canadian Journal of Forest Research*. 21(5): 626-634.
- Szaro, R.C.; Balda, R.P. 1979.** Effects of harvesting ponderosa pine on nongame bird populations. Res. Pap. RM-212. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 8 p.
- Tallmon, D.; Mills, L.S. 1994.** Use of logs within home ranges of California red-backed voles on a remnant of forest. *Journal of Mammalogy*. 75(1): 97-101.

## Fire and Fire Surrogate Study: Literature Cited

- Tester, J.R. 1965.** Effects of a controlled burn on small mammals in a Minnesota oak-savanna. *American Midland Naturalist*. 74(1): 240-243.
- Thies, W.G.; Westlind, D.J.; Loewen, M. 2005.** Season of prescribed burn in ponderosa pine forests in eastern Oregon: impact on pine mortality. *International Journal of Wildland Fire*. 14(3): 223-231.
- Thill, R.E.; Rudolph, D.C.; Koerth, N.E. 2004.** Shortleaf pine-bluestem restoration for red-cockaded woodpeckers in the Ouachita Mountains: implications for other taxa. In: Costa, R.; Daniels, S.J., eds. *Red-cockaded woodpecker: road to recovery*. Blaine, WA: Hancock House Publishers: 657-671.
- Thysell, D.R.; Carey, A.B. 2001.** Manipulation of density of *Pseudotsuga menziesii* canopies: preliminary effects on understory vegetation. *Canadian Journal of Forest Research*. 31(9): 1513-1525.
- Tinker, D.B.; Knight, D.H. 2000.** Coarse woody debris following fire and logging in Wyoming lodgepole pine forests. *Ecosystems*. 3(5): 472-483.
- Tomcho, A.L. 2004.** Effects of prescribed fire and understory removal on bird communities in a southern Appalachian forest. Clemson, SC: Clemson University. 72 p. M.S. thesis.
- Torgersen, T.R. 2002.** Characteristics of log resources in northeastern Oregon: case studies of four management treatments. In: Laudenslayer, W.F.; Shea, P.J.; Valentine, B.E.; Weatherspoon, C.P.; Lisle, T.E., tech. coords. *Proceedings, ecology and management of dead woody in western forests*. Gen. Tech. Rep. PSW-181. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 795-810
- Tucker, J.W., Jr.; Robinson, W.D.; Grand, J.B. 2006.** Breeding productivity of Bachman's sparrows in fire-managed longleaf pine forests. *Wilson Journal of Ornithology*. 118(2): 131-137.
- Turner, D.P.; Koerper, G.J.; Harmon, M.E.; Lee, J.J. 1995.** A carbon budget for the forests of

## Fire and Fire Surrogate Study: Literature Cited

the conterminous United States. *Ecological Applications*. 5(2): 421-436.

**U.S. Environmental Protection Agency. 2007.**

[http://www.epa.gov/wed/pages/ecoregions/na\\_eco.htm#Level%20III](http://www.epa.gov/wed/pages/ecoregions/na_eco.htm#Level%20III) (Date accessed Jan. 23, 2012).

**Van Lear, D.H.; Waldrop, T.A. 1989.** History, uses, and effects of fire in the Appalachians.

Gen. Tech. Rep. SE-GTR-54. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 20 p.

**Van Lear, D.H.; Watt, J.M. 1993.** The role of fire in oak regeneration. In: Loftis, D.L.; McGee,

C.E., eds. Proceedings, oak regeneration: serious problems, practical recommendation.

Gen. Tech. Rep. SE-84. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station: 68-78.

**van Mantgem, P.J.; Schwilk, D.W. 2009.** Negligible influence of spatial autocorrelation in the

assessment of fire effects in a mixed conifer forest. *Fire Ecology*. 5(2): 116-125.

**van Mantgem, P.J.; Stephenson, N.L.; Mutch, L.S.; Johnson, V.G.; Esperanza, A.M.;**

**Parsons, D.J. 2003.** Growth rate predicts mortality of *Abies concolor* in both burned and unburned stands. *Canadian Journal of Forest Research*. 33(6): 1029-1038.

**van Mantgem, P.J.; Stephenson, N.L.; Keifer, M.; Keeley, J. 2004.** Effects of an introduced

pathogen and fire exclusion on the demography of sugar pine. *Ecological Applications*.

14(5): 1590-1602.

**van Mantgem, P.J.; Stephenson, N.L.; Keeley, J.E. 2006.** Forest reproduction along a

climatic gradient in the Sierra Nevada, California. *Forest Ecology and Management*. 225(1-3): 391-399.

**Vance, E.D.; Henderson, G.S. 1984.** Soil nitrogen availability following long-term burning in an

oak-hickory forest. *Soil Science Society of America Journal*. 48(1): 184-190.

**Vazquez, L.; Myhre, D.L.; Hanlon, E.A.; Gallagher, R.N. 1991.** Soil penetrometer resistance

## Fire and Fire Surrogate Study: Literature Cited

and bulk density relationships after long-term no tillage. *Communications in Soil Science and Plant Analysis*. 22(19/20): 2101-2117.

**Vickers, M.E. 2003.** Spider (Araneae) responses to fuel reduction in a Piedmont forest in upstate South Carolina. Clemson, SC: Clemson University. 115 p. M.S. thesis.

**Vielleux, J.P.; Whitaker, J.O.; Veilleux, S.L. 2003.** Tree roosting ecology of reproductive female eastern pipistrelles, *Pipistrellus subflavus*, in Indiana. *Journal of Mammalogy*. 84(3): 1068-1075.

**Villa-Castillo, J.; Wagner, M.R. 2002.** Ground beetle (Coleoptera: Carabidae) species assemblage as an indicator of forest condition in northern Arizona ponderosa pine forests. *Environmental Entomology*. 31(2): 242-252.

**Villard, P.; Beninger, C.W. 1993.** Foraging behavior of male black-backed and hairy woodpeckers in a forest burn. *Journal of Field Ornithology*. 64(1): 71-76.

**Vivian-Smith, G. 1997.** Microtopographic heterogeneity and floristic diversity in experimental wetland communities. *Journal of Ecology*. 85(1): 71-82.

**Vose, J.M.; White, A.S. 1991.** Biomass response mechanisms of understory species the first year after prescribed burning in an Arizona ponderosa pine community. *Forest Ecology and Management*. 40(3/4): 175-187.

**Wade, D.D.; Weise, D.R.; Shell, R. 1989.** Some effects of periodic winter fire on plant communities on the Georgia Piedmont. In: Miller, J.H., comp. *Proceedings, 5<sup>th</sup> biennial southern silviculture research conference*. Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experimental Station: 603-611

**Wade, D.D.; Brock, B.L.; Brose, P.H.; Grace, J.B.; Hoch, G.A.; Patterson, W.A., III. 2000.** Fire in eastern ecosystems. In: Brown, J.K.; Smith, J.K., eds. *Wildland fire in ecosystems: effects of fire on flora*. Gen. Tech. Rep. RMRS GTR-42-vol. 2. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 53-96. Chapter 4.

## Fire and Fire Surrogate Study: Literature Cited

- Wagle, R.F.; Kitchen, J.H., Jr. 1972.** Influence of fire on soil nutrients in a ponderosa pine type. Ecology. 53(1): 118-125.
- Waldrop, T.A.; Boerner, R.E.J.; Yaussy, D.A. [In press].** Restoration treatments in eastern hardwoods: impacts and interactions of multiple ecosystem components. In: 15<sup>th</sup> biennial southern silvicultural research conference. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.
- Waldrop, T.A.; Brose, P.H.; Welch, N.T.; Mohr, H.H.; Gray, E.A.; Tainter, F.H.; Ellis, L.E. 2002.** High-intensity fires may be unnecessary for stand replacement of Table Mountain pine: an overview of current research. In: Outcalt, K., ed. Proceedings, 11<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-48. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 137-142.
- Waldrop, T.A.; Brudnak, L.; Rideout-Hanzak, S. 2007.** Fuels on disturbed and undisturbed sites in the southern Appalachian Mountains, USA. Canadian Journal of Forest Research. 37(6): 1134-1141.
- Waldrop, T.A.; Glass, D.W.; Rideout, S.; Shelburne, V.B.; Mohr, H.H.; Phillips, R.J. 2004.** An evaluation of fuel-reduction treatments across a landscape gradient in the Piedmont forests: preliminary results of the National Fire and Fire Surrogate study. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 54-59.
- Waldrop, T.A.; McIver, J. 2006.** The national fire and fire surrogate study: early results and future challenges. In: Conner, K.F., ed. Proceedings, 13<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-92. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 526-530.

## Fire and Fire Surrogate Study: Literature Cited

- Waldrop, T.; Phillips, R.; Simon, D. 2010.** Fuels and predicted fire behavior in the southern Appalachian Mountains after fire and fire surrogate treatments. *Forest Science*. 56(1): 32-45.
- Waldrop, T.A.; Yaussy, D.A. 2007.** Delayed mortality of eastern hardwoods after prescribed fire. In: Stanturf, J.A., ed. Proceedings, 14<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 609-612.
- Waldrop, T.A.; Yaussy, D.A.; Phillips, R.J.; Hutchinson, T.A.; Brudnak, L., Boerner, R.E.J. 2008.** Fuel reduction treatments affect stand structure of hardwood forests in western North Carolina and southern Ohio, USA. *Forest Ecology and Management*. 255(8/9): 3117-3129.
- Wallin, K.F.; Kolb, T.E.; Skov, K.R.; Wagner, M.R. 2004.** Seven-year results of thinning and burning restoration treatments on old ponderosa pines at the Gus Pearson Natural Area. *Restoration Ecology*. 12(2): 239-247.
- Wallin, K.F.; Kolb, T.E.; Skov, K.R.; Wagner, M.R. 2008.** Forest management treatments, tree resistance, and bark beetle resource utilization in ponderosa pine forests of northern Arizona. *Forest Ecology and Management*. 255(8/9): 3263-3269.
- Wally, A.; Menges, E.S.; Weekley, C.W. 2006.** Comparison of three devices for estimating fire temperatures in ecological studies. *Applied Vegetation Science*. 9(1): 97-108.
- Waltz, A.E.M.; Fulé, P.Z.; Covington, W.W.; Moore, M.M. 2003.** Diversity in ponderosa pine forest structure following ecological restoration treatments. *Forest Science*. 49(6): 885-900.
- Wan, S.; Hui, D.; Luo, Y. 2001.** Fire effects on nitrogen pools and dynamics in terrestrial ecosystems: a meta-analysis. *Ecological Applications*. 11(5): 1349-1365.
- Wang, G.G.; Baurele, W.L.; Mudder, B.T. 2006.** Effects of light acclimation on the photosynthesis, growth, and biomass allocation in American chestnut (*Castanea dentata*) seedlings. *Forest Ecology and Management*. 226(1-3): 173-180.

## Fire and Fire Surrogate Study: Literature Cited

- Waterman, P.G.; Mole, S. 1994.** Analysis of phenolic plant metabolites. Oxford, United Kingdom: Blackwell Scientific Publications. 238 p.
- Waters, J.R.; Zabel, C.J. 1998.** Abundances of small mammals in fir forests in northeastern California. *Journal of Mammalogy*. 79(4): 1244-1253.
- Wayman, R.B.; North, M. 2007.** Initial response of a mixed-conifer understory plant community to burning and thinning restoration treatments. *Forest Ecology and Management*. 239(1-3): 32-44.
- Wayne, P.M.; Bazzaz, F.A. 1993.** Birch seedlings responses to daily time courses of light in experimental forest gaps and shadehouses. *Ecology*. 74(5): 1500-1515.
- Weatherhead, P.J.; Carfagno, G.L.F.; Sperry, J.H.; Brawn, J.D.; Robinson, S.K. 2010.** Linking snake behavior to nest predation in a Midwestern bird community. *Ecological Applications*. 20(1): 234-241.
- Weatherspoon, C.P. 2000.** A proposed long-term national study of the consequences of fire and fire surrogate treatments. In: Neuenschwander, L.F.; Ryan, K.C.; Goldberg, G.E., eds. *Proceedings, crossing the millennium: integrating spatial technologies and ecological principles for a new age in fire management, 1999 Joint Fire Science conference*. Moscow, ID: University of Idaho Press: 117-126.
- Weatherspoon, C.P.; Skinner, C.N. 1995.** An assessment of factors associated with damage to tree crowns from the 1987 wildfires in Northern California. *Forest Science*. 41: 430-451.
- Weaver, H. 1943.** Fire as an ecological and silvicultural factor in the ponderosa pine region of the Pacific slope. *Journal of Forestry*. 41:7-15.
- Webb, B.G., Messina, M.G.; Guldin, J.M. 1991.** Effects of prescribed burning and varying basal areas on nitrogen mineralization in an east Texas pine forest. In: Coleman, S.S.; Neary, D.G., comp. and eds. *Proceedings, 6<sup>th</sup> biennial southern silvicultural research conference*. Gen. Tech. Rep. SE-70. Asheville, NC: U.S. Department of Agriculture, Forest

## Fire and Fire Surrogate Study: Literature Cited

Service, Southeastern Forest Experiment Station: 418-430. Vol. I

- Wei, X.; Kimmins, J.P. 1998.** Asymbiotic nitrogen fixation in harvested and wildfire-killed lodgepole pine forests in central interior of British Columbia. *Forest Ecology and Management*. 109(1-3): 343-353.
- Wei, X.; Kimmins, J.P.; Peel, K.; Steen, O. 1997.** Mass and nutrients in woody debris in harvested and wildfire-killed lodgepole pine forests in central interior of British Columbia. *Canadian Journal of Forest Research*. 27(2): 148-155.
- Weikel, J.M. 1997.** Habitat use by cavity-nesting birds in young thinned and unthinned Douglas-fir forests of western Oregon. Corvallis, OR: Oregon State University. 114 p. M.S. thesis.
- Weikel, J.M.; Hayes, J.P. 1999.** The foraging ecology of cavity-nesting birds in young forests of the northern Coast Range of Oregon. *Condor*. 101(1): 58-66.
- Wells, C.G.; Campbell, R.E.; DeBano, L.F.; Lewis, C.E.; Fredriksen, R.L.; Franklin, E.C.; Froelich, R.C.; Dunn, P.H. 1979.** Effects of fire on soil: a state-of-knowledge review. Gen. Tech. Rep. WO-7. Washington, DC: U.S. Department of Agriculture, Forest Service. 34 p.
- Wendel, G.W.; Smith, H.C. 1986.** Effects of a prescribed fire in a central Appalachian oak-hickory stand. Res. Pap. NE-594. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 8 p.
- Werner, P.A.; Platt, W.J. 1976.** Ecological relationships of co-occurring goldenrods (*Solidago*, Compositae). *American Naturalist*. 110(976): 959-971.
- White, P.S.; Jentsch, A. 2001.** The search for generality in studies of disturbance and ecosystem dynamics. *Progress in Botany*. 62: 399-450.
- Wienk, C.L.; Sieg, C.H.; McPherson, G.R. 2004.** Evaluating the role of cutting treatments, fire and soil seed banks in an experimental framework in ponderosa pine forests of the Black Hills, South Dakota. *Forest Ecology and Management*. 192(2/3): 375-393.
- Wightman, C.S.; Germaine, S.S. 2006.** Forest stand characteristics altered by restoration

## Fire and Fire Surrogate Study: Literature Cited

affect western bluebird habitat quality. *Restoration Ecology*. 14(4): 653-661.

**Wilson, D.E. 1968.** Ecological distribution of the genus *Peromyscus*. *Southwestern Naturalist*. 13(3): 267-273.

**Wilson, S.M.; Carey, A.B. 2000.** Legacy retention versus thinning: influences on small mammals. *Northwest Science*. 74(2): 131-145.

**Wilson, C.W.; Masters, R.E.; Bukenhofer, G.A. 1995.** Breeding bird response to pine-grassland community restoration for red-cockaded woodpeckers. *Journal of Wildlife Management*. 59(1): 56-67.

**Wilson, C.A.; Mitchell, R.J.; Boring, L.R.; Hendricks, J.J. 2002.** Soil nitrogen dynamics in a fire-maintained forest ecosystem: results over a 3-year burning interval. *Soil Biology and Biochemistry*. 34(5): 679-689.

**Winter, G.; Vogt, C.; McCraffrey, S.M. 2005.** Community views of fuels management on the Mark Twain National Forest and comparisons to other study sites. Unpublished report. On file with: USDA Forest Service, Northern Research Station, 1033 University Place, Suite 360, Evanston, IL 60201.

**Winter, G.J.; Vogt, C.; Fried, J.S. 2002.** Fuel treatments at the wildland-urban interface: common concerns in diverse regions. *Journal of Forestry*. 100: 15-21.

**Wolff, J.O. 1985.** Comparative population ecology of *Peromyscus leucopus* and *Peromyscus maniculatus*. *Canadian Journal of Zoology*. 63(7): 1548-1555.

**Wolff, J.O. 1996.** Population fluctuations of mast-eating rodents are correlated with production of acorns. *Journal of Mammalogy*. 77(3): 850-856.

**Wood, D.R., Burger, L.W., Jr.; Bowman, J.L.; Hardy, C.L. 2004.** Avian community response to pine-grassland restoration. *Wildlife Society Bulletin*. 32(3): 819-828.

**Woolf, J.C. 2003.** Effects of thinning and prescribed burning on birds and small mammals. Missoula, MT: University of Montana. 126 p. M.S. thesis.

## Fire and Fire Surrogate Study: Literature Cited

- Wright, S.L. 1986.** Prescribed burning as a technique to manage insect pests of oak regeneration. In: Koonce, A.L., ed. Proceedings, prescribed burning in the midwest: state-of-the-art. Stevens Point, WI: University of Wisconsin: 91-96.
- Wroblewski, D.W.; Kauffman, J.B. 2003.** Initial effects of prescribed fire on morphology, abundance, and phenology of forbs in big sagebrush communities in southeastern Oregon. *Restoration Ecology*. 11(1): 82-90.
- Yanovski, V.M.; Kiselev, V.V. 1996.** Response of the endemic insect fauna to fire damage in forest ecosystems. In: Goldammer, J.G.; Furyaev, V.V., eds. Fire in ecosystems of boreal Eurasia. Dordrecht, The Netherlands: Kluwer Press. 409-413
- Yasuda, D. 2008.** Embracing "New Information": a manager's perspective. *Fire Science Manager's Viewpoint*. 6. Boise, ID: Joint Fire Science Program. 4 p.
- Yaussy, D.A.; Dickinson, M.B.; Bova, A.S. 2004.** Prescribed surface-fire tree mortality in southern Ohio: equations based on thermocouple probe temperatures. In: Yaussy, D.A.; Hix, D.M.; Long, R.P.; Goebel, P.C., eds. Proceedings, 14<sup>th</sup> central hardwood forest conference. Gen. Tech. Rep. GTR-NE-316. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station: 67-75.
- Yaussy, D.; Rebbeck, J.; Iverson, L.; Hutchinson, T.; Long, R. 2003.** Comparison of a low-tech vs. a high-tech method to evaluate surface fire temperatures. In: Van Sambeek, J.W.; Dawson, J.O.; Ponder, F., Jr.; Loewenstein, E.F.; Fralish, J.S., eds. Proceedings, 13<sup>th</sup> central hardwood forest conference. Gen. Tech. Rep. NC-234. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station: 295.
- Yaussy, D.A.; Waldrop, T.A. 2009.** Fire and fire surrogate study: annotated highlights from oak-dominated sites. In: Hutchinson, T.F., ed. Proceedings, 3<sup>rd</sup> fire in eastern oak forests conference. Gen. Tech. Rep. NRS-P-46. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 40-50.

## Fire and Fire Surrogate Study: Literature Cited

- York, A. 2000.** Long-term effects of frequent low-intensity burning on ant communities in coastal blackbutt forests of southeastern Australia. *Austral Ecology*. 25(1): 83-98.
- Youngblood, A. 2010.** Thinning and burning in dry coniferous forests of the western United States: effectiveness in altering diameter distributions. *Forest Science*. 56(1): 46-59.
- Youngblood, A.; Bigler-Cole, H.; Fettig, C.J.; Fiedler, C.; Knapp, E.E.; Lehmkuhl, J.F.; Outcalt, K.W.; Skinner, C.N.; Stephens, S.L.; Waldrop, T.A. 2007.** Making fire and fire surrogate science available: a summary of regional workshops with clients. Gen. Tech. Rep. 727. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 59 p.
- Youngblood, A.; Grace, J.B.; McIver, J.D. 2009.** Delayed conifer mortality after fuel reduction treatments: interactive effects of fuel, fire intensity, and bark beetles. *Ecological Applications*. 19(2): 321-337.
- Youngblood, A.; Max, T.; Coe, K. 2004.** Stand structure in eastside old-growth ponderosa pine forests of Oregon and northern California. *Forest Ecology and Management*. 199(2-3): 191-217.
- Youngblood, A.; Metlen, K.L.; Coe, K. 2006.** Changes in stand structure and composition after restoration treatments in low elevation dry forests of northeastern Oregon. *Forest Ecology and Management*. 234(1-3):143-163.
- Youngblood, A.; Metlen, K.L.; Knapp, E.E.; Outcalt, K.W.; Stephens, S.L.; Waldrop, T.A.; Yaussy, D. 2004.** Implementation of the fire and fire surrogate study, a national research effort to evaluate the consequences of fuel reduction treatments. In: Peterson, C.E.; Maguire, D.A., eds. *Proceedings, balancing ecosystem values: innovative experiments for sustainable forestry*. Gen. Tech. Rep. PNW-GTR-635. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station: 315-321.

## Fire and Fire Surrogate Study: Literature Cited

- Youngblood, A.; Wright, C.S.; Ottmar, R.D.; McIver, J.D. 2008.** Changes in fuelbed characteristics and resulting fire potentials after fuel reduction treatments in dry forests of the Blue Mountains, northeastern Oregon. *Forest Ecology and Management*. 255(8/9): 3151-3169.
- Yunger, J.A. 2004.** Movement and spatial organization of small mammals following vertebrate predator exclusion. *Oecologia*. 139(4): 647-654.
- Zackrisson, O.; Nilsson, M.D.; Wardle, D.A. 1996.** Key ecological function of charcoal from wildfire in the boreal forest. *Oikos*. 77: 10-19.
- Zausen, G.L.; Kolb, T.E.; Bailey, J.D.; Wagner, M.R. 2005.** Long-term impacts of stand management on ponderosa pine physiology and bark beetle abundance in northern Arizona: a replicated landscape study. *Forest Ecology and Management*. 218(1-3): 291-305.
- Zebehazy, L.A. 2002.** Avian and arthropod community responses to fuel reduction treatments in the upper Piedmont of South Carolina. Clemson, SC: Clemson University. 86 p. M.S. thesis.
- Zebehazy, L.A.; Lanham, J.D.; Waldrop, T.A. 2004.** Seasonal avifauna responses to fuel reduction treatments in the upper Piedmont of South Carolina: Results from phase 1 of the National Fire and Fire Surrogate study. In: Connor, K.F., ed. Proceedings, 12<sup>th</sup> biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 82-86.
- Zenner, E.K.; Kabrick, J.M.; Jenson, R.G.; Peck, J.E.; Grabner, J.K. 2006.** Responses of ground flora to a gradient of harvest intensity in the Missouri Ozarks. *Forest Ecology and Management*. 222(1-3): 326-334.
- Zobel, B.J.; Jett, J.B. 1995.** Genetics of wood production. Berlin, Germany: Springer-Verlag. 337 p.
- Zug, G.R. 1993.** Herpetology: an introductory biology of amphibians and reptiles. San Diego, CA: Academic Press. 527 p.

## Fire and Fire Surrogate Study: Literature Cited

**Zwart, D.C. 2004.** Effects of fuel reduction treatments on the incidence of two root pathogens of forest trees. Clemson, SC: Clemson University. 114 p. M.S. thesis.