

Bibliography

Bibliography

(papers or communications that have not been peer-reviewed are italicized)

- Agee, J.K. 1991. Fire History of Douglas-Fir Forest in the Pacific Northwest. Pages 25-33 in PNW-GTR-285, Pac. Northwest Res. Sta., USDA For. Serv., Olympia, WA.
- Agee, J.K. 1991. Evaluation of catastrophic habitat loss for spotted owls: Olympic Peninsula, Washington. Unpublished report.*
- Agee, J.K. 1993. Fire and weather disturbances in terrestrial ecosystems of the eastern Cascades. General Technical Report PNW-GTR-320. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Akçakaya, H.R. and M.G. Raphael. 1998. Assessing human impact despite uncertainty: viability of the northern spotted owl metapopulation in the northwestern USA. *Biodiversity and Conservation* 7(7):875-894.
- Alexander, L. F., and B. J. Verts. 1992. *Clethrionomys californicus*. Mamm. Species No. 406. pp 1-6.
- Allen, A.W. 1983. Habitat Suitability Index Models: Southern Red-backed Vole (Western United States). U.S. Department of the Interior, Fish and Wildlife Service. FWS/OBS-82/10.42.*
- Allen, A.W. 1987. Habitat suitability index models: barred owl. U. S. Department of the Interior, Fish and Wildlife Service. FWS/OBS-82/10.143, Fort Collins, CO.*
- Allison, B. 1996. A landscape characterization of nesting goshawk habitat in northern California using remote sensing and GIS. M.S. thesis. Southern Illinois University, Carbondale, IL.*
- Amadon, D. 1949. The seventy-five percent rule for subspecies. *Condor* 51:250-258.
- Amadon, D., J. Bull, J.T. Marshall, B.F. King. 1988. Hawks and Owls of the World: A Distributional and Taxonomic List. Proceedings of the Western Foundation of Vertebrate Zoology. *Proc. Western Found. Vert. Zool.* 3(4):297-301, 338-339. University of California, Los Angeles, CA.
- Amaranthus, M.P. and D.A. Perry. 1994. The functioning of ectomycorrhizal fungi in the field: linkages in space and time. *Plant and Soil* 159:133-140.
- Amaranthus, M.P., D.S. Parrish, and D.A. Perry. 1989. Decaying logs as moisture reservoirs after drought and wildlife. Pages 191-194 in E. Alexander, ed. Stewardship of soil, air, and water resources: proceeding of Watershed 89; USDA For. Serv. Region 10, RIO-MB-77, Juneau, AK.
- American Ornithologists' Union. 1957. Check-list of North American Birds. Fifth Edition. American Ornithologists' Union, The Lord Baltimore Press, Baltimore, MD. Pages 285-286.
- American Forest Resource Council. 2004. Estimating timber harvest activity in selected Spotted Owl demographic areas, 1993-2003. Prepared by: Mason, Bruce and Girard, Inc.*

- Andersen, M.C. and D. Mahato. 1995. Demographic models and reserve designs for the California spotted owl. *Ecological Applications* 5(3):639-647.
- Anderson, D.R., J. Bart, T.C. Edwards, Jr., C.B. Kepler, E.C. Meslow. 1990. 1990 Status Review: Northern Spotted Owl *Strix occidentalis caurina*. U.S. Fish and Wildlife Service, Department of the Interior. 95 pp.
- Anderson, D.R. and K.P. Burnham. 1992. *Model building and statistical inferences for adult female northern spotted owls. Abstract of Paper Presented at 62nd Cooper Ornithological Society Meeting, June 22-28, 1992. Seattle, WA.*
- Anderson, D.R., and K.P. Burnham. 1992. Demographic analysis of Northern Spotted Owl populations. Pages 319-328 in Draft recovery plan for the Northern Spotted Owl. USDI Fish and Wildlife Service, Portland, OR.
- Anderson, David R. and K.P. Burnham. 2002. Avoiding Pitfalls When Using Information-Theoretic Methods. *J. Wildlife Management* 66(3):912-918.
- Anderson, D.R., K.P. Burnham, A.B. Franklin, R.J. Gutiérrez, E.D. Forsman, R.G. Anthony, and T.M. Shenk. 1999. A protocol for conflict resolution in analyzing empirical data related to natural resource controversies. *Wildlife Society Bulletin* 27:1050-1058.
- Anderson, D.R., K.P. Burnham, and G.C. White. 2001. Kullback-Leibler Information in Resolving Natural Resource Conflicts When Definitive Data Exist. *Wildlife Society Bulletin* 29:1260-1270.
- Anderson, R.J. and P. Farnum. 1993. *Use of Second and Third-Growth Forests by the Northern Spotted Owl. Unpublished report. Weyerhaeuser Corporation, Federal Way, WA.*
- Anderson, S.H. 1979. Changes in forest bird species composition caused by transmission-line corridor cuts. *American Birds* 33:3-6.
- Andrén, H. and P. Angelstam. 1988. Elevated predation rates as an edge effect in habitat islands: Experimental evidence. *Ecology* 69:544-547.
- Andrews, L.S., J.P. Perkins, J.A. Thrailkill, N.J. Poage, and J.C. Tappeiner II. 2004. *Silvicultural approaches to develop northern spotted owl nesting sites, central Oregon Coast Range. "Abstract of presentation at The 39th Annual Meeting of the Oregon Chapter of the Wildlife Society "Bridging the Gap: Integrating Wildlife Science, Management and Policy", Bend, OR, February 11-13, 2004. Pg 17. "*
- Anon. 2002. *Avifauna of the Takamanda Forest Preserve, Cameroon, West Africa. Avifauna of the Takamanda Forest Preserve, Cameroon, West Africa.*
- Anonymous Re: Anthony et al. 2004. *"ESA Independent Review of "Status and Trends in Demography of Northern Spotted Owls, 1985-2003". "Ecological Society of America. 17 pp.*
- Anthony, R.G., M.C. Hansen and A.M. Ellingson. 1996. *Northern Spotted Owl Survey of Oregon Department of Forestry Lands. FY 1995 Final report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*

- Anthony, R.G., M.C. Hansen and A.M. Ellingson. 1997. *Spotted Owl Survey of Oregon Department of Forestry Lands: 1996. Final Report FY 1996 Final report to the Oregon Department of Forestry. From: Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G. M.C. Hansen, K.A. Swindle and A.M. Ellingson. 1998. *Spotted Owl Survey of Oregon Department of Forestry Lands: 1997. Final Report Submitted to the Oregon Department of Forestry, Salem, OR. January 1998. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., K.A. Swindle and A.M. Ellingson. 1999. *Northern Spotted Owl Survey of Oregon Department of Forestry Lands. Demographic characteristics of northern spotted owls on lands managed by Oregon Department of Forestry in the northern Coast Ranges and the Elliott State Forest, Oregon. FY 1998 Final report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., K.A. Swindle and A.M. Ellingson. 1999. *Demographic Characteristics of northern spotted owls on land managed by Oregon Department of Forestry in the Northern Coast Ranges and the Elliott State Forest, Oregon. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., and A.M. Ellingson. 1999. *Northern Spotted Owl survey of Oregon Department of Forestry lands. Final report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., B. Glenn, K. Swindle, and M.C. Hansen. 2000. *Home Range and Habitat Use of Northern Spotted Owls on State Forest Lands in the Oregon Coast Range. Final Research Report Final Report to the Oregon Department of Forestry, Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., G.S. Olson, E. Forsman, J. Reid, P. Loschl, W. Ripple, E. Glenn, and K. Harkins. 2000. *Predicting Abundance and Demographic Performance of Northern Spotted Owls From Vegetative Characteristics. Report on Phase I: Evaluation of Different Methods of Habitat Mapping. As Part of: The Northern Spotted Owl Effectiveness Monitoring Plan For The Northwest Monitoring Plan Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., M.C. Hansen, K. Swindle, and A. Ellingson. 2000. *Effects of Forest Stand Manipulations on Spotted Owl Home Range And Use Patterns: A Case Study. Final Draft. Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, Oregon. 27 pp. Submitted to: Oregon Department of Forestry, Salem, OR.*
- Anthony, R.G., A.M. Ellingson, M. Day, M. Kinsey, S. Meiman, and S. Premdas. 2000. *Spotted Owl Survey of Oregon Department of Forestry Lands: 1999. 1999 Final*

- report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., M.C. Hansen, K.A. Swindle and A.M. Ellingson. 2000. Demographic characteristics of Northern Spotted Owls on lands managed by the Oregon Department of Forestry. Final Research Report Final report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R., S. Ackers, R. Claremont, G. Fox, T. Fox, D. Giessler, S. Turner-Hane. 2001. The Ecology of Northern Spotted Owls on the Willamette National Forest, Oregon: Habitat Use and Demography. Annual Research Report FY 2001. Oregon Cooperative Fish and Wildlife Research Unit (OCFWRU), Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., M.C. Hansen, et al. 2001. Effects of forest and stand manipulations on Spotted owl home range and use patterns: a case study. Unpublished report. Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R., F. Wagner, S. Andrews, M. Dragoo, W. King, T. O'Brien, and T. Phillips. 2001. Demographic Characteristics of Spotted Owls in the Southern Oregon Cascades, December 2001. Annual Research Report FY2001. Oregon Cooperative Fish and Wildlife Research Unit (OCFWRU), Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R., F. Wagner, K. Dugger, and G. Olson. 2002. Identification and evaluation of northern spotted owl habitat in managed forests of southwestern Oregon and the development of silvicultural systems for managing such habitat. Report on Step 2: Analysis of habitat characteristics and owl demography on three density study areas. Oregon Cooperative Fish & Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G., S. Andrews, W. King, T. O'Brien, T. Phillips and M. Shannon. 2002. Occupancy of public lands by northern spotted owls within and adjacent to the Quartz Creek fire. Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Anthony, R.G. et al. Forsman, Franklin, Anderson, Burnham, White, Schwarz, Nichols, Hines, Olson, Ackers, Andrews, Biswell, Carlson, Diller, Dugger, Fehring, Fleming, Gerhardt, Gremel, Gutiérrez, Happe, Herter, Higley, Horn, Irwin, Loschl, Reid, Sovern. Draft 2004. Status and Trends in Demography of Northern Spotted Owls. A Draft Report to: Interagency Regional Monitoring Program, Portland, OR. April 30, 2004. 180 pp.*
- Anthony, R.G., G.S. Olson, S. Ackers, E. Forsman, W.J. Ripple, and E.M. Glenn. 2002. Predicting Abundance and Demographic Performance of Northern Spotted Owls from Vegetative Characteristics: Report on Results of Western Oregon Cascades - H.J. Andrews Experimental Forest. As Part of The Northern Spotted Owl Effectiveness Monitoring Plan for The Northwest Forest Plan. Unpublished Annual Report. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR*

- Anthony, R.G., S. Ackers, R. Claremont, J. Lavoie, D. Giessler, N. Seaman, J. Schilling, and S. Turner-Hane. *Annual Report 1987 - 2002. The Ecology of Northern Spotted Owls (Strix occidentalis caurina) on The Willamette National Forest, Oregon: Habitat Use and Demography.* Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.
- Anthony, R.G., S. Andrews, F. Wagner, W. King, T. O'Brien, T. Phillips, G. Rible and M. Shannon. *Annual Reports through 2002. Demographic Characteristics of Spotted Owls (Strix occidentalis caurina) in The Southern Oregon Cascades.* Annual Research Report FY 2002 Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.
- Arnold, M.L., M.R. Bulger, J.M. Burke, A.L. Hempel, and J.H. Williams. 1999. Natural Hybridization: How low can you go and still be important? *Ecology* 80(2):371-381.
- Askins, R.A. and M.J. Philbrick. 1987. Effects of changes in regional forest abundance on the decline and recovery of forest bird community. *Wilson Bulletin* 99:7-21.
- Asnis, D.S., R. Conetta, G. Waldman, and A.A. Teixeira. 2001. The West Nile virus encephalitis outbreak in the United States (1999-2000). *Annals of the New York Academy of Sciences* 951:161-171.
- Aubry, K.B., M.J. Crites, and S.D. West. 1991. Regional patterns of small mammal abundance and community composition in Oregon and Washington. Pages 284-294 in PNW-GTR-285, Pac. Northwest Res. Sta., USDA For. Serv., Olympia, WA.
- Aubry, K.B., J.P. Ha, B.L. Biswell, and B.G. Marcot. 2003. The ecological role of tree-dwelling mammals in western coniferous forests. Chapter 12 in C.J. Zabel and R.G. Anthony, eds., *Mammal Community Dynamics: Management and Conservation in the Coniferous Forests of Western North America.* Cambridge University Press: Cambridge, England.
- Austin, K. 1994. *Spotted Owl Habitat Descriptions For Non-Federal Lands. A report submitted to G. Jackson, USFWS, Region 1, Portland, OR.*
- Awise, J.C. 2000. *Phylogeography.* Harvard University Press, Cambridge, MA.
- Azuma, D.L., J.A. Baldwin, and B.R. Noon. *A Proposed Sampling Scheme For Estimating The Occupancy of Spotted Owl Habitat. Unpublished report.*
- Azuma, D.L., J.A. Baldwin, and B.R. Noon. 1990. Estimating the occupancy of spotted owl habitat areas by sampling and adjusting for bias. General Technical Report PSW-GTR-124. USDA For. Serv., Pac. Southwest Res. Sta., Berkeley, CA.
- Baily, J.D., and J.C. Tappeiner. 1998. Effects of thinning on structural development in 40- to 100-year-old Douglas-fir stands in western Oregon. *Forest Ecology and Management* 108:99-113.
- Baker, D., L. Hsin, A. Horton, B. Amidon, M. Mamone. 2001. *Results of the FY 1999 Northwest Forest Plan Implementation Monitoring Program. Part I: Timber Sale Assessment of Compliance with Northwest Forest Plan Direction. Regional Implementation Monitoring Team. Portland, OR.*

- Barrowclough, G.F. 1990. The description of geographic variation in bird populations. Pages 495-503 in B.D. Bell, R.O. Cossee et. al., ed. Proceedings of ACTA XX Congressus Internationalis Ornithologici, 2-9 December.
- Barrowclough, George F. and S.L. Coats. 1985. The demography and population genetics of owls, with special reference to the conservation of the Spotted Owl (*Strix occidentalis*). Pages 74-85 in: Gutiérrez, R.J.; and A.B. Carey, eds. Ecology and management of the Spotted Owl in the Pacific Northwest. GTR-PNW-185. USDA For. Ser., Pac. Northwest Res. Sta., Portland, OR.
- Barrowclough, G.F. and N.R. Flesness. 1996. Species, subspecies, and races: the problem of units of management in conservation. Pages 247-254 in D.G. Kleiman, M.E. Allen, K.V. Thompson, and S. Lumpkin, eds. Wild mammals in captivity: principles and techniques. University of Chicago Press, Chicago, IL.
- Barrowclough, G.F. and J.G. Groth. 1999. Demographic inferences from coalescent patterns: mtDNA sequences from a population of Mexican spotted owls. in: Adams, N.J. and R.H. Slotow, eds. Proceedings of 22nd Int. Ornithol. Congr., Durban:1914-1921. Johannesburg: BirdLife South Africa.
- Barrowclough, George F. and R.J. Gutiérrez. 1990. Genetic variation and differentiation in the spotted owl (*Strix occidentalis*). *Auk* 107(4):737-744.
- Barrowclough, George F., R.J. Gutiérrez, and J.G. Groth. 1999. Phylogeography of spotted owl (*Strix occidentalis*) populations based on mitochondrial DNA sequences; gene flow, genetic structure, and a novel biogeographic pattern. *Evolution* 53(3):919-931.
- Barrows, C., and K. Barrows. 1978. Roost characteristics and behavioral thermoregulation in the Spotted Owl. *Western Birds* 9:1-8.
- Barrows, C.C. 1980. Feeding ecology of the spotted owl in California. *J. Raptor Res.* 14:73-77.
- Barrows, C.W. 1981. Roost selection by Spotted Owls: an adaptation to heat stress. *Condor* 83:302-309.
- Barrows, C.W. 1985. Breeding success relative to fluctuations in diet for spotted owls in California. Pages 50-54 in R.J. Gutiérrez and A.B. Carey eds., Ecology and management of the spotted owl. General Technical Report PNW-GTR-185. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Barrows, Cameron W. 1987. Diet Shifts in Breeding and Nonbreeding Spotted Owls. *J. Raptor Res.* 21:95-97.
- Barrows, C.W., P.H. Bloom, and C.T. Collins. 1982. Sexual differences in the tail barring of spotted owls. *North American Bird Bander* 7(4):138-139.
- Bart, J. 1995. Evaluation of Population Trend Estimates Calculated Using Capture-Recapture and Population Projection Methods. *Ecological Applications* 5(3):662-671.
- Bart, J. 1995. Amount of Suitable Habitat and Viability of Northern Spotted Owls. *Conservation Biology* 9(4):943-946.
- Bart, J. and D.S. Robson. 1995. Design of a monitoring program for northern spotted owls. Monitoring bird populations by point counts. Pages 75-81 in C.J. Ralph,

- J.R. Sauer, and S. Droege, eds. General Technical Report PSW-GTR-149. USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Bart, J. and E.D. Forsman. 1992. Dependence of Northern Spotted Owls, *Strix occidentalis caurina*, on Old-Growth Forests in the Western United States. *Biological Conservation* 62(2):95-100.
- Bart, J. and E.D. Forsman. *Surveys of Northern Spotted Owls on Public Lands. Ohio Cooperative Research Unit, Department of Zoology. Ohio State University, Columbus, OH. Also USDA For. Serv., Forestry Sciences Laboratory, Olympia, WA.*
- Bart, J. and R.S. Holthausen. 1993. Listing, critical habitat designation, and development of the northern spotted owl recovery plan. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. *J. Raptor Res.* 27(1):53.
- Baum, D.A. and M.J. Donoghue. 1995. "Choosing among alternative ""phylogenetic"" species concepts." *Systematic Botany* 20:560-573.
- Bayrakçi, Rana, A.B. Carey, and T.M. Wilson. 2001. Current Status of the Western Gray Squirrel Population in the Puget Trough, Washington. *Northwest Science* 75(4):333-341.
- Beak Consultants, Inc. 1995. *Amendment to the habitat conservation plan and incidental take permit PRT-777837, for the Northern spotted owl in timberlands owned by the Murray Pacific Corporation, Lewis County Washington. Unpublished report. Murray Pacific Corporation, Longview, WA.*
- Beak Consultants, Inc. 1993. *Habitat conservation plan for the northern spotted owl (Strix occidentalis caurina) on timberlands owned by the Murray Pacific Corporation, Lewis County, Washington. Unpublished report, Murray Pacific Corporation, Longview, WA.*
- Beardsley, D. and R. Warbington. 1996. *Old growth in northwestern California National Forests. Research Paper PNW-RP-491. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.*
- Beason, R.C. 1997. Demography of the northern spotted owl. *J. Field Orn.* 68(3):500.
- Beck, T.W. and G.I. Gould, Jr. 1992. Background and the current management situation for the California spotted owl. Pages 37-53 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status. Gen. Tech. Rep. PSW-GTR-133. USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.*
- Beier, P. and J.E. Drennan. 1997. Forest structure and prey abundance in foraging areas of northern goshawks. *Ecological Applic.* 7:564-571.
- Beier, P., M.R. Vaughan, M.J. Conroy, and H. Quigley. 2003. *An analysis of scientific literature related to the Florida Panther. Final Report. Florida Fish and Wildlife Conservation Commission, Tallahassee, FL.*
- Beissinger, Steven R. and M.I. Westphal. 1998. On the use of demographic models of population viability in endangered species management. *J. Wildlife Management* 62(3):821-841.

- Benson, G. 1991. *Stand-level information for spotted owl habitat, Wenatchee National Forest. Unpublished manuscript.*
- Benson, G. 1991. *Characterization of spotted owl habitat in Washington, Oregon, and northern California. Unpublished manuscript.*
- Bent, A.C. 1938. Life Histories of North American Birds of Prey. Part 2. Pages 202-213 in Bulletin 170, United States National Museum.
- Berbach, M. and R. Motroni. 1994. A northern spotted owl habitat conservation plan for California: status and lessons learned. Transactions of the Western Section of the Wildlife Society 30:56-65.
- Berbach, M., G.I. Gould Jr., J. Stenback, H. Eng, and R. Marose. 1993. GIS analysis of northern spotted owl dispersal habitat on private lands in Del Norte, Humboldt, and Mendocino Counties, California. Sacramento, California. Transactions of the Western Section of the Wildlife Society Vol 29.
- Bernard, K.A. and L.D. Kramer. 2001. West Nile virus activity in the United States, 2001. *Viral Immunol* 14(4):319-38.
- Bevis, K.R., G.M. King, and E.E. Hanson. 1997. Spotted Owls And 1994 Fires On The Yakama Indian Reservation. Pages 117-22 in Dr. J.M. Greenlee, ed. Proceedings - Fire Effects on Rare and Endangered Species Habitats Conference, Nov 13-16, 1995. Coeur D'Alene, ID. International Association of Wildland Fire.
- Bevis, K.R., J.E. Richards, G.M. King, and E.E. Hanson. 1997. Food Habits of the Northern Spotted Owl (*Strix occidentalis caurina*) at Six Nest Sites in Washington's East Cascades. in J.R. Duncan, D.H. Johnson, and T.H. Nicholls, eds. *Biology and Conservation of Owls of the Northern Hemisphere: Second International Symposium*. February 5-9, 1997. Winnipeg, MB, Canada. Gen. Tech. Rep. GTR-NC-190. USDA For. Serv., North Central For. Exp. Sta.
- Bias, M.A. and R.J. Gutiérrez. 1992. Habitat associations of California spotted owls in the Central Sierra Nevada. *J. Wildlife Management* 56(3):584-595.
- Biles, C.M. *The spotted owl. A look at the Boyce Model.*
- Bingham, B. 1991. *Stand-level characteristics of northern spotted owl habitats on the Mad River District of Six Rivers National Forest. Unpublished manuscript. USDA For. Serv., Six Rivers National Forest, Eureka, CA.*
- Bingham, B. and B.R. Noon. 1997. Mitigation of Habitat Take: Application to Habitat Conservation Planning. *Conservation Biology* 11(1):127-139.
- Bingham, B. and B.R. Noon. 1998. The Use of Core Areas in Comprehensive Mitigation Strategies. *Conservation Biology* 12(1):241-243.
- Biota Pacific*. 2003. *Ecology and distribution of the barred owl (Strix varia) in the Pacific Northwest: a review and summary of scientific literature. Unpublished Report. Washington Forest Protective Association. Olympia, WA.*
- Biswell, B.L. and A.B. Carey. 1991. *Flying squirrel abundance in young and old-growth forests of the Pacific Northwest. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife*

- Communitites, and Habitat Relationships"*", U.S. Department of Agriculture, Forest Service, Pacific NW Research Station. Portland, OR, March 29-31, 1989."
- Biswell, B.L., J. Boulanger, and A.B. Carey. 1991. *Comparison of small mammal abundance in climax and young forests of the Olympic Peninsula, Washington. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communitites, and Habitat Relationships"*", U.S. Department of Agriculture, Forest Service, Pacific NW Research Station. Portland, OR, March 29-31, 1989."
- Bjorkland, J. and D. Drummond. 1987. *Nesting and habitat survey of endangered, threatened, and sensitive raptor species in the Ross Lake Drainage. Washington State. USDI National Park Service.*
- Blackburn, I.R. 1990. *The distribution, status, and habitat assessment of the northern spotted owl in southwestern British Columbia. Unpublished report. British Columbia Ministry of Environment, Lands and Parks, Surrey, BC, Canada.*
- Blackburn, I.R. 1991. *The distribution, habitat selection, and status of the northern spotted owl in southwestern British Columbia. Unpublished report. British Columbia Ministry of Environment, Lands and Parks, Surrey, BC, Canada.*
- Blackburn, I.R. 1992. *The Distribution, Status and Habitat Selection of the Northern Spotted Owl in Southwestern British Columbia: a Summary of the 1991 Field Season. British Columbia Ministry of Environment, Lands and Parks, Fish and Wildlife Branch ,Surrey, BC, Canada.*
- Blackburn, I.R. and A.A. Bryant. 1991. *Preliminary report: recovery plan for the northern spotted owl in Canada. British Columbia Ministry of Environment, Surrey, BC, Canada.*
- Blackburn, I.R. and A.A. Harestad. 2002. *Supplement To The Population Assessment Of The Northern Spotted Owl in British Columbia, 1992-2001. Ministry of Water, Land and Air Protection, Simon Fraser University, Vancouver, BC, Canada.*
- Blackburn, I.R. and C. Lenihan. 1995. *Northern spotted owl survey protocol in British Columbia. Unpublished report. British Columbia Ministry of Environment, Lands and Parks, Surrey, BC, Canada.*
- Blackburn, I.R., G. Macinnes, M. Mana, and O. Thomaе. 1997. *Spotted Owl Management Plan: strategic component. Province of British Columbia, Victoria, BC, Canada*
- Blackburn, I.R., G. Macinnes, M. Mana, and O. Thomaе. 1997. *Managing spotted owl habitat: operational guidelines component of the Spotted Owl Management Plan. Province of British Columbia, Victoria, BC, Canada.*
- Blackburn, I.R., G. Macinnes, and C. Lenihan. 1999. *Spotted Owl Management Plan: resource management plans for Chilliwack Forest District and Squamish Forest District. British Columbia Ministry of Environment and British Columbia Ministry of Forests, Victoria, BC, Canada.*
- Blackburn, I.R., A.S. Harestad, J.N.M. Smith, S. Dodwin, R. Hentze, and C.B. Lenihan. 2001. *Population Assessment of The Northern Spotted Owl in British Columbia*

- 1992-2001. *British Columbia Ministry of Environment, Lands, and Parks, Surrey, BC, Canada.*
- Blakesley, J.A. 1999. Modeling apparent survival and reproduction of California spotted owls using forest cover types. Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- Blakesley, J.A., A.B. Franklin, and R.J. Gutiérrez. 1990. Sexual Dimorphism in Northern Spotted Owls From Northwest California. *Journal of Field Ornithology* 61(3):320-327.
- Blakesley, J.A., A.B. Franklin, and R.J. Gutiérrez. 1992. Spotted Owl Roost and Nest Site Selection in Northwest California. *J. Wildlife Management* 56(2):388-392. U.S. Forest Service, Redwood Science Laboratory, Arcata, CA.
- Blakesley, J.A., B.R. Noon, and D.W.H. Shaw. 2001. Demography of the California spotted owl in northeastern California. *Condor* 103(4):667-677.
- Block, W.M., D.M. Finch, and L.A. Brennan. 1995. Single-species versus multi-species approaches for management. Pages 461-476 in T.E. Martin, and D.M. Finch eds. *Ecology and Management of Neotropical Migratory Birds: A Synthesis and review of Critical Issues*. Oxford University Press, New York, NY.
- Blood, D. 1998. *Wildlife at risk in British Columbia: Northern Spotted Owl*. Ministry of Environment, Lands and Parks, Victoria, BC, Canada. (brochure).
- Bloxton, T.D. 2002. *Prey abundance, space use, demography, and foraging habits of northern goshawks in western Washington*. M.S. thesis, University of Washington, Seattle, WA.
- Boehme, K., D. Ekblaw, J. Flory, A. Scheiff, and M. Schlesinger. 1995. *Spotted owl inventory and monitoring*. U.S. Department of the Interior, National Park Service, Division of Resource Preservation and Research, Crater Lake National Park, Crater Lake, OR.
- Bond, M.L., R.J. Gutiérrez, A.B. Franklin, W.S. LaHaye, C.A. May, and M.E. Seamans. 2002. Short Term Effects of Wildfires on Spotted Owl Survival, Site Fidelity, Mate Fidelity, And Reproductive Success. *Wildlife Society Bulletin* 30(4):1022-1028.
- Bonnicksen, T.M. 1992. *Northern Spotted owl habitat conservation plan for California*. The Wildland Resources Center, University of California, Berkeley, CA.
- Booth, D.E. 1991. Estimating prelogging old-growth in the Pacific Northwest. Reconstructing age structure from the 1933 survey. *J. Forestry* 89:25-29.
- Bottorf, J.A. 1994. *Northern Spotted Owl Habitat Management Plan for Fort Lewis*.
- Bottorf, J.A., B. Gilbert, and T. Williams. 1991. *Northern spotted owl survey*. Ft. Lewis Military Reservation.
- Boutin, S. 1990. Food supplementation experiments with terrestrial vertebrates: patterns, problems and the future. *Can. J. Zool.* 68:203-220.
- Bown, R.R. 1998. *Declaration of Robin R. Bown*. The declaration Robin Bown made to the court on January 30, 1998 for the western Oregon BLM in Portland, OR. 8.
- Bown, R.R. and L.B. Lint. 1991. *Banding as a management tool: the case of the Northern Spotted Owl*. *Wildlife and Vegetation of Unmanaged Douglas-Fir*

- Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", U.S. Department of Agriculture, Forest Service, Pacific NW Research Station, Portland, OR, March 29-31, 1989."*
- Boxall, P.C. and P.H.R. Stepney. 1982. The Distribution and Status of the Barred Owl in Alberta. *Canadian Field-Naturalist* 96:46-50.
- Boyce, M.S. and L.L. Irwin. 1990. Viable populations of Spotted owls for management of old growth forests in the Pacific Northwest. Pages 133-135 in R.S. Mitchell, C.J. Sheviak and D.J. Leopold, eds. *Ecosystem Management: rare species and significant habitats. Proceedings of the 15th Annual Natural Areas Conference.* New York State Museum Bulletin No. 71. New York, NY.
- Boyce, M.S. and L.L. Irwin. 2003. Demographic Meta-Analysis: Synthesizing Vital Rates For Spotted Owls. Review Unpublished review report. Boyce: University of Alberta, Edmonton, AB, Canada. Irwin: National Council for Air and Stream Improvement, Stevensville, MT, USA.*
- Boyce, M.S., J.S. Meyer, and L.L. Irwin. 1994. Habitat-based PVA (population viability analyses) for the northern spotted owl. Pages 63-85 in D.J. Fletcher and B.F.J. Manly, eds. *Ecology and environmental monitoring. Otago Conference Series, No. 2.* University of Otago, Dunedin, New Zealand.
- Boyce, W., C. Kreuder, R. Anderson, and C. Barker. 2004. Potential impacts of West Nile Virus on Wildlife in California. Unpublished Report from the University of California Wildlife Health Center. Accessed 7/14/2004 online (<http://www.vetmed.ucdavis.edu/whc/pdfs/wnvreport.pdf>).*
- Brinton, M.A. 2001. Host factors involved in West Nile virus replication. *Annals of the New York Academy of Sciences* 951:207-219.
- British Columbia Spotted Owl Management Interagency Team. 1997. Managing spotted owl habitat: operational guidelines component of the Spotted Owl Management Plan. Province of British Columbia, Canada.*
- British Columbia Spotted Owl Management Interagency Team. 1997. Spotted Owl Management Plan: strategic component. Province of British Columbia, Canada.*
- Brook, Barry W., D.W. Tonkyn., J.J. O'Grady, and R. Frankham. 2002. Contribution of Inbreeding to Extinction risk in Threatened Species. *Conservation Ecology* 6(1):article 16 [online] URL: <http://www.consecol.org/vol6/iss1/art16>.
- Brook, Barry W., J.J. O'Grady, A.P. Chapman, M.A. Burgman, H.R. Akçakaya, and R. Frankham. 2000. Predictive Accuracy of Population Viability Analysis in Conservation Biology. *Letters To Nature. Nature* 404:385-387.
- Brubaker, L.B. 1991. Climate Change and the Origin of Old-Growth Douglas-Fir Forest in the Puget Sound Lowland. Pages 17-24 in PNW-GTR-285, Pac. Northwest Res. Sta., USDA For. Serv., Olympia, WA.
- Brugger, K.E. 1994. Spatial models and Spotted owls: exploring some biological issues behind recent events. *Journal of Field Ornithology* 65(3):423.
- Brugger, K.E. 1994. The use of statistical power in conservation biology: the Vaquita and northern spotted owl. *Journal of Field Ornithology* 65(2):265.

- Brumfield, R.T., R.W. Jernigan, D.B. McDonald, M.J. Braun. 2001. Evolutionary implications of divergent clines in an avian (Manacus: Aves) hybrid zone. *Evolution* 55(10):2070-2087.
- Bryant, A.A. 1991. *Recovery plan for the northern spotted owl in Canada. Draft.*
- Buchanan, J.B. 1991. *Spotted owl nest site characteristics in mixed conifer forests of the eastern Cascade Mountains, Washington. M.S. thesis, University of Washington, Seattle, WA.*
- Buchanan, J.B. 1993. *Fire suppression and management of spotted owl habitat in the Wenatchee National Forest. Abstract of presentation, general scientific program, annual meeting of the Raptor Research Foundation, Inc., Bellevue, Washington, November 11-15, 1992. J. Raptor Res. 27(1):86-87.*
- Buchanan, J.B. 1993. *Spotted owl management activities of the Washington Department of Wildlife: progress report for April 1, 1991- March 31, 1992. U.S. Department of the Interior, Fish and Wildlife Service, Section 6, Project E-1, Segment No. 22. Washington Department of Wildlife, Olympia, WA.*
- Buchanan, J.B. 1996. *Characteristics of spotted owl nests and nest sites in Klickitat County, Washington. Final report to the National Council for Air and Stream Improvement, Inc., Olympia, WA.*
- Buchanan, J.B. 1997. *A survey for spotted owls in the Lower Queets River area. Report to U.S. Department of Interior, Fish and Wildlife Service. Washington Department of Fish and Wildlife, Olympia, WA.*
- Buchanan, J.B. 1997. *Spotted owl management activities of the Washington Department of Fish and Wildlife: progress report for 1992-1995. U.S. Department of the Interior, Fish and Wildlife Service, Section 6, Project E-1, Segment No. 34. Washington Department of Fish and Wildlife, Olympia, WA.*
- Buchanan, J.B. 1997. Adaptive management and other management efforts: Habitat conservation planning in the Pacific Northwest. *Endangered Species Update* 14:32-34.
- Buchanan, J.B. 1998. *Conservation objectives for the Hoh-Clearwater Spotted Owl Special Emphasis Area. Washington Department of Fish and Wildlife, Olympia, WA.*
- Buchanan, J.B. 1999. *Spotted owl productivity in Klickitat County and vicinity. Washington Department of Fish and Wildlife, Olympia, WA.*
- Buchanan, J.B. in press, 2004. Spotted owl (*Strix occidentalis*). Pages XX-XX in T.R. Wahl, W. Tweit, and S.G. Mlodinow, eds. *The Birds of Washington*. Oregon State University Press, Corvallis, Oregon..
- Buchanan, J.B. and R.J. Fredrickson. 1996. *A proposed conservation strategy for the spotted owl and other late-successional forest species in southwest Washington. Submitted to U.S. Department of the Interior, Fish and Wildlife Service [public comment on scoping notice for proposed 4(d) rule], Washington Department of Fish and Wildlife, Olympia, WA.*
- Buchanan, J.B. and L.L. Irwin. 1992. *Fire risk and management of spotted owl habitat in Okanogan and Wenatchee National Forests. Page 123 in Fire in Pacific*

- Northwest Ecosystems: exploring emerging issues. Unpublished conference abstracts.*
- Buchanan, J.B. and L.L. Irwin. 1993. Variation in spotted owl nest site characteristics within the Wenatchee National Forest. Abstract of presentation, general scientific program, annual meeting of the Raptor Research Foundation, Inc., Bellevue, Washington, November 11-15, 1992. *Journal of Raptor Research* 27(1):65-66.
- Buchanan, J.B. and L.L. Irwin. 1998. Variation in spotted owl nest site characteristics within the eastern Cascade Mountains Province in Washington. *Northwestern Naturalist* 79:33-40.
- Buchanan, J.B. and L.L. Irwin. *Strix occidentalis caurina* nest sites varied widely among areas studied, but results consistent with earlier determinations of important habitat variables.
- Buchanan, J.B. and L.L. Irwin. Sources of variation in spotted owl nest site characteristics within the Eastern Cascades Mountain province in Washington. Unpublished manuscript
- Buchanan, J.B., and A.E. Potter. 2000. Protocol for conducting historical status surveys for spotted owls on the Teanaway Tree Farm, Kittitas County, Washington. Washington Department of Fish and Wildlife, Olympia, WA.
- Buchanan, J.B. and P. Swedeen. 2004 Draft. Draft Briefing Report to the Washington State Forest Practices Board Regarding Spotted Owl Status and Forest Practices Rules. Washington Department of Fish and Wildlife, Olympia, WA.
- Buchanan, J.B., E. Hanson, D. Hays and L. Young. 1994. An evaluation of the Washington forest practices board wildlife committee preferred alternative for a spotted owl protection rule. Washington Forest Practices Board Spotted Owl Science Advisory Group.
- Buchanan, J.B., L.L. Irwin, and E.L. McCutchen. 1993. Characteristics of spotted owl nest trees in the Wenatchee National Forest. *J. Raptor Res.* 27(1):1-7.
- Buchanan, J.B., L.L. Irwin, and E.L. McCutchen. 1995. Within-stand nest site selection by spotted owls in the Eastern Washington Cascades. *J. Wildlife Management* 59(2):301-310.
- Buchanan, J.B., J. Michaels, and J.J. Zisa. 1996. Habitat protection objectives for Spotted Owl Special Emphasis Areas: A report to the Timber, Fish and Wildlife policy group on Spotted Owls. Washington Department of Fish and Wildlife, Olympia, WA and U.S. Department of the Interior, Fish and Wildlife Service, Lacey, WA.
- Buchanan, J.B., R.J. Fredrickson, and D.E. Seaman. 1998. Mitigation of habitat take and the core area concept. *Conservation Biology* 12(1):238-240.
- Buchanan, J.B., J.C. Lewis, D.J. Pierce, E.D. Forsman, and B.L. Biswell. 1999. Characteristics of young forests used by spotted owls on the western Olympic Peninsula, Washington. *Northwest Science* 73(4):255-263.
- Buchanan, J.B., T.L. Fleming, and L.L. Irwin. In Review. A comparative analysis of barred owl and spotted owl nest site characteristics. Washington Department of Fish and Wildlife, Olympia, WA.

- Bull, E.L., M.G. Henjum, R.S. Rohweder. 1989. Diet and optimal foraging of great gray owls. *J. of Wildl. Manag.* 53(1):47-50.
- Bunnell, F.L., L.L. Kremsater, and E. Wind. 1999. Managing to sustain vertebrate richness in forests of the Pacific Northwest: relationships within stands. *Environmental Review* 97:97-146.
- Bureau of Land Management, Medford District. DRAFT. Medford District Third Year Plan Evaluation. Medford District Bureau of Land Management. Pre-Decisional Working Document. Nov 2000. 56 pp.*
- Bureau of Land Management, Salem District. 2003. Salem District Project Update. Salem District BLM. Oct 2003. 22 pp.*
- Burnham, K.P., D.R. Anderson, and G.C. White. 1994. Estimation of vital rates of the northern spotted owl. Pages 1-26 in: FSEIS on management of habitat for late-successional and old-growth forest related species within the range of the northern spotted owl. Volume II, Appendix J. USDA Forest Service and USDI BLM, Portland, OR.
- Burnham, K.P., D.R. Anderson, and G.C. White. 1996. Meta-analysis of vital rates of the northern spotted owl. *Studies in Avian Biology* 17:92-101.
- Burton, J.A., P. Burton, M. Fogden, H. Ginn, D. Glue, C. Harrison, G.P. Hekstra, H. Mikkola, R. Murton, I. Presett, J. Sparks, B. Stonehouse, R. Wagstaffe, C.A. Walker, and W. Van Der Weyden. 1973. *Owls of the World. Their Evolution, Structure and Ecology.* E.P. Dutton & Co., Inc., New York, NY.
- Busby, J.R. 1991. BIOCLIM – A Bioclimate analysis and prediction system. Pages 64-68 in C.R. Margules and M.P. Austin, eds. *Nature Conservation: Cost effective biological surveys and data analysis.* CSIRO, Victoria, Australia.
- Byford, K., A. Center, E. Greenquist, J. Jacobs, R. Larson, W. Logan, L.M. Cady, D. Pengeroth. 2000. The Willamette Province Fiscal Year 2000 Habitat Modification Biological Assessment for Effects to Listed Species. Mt. Hood National Forest, Oregon.*
- Byford, K., E. Greenquist, R. Larson, W. Logan, J. Millman, B. Otani and D. Pengeroth. 1998. The Willamette Province Fiscal Year 1998 Habitat Modification Biological Assessment for Effects to Listed Species. 90 pages.*
- Cadwell, C. 2004. National Forest Plan. BLM. Oregon State Office, Portland, OR.*
- Caffrey, C. National Audubon Society. 2003. Determining impacts of West Nile Virus on crows and other birds. *American Birds* (103rd Count) 57:14-21.
- Caffrey, C. and C.C. Peterson. National Audubon Society. 2003. West Nile Virus may not be a conservation issue in northeastern United States. *American Birds* (103rd Count) 57:14-21.
- Caffrey, C., T.J. Weston, and S.C.R. Smith. 2003. High mortality among marked crows subsequent to the arrival of West Nile virus. *Wildlife Society Bulletin* 31(3):870-872.
- California Board of Forestry. 1993. The northern spotted owl in California, a reality check. Unpublished Draft*

- California Board of Forestry. 1994. Proposal for northern spotted owl habitat conservation rules for private forestlands in California. Unpublished draft. California Board of Forestry.*
- California Department of Fish and Game. 1993. State and Federal endangered and threatened animals of California and listing dates California Department of Fish and Game, Sacramento, CA.*
- California Department of Forestry and Fire Protection. 2001. California Forest Practices Rules: 2001. Title 14, California Code of Regulations, Chps. 4, 4.5, and 10. Sacramento, CA. 256 pp. Compiled by: The California Department of Forestry and Fire Protection, Resource Management, Forest Practice Program. February 2001. Prepared for: California Licensed Timber Operators and California Registered Professional Foresters.*
- California Department of Health Services. 2004. West Nile Virus detected in California this year. Press release: 04-17. April 1, 2004.*
- California Resources Agency. 1991. Proposal for Northern Spotted Owl Habitat Conservation Rules for Private Forestlands in California. California Board of Forestry Sacramento, CA.*
- Call, D.R. 1990. Home range and habitat use by California spotted owls in the central Sierra Nevada. M.S. thesis, Humboldt State University, Arcata, CA.*
- Call, D.R., R.J. Gutiérrez, and J. Verner. 1992. Foraging habitat and some home-range characteristics of California spotted owls in the Sierra Nevada. Condor 94:880-888.*
- Campbell Timberland Management, LLC. 2001. Northern spotted owl monitoring, banding and status report on Hawthorne Timber Company Ownership - 2001 annual report. Submitted to the United States Fish and Wildlife Service by Campbell Timberland Management, LLC. In fulfillment of requirements specified in condition 11. of permit # TE022765-1, Federal Fish and Wildlife Permit, under section 10(a)(1)(A) of the Endangered Species Act*
- Campbell Timberland Management, LLC. 2003. Northern spotted owl monitoring, banding and status report on Hawthorne Timber Company Ownership. 2002 Annual Report submitted to the United States Fish and Wildlife Service by Campbell Timberland Management, LLC. In fulfillment of requirements specified in condition 11. of permit # TE022765-1, Federal Fish and Wildlife Permit, under section 10(a)(1)(A) of the Endangered Species Act.*
- Campbell, G.L., A.A. Marfin, R.S. Lanciotti, and D.J. Gubler. 2002. West Nile Virus. The Lancet Infectious Diseases 2(9):519-29.*
- Campbell, R.W. 1973. Coastal records of the barred owl for British Columbia. The Murrelet 54:25 (& The Condor 76:222).*
- Canadian Spotted Owl Recovery Team. 1994. Management options for the northern spotted owl in British Columbia. Unpublished report. Surrey, BC, Canada.*
- Canham, C.D., J.S. Denslow, W.J. Platt, J.R. Runkle, T.A. Spies, and P.S. White. 1990. Light regimes beneath closed canopies and tree-fall gaps in temperate and tropical forests. Can. J. For. Res. 20:620-631.*

- Carey, A.B. 1985. A summary of the scientific basis for spotted owl management. in Gutiérrez, R.J., Carey, A.B. eds. Ecology and management of the spotted owl in the Pacific Northwest. PNW-GTR-185. USDA For. Serv., Pac. Northwest Forest and Range Exp. Sta., Portland, OR. Pages 100-114.
- Carey, A.B. 1991. The biology of arboreal rodents in Douglas-fir forests. USDA For. Serv. GTR-PNW-276, Pac. Northwest Res. Sta., Portland, OR.
- Carey, A.B. 1993. *Prey ecology and northern spotted owl diet. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):53-54.*
- Carey, A.B. 1995. Sciurids in Pacific Northwest managed and old-growth forests. *Ecological Applications* 5(3):648-661.
- Carey, A.B. 1995. Spotted owls ecology: theory and methodology - a reply to Rosenberg et al. *Ecology* 76(2):648-652.
- Carey, A.B. 1996. Interactions of Northwest Forest Canopies and Arboreal Mammals. *Northwest Science* 70, Special Issue:72-78.
- Carey, A.B. 1998. Ecological foundations of biodiversity: lessons from natural and managed forests of the Pacific Northwest. *Northwestern Science* 72 (Special Issue No. 2):127-133.
- Carey, A.B. 1999. Red Tree Vole: *Arborimus longicaudus*. Pages 620-622 in D.E. Wilson and S. Ruff, eds. The Smithsonian Institution Press, Washington, D. C.
- Carey, A.B. 2000. Effects of new forest management strategies on squirrel populations. *Ecological Applications* 10(1):248-257.
- Carey, A.B. 2000. Ecology of northern living squirrels: implications for ecosystem management in the Pacific Northwest, USA. in R. Goldingay and J. Scheibe (eds.) *Biology of Gliding Mammals*. Filander Press: Fürth, Germany.
- Carey, A.B. 2001. Experimental manipulation of spatial heterogeneity in Douglas-fir forest: effects on squirrels. *Forest Ecology and Management* 152:13-30.
- Carey, A.B. 2002. Response of northern flying squirrels to supplementary dens. *Wildlife Society Bulletin* 30(2):547-556.
- Carey, A.B. 2002. Globalization of Flora: Inviting Worldwide Ecosystem Disaster. *Renewable Resources Journal* 20(1):13-17.
- Carey, A.B. 2003. Restoration of landscape function: reserves or active management? *Forestry* 76(2):221-230
- Carey, A.B. 2003. Managing For Wildlife: A Key Component for Social Acceptance of Compatible Forest Management. Pages 401-425 in Monserud, R.A., Haynes, R.W., Johnson, A.C., eds. *Compatible Forest Management*. Kluwer Academic Publishers: Dordrecht, The Netherlands.
- Carey, A.B. 2003. Biocomplexity and Restoration of Biodiversity in Temperate Coniferous Forest: Inducing Spatial Heterogeneity with Variable-Density Thinning. *Forestry* 76(2):127-136.
- Carey, A.B. *Experimental manipulation of managed stands to provide habitat for spotted owls and to enhance plant and animal diversity. A summary and background for*

- the USDA FS experiment on Ft. Lewis, Washington. From the Pacific Northwest Research Station, USDA Forest Service, Olympia, WA.*
- Carey, A.B. and R.O. Curtis. 1996. Conservation of biodiversity: a useful paradigm for forest ecosystem management. *Wildlife Society Bulletin* 24(4):610-620
- Carey, A.B. and C. Elliot. 1994. *Washington Forest Landscape Management Project. Unpublished progress report. USDA, Forest Service, Forestry Sciences Laboratory, Olympia, WA.*
- Carey, A.B. and C.A. Harrington. 2001. Small mammals in young forests: implications for management for sustainability. *Forest Ecology and Management* 154:289-309.
- Carey, A.B. and M.L. Johnson. 1995. Small mammals in managed, naturally young, and old-growth forests. *Ecological Applications* 5:336-352. (Abstract)
- Carey, A.B. and J.E. Kershner. 1996. *Spilogale gracilis* in upland forests of western Washington and Oregon. *Northwest Naturalist* 77:29-34.
- Carey, A.B. and K.C. Peeler. 1995. Spotted owls: resource and space use in mosaic landscapes. *J. Raptor Res.* 29(4):223-239.
- Carey, A.B. and S.M. Wilson. 2001. Induced spatial heterogeneity in forest canopies: responses of small mammals. *J. Wildlife Management* 65(4):1014-102
- Carey, A.B. and J.W. Witt. 1991. Track counts as indices to abundances of arboreal rodents. *J. Mammalogy* 72(1):192-194.
- Carey, A.B., S.P. Horton, and J.A. Reid. 1989. Optimal sampling for radiotelemetry studies of spotted owl habitat and home range. *USDA For. Serv. Res. Pap. RP-PNW-416.*
- Carey, A.B., J.A. Reid, and S.P. Horton. 1990. Spotted owl home ranges and habitat use in southern Oregon coast ranges. *J. Wildlife Management* 54(1):11-17.
- Carey, A.B., E.D. Forsman, et al. 1990. Patterns of spotted owl prey abundance in the Oregon Coast Ranges and Olympic Peninsula.
- Carey, A.B., M.M. Hardt, S.P. Horton, and B.L. Biswell. 1991. Spring bird communities in the Oregon coast range. Pages 123-142 in L.F.Ruggiero, K.B. Aubry, A.B. Carey, and M.M. Huff, technical coordinators. *Wildlife and vegetation of unmanaged Douglas-fir forests. Gen. Tech. Rep. GTR-PNW-285. USDA For. Serv., Pac. Northwest Res. Sta.*
- Carey, A.B., S.P. Horton, and B.L. Biswell. 1992. Northern spotted owls: influence of prey base and landscape character. *Ecological Monographs* 62(2):223-250
- Carey, A.B., Biswell B.L., and Witt J.W. 1991. *Methods for Measuring Populations of Arboreal Rodents. Gen. Tech. Rep. PNW-GTR-273. : USDA For. Serv., Pac. Northwest Res. Sta.. Portland, OR.*
- Carey, A.B., D.R. Thysell, L. Villa, T. Wilson, S. Wilson, J. Trappe, E. Ingham, M. Holmes, and W. Colgan. 1996. Foundations of biodiversity in managed Douglas-fir forests. in D.L. Pearson and C.V. Klimas eds. *The Role of Restoration in Ecosystem Management. Society for Ecological Restoration, Madison, WI, pp. 68-82.*

- Carey, A.B., T.M. Wilson, C.C. Maguire, and B.L. Biswell. 1997. Dens of Northern Flying Squirrels in the Pacific Northwest. *J. Wildlife Management* 61(3):684-699.
- Carey, A.B., B.R. Lippke, and J. Sessions. 1999. Intentional systems management: managing forests for biodiversity. *J. Sustainable Forestry* 9 (3/4):83-125.
- Carey, A.B., C.C. Maguire, B.L. Biswell, and T.M. Wilson. 1999. Distribution and Abundance of *Neotoma* in Western Oregon and Washington. *Northwest Scientific Association* 73(2):65-79.
- Carey, A.B., D.R. Thysell, and A.W. Brodie. 1999. The Forest Ecosystem Study: Background, Rationale, Implementation, Baseline Conditions, and Silvicultural Assessment. General Technical Report PNW-GTR-457. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Carey, A.B., J.K. Kershner, B.L. Biswell, and L.D. de Toledo. 1999. Ecological scale and forest development: squirrels, dietary fungi, and vascular plants in managed and unmanaged forests. *Wildlife Monographs*, 63(1):223-250.
- Carey, A.B., W. Colgan III, J.M. Trappe, and R. Molina. 2002. Effects of forest management on truffle abundance and squirrel diets. *Northwest Science* 76(2):148-157.
- Carlson, P.C., W.S. LaHaye, and A.B. Franklin. 1998. Incestuous Behavior in Spotted Owls. *Wilson Bulletin* 110(4):562-564.
- Carlton, D.C. 1996. *Current status of, and protective measures required for, the northern spotted owl. Boulder, CO.*
- Carroll, J.E. and R.H. Lamberson. 1993. The owl's odyssey. A continuous model for the dispersal of territorial species. *Soc. For Ind. and App. Math.* 53:205-218.
- Carroll, J.E., R.H. Lamberson, and S. Roe. 1995. Sinks, sources, and spotted owls: a territorial populations model with continuous mortality and discrete birth. *Mathematical Bioscience* 129(2):169-188.
- Cascade Center for Ecosystem Management. 1998. *The Northern Spotted Owl. Central Cascades Demography Study- Fact Sheet.*
- Center, G.S., B.R. Casler, and A.B. Carey. 1991. *Woodrat abundance in forests of the Southern Oregon Coast Range. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", U.S. Department of Agriculture, Forest Service, Pacific NW Research Station, Portland, OR, March 29-31, 1989."*
- Chavez-Leon, G. 1989. *Characteristics of fragmented habitats used by the northern spotted owl in northwestern California. M.S. thesis, Humboldt State University, Arcata, CA.*
- Chen, J., J.F. Franklin, and T.A. Spies. 1992. Vegetation responses to edge environments in old-growth Douglas-fir forests. *Ecological applications* 2:387-396.

- Chen, Jiquan, J.F. Franklin, and T.A. Spies. 1995. Growing season microclimatic gradients from clearcut edges into old-growth Douglas fir forests. *Ecological Applications* 5(1):74-86.
- Chi, D., R. Bluff, K. Halupka, R. Bown. DRAFT. Trends in suitable habitat for northern spotted owl (*Strix occidentalis caurina*) on Federal Lands from 1994 to 2003. U.S. Fish and Wildlife Service. Final Draft - February 25, 2004.
- Chi, T., A. Henke, C. Brinegar, and J. Smith. 2003. Northern spotted owl survey results from Mendocino National Forest. Final Report, Sept. 29, 2003. Department of Biological Sciences, Conservation Genetics Lab, San Jose State University, San Jose, CA.
- Chi, T., A. Henke, C. Brinegar, and J. Smith. 2003. Mapping of habitat modification and spotted owl records on the Mendocino National Forest. In: Northern spotted owl survey results from Mendocino National Forest, 2002. Department of Biological Sciences, Conservation Genetics Lab, San Jose State University, San Jose, CA.
- Chi, T., A. Henke, C. Brinegar, J. Smith. Draft. Mitochondrial DNA Analysis of Northern Spotted Owl and California Spotted Owl Populations. Conservation Genetics Laboratory, Department of Biological Sciences, San Jose State University, San Jose, CA. Draft Date: May 13, 2004.
- Chow, N. 2001. Distribution and habitat associations of northern spotted owls in Marin County, California. M.S. thesis, Humboldt State University, Arcata, CA.
- Christophersen, R.G. 1997. North Cascades National Park Service Complex Northern Spotted Owl Inventory and Monitoring Program. 1997 Progress Report. U.S. Department of the Interior, National Park Service, Sedro Woolley, WA.
- Christophersen, R.G. and R.C. Kuntz, II. 1995. North Cascades National Park Service Complex Northern Spotted Owl Inventory and Monitoring Program. 1995 Progress Report. Division of Resource Management Research, Inventory and Monitoring Branch, North Cascades National Park Service Complex, Sedro Woolley, WA.
- Cissel, J.H., F.J. Swanson, and P.J. Weisberg. 1999. Landscape management using historical fire regime: Blue River, Oregon. *Ecological Applications* 9(4):1217-1231.
- Cody, M.L. 1997. Monitoring Bird Populations in Grand Teton National Park. Final Report, National Park Service. V.1,2.
- Cody, M.L. and E. Velarde. 2002. The land bird. Pages 271-312 in T.J. Case, M.L. Cody, and E. Ezcurra eds. *New Biogeography of the Islands in the Sea of Cortés*. Oxford Univ. Press, NY.
- Cohen, W.B., T.A. Spies, R.J. Alig, D.R. Oetter, T.K. Maierperger, and M. Fiorella. 2002. Characterizing 23 Years (1972-95) of Stand Replacement Disturbance in Western Oregon Forests with Landsat Imagery. *Ecosystems* 5(2):122-137.
- Colgan III, W., A.B. Carey, and J.M. Trappe. 1997. A reliable method for analyzing dietaries of mycophagous small mammals. *Northwestern Naturalist* 78:65-69.

- Colgan III, W., A.B. Carey, J.M. Trappe, R. Molina, and D. Thysell. 1999. Diversity and productivity of hypogeous fungal sporocarps in a variably thinned Douglas-fir forest. *Can. J. For. Res.* 29:1259-1268.
- Collopy, M.E. 1992. *Biology and conservation of the northern spotted owl. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA. J. Raptor Res. ??? pp.*
- Collopy, M.W. 1993. *Biodiversity research at the BLM's Pacific Forest and Basin Rangeland Systems Cooperative Research and Technology Unit. Abstract of presentation, general scientific program, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA. J. Raptor Res. 27(1):87.*
- Columbia River Gorge Commission and U. S. Department of Agriculture. 1992. *Management plan for the Columbia River Gorge National Scenic Area. Pages 28230-28247 in Columbia River Gorge Commission and USDA For. Serv., White Salmon, WA.*
- Cook, W.E. 1992. Barred owl feeds on frog in November. *The Kingbird* 42:84.
- Cormack, R.M. 1964. Estimates of survival from the sighting of marked animals. *Biometrika* 51:429-438.
- Corn, J.G., and J. Witt. U.S. Department of Agriculture, Forest Service, Pacific NW Research Station. 1991. *Flying squirrel live-trapping success. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", Portland, OR, March 29-31, 1989."*
- Corn, P.S. and R.B. Bury. 1991. Small Mammal Communities in the Oregon Cascade Range. Pages 241-253 in PNW-GTR-285, Pac. Northwest Res. Sta., USDA For. Serv., Olympia, WA.
- Coues, E. 1903. *Key to North American Birds. Dana Estes and Company, Boston, MA.*
- Courtney, S.P. 1992. *Review of Marcot and Raphael. Review submitted by Northwest Forestry Association with 6 pp. NFA summary to Spotted Owl Environmental Impact Statement Team Leader, Portland, OR.*
- Cracraft, J. 1983. Species concepts and speciation analysis. *Current Ornithology* 1:159-187.
- Cracraft, J. 1989. Speciation and its ontology: the empirical consequences of alternative species concepts for understanding patterns and processes of differentiation. Pages 28-59 in D. Otte and J.A. Endler, eds. *Speciation and its Consequences.* Sinauer Associates, Inc., Sunderland, MA.
- Cramp, S., ed. 1985. *Handbook of the birds of Europe, the Middle East and North Africa. Vol. 4. Oxford University Press.*
- Crandall, K.A., O.R.P. Bininda-Emonds, G.M. Mace, and R.K. Wayne. 2000. Considering evolutionary processes in conservation biology. *Trends in Ecology and Evolution* 15:290-295.
- Crane Mills. 2003. *Northern spotted owl locations on or adjacent to Crane Mills ownership in western Tehama County, California, 1989-2002 - a map. ArcView*

- Shape File stored at Crane Mills, Corning, California. 1 shape file (.shp) and Excel spreadsheet stored at Crane Mills, Corning, CA.*
- Csuti, B.A., J.A. Kimerling, T.A. O'Neil, M.M. Shaughnessy, E.P. Gaines, and M.M.P. Huso. 1997. Atlas of Oregon wildlife: distribution, habitat and natural history. Oregon State University Press, Corvallis, OR
- Cupp, C.E. 1995. *Inventory of the northern spotted owl on the Arrowleaf Planned Destination Resort, Mazama, Washington. Unpublished report prepared for: Lowe Development Resorts, Seattle, WA by C. Edward Cupp, Terrapin Environmental, Duvall, WA.*
- Cutler, T.L. and D.W. Hays. 1991. Food habits of Northern spotted owls in high elevation forests of Pelican Butte, southwestern Oregon. *Northwestern Naturalist* 72:66-69.
- Darby, N. and T. Young. 2001. A model to determine potential northern spotted owl nesting areas., case study 5. Pages 561- 566 in Johnson, D.H., and T.A. O'Neil, managing directors. *Wildlife habitat relationships in Oregon and Washington.* Oregon State University Press. Corvallis, OR.
- Dark, S.J., R.J. Gutiérrez, and G.I. Gould, Jr. 1998. The barred owl (*Strix varia*) invasion in California. *Auk* 115(1):50-56.
- Darsie, R.F. and R.A. Ward. 1981. Identification and geographical distribution of the mosquitoes of North America, north of Mexico. American Mosquito Control Association, Eatontown, NJ.
- Daszak, P., A.A. Cunningham, and A.D. Hyatt. 2000. Emerging infectious diseases of wildlife--threats to biodiversity and human health. *Science* 287(5452):443-9.
- Davidson, J.M., D.M. Rizzo, and M. Garbelotto. 2002. *Phytophthora ramorum* and Sudden Oak Death in California: II. Pathogen transmission and survival. In: R. Standiford and D. McCreary, eds., *Proceedings of the Fifth Symposium on oak woodlands: Oaks in California's changing landscape.* USDA Forest Service General Technical Report GTR-PSW-184, Albany, CA. p. 741-749.
- Davidson, J.M., M. Garbelotto, S.T. Koike, and D.M. Rizzo. 2002. First report of *Phytophthora ramorum* on Douglas-fir in California. *Plant Disease* 86:1274.
- Daw, S.K. 1997. *Northern goshawk nest site selection and habitat associations at the Post-fledging Family Area Scale in Oregon. M.S. thesis. Oregon State University, Corvallis, OR.*
- Dawson, W.L. 1923. *The birds of California.* San Diego, CA: South Moulton Company.
- Dawson, W.R., J.D. Ligon, J.R. Murphy, J.P. Myers, D. Simberloff, and J. Verner 1985. Report of the scientific advisory panel on the spotted owl. *Condor* 89: 205-229.
- De Kroon, H., J. Van Groenendael, and J. Ehrlén. 2000. Elasticities: a review of methods and model limitations. *Ecology* 81(3):607-618.
- DEIS. 2003. *Baked Apple Fire Salvage, section 3.12.6 Baked Apple Fire Salvage, DEIS, North Umpqua Ranger District, Umpqua NF, October 2003, pages 121-122.*

- Delaney, D.K. and T.G. Grubb. 1999. Activity patterns of nesting Mexican spotted owls. *Condor* 101:42-49.
- Delaney, D.K. and T.G. Grubb. 2001. *Effects of off-highway vehicle noise on northern spotted owls: sound data results. A report to the Mendocino National Forest. A report to the Mendocino National Forest, Contract Number 43-91Z9-0-0055.*
- Delaney, D.K., T.G. Grubb, and L.L. Pater. 1997. *Effects of helicopter noise on nesting Mexican spotted owls. USDA, For. Serv., Rocky Mtn. Res. Sta. and U.S. Army, Constructing Engineering Research Laboratories, Project Order No. CE P.O. 95-4.*
- Delaney, D.K., T.G. Grubb, L.L. Pater, M.H. Reiser, and P. Beier. 1995. *Effects of helicopter noise on nesting Mexican spotted owls. Progress Report No. 1 - 1995 Field Season Summary. USDA For. Serv., Rocky Mtn. Res. Sta., Study Plan RM-4251-P3-E1-1.*
- Delaney, D.K., T.G. Grubb, P. Beier, L.L. Pater, and M.H. Reiser. 1999. Effects of helicopter noise on Mexican spotted owls. *J. Wildlife Management* 63(1):60-76.
- Demarchi, D. and C. Walters. 1997. A spatial simulation model for use in evaluating the response of the northern spotted owl to conservation strategies and forest harvesting practices.
- Densmore, R.J. 1995. Characteristics of spotted owl nest trees in the Wenatchee National Forest. *J. Field Orn.* 66(6):629.
- Department of Fish and Game. D.C. Zeiner, W.F. Laudenslayer Jr., K.E. Mayer, and M. White, editors. 1990. *California's Wildlife, Volume II, Birds. California Department of Fish and Game, Sacramento, CA.*
- Department of the Interior - Fish and Wildlife Service. 2003. *Endangered and Threatened Wildlife and Plants; 12-Month finding for a petition to list the California Spotted Owl (Strix occidentalis occidentalis). Department of the Interior - Fish and Wildlife Service. Federal Register* 68(31):7580-7608.
- Department of the Interior, Fish and Wildlife Service. 1995. *Federal Register, Part III. Department of the Interior, Fish and Wildlife Service. Federal Register, Part III. Vol. 60, No. 33. Fri, Feb 17, 1995.*
- Department of the Interior, Fish and Wildlife Service. 1992. *Federal Register, Part II. Department of the Interior-Fish and Wildlife Service. Federal Register, Part II. Vol. 57, No. 10. Wed, Jan 15, 1992.*
- Department of the Interior, Fish and Wildlife Service. 1993. *Federal Register, Part VIII. Department of the Interior, Fish and Wildlife Service. Federal Register, Part VIII. Vol. 58, No. 248. Wed, Dec 29, 1993.*
- Desimone, S.M. 1997. *Occupancy rates and habitat relationships of Northern Goshawks in historic nesting areas in Oregon. M.S. thesis, Oregon State Univ., Corvallis. OR*
- DeStefano, S. 1998. Determining the status of northern goshawks in the west: is our conceptual model correct? *J. Raptor Res.* 32:342-348.

- DeStefano, S., J.A. Thrailkill, K.A. Swindle, G.S. Miller, B. Woodbridge, and E.C. Meslow. Analysis of habitat quality and relative survival using capture-recapture data. Pages 466-editors. International Wildlife Management Congress.
- Detrich, P.J., G.I. Gould, and D.M. Solis. 1993. Status of spotted owl populations and management efforts in California. Transactions of the Western Section of the Wildlife Society 29:38-44.
- Deubel, V., L. Fiette, P. Gounon, M.T. Drouet, H. Khun, M. Huerre, C. Banet, M. Malkinson, and P. Despres. 2001. Variations in biological features of West Nile viruses. Annals of the New York Academy of Sciences 951(1):195-206.
- Devereux, J.G. and J.A. Mosher. 1984. Breeding ecology of barred owls in the central Appalachians. J. Raptor Res. 18:49-58.
- Diller, L.V. 1992. *Status of northern spotted owls in managed young growth timberlands in northern California. Unpublished Annual Report submitted to the Office of Management Authority and the U.S. Fish and Wildlife Service in fulfillment of the requirements of Endangered/Threatened Species Permit, PRT-751248, issued to Simpson Timber Company. Arcata, CA.*
- Diller, L.V. 1993. *A private landowner's Habitat Conservation Plan: the Simpson Timber Company HCP. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):54.*
- Diller, L.V. 1995. *Simpson Timber Company northern spotted owl studies 1990-1994: Calculation of Lambda. Simpson Timber Company, Korbek, CA.*
- Diller, L. 1998. *Colonization by northern spotted owls (Strix occidentalis caurina) of landscapes with developing suitable habitat in coastal northern California. Draft Research Proposal. Draft Research Proposal, Simpson Timber Company, Korbek, CA.*
- Diller, L. and C. Hibbard. 1993. *Status of northern spotted owls in managed young growth timberlands in northern California: Annual report 1992. Simpson Timber Company, Arcata, CA.*
- Diller, L.V. and C.J. Hibbard. 1996. *Status of northern spotted owls in managed young growth timberlands in northern California: annual report 1995. Simpson Timber Company, Korbek, CA.*
- Diller, L.V. and D.M. Thome. 1999. Population density of northern spotted owls in managed young-growth forests in coastal northern California. J. Raptor Res. 33(4):275-286.
- Dixon, K.R. and T.C. Juelson. 1987. The political economy of the Spotted Owl. Ecology 68:772-776.
- Doak, D. 1989. Spotted owls and old growth logging in the Pacific Northwest. Conservation Biology 3:389-396.
- Dobkin, D.S. 1994. Conservation and management of Neotropical migrant landbirds in the northern Rockies and Great Plains. Univ. of Idaho Press, Moscow, ID.
- Dobson, A. and J. Foutopoulos. 2001. Emerging infectious pathogens of wildlife. Proc. Royal Soc. London B 356:1001-1012.

- Dodd, C.K., Jr. and M.L. Griffey. 1997. *Scincella Lateralis* (Ground Skink) Predation. *Herpetological Review* 28:89.
- Dohm, D.J., M.L. O'Guinn, and M.J. Turell. 2002. Effect of environmental temperature on the ability of *Culex pipiens* (Diptera: Culicidae) to transmit West Nile virus. *J. Med. Entomology* 39(1):221-5.
- Donnelly, S. 1996. *Lower Cispus West Watershed Analysis, Randal Ranger District, Gifford Pinchot National Forest. Randle Ranger District, Gifford Pinchot National Forest. U.S. Fish and Wildlife Service, Ecological Services, Olympia WA.*
- Doyle, A.T. 1990. Use of riparian and upland habitats by small mammals. *J. Mammalogy* 71:14-23.
- Dunbar, D.L., B.P. Booth, E.D. Forsman, A.E. Hetherington, and D.J. Wilson. 1991. Status of spotted owl, *Strix occidentalis*, and barred owl, *Strix varia*, in southwestern British Columbia. *Canadian Field-Naturalist* 105(4):464-468.
- Dunbar, D.L., et al. 1994. *Management options for the northern spotted owl in British Columbia. British Columbia Ministry of Environment*
- Duncan, R.B. and R. Sidner. 1990. Bats in Spotted Owl pellets in southern Arizona. *Great Basin Nat.* 50:197-200.
- Duncan, S. 1998. *The owl: spotted, listed, barred, or gone? Science Findings. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR. Issue Three.*
- Dunning, J.B., Jr. 1993. CRC Handbook of Avian Body Masses. Pages 94-100 in *CRC Handbook of Avian Body Masses. CRC Press: Boca Raton, FL.*
- Dupuis, L. 1998. *Wildlife at risk in British Columbia: Northern Spotted Owl. Ministry of Environment, Lands, and Parks, Victoria, BC, Canada.*
- Earhart, C.M., and N.K. Johnson. 1970. Size dimorphism and food habits of North American owls. *Condor* 72:251-264.
- Eberhardt, L.L. 2002. A Paradigm for Population Analysis of Long-lived Vertebrates. *Ecology* 83:2841-2854.
- Eberhardt, L.L. 2003. What should we do about hypothesis testing? *J. Wildlife Management* 67(2):241-247.
- Egtvedt, L.H. 1988 *Habitat use of spotted owls within the Cedar River watershed. M.S. thesis, University of Washington, Seattle, WA.*
- Ellingson, A.M. and J.P. Perkins. 2001. *Northern Spotted Owl surveys, Oregon Department of Forestry lands. Final report to the Oregon Department of Forestry. Kingfisher Ecological, Inc., Corvallis, OR.*
- Ellingson, A.M. and J.P. Perkins. 2002. *Northern Spotted Owl Surveys, Oregon Department of Forestry Lands 2002. Final report prepared for: Oregon Department of Forestry, Forest Management Division, Salem, OR. By: Kingfisher Ecological, Inc., Corvallis, OR.*
- Endler, J.A. 1977. *Geographic Variation, Speciation, and Clines. Princeton University Press, Princeton, NJ.*
- Enriquez-Rocha, P., J.L. Rangel-Salazar, and D.W. Holt. 1993. Presence and Distribution of Mexican Owls: A Review. *J. Raptor Res.* 27(3):154-160.

- Enriquez-Rocha, P.L. and J.L. Ruis-Salazar. 2001. Owl Occurance and Calling Behavior in a Tropical Rain Forest. *J. Raptor Res.* 35(2):107-114.
- Errington, Paul L., and M. McDonald. 1937. Conclusions as to the food habits of the barred owl in Iowa. *Iowa Bird Life* 7:47-49.
- Escherich, P.C. 1981. Social biology of the bushy-tailed woodrat, *Neotoma cinerea*. University of California Publications in Zoology 110:1-121.
- Evens, J. and R. LeValley. 1982. The Spring Migration, Middle Pacific Coast Region. *American Birds* 36(5):889-892.
- Everett, R., D. Schellhaas, D. Spurbeck, P. Ohlson, D. Keenum, and T. Anderson. 1997. Structure of northern spotted owl nest stands and their historical conditions on the eastern slope of the Pacific Northwest Cascades. *Forest Ecology and Management* 94:1-14.
- Everett, R., S. Martin, M. Bickford, R. Schellhaas, and E. Forsman. 1992. Variability and dynamics of spotted owl nesting habitat in eastern Washington. Pages 35-39 in *Getting to the Future through Silviculture - Workshop Proceedings*. May 6-9, 1991. Cedar City, Utah. USDA For. Serv., Intermountain Research Station, Ogden, UT.
- Farber, S. 2003. Suitable habitat trends for northern spotted owls (Strix occidentalis caurina) on private forestlands in interior northern California. Prepared for: The U.S. Fish & Wildlife Service for consideration during the Status Review of the Northern spotted owl. By: Timber Products Company, Yreka, CA.*
- Farber, S. and R. Crans. 2000. Habitat relationship of northern spotted owls (Strix occidentalis caurina) on Timber Products forestlands in northern California. Prepared for: The U.S. Fish & Wildlife Service for their Review of Management Activities Conducted in Compliance with the Spotted Owl Management Plan. By: Timber Products Company, Yreka, CA.*
- Farber, S., J. Whitaker, and T. Franklin. 2003. Low detection of barred owl (Strix varia) in forestlands in interior northern California. Prepared for: The U.S. Fish & Wildlife Service for consideration during the Status Review of the Northern spotted owl. By: Timber Products Company, Yreka, CA.*
- Fehring, K.E., D.B. Adams, and D. Hatch. 2003. Northern Spotted Owls in Marin County California: 2002 Annual Report. Prepared by: Katherine E. Fehring, Point Reyes Bird Observatory, Stinson Beach, CA.*
- Fehring, K.E., D.B. Adams, and D. Hatch. 2002. Northern spotted owls in Marin County California: 2001 annual report. Prepared by: Katherine E. Fehring et. al.: Point Reyes Bird Observatory, Stinson Beach, CA.*
- Fielding, A.H. and J.F. Bell. 1997. A review of methods for the assessment of prediction errors in conservation presence/absence models. *Environmental Conservation* 24:38-49.
- Finch, D.M., J.L. Ganey, W. Yong, R.T. Kimball, and R. Sallabanks. 1997. Effects and interactions of fire, logging, and grazing. Pages 103-136 in W.M. Block and D.M. Finch, eds. *Songbird Ecology in Southwestern Ponderosa Pine Forests: A Literature Review*. Gen. Tech. Rep. RM-GTR-292, Rocky Mtn. Res. Sta., USDA For. Serv., Fort Collins, CO.

- Finn, S.P., D.E. Varland, and J.M. Marzluff. 2002. Does northern goshawk breeding occupancy vary with nest-stand characteristics on the Olympic Peninsula, Washington? *J. Raptor Res.* 36(4):265-279.
- Finn, S.P., J.M. Marzluff, and D.E. Varland. 2002. Effects of landscape and local habitat attributes on Northern Goshawk site occupancy in western Washington. *Forest Science* 48(2):427-436.
- Fitton, S.D. 1991. Vocal learning and call structure of male northern spotted owls in northwestern California. M.S. thesis, Humboldt State University, Arcata, CA.*
- Fitts, K.M. and P.T. Northen. 1991. Small mammal populations in clearcut areas of the Jackson Demonstration State Forest, Mendocino, County, California. Technical report of the CA Department of Fish and Game. Yountville, CA.*
- Fitzgerald, S.D., J.S. Patterson, M. Kiupel, H.A. Simmons, S.D. Grimes, C.F. Sarver, R.M. Fulton, B.A. Fulton, B.A. Steficek, T.M. Cooley, J.P. Massey, and J.G. Sikarskie. 2003. Clinical and pathological features of West Nile Virus infection in native North American owls (family Strigidae). *Avian Diseases* 47:602-610.
- Fleischer, R.C. 1998. Genetics and avian conservation. Pages 29-47 in (J. Marzluff and R. Sallabanks, eds.) *Avian Conservation: Research and Management*. Island Press, Washington, DC.
- Fleischer, R.C. and C.E. McIntosh. 2001. Molecular systematics and biogeography of the Hawaiian avifauna. *Studies in Avian Biology* 22:51-60.
- Fleischer, R.C., G. Fuller and D. Ledig. 1995. Genetic structure of endangered clapper rail (*Rallus longirostris*) populations in southern California. *Conservation Biology* 9:1234-1243.
- Fleming, T.L. and L.L. Irwin. 1998. 1997 Progress Report NCASI Spotted Owl Demography Study Eastern Cascades, Washington. National Council for Air and Stream Improvement, Inc.. Vancouver, WA*
- Fleming, T.L. and L.L. Irwin. 1999. 1998 Progress Report NCASI Spotted Owl Demography Study Eastern Cascades, Washington. National Council for Air and Stream Improvement, Inc.. Vancouver, WA.*
- Fleming, T.L. and L.L. Irwin. 2000. 1999 Progress Report NCASI Spotted Owl Demography Study Eastern Cascades, WA. National Council for Air and Stream Improvement, Inc.. Vancouver, WA.*
- Fleming, T.L. and L.L. Irwin. 2002. 2001 Progress Report NCASI Spotted Owl Demography Study Eastern Cascades, WA. National Council for Air and Stream Improvement, Inc.. Vancouver, WA.*
- Fleming, T.L. and L.L. Irwin. 2003. 2002 Progress Report NCASI Spotted Owl Demography Study Eastern Cascades, Washington. National Council for Air and Stream Improvement, Inc.. Vancouver, WA.*
- Fleming, T.L., J.L. Halverson, and J.B. Buchanan. 1996. Use of DNA analysis to identify sex of northern spotted owls (*Strix occidentalis caurina*). *J. Raptor Res.* 30(3):118-122.

- Fleming Tracy L., J.B. Buchanan, and L.L. Irwin. 1991. Footpad Dimorphism as a Possible Means to Determine Sex of Adult and Juvenile Northern Spotted Owls. *North American Bird Bander* 16(3).
- Fletcher, K.W. and H.E. Hollis. 1994. *Habitats used, abundance, and distribution of the Mexican spotted owl (Strix occidentalis lucida) on National Forest System Lands in the Southwestern Region.* USDA For. Serv., Southwestern Regional Office, Albuquerque, NM.
- Folliard, L. 1993. *Nest site characteristics of northern spotted owls in managed forests of northwest California.* M.S. thesis, University of Idaho, Moscow, ID.
- Folliard, L.B., K.P. Reese, and L.V. Diller. 2000. Landscape characteristics of northern spotted owl nest sites in managed forests of northwestern California. *J. Raptor Res.* 34(2):75-84.
- Folliard, L.B., L.V. Diller, and K.P. Reese. 1993. *Occurrence and nesting habitat of northern spotted owls in managed young-growth forests in northwestern California.* Abstract of presentation, general scientific program, annual meeting of The Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. *J. Raptor Res.* 27(1):69.
- Fonseca, D.M., N. Keyghobadi, C.A. Malcolm, C. Mehmet, F. Schaffner, M. Mogi, R.C. Fleischer, and R.C. Wilkerson. 2004. Emerging vectors in the *Culex pipiens* complex. *Science* 303:1535-1538.
- Ford, J. 1986. Hybrid Zones in Australian Birds. *Emu* 87:158-178.
- Forman, R.T.T. and M. Godron. 1986. *Landscape Ecology.* John Wiley & Sons, New York, NY.
- Forsman, E.D. 1976. *A preliminary investigation of the Spotted Owl in Oregon.* M.S. thesis, Oregon State University, Corvallis, OR.
- Forsman, E.D. 1977. Spotted Owl abundance in young versus old-growth forests, Oregon. *Wildlife Society Bulletin* 5:43-47.
- Forsman, E.D. 1980. *Habitat utilization by Spotted Owls in the west-central Cascades of Oregon.* Ph.D. dissertation. Oregon State University, Corvallis, OR.
- Forsman, E.D. 1981. Molt of the Spotted Owl. *The Auk* 98:735-742.
- Forsman, E.D. 1983. Methods and materials for locating and studying Spotted Owls in Oregon. Pages 1-8 in General Technical Report, PNW-GTR-162. USDA For. Serv., Pac. Northwest Forest and Range Exp. Sta. Portland, OR.
- Forsman, E.D. 1993. Demographic studies of northern spotted owls. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. *J. Raptor Res.* 27(1):54-55.
- Forsman, E.D. 1994. Demographic characteristics of spotted owls on the Olympic Peninsula, 1987-1992. *Wildlife Habitat Relationships In Western Washington And Oregon FY92.* Annual Report
- Forsman, E.D. 2000. Natal and post-natal dispersal of northern spotted owls. *Owls 2000 the Biology Conservation and Cultural Significance of Owls.* Canberra, Australia, Manning Clarke Center Australian National University.

- Forsman, E.D. Temperature regulation in the spotted owl. A Research proposal. 8 pp.
- Forsman, E.D. 2002. Lessons learned in 30 years of research and management on the northern spotted owl (*Strix occidentalis*). Pages 271-279 in I. Newton, R. Kavanagh, J. Olsen, and I. Taylor, eds., *Ecology and Conservation of Owls: Proceedings of Owls 2000 Conference*, January 19-23, 2000, Canberra, Australian Capitol Territory, Australia. CSIRO Publishing, Collingwood, Victoria, Australia.
- Forsman, E.D. 2004. Natal and post-natal dispersal of northern spotted owls. "Abstract of presentation at The 39th Annual Meeting of the Oregon Chapter of the Wildlife Society ""Bridging the Gap: Integrating Wildlife Science, Management and Policy""", Bend, OR, February 11-13, 2004. Pg 20."*
- Forsman, E.D. and R.G. Anthony. 1999. Analysis of demographic rates of northern spotted owls - executive summary. Oregon Cooperative Fish & Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Forsman, E.D. and A.R. Geise. 1997. Nests of northern spotted owls on the Olympic Peninsula, Washington. *Wilson Bulletin* 109(1):28-41.
- Forsman, E.D. and M. Raphael. 1998. The owl: spotted, listed, barred, or gone? U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR.*
- Forsman, E.D. et al. 1990-1995. Demographic characteristics of spotted owls on the Siuslaw National Forest, 1990-1995. Wildlife Habitat Relationships in Washington and Oregon FY95. Six sets of the report 1990-1995. Pacific Northwest Research Station, Corvallis, OR, and Olympia, WA.*
- Forsman, E.D. et al. 1993 Demography of the northern spotted owl. Workshop Proceedings. Fort Collins, CO. *Studies in Avian Biology* . 17. Cooper Ornithological Society. 122p
- Forsman, E.D. P. Loschl, C. McCafferty, T. Snetsinger, P. McKann, M. Larsson, A. Shovlain, G. Desy. 2002 Demographic characteristics of spotted owls in the Oregon Coast Ranges, 1990-2001. Wildlife Habitat Relationships in Washington and Oregon FY2001, Oregon State University, Corvallis, OR.*
- Forsman, E.D. M. Amos, C. Borgman, H. Jensen, D. Kelso, K. Laubenmeir, L. Page, A. Rex, and M. Wagner. 2003. Demographic characteristics of northern spotted owls (*Strix occidentalis*) on the Olympic Peninsula Study Area, Washington, 1987-2002. Wildlife Habitat Relationships in Washington and Oregon FY2002, Oregon State University, Corvallis, OR.*
- Forsman, E.D. et al. 1995. Spotted owl monitoring protocols for demographic studies. Draft Spotted Owl Survey Guidelines (rev. EDF 29 March 95). Updated periodically by E. Forsman, USDA, USFS, PNW, Corvallis. See Lint et. Al. PNW GTR 440, Appendix A. March 29, 1995.*
- Forsman, E.D. et al. Annual Reports 1987-2002. Demographic characteristics of spotted owls on the Olympic Peninsula. Pacific Northwest Research Station, Ecosystem Processes Research Program, Olympia, WA.*

- Forsman, E.D., A.R. Giese, D. Manson, S. Sovern, and D.R. Herter. 1995. Renesting by spotted owls. *Condor* 97(4):1078-1080.
- Forsman, E.D., E.C. Meslow, and H.M. Wight. 1984. Distribution and biology of the spotted owl in Oregon. *Wildlife Monographs* 87:1-64.
- Forsman, E.D., I. Otto, and A.B. Carey. U.S. Department of Agriculture, Forest Service, Pacific NW Research Station. 1991. *Diet of Spotted Owls on the Olympic Peninsula, Washington and the Roseburg District of the Bureau of Land Management. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", Portland, OR, March 29-31, 1989."*
- Forsman, E.D., I.A. Otto, and A.B. Carey. Page 527 in L. R. Ruggiero, K.B. Aubry, A.B. Carey, and M.H. Huff, technical coordinators. 1991. Diets of spotted owls on the Olympic Peninsula, Washington and the Roseburg District, Bureau of Land Management. *Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-185. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.*
- Forsman, E.D., I.A. Otto, D. Aubuchon, J.C. Lewis, S.G. Sovern, K.J. Maurice, and T. Kaminski. 1994. Reproductive chronology of the northern flying squirrel on the Olympic Peninsula, Washington. *Northwest Science* 68(4):273-276.
- Forsman, E.D., I.A. Otto, S.G. Sovern, M. Taylor, D.W. Hays, H. Allen, S.L. Roberts, and D.E. Seaman. 2001. Spatial and temporal variation in diets of spotted owls in Washington. *J. Raptor Res.* 35(2):141-150.
- Forsman, E.D., J. Reid, L. deLambert, S. Graham, and J. Mowdy. 2001. *Demographic characteristics of northern spotted owls (Strix occidentalis) on the Tyee Study Area, Roseburg, Oregon: 1985-2001. Wildlife Habitat Relationships in Washington and Oregon FY2002, Oregon State University, Corvallis, OR.*
- Forsman, E.D., J.A. Reid, S.A. Graham, J.S. Mowdy, and A.L. Price. 2002. *Wildlife Ecology Team Wildlife Habitat Relationships In Washington And Oregon FY93.*
- Forsman, E.D., K. Maurice, I.A. Otto, R. Lowell, M. Nixon, R. Forson, and J. Zisa 1992. *Demography of spotted owls on the Olympic Peninsula, Washington. Unpublished paper presented at the 62nd annual meeting of the Cooper Ornithological Society.*
- Forsman, E.D., P. Loschl, C. McCafferty, T. Snetsinger, M. Larsson, B. Meiering, D. Rosenthal, and D. Lindley. 2002. *Demographic characteristics of spotted owls in the Oregon Coast Ranges, 1990-2002. Wildlife Ecology Team Wildlife Habitat Relationships in Washington and Oregon FY2002. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR.*
- Forsman, E.D., P. Loschl, R.K. Forson, and D.K. Barrett. 1996. Demography of northern spotted owls on the Siuslaw National Forest, Oregon. *Studies in Avian Biology* 17:47-52.
- Forsman, E.D., R.G. Anthony, E.C. Meslow, and C.J. Zabel. 2004. Diets and Foraging Behavior of Northern Spotted Owls in Oregon. *J. of Raptor Res.* 38(3):214-230.
- Forsman, E.D., R.G. Anthony, E.C. Meslow, and C.J. Zabel. 2004. *Regional, local, and annual variations in diets of spotted owls in Oregon. "Abstract of presentation at*

- The 39th Annual Meeting of the Oregon Chapter of the Wildlife Society
"Bridging the Gap: Integrating Wildlife Science, Management and Policy",
Bend, OR, February 11-13, 2004. Pg 21."*
- Forsman, E.D., R.G. Anthony, J.A. Reid, P.J. Loschl, S.G. Sovern, M. Taylor, B.L. Biswell, A. Ellingson, E.C. Meslow, G.S. Miller, K.A. Swindle, J.A. Thraillkill, F.F. Wagner, and D.E. Seaman. 2002. Natal and breeding dispersal of northern spotted owls. *Wildlife Monographs* 149:35.
- Forsman, E.D., S. DeStefano, M.G. Raphael, and R.J. Gutiérrez (eds.). 1996. Demography of the northern spotted owl. *Proceedings of a Workshop*, Ft. Collins, Colorado, December 1993. *Studies in Avian Biology* . 17. Cooper Ornithological Society. Camarillo, CA.
- Forsman, E.D., S. Sovern and M. Taylor. 2001. Demography of Spotted Owls on the east slope of the Cascade Range, Washington, 1998-2001. 3 pages.*
- Forsman, E.D., S. Sovern, and M. Taylor. 2002. Demography of spotted owls on the east slope of the Cascade Range, Washington, 1989-2002. Wildlife Ecology Team Wildlife Habitat Relationships in Washington and Oregon FY2002. Annual progress report. USDA For. Serv., Pac. Northwest Res. Sta., Corvallis, OR.*
- Forsman, E.D., S.G. Sovern, D. Aubuchon. U.S. Department of Agriculture, Forest Service, Pacific NW Research Station 1991 Ecology of Spotted Owls on the Olympic Peninsula, Washington. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", Portland, OR, March 29-31, 1989."*
- Forsman, E.D., S.G. Sovern, D.E. Seaman, K.J. Maurice, M. Taylor, and J.J. Zisa. 1996. Demography of the northern spotted owl on the Olympic Peninsula and east slope of the Cascade Range, Washington. *Studies in Avian Biology* 17:21-30.
- Forsman, E.D., A.B. Franklin, F.M. Oliver, and J.P. Ward. 1996. A Color Band For Spotted Owls. *J. Field Orn.* 67:507-510.
- Forson, R.K. and J.T. Reams. 2000. Northern Spotted Owl survey of Oregon Department of Forestry lands. Final report to the Oregon Department of Forestry. Turnstone Environmental Consultants, Inc., Corvallis, OR.*
- Foster, C.C., E.D. Forsman, E.C. Meslow, G.S. Miller, J.A. Reid, F.F. Wagner, A.B. Carey, and J.B. Lint. 1992. Survival and reproduction of radio-marked adult spotted owls. *J. Wildlife Management* 56(1):91-95.
- Foster, C.C., J.A. Burns, and A.B. Carey. U.S. Department of Agriculture, Forest Service, Pacific NW Research Station. 1991. Roosting habits of the Spotted Owl in the Oregon Coast Range Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", Portland, OR, March 29-31, 1989."*
- Frankham, R., J. Ballou and D. Briscoe. 2002. *Introduction to Conservation Genetics*. Cambridge Univ. Press, MA.

- Franklin, A.B. 1990. *Analysis of timber industry density estimates for northern spotted owls in the inland Douglas fir biome of northern California. Unpublished report. Humboldt State University, Arcata, CA.*
- Franklin, A.B. 1992. *Future research directions in spotted owl population biology. Proceedings of the annual meeting of the Cooper Ornithological Society symposium, June 23, 1992. Unpublished report. Seattle, WA.*
- Franklin, A.B. 1992. Population regulation in northern spotted owls: theoretical implications for management. Pages 815-827 in D. R. McCullough and R. H. Barrett, eds. *Wildlife 2000: Populations*. Elsevier Applied Science. London, England.
- Franklin, A.B. 1997. *Factors affecting temporal and spatial variation in northern spotted owl populations in northwestern California. Ph.D. dissertation, Colorado State University, Ft. Collins, CO.*
- Franklin, A.B. and R.J. Gutiérrez. 2002. Spotted owls, forest fragmentation, and forest heterogeneity. *Studies in Avian Biology* 25:203-220.
- Franklin, A.B. and J.P. Ward. 1992. Density of northern spotted owls: a meta-analysis. Unpublished Report. Presentation at the annual meeting of the Raptor Research Foundation. November 12, 1992. Bellevue, WA.
- Franklin, A.B. J.P. Ward. 1993. *Density of Northern Spotted Owls. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):55.*
- Franklin, Alan B., J.P. Ward, R.J. Gutiérrez, and G.I. Gould, Jr. 1990. Density of northern spotted Owls in northwest California. *J. Wildlife Management* 54(1):1-10.
- Franklin, A.B., J.P. Ward, et al. 1991. *Assessing reproductive status of northern spotted owls. Unpublished draft.*
- Franklin, A.B., J.P. Ward, R.J. Gutiérrez, and B.R. Noon. 1992. *Demography of spotted owls in northwestern California. Department of Wildlife, Humboldt State University, Arcata, CA. Paper presented to Spotted Owl Symposium. Annual Meeting. Cooper Ornithological Society, June 24, 1992. Seattle, WA.*
- Franklin, A.B., D.R. Anderson, E.D. Forsman, K.P. Burnham, and F.W. Wagner. 1996. Methods for collecting and analyzing demographic data on the northern spotted owl. *Studies in Avian Biology* 17:12-20.
- Franklin, A.B., R.J. Gutiérrez, B.R. Noon, and J.P. Ward, Jr. 1996. Demographic characteristics and trends of northern spotted owl populations in northwestern California. *Studies in Avian Biology* 17:83-91.
- Franklin, A.B., K.P. Burnham, G.C. White, R.G. Anthony, E.D. Forsman, C. Schwarz, J.D. Nichols, and J. Hines. 1999. Range-wide status and trends in northern spotted owl populations. Colorado Cooperative Fish and Wildlife Research Unit, USGS, Biological Resources Division, Colorado State University, Ft. Collins, CO, and Oregon Cooperative Fish and Wildlife Research Unit, USGS, Biological Resources Division, Department of Fish and Wildlife, Oregon State University, Corvallis, OR

- Franklin, A.B., D.R. Anderson, R.J. Gutiérrez, and K.P. Burnham. 2000. Climate, habitat quality, and fitness in northern spotted owl populations in northwestern California. *Ecological Monographs* 70(4):539-590.
- Franklin, Alan B., R.J. Gutiérrez, P.C. Carlson, and D. Pavlacky. 2002. *Population Ecology of the Northern Spotted Owl in Northwestern California: Annual Results, 2001. Annual Progress Report (Contract FS/53-91S8-00-EC14) to Region 5, USDA Forest Service. Contractor: University of Minnesota, St. Paul, MN.*
- Franklin, A.B., B.R. Noon, and T.L. George. 2002. What is Habitat Fragmentation? *Studies in Avian Biology* 25:20-29. .
- Franklin, A.B., R.J. Gutiérrez, D. Pavlacky, P.C. Carlson, J. Rockwiel, W. King, R. Besser and A. Walston. 2003. *Population ecology of the northern spotted owl (Strix occidentalis caurina) in northwestern California: annual results, 2002. Contract FS/53-91S8-00-EC14) to Region 5. USDA For. Serv.. University of Minnesota (contractor), Department of Fisheries, Wildlife, and Conservation Biology, St. Paul, MN, and Colorado Cooperative Fish and Wildlife Research Unit, Colorado State University, Fort Collins, CO.*
- Franklin, A.B., R.J. Gutiérrez, J.D. Nichols, M.E. Seamans, G.C. White, G.S. Zimmerman, J.E. Hines, T.E. Munton, W.S. LaHaye, J.A. Blakesley, G.N. Steger, B.R. Noon, D.W.H. Shaw, J.J. Keane, T.L. McDonald, S. Britting. 2004. *Ornithological Monographs. No. 54. Population Dynamics of the California Spotted Owl (Strix occidentalis occidentalis): A Meta-Analysis. Ornithological Monographs* 54:1-54.
- Franklin, J.F. 1993. Preserving biodiversity: species, ecosystems, or landscapes. *Ecol. Appl.* 3:202-205.
- Franklin, J.F. 1994. Ecological science: a conceptual basis for FEMAT. *Journal of Forestry* 92(4):21-23.
- Franklin, J.F. 1995. Scientists in wonderland. *Bioscience Supplement* 1995: 74-78.
- Franklin, J.F. and C.T. Dyrness. 1973. *Natural vegetation of Oregon and Washington. USDA For. Serv. Gen. Tech. Rep. PNW-8, Pacific Northwest Research Station, Portland, OR.*
- Franklin, J.F. and T.A. Spies. 1991. Ecological Definitions of Old-Growth Douglas-Fir Forest. Pages 61-69 in PNW-GTR-285, Pac. Northwest Res. Sta., USDA For. Serv., Olympia, WA.
- Franklin, J.F. and R. Van Pelt. 2004. Spatial Aspects of Structural Complexity. *J. of Forestry* 102(3):22-27.
- Franklin, J.F., K. Cromack, Jr., W. Denison, et. al. 1981. Ecological characteristics of old-growth Douglas-fir forests. *USDA For. Serv. Gen. Tech. Rep. PNW-118. Pac. Northwest Forest and Range Exp. Sta., Portland, OR.*
- Franklin, J.F., H.H. Shugart, and M.E. Harmon. 1987. Tree death as an ecological process. *BioScience* 37: 550-556.
- Franklin, J.F., D.R. Berg, D.A. Thornburgh, and J.C. Tappeiner. 1997. Alternative silvicultural approaches to timber harvesting: variable retention harvest systems. Pages 111-139 in *Creating a Forestry for the 21st Century: the Science of*

- Ecosystem Management. K.A. Kohm and J.F. Franklin (eds.) Island Press, Washington DC.
- Franklin, J.F., D.B. Lindenmayer, J.A. MacMahon, A. McKee, J.J. Magnuson, D.A. Perry, R.B. Waide, and D.R. Foster. 2000. Threads of Continuity. *Conservation Biology in Practice* 1:9-16.
- Franklin, J.F., T.A. Spies, R. Van Pelt, A.B. Carey, D.A. Thornburgh, D. Rae Berg, D.B. Lindenmayer, M.E. Harmon, W.S. Keeton, D.C. Shaw, K. Bible and J.Chen. 2002. Disturbances and structural development of natural forest ecosystems with silvicultural implications, using Douglas-fir forest as an example. *Forest Ecology and Management* 155:399-423.
- Franzreb, K.E. 1993. Perspectives on the landmark decision designating the northern spotted owl (*Strix occidentalis caurina*) as a threatened subspecies. *Environmental Management* 17(4):445-452.
- Frederickson, R.J., A.K. English, and B.B. Moorhead. 1990. Spotted owl inventory and monitoring in Olympic National Park - 1990 progress report. U.S. Department of the Interior, National Park Service, Olympic National Park, Port Angeles, WA.*
- Fredrickson, R.J., D.E. Seaman, B.B. Moorhead, and D.B. Houston. 1992. Northern spotted owl inventory and monitoring in Olympic National Park - 1992 progress report. Unpublished progress report. U.S. Department of the Interior, National Park Service, Olympic National Park, Port Angeles, WA.*
- Fretwell, S.D. 1972. Populations in a seasonal environment. *Monographs in Population Biology* 5:1-217.
- Fryxell, J.M., J.B. Falls, E.A. Falls, and R.J. Brooks. 1998. Long-term dynamics of small-mammal populations in Ontario. *Ecology* 79(1):213-225.
- Fryxell, J.M., J.B. Falls, E.A. Falls, R.J. Brooks, L.Dix, and M.A. Strickland. 1999. Density dependence, prey dependence, and population dynamics of martens in Ontario. *Ecology* 80(4):1311-1321.
- Gaines, W.L., E.R. Garcia and J.L. Bush. Results of two years of spotted owl inventories in the Upper Skagit drainage. USFS Wildlife Department, Winthrop Ranger District, Winthrop, WA.*
- Gaines, W.L., R.A. Strand and S.D. Piper. U.S. Forest Service, Leavenworth, WA. 1997. Effects of the Hatchery Complex Fires on Northern Spotted Owls in the Eastern Washington Cascades. Proceedings - Fire Effects on Rare and Endangered Species and Habitats Conference, Nov. 13-16, 1995. Coeur d'Alene, ID.*
- Gaines, W.L., R.A. Strand, and S.D. Piper. 1997. Effects of the Hatchery Complex Fires on northern spotted owls in the eastern Washington Cascades. Pages 123-129 in Dr. J.M. Greenlee, ed. *Proceedings of the First Conference on Fire Effects on Rare and Endangered Species and Habitats*, November 13-16, 1995. International Association of Wildland Fire. Coeur d'Alene, ID.
- Ganey, J.L. 1988. Distribution and habitat ecology of Mexican spotted owls in Arizona. M.S. thesis, Northern Arizona University, Flagstaff, AZ.*
- Ganey, J.L. 1990. Calling behavior of spotted owls in northern Arizona. *Condor* 92:485-490.

- Ganey, J.L. 1992. Food habits of Mexican spotted owls in Arizona. *Wilson Bulletin* 104(2):321-326.
- Ganey, J.L. and R.P. Balda. 1989. Distribution and habitat use of Mexican Spotted Owls in Arizona. *Condor* 91:355-61.
- Ganey, J.L., R.P. Balda, and R.M. King. 1993. Metabolic rate and evaporative water loss of Mexican spotted and great horned owls. *Wilson Bulletin* 105(4):645-656.
- Garmendia, A.E., Van Kruiningen, H.J., French, R.A., Anderson, J.F., Andreadis, T.G., Kumar, A. and A.B. West. 2000. Recovery and identification of West Nile virus from a hawk in winter. *J. Clinical Microbiology* 38:3110-3111.
- Garrido, O.H. and A. Kirkconnell. 2000. *Birds of Cuba*. Comstock Publ. Cornell Univ. Press, Ithaca, NY.
- Gee, J.M. 2003. How a hybrid zone is maintained: Behavioral mechanisms of interbreeding between California and Gambel's Quail (*Callipepla Californica* and *C. Gambelii*). *Evolution* 57(10):2407-2415.
- Gehlbach, F.R. 1995. Eastern Screech-Owl. in *The Birds of North America*, No. 165. A. Poole and F. Gill, eds. Philadelphia: The Academy of Natural Sciences; Washington, DC: The American Ornithologists' Union.
- George, D. and R. Lechleitner. 1999. Mount Rainier National Park northern spotted owl inventory and monitoring program, 1997-1998. Final Report. Division of Natural and Cultural Resources. U.S. Department of the Interior, National Park Service, Mount Rainier National Park, Tahoma Woods, Star Route, Ashford, WA.*
- Gerhardt, R., P. Stacey, A. Hodgson, S. Garland, and G. Hoeltzer. 1993. Use of random amplification of polymorphic DNA (RAPD) in the analysis of metapopulation structure in Strix owls. Abstract of presentation, general scientific program, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):88.*
- Gerhardt, R.P., D.M. Gerhardt, C.J. Flatten, N.B. Gonzalez. 1994. The Food Habits of Sympatric Ciccaba Owls in Northern Guatemala. *J. Field Orni.* 65(2):258-264.
- Gibson, Daniel D. and B. Kessel. 1992. Seventy-four new avian taxa documented in Alaska, 1976-1991. *The Condor* 94:454-467.
- Gifford Pinchot National Forest Service. 1996. Programmatic Biological Assessment for Forest Management. Gifford Pinchot National Forest Service.*
- Gifford Pinchot National Forest Service. 1998 Upper Iron Timber Sale Environmental Assessment. Gifford Pinchot National Forest Service, Randle Ranger District.*
- Gilbert, F.F. and R. Allwine. 1991. Small Mammal Communities in the Oregon Cascade Range. Pages 257-267 in PNW-GTR-285, Pac. Northwest Res. Sta., USDA For. Serv., Olympia, WA.
- Gill, F. 1997. Local cytonuclear extinction of the golden-winged warbler. *Evolution* 51(2):519-525.
- Gillesberg, A. and A.B. Carey. U.S. Department of Agriculture, Forest Service, Pacific NW Research Station. 1991. Red Tree Voles in the Oregon Coast Ranges. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium*

- on *""Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships""*, Portland, OR, March 29-31, 1989."
- Gillesberg, A. and A.B. Carey 1991. Arboreal nests of *Phenacomys longicaudus* in Oregon. *J. Mammalogy* 72:784-787.
- Giusti, G.A. 1999. Wood rats and northern spotted owls in the coastal redwoods. *Journal of Forestry* 97(3):12-15.
- Glenn, E.M., M.C. Hansen, R.G. Anthony. 2004. Spotted Owl Home-Range and Habitat Use in Young Forests of Western Oregon. *J. Wildl. Man.* 68(1):33-50.
- Glenn, E.M., R. Anthony, A. Ellingson, J. Tappener, and T. Neirenberg. 2000. *Summary of northern spotted owl research on Oregon Department of Forestry Lands in the Coast Range. Oregon State University, Corvallis, OR.*
- Godwin, S.A. and D.L. Quintana-Coyer. 2004. *Great gray owls: Preliminary results from radio telemetry and vegetation sampling studies. "Abstract of presentation at The 39th Annual Meeting of the Oregon Chapter of the Wildlife Society ""Bridging the Gap: Integrating Wildlife Science, Management and Policy""*, Bend, OR, February 11-13, 2004. Pg 21."
- Goheen, E.M., E.M. Hansen, A. Kanaskie, M.G. Williams, N. Oserbauer, and W. Sutton. 2002. Sudden oak death caused by *Phytophthora ramorum* in Oregon. *Plant Disease* 86:441.
- Goldwasser, L., M. Groom, and P. Kareiva. 1993. *The effects of model structure and annual variability on population viability analyses of the northern spotted owl (Strix occidentalis caurina).* Department of Zoology, University of Washington, Seattle, WA.
- Goldwasser, L., S. Ferson, and L. Ginzburg. 2000. Variability and measurement error in extinction risk analysis: the northern spotted owl on the Olympic Peninsula. *Quantitative methods for conservation biology.* S.B. Ferson, Mark Springer-Verlag, New York, NY. i-ix:169-187.
- Gomez, D. M. 1992. Small mammal and herpetofauna abundance in riparian and upslope areas of five forest conditions. M. S. Thesis, Oregon State University, Corvallis. 118 pp.
- Gomez, D.M. and R.G. Anthony 1998. Small mammal abundance in riparian and upland areas of five seral stages in western Oregon. *Northwestern Science* 72(4):293-302.
- Gould, G.I. Jr. 1977. Distribution of the Spotted Owl in California. *Western Birds* 8:131-146.
- Gould, G.I. Jr. 1995. *Distribution and numbers of known northern spotted owl sites in California. "Paper presented at the ""Symposium on the Status and Management of the Northern Spotted Owl in California.""* at Ukiah, CA, on August 16, 1995."
- Gragg, J. and J. Ambrose. 1998. *Northern spotted owl monitoring and status report on Georgia-Pacific West, Inc. (d/b/a The Timber Company) Timberlands. 1997 progress report. [29pp.*
- Graham, R.T., A.E. Harvey, T.B. Jain, J.R. Tonn. 1999. The effects of thinning and similar stand treatments on fire behavior in western forests. USDA For. Serv. Gen. Tech. Rep. PNW-GTR-463. Pac. Northwest Res. Sta., Portland, OR.

- Grant, James. 1966. The Barred Owl in British Columbia. *Murrelet* 47:39-45.
- Graves, G.R. 1985. Elevational Correlates of Speciation and Intraspecific Geographic Variation in Plumage in Andean Forest Birds. *Auk* 102:556-579.
- Green, E.J. 1991. *Statistical critique of 1990 status review, northern spotted owl. Technical Bulletin 91-09. Washington, DC.: American Forest Resources Alliance.*
- Gremel, S. 2000. *Spotted owl monitoring in Olympic National Park: 2000 annual report. U.S. Department of the Interior, National Park Service, Olympic National Park, Port Angeles, WA.*
- Gremel, Scott. 2001. *Spotted owl monitoring in Olympic National Park: 2001 annual report. U.S. Department of the Interior, National Park Service, Olympic National Park, Port Angeles, WA*
- Gremel, S.A. 2002. *Assessing the impacts of expanding barred owl populations on the northern spotted owl in Olympic National Park, Washington. Third North American Ornithological Conference, New Orleans, LA, 24-28 Sep 2002.*
- Gremel, Scott. 2002. *Spotted owl monitoring in Olympic National Park: 2002 Annual Report. U.S. Department of the Interior, National Park Service, Olympic National Park, Port Angeles, WA.*
- Gremel, S. And D.E. Seaman. 2000. *Spotted owl monitoring in Olympic National Park: 1999 annual report. U.S. Department of the Interior, National Park Service, Olympic National Park, Port Angeles,*
- WA.Grinnell, J. and A.H. Miller. 1944. The Distribution of the Birds of California. Pacific Coast Avifauna No. 27, Cooper Ornithological Society.
- Griswold, C.K. and A.J. Baker. 2002. Time to the most recent common ancestor and divergence times of population of common chaffinches (*Fringilla coelebs*) in Europe and North Africa: insights into Pleistocene refugia and current levels of migration. *Evolution* 56:143–153.
- Groth, J.G. 1988. Resolution of cryptic species in Appalachian red crossbills. *The Condor* 90: 745-760.
- Guetterman, John H., J.A. Burns, J.A. Reid, R.B. Horn, and C.C. Foster. 1991 Radio Telemetry Methods For Studying Spotted Owls in the Pacific Northwest. USDA For. Serv. GTR-PNW-272. Pac. Northwest Res. Sta., Portland, OR.
- Gunther, P.M., B.S. Horn, and G.D. Babb. 1983. Small mammal populations and food selection in relation to timber harvest practices in the Western Cascade Mountains. *Northwest Science* 57(1):32-44.
- Gutiérrez, R.J. 1985. An overview of recent research on the spotted owl. Pages 39-49 in R.J. Gutiérrez and A.B. Carey, tech. Coords. Ecology and management of the spotted owl in the Pacific northwest. USDA For. Serv. Gen. Tech. Rep. PNW-185. Pac. Northwest Res. Sta., Portland, OR
- Gutiérrez, R.J. 1989. Hematozoa from the Spotted Owl. *J. Wildlife Dis.* 24(4):614-618.
- Gutiérrez, R.J. 1990. Genetic variation and differentiation in the spotted owl. Presented at Humboldt State University, Arcata, CA.

- Gutiérrez, R.J. 1994. Conservation Planning: Lessons From The Spotted Owl. Pages 51-58 in General Technical Report RM-GTR-247. USDA For. Serv., Rocky Mtn. Res. Sta., Ft. Collins, CO.
- Gutiérrez, R.J. 1994. Changes in the distribution and abundance of spotted owls during the past century. *Studies in Avian Biology* 15:293-300.
- Gutiérrez, R.J. 1996. Biology and distribution of the northern spotted owl. *Studies in Avian Biology* 17:2-5.
- Gutiérrez, R.J. and A.B. Carey, tech. eds. 1985. Ecology and management of the spotted owl in the Pacific Northwest. USDA For. Serv. Gen. Tech. Rep. PNW-185. Pac. Northwest Res. Sta., Portland, OR.
- Gutiérrez, R.J. and S. Harrison. 1996. Applying metapopulation theory to spotted owl management: a history and critique. Pages 167-185 in D.R. McCullough, ed. *Metapopulations and Wildlife Conservation*. Island Press, Washington, DC.
- Gutiérrez, R.J. and R.G. Tanner. 1994. A partial inventory of northern spotted owls (Strix occidentalis caurina) in Redwood National Park, 1993. Humboldt State University, Arcata, CA.*
- Gutiérrez, R.J. and R.G. Tanner. 1995. A partial inventory of northern spotted owls in Redwood National Park, 1994 Annual Report. Annual Report to: National Park Service, Redwood National Park, Cooperative Agreement No. CA 8480-3-9005. Contractor: Humboldt State University. Arcata, CA*
- Gutiérrez, R.J. and R.G. Tanner. 1996. An inventory of northern spotted owls (Strix occidentalis caurina) in Redwood National and State parks, 1995. Annual and summary report. Cooperative Agreement No. CA 8480-3-9005. U.S. Department of the Interior, National Park Service, Redwood National Park, Arcata, CA.*
- Gutiérrez, R.J. and T. Ting. 1996. Revisiting the territories of northern spotted owls (Strix occidentalis caurina) in Redwood National Park, 1996. Final report. Cooperative Agreement No. CA-8480-3-9005. U.S. Department of the Interior, National Park Service, Redwood National Park, Arcata, CA.*
- Gutiérrez, R.J., A.B. Franklin, W. La Haye, V.J. Meretsky, and J.P. Ward. 1985. Juvenile Spotted Owl dispersal in northwestern California: preliminary analysis. Pages 60-65 in Gutiérrez R.J., Carey A.B., eds. *Ecology and management of the Spotted Owl in the Pacific Northwest*. USDA For. Serv. GTR-PNW-185. Portland, OR.
- Gutiérrez, R.J., J. Verner, K.S. McKelvey, B.R. Noon, G.N. Steger, D.R. Call, W.S. LaHaye, B.B. Bingham, and J.S. Senser. 1992. Habitat relations of the California spotted owl. Pages 79-98 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. USDA For. Serv., Pac. Southwest Res. Sta., PSW-GTR-133, Albany, CA.
- Gutiérrez, R.J., A.B. Franklin and P.C. Carlson. 1995. Population ecology of the northern spotted owl (Strix occidentalis caurina) in northwestern California: annual results, 1994. Annual Progress Report (Contract #53-91S8-4-FW20) to Region 5, USDA Forest Service. Contractor: Humboldt State University, Arcata, CA.*

- Gutiérrez, R.J., A.B. Franklin, and W.S. LaHaye. 1995. Spotted owl (*Strix occidentalis*). in A. Poole and F. Gill, eds. The birds of North America, No. 179. The Academy of Natural Sciences and The American Ornithologists' Union, Washington, DC.
- Gutiérrez, R.J., E.D. Forsman, A.B. Franklin, and E.C. Meslow. 1996. History of demographic studies in the management of the northern spotted owl. *Studies in Avian Biology* 17:6-11.
- Gutiérrez, R.J., J.E. Hunter, G. Chávez-león, and J. Price. 1998. Characteristics of spotted owl habitat in landscapes disturbed by timber harvest in northwestern California. *J. Raptor Res.* 32(2):104-110.
- Ha, C.G. 2001. West Nile Virus: Uganda, 1937, to New York City, 1999. *Annals of the New York Academy of Sciences* 951:25-37.
- Ha, J.P., S.S. Chan, W.H. Emmingham, J.C. Tappeiner, L.D. Kellogg, and J.D. Bailey. 1997. Wildlife response to thinning young forests in the Pacific Northwest. *J. Forestry.* 95:28-33.
- Hadland, S. and M. Henderson. 1998. Habitat quality, safety and access evaluation of northern spotted owl survey routes (Kamloops Forest Region). Unpublished report. British Columbia Ministry of Environment, Lands and Parks, Kamloops, BC, Canada.*
- Haig, S.M. and F.W. Allendorf. 2004. Listing and Protection of Hybrids Under The U.S. Endangered Species Act. "in F. Davis, D.D. Goble, G. Heal, and J.M. Scott, eds. Chapter prepared for ""The Endangered Species Act at Thirty: Lessons and Prospects"" edited by F. Davis, D.D. Goble, G. Heal, and J.M. Scott. Island Press, New York, NY."
- Haig, S.M. and T.D. Mullins. In prep. Metapopulation genetic structure and status listing in spotted owls. Submitted to Conservation Biology (9/28/98).*
- Haig, S.M., R.S. Wagner, E.D. Forsman, and T.D. Mullins. 2001. Geographic variation and genetic structure in Spotted Owls. *Conservation Genetics* 2(1):25-40.
- Haig, S.M., T.D. Mullins, E.D. Forsman, P.W. Trail, and L. Wennerberg. 2004. Genetic Identification of Spotted Owls, Barred Owls, and Their Hybrids: Legal Implications of Hybrid Identity. USGS Forest and Rangeland Ecosystem Science Center, Corvallis, OR.
- Haig, S.M., T.D. Mullins, E.D. Forsman. 2004. Subspecific Relationships and Genetic Structure in the Spotted Owl. USGS Forest and Rangeland Ecosystem Science Center, Corvallis, OR.
- Hakkarainen, H. and E. Korpimäki. 1991. Reversed Sexual Size Dimorphism in Tengmalm's Owl: Is Small Male Size Adaptive? *OIKOS* 61:337-346.
- Hallett, J.G., M.A. O'Connell, and C.C. Maguire. 2003. Ecological relationships of terrestrial small mammals in western coniferous forests. Chapter 5 in C.J. Zabel and R.G. Anthony, eds., *Mammal Community Dynamics: Management and Conservation in the Coniferous Forests of Western North America*. Cambridge University Press: Cambridge, England.
- Halpern Charles B., S.A. Evans, C.R. Nelson, D. McKenzie, D.A. Liguori, D.E. Hibbs, and M.G. Halaj. 1999. Response of forest vegetation to varying levels and

- patterns of green-tree retention: An overview of a long-term experiment. Northwest Science 73, Special Issue:27-44.
- Halpern, C.B. and D. McKenzie. 2001. Disturbance and post-harvest ground conditions in a structural retention experiment. Forest Ecology and Management 154:215-225.
- Hamer, T.E. 1988. *Home Range Size of the Northern Barred Owl and Northern Spotted Owl in Western Washington*. M.S. thesis, Western Washington University, Bellingham, WA.
- Hamer, T.E. and K. Nelson. 1998. *The effects of disturbance on marbled murrelets: summary of preliminary results*. Hamer Environmental, Mt Vernon, WA.
- Hamer, T.E., D.L. Hays, C.M. Senger and E.D. Forsman. 2001. Diets of northern barred owls and northern spotted owls in an area of sympatry. J. Raptor Res. 35(3):221-227.
- Hamer, T.E., E.D. Forsman, A.D. Fuchs, and M.L. Walters. 1993. *Hybridization between barred and spotted owls*. Abstracts of presentations made at the annual meeting of the Raptor Research Foundation, Inc., held at Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):72.
- Hamer, T.E., E.D. Forsman, A.D. Fuchs, and M.L. Walters. 1994. Hybridization between barred and spotted owls. Auk 111(2):487-492.
- Hamer, T.E., S.G. Seim, and K.R. Dixon. 1989. *Northern spotted owl and northern barred owl habitat use and home range size in Washington: preliminary report*. Wash. Department of Wildlife, Olympia, WA.
- Hamm, K.A. 1995. *Abundance of dusky-footed woodrats in managed forests of north coastal California*. M.S. thesis, Humboldt State University, Arcata, CA.
- Hamm, K.A. and L.V. Diller. Unpub. Draft. *Forest age and silviculture effects on abundance of dusky-footed woodrats in coastal northern California*. Unpublished draft. Simpson Resource Company, Korbel, CA.
- Hamm, K.A., L.V. Diller, and D.W. Kitchen. 2002. Comparison of indices to estimate abundance of dusky-footed woodrats. Wildlife Society Bulletin. 30(1):64-70.
- Haney, J. Christopher. 1997. Spatial incidence of barred owl (*Strix varia*) reproduction in old-growth forest of the Appalachian Plateau. J. Raptor Res. 31:241-252.
- Hanson, E.E., D.W. Hays, L.L. Hicks, L.Young, and J.B. Buchanan. 1993. *Spotted owl habitat in Washington: a report to the Washington Forest Practices Board*. Final report by the Washington Forest Practices Board Spotted Owl Advisory Group. Olympia, WA.
- Harestad, A., J. Hobbs, and I. Blackburn. 2004. Précis of the Northern Spotted Owl in British Columbia. Pages. 12-14 in Zimmerman, K., K. Welstead, E. Williams, J. Turner, eds. Northern Spotted Owl Workshop Proceedings. Forrex Series (online No. 14), Vancouver, BC, Canada.
- Harrington, C.A. 2003. *The 1930s Survey of Forest Resources in Washington and Oregon*. Gen. Tech. Rep. PNW-GTR-584, Pac. Northwest Res. Sta., USDA For. Serv., Portland, OR.

- Harrison, S., A. Stahl, and D. Doak. 1993. Spatial models and spotted owls: exploring some biological issues behind recent events. *Conservation Biology* 7(4):950-953.
- Harvell, C.D., C.E. Mitchell, J.R. Ward, S. Altizer, A.P. Dobson, R.S. Ostfeld, and M.D. Samuel. 2002. Climate warming and disease risks for terrestrial and marine biota. *Science* 296:2158-2162.
- Harvey, R.D., Jr. and P.F. Hessburg, Sr. 1992. *Long-range planning for developed sites in the Pacific Northwest: the context of hazard tree management*. U. S. Department of Agriculture
- Hatch, D., G. Geupel, et al. 1999. *Modified Spotted Owl survey protocols to reduce human/owl interactions*. Point Reyes Bird Observatory, Point Reyes, CA.
- Haveri, Bruce A. and A.B. Carey 2000. Forest management strategy, spatial heterogeneity, and winter birds in Washington. *Wildlife Society Bulletin* 28(3):643-652.
- Hayes, J. P. and S. P. Cross. 1987. Characteristics of logs used by western red-backed voles, *Clethrionomys californicus*, and deer mice, *Peromyscus maniculatus*. *The Canadian Field-Naturalist*, 101:543-546.
- Hayward, G.D. and R. Rosentreter. 1994. Lichens as nesting material for Northern flying squirrels in the northern Rocky Mountains. *J. Mammalogy* 75:663-673.
- Hayward, G.D., P.H. Hayward. 1995. Relative Abundance and Habitat Associations of Small Mammals in Chamberlain Basin, Central Idaho. *Northwest Science* 69(2):114-125.
- Hayward, G.D., S.H. Henry, and L.F. Ruggiero. 1998. Response of Red-Backed Voles to Recent Patch Cutting in Subalpine Forest. *Conservation Biology* 13(1):168-176.
- Hemstrom, M. and M.G. Raphael. 1998. Late-successional forest and northern spotted owls: How effective is the Northwest Forest Plan? in Hansen, M.T. Burk, ed. General Technical Report NC 212:283-291. USDA For. Serv., North Central Exp. Sta., St. Paul, MN.
- Hemstrom, M., T. Spies, C. Plamer, R. Kiester, J. Teply, P. McDonald, and R. Worthington. 1998. Late-successional and old-growth forest effectiveness monitoring plan for the Northwest Forest Plan. General Technical Report PNW-GTR-438. USDA For. Serv., Pac. Northwest Res. Sta.. Portland, OR.
- Henderson, J.A. 1990. *Trends in amount of old-growth forest for the last 1,000 years in western Oregon and Washington*. Unpublished report. U. S. Department of Agriculture, Forest Service.
- Henderson, J.A., D.H. Peter, R.D. Leshner, D.C. Shaw. 1989. Forested plant associations of the Olympic National Forest. USDA For. Serv. Pac. Northwest Region Technical Paper R6 ECOL TP 001-88.
- Henderson, M. and A. Grant. 1999. *Inventory and monitoring of the northern spotted owl (*Strix occidentalis caurina*) in the Kamloops Forest Region*. Unpublished report. British Columbia Conservation Foundation, Kamloops, BC, Canada.
- Henke, A. and T. Chi. 2003. *Northern spotted owl (*Strix occidentalis caurina*) survey results from the Mendocino National Forest, 2002 - Draft*. Submitted by: Henke and Chi, M.S. Candidates, San Jose State University, San Jose, CA. Submitted to: State Supervisor, Oregon Fish and Wildlife Office, Portland, OR.

- Henke, A.L., T. Chi, C. Brinegar, and J. Smith. 2003. *Preliminary Microsatellite Analysis of Two Populations of Northern Spotted Owls*. In: *Northern Spotted Owl Survey Results From Mendocino National Forest*. Department of Biological Sciences, Conservation Genetics Lab, San Jose State University, San Jose, CA.
- Henke, A.L., T.Y. Chi, J. Smith, C. Brinegar. Draft. *Microsatellite Analysis of Northern and California Spotted Owls in California*. Conservation Genetics Laboratory, Department of Biological Sciences, San Jose State Univ., San Jose, CA.
- Hershey, K.T. 1995. *Characteristics of forests at spotted owl nest sites in the Pacific Northwest*. M.S. thesis, Oregon State University, Corvallis, OR.
- Hershey, K.T. and E.C. Meslow, et al. 1997. Landscape composition and pattern around northern spotted owl nest sites in southwest Oregon. *J. Wildlife Management* 61(1):151-158.
- Hershey, K.T., E.C. Meslow, and F.L. Ramsey. 1998. Characteristics of forests at spotted owl nest sites in the Pacific Northwest. *J. Wildlife Management* 62(4):1398-1410.
- Herter, D.R. 1992. *Progress Report. September- December 1992. Plum Creek Spotted Owl Monitoring Program*. Raedeke Associates Scientific Consulting for Plum Creek Timber Company, Seattle, WA.
- Herter, D.R. 1992. *Progress Report. 15 December 1991 - 15 January 1992. Spotted Owl Monitoring Program*. Raedeke Associates Scientific Consulting for Plum Creek Timber Company, Seattle, WA.
- Herter, D.R. *Plum Creek Spotted Owl Monitoring Program 1997-1998*.
- Herter, D.R. 1998. *Plum Creek Spotted Owl Monitoring Program 1997-1998*. Raedeke Associates Scientific Consulting for Plum Creek Timber Company, Seattle, WA.
- Herter, D.R. and L.L. Hicks. 1994. *Northern spotted owl surveys and demography in the Plum Creek Cascades Habitat Conservation Plan (HCP) Area*. Unpublished Report. Raedeke Associate, Inc., Seattle, WA.
- Herter, D., D. Garcia, C. Holloway, M. Melde, and L. Danielski. 2002. *Rainier spotted owl demography study area: 2002 annual report*. Raedeke Associates, Inc., Seattle, WA
- Herter, Dale R. and L.L. Hicks. 2000. Barred owl and spotted owl populations and habitat in the central Cascade Range of Washington. *J. Raptor Res.* 34(4):279-286.
- Herter, D.R., L.L. Hicks, H.C. Stabins, J.J. Millspaugh, A.J. Stabins, and L.D. Melampy. 2002. Roost site characteristics of northern spotted owls in the nonbreeding season in central Washington. *Forest Science* 48(2):437-446.
- Herter, D.R., L.L. Hicks, H.C. Stabins, J.J. Millspaugh, A.J. Stabins, and L.D. Melampy. 2002. Roost site characteristics of northern spotted owls in the nonbreeding season in central Washington. Pages 259-266 in S. DeStefano and R.G. Haight, editors. *Forest Wildlife-Habitat Relationships: population and community responses to forest management*. Society of American Foresters, Bethesda, MD.
- Hessburg, P.F., R.G. Mitchell, and G.M. Flip. 1994. Historical and current roles of insects and pathogens in eastern Oregon and Washington forested landscapes.

- PNW-GTR-327. Portland, OR. USDA For. Serv. Pac. Northwest Res. Sta., Portland, OR.
- Hicks, L.L. and D.R. Herter. 1992. *Northern spotted owl demography and habitat study in the I-90 Corridor, Snoqualmie Pass Area, Washington. Study Plan. Plum Creek Timber Company and Raedeke Associates, Inc., Seattle, WA.*
- Hicks, L.L. and D.R. Herter. 1994. *Northern spotted owl demography and habitat studies in the I-90 Corridor, central Cascade Range, Washington. Annual Report 1993. Unpublished 1993 annual report. Plum Creek Timber Company and Raedeke Associates, Inc., Seattle, WA.*
- Hicks, L.L. and D.R. Herter. 1996. *Spotted owl and northern goshawk home range and demography studies in the I-90 corridor. 1995 annual report.*
- Hicks, L.L. and D.R. Herter. 2000. *Northern spotted owl research in the central Cascade Range, Washington. 2000 annual report. Unpublished progress report. Plum Creek Timber Company, L.P., and Raedeke Associates, Inc., Seattle, WA.*
- Hicks, L.L. and D.R. Herter. 2002. *Northern spotted owl research in the central Cascade Range, Washington. 2001 annual report. Unpublished progress report. Plum Creek Timber Company, L.P., and Raedeke Associates, Inc., Seattle, WA.*
- Hicks, L.L. and D.R. Herter. 2003. *Northern spotted owl research in the central Cascade Range, Washington. 2002 annual report. Unpublished progress report. Plum Creek Timber Company, L.P., and Raedeke Associates, Inc., Seattle, WA.*
- Hicks, L.L. and H.C. Stabins. 1995. *Spotted owl habitat descriptions for Plum Creek's Cascades Habitat Conservation Plan. Technical Report No. 4, unpublished, in: Plum Creek Timber Company Habitat Conservation Plan for Lands in the I-90 Corridor, King and Kittitas Counties, Washington. Plum Creek Timber Company, L.P. Seattle, WA.*
- Hicks, L.L., H.C. Stabins, et al. 1995. *Spotted owl home range and habitat use in the Plum Creek Habitat Conservation Plan Area. Plum Creek HCP- Northern Spotted Owl Home range and habitat use. Technical Report No. 5 in Plum Creek Timber Company Habitat Conservation Plan for Lands in the I-90 Corridor, King and Kittitas Counties, Washington. Plum Creek Timber Company, L.P. Seattle, WA.*
- Hicks, L.L., H.C. Stabins, and D.R. Herter. 1997. *Northern spotted owl, northern goshawk, and amphibian research in the I-90 corridor. 1997 annual report.*
- Hicks, L.L., H.C. Stabins, and D.R. Herter. 1999. *Designing spotted owl habitat in a managed forest. J. Forestry 97(7):20-25.*
- Hicks, L.L., H.C. Stabins, and D.R. Herter. 1997. *Northern spotted owl and small mammal research in the I-90 corridor. 1996 annual report. 1996 annual report. Scientific Collection Permit No. WM-0099.*
- Hicks, L.L., H.C. Stabins, and D.R. Herter. 1999. *Northern spotted owl, northern goshawk, and great gray owl surveys and research in Washington. 1999 annual report.*
- Hicks, L.L., D.R. Herter, and R. Early. 2001. *Northern spotted owl demographic monitoring and modeling – 5 year summary report. Plum Creek Cascades Habitat Conservation Plan, May 21, 2002.*

- Hicks, L.L., D.R. Herter, and R. Early. 2003. Clines in life history characteristics of the spotted owl in Washington. *Northwestern Naturalist* 84:57-67.
- Hicks, L.L., B.F.J. Manly, D.R. Herter, R.J. Early, and H.C. Stabins. In Review. A resource selection probability function for the northern spotted owl in Plum Creek's central Cascade habitat conservation plan. Proceedings of the Third International Wildlife Management Congress.
- Hijmans, R.J., S. Cameron, J. Parra. 2004 *WorldClim WorldClim, version 1.2. A square kilometer resolution database of global terrestrial surface climate. Available from <http://biogeo.berkeley.edu/> (accessed April 2004).*
- Hines, James E. and J.D. Nichols. 2002. Investigations of potential bias in the estimation of λ using Pradel's (1996) model for capture-recapture data. *J. Applied Statistics* 29(1-4):573-587.
- Hirons, G.J.M. 1982. The effects of fluctuations in rodent numbers on breeding success in the Tawny Owl *Strix aluco*. *Mammal Review* 12:155.
- Hoberg, E.P., G.S. Miller, E. Wallner-Pendleton, and O.R. Hedstrom. 1989. Helminth parasites of Northern Spotted Owls (*Strix occidentalis caurina*) from Oregon. *J. Wildlife Dis.* 25(2):246-251.
- Hoberg, E.P., R.J. Cawthorn, and O.R. Hedstrom. 1993. Enteric coccidia (Apicomplexa) in the small intestine of the northern spotted owl (*Strix occidentalis caurina*). *J. Wildlife Dis.* 29(3):495-497.
- Hof, J. and M.G. Raphael. 1997. Optimization of habitat placement: a case study of the northern spotted owl in the Olympic Peninsula. *Ecological Applications* 7(4):1160-1169.
- Holt, Denver W., R. Domenech, and A. Paulson. 2001. Status and Distribution of the Barred Owl in Montana. *Northwestern Naturalist*, 82:102-110.
- Holthausen, R.S., M.G. Raphael, K.S. McKelvey, E.D. Forsman, E.E. Starkey and D.E. Seaman. 1995. The contribution of Federal and non-federal habitat to persistence of the northern spotted owl on the Olympic Peninsula, Washington: report of the Reanalysis Team. General Technical Report PNW-GTR-352. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Hooven, E.F. and H.C. Black. 1976. Effects of some clearcutting practices on small-mammal populations in western Oregon. *Northwest Sci.* 50:189-208.
- Hopkins, D.S., W.D. Logan, and E.D. Forsman. 1996. Demography of northern spotted owls on the Salem District of the Bureau of Land Management in northwestern Oregon. *Studies in Avian Biology* 17:31-36.
- Horoupian, N. 1998. *Diet of northern spotted owls in British Columbia. Unpublished student report. Department of Biological Sciences, Simon Fraser University, Burnaby, BC, Canada.*
- Horoupian, N., C.B. Lenihan, A. Harestad and I.R. Blackburn. DRAFT. *Diet of Northern Spotted Owls in British Columbia. Horoupian, N., C.B. Lenihan, A. Harestad and I.R. Blackburn. 2000. Simon Fraser University, Department of Biological Sciences. 11 pp.*

- Horton, S.P. 1996. Spotted owls in managed forests of western Oregon and Washington, *Raptors in Human Landscapes*. in J. Smith, ed., Academic Press Ltd. 221-229. Academic Press Ltd.: 215-231.
- Horton, S. and J.B. Buchanan. 2000. A plan for validation monitoring: spotted owl conservation strategy for the Olympic Experimental State Forest. (second draft). Washington Department of Natural Resources, Olympia, WA.
- Horton, S.P., A.B. Carey, J.A. Reid, and R.B. Horn. U. S. Department of Agriculture, Forest Service, Pacific NW Research Station 1991 Spotted Owl home ranges in five landscapes. *Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991*. "Abstract of presentation, Symposium on ""Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships""", Portland, OR, March 29-31, 1989.
- Howell, S.N.G., S. Webb. 1995. A Guide to the Birds of Mexico and Northern Central America. Pages 353-370 in A guide to the birds of Mexico and Northern Central America. Oxford University Press, Oxford, England.
- Howell, S.N.G. 1999. A bird-finding Guide to Mexico.
- Howell, Steve N.G. 1999. A Bird-Finding Guide to Mexico. Comstock Publishing Associates, A Division of Cornell University Press, Ithaca, NY. pp 104-106.
- Hubbs, C.L. 1955. Hybridization between Fish Species in Nature. *Systematic Zoology* 4(1):1-20.
- Hudson, R.R. 1990. Gene genealogies and the coalescent process. *Oxford Surveys of Evolutionary Biology* 7:1-44.
- Huff, M.H., R.S. Holthausen, and K.B. Aubry. 1992. Habitat Management for Red Tree Voles in Douglas-Fir Forests. General Technical Report PNW-GTR-302. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Huff, R.D. 1995. *Biological Assessment FY95/96 Timber Sale and Other Projects, Mt. Hood National Forest*. Huff, Robert D. *Biological Assessment FY 95/96. 1995. Mt. Hood National Forest. 29 pp.*
- Hunsaker, C.T., B.B. Boroski, and G.N. Steger. 2002. Relations between canopy cover and the occurrence and productivity of California spotted owls. Pages 687-700 in J.M. Scott, P.J. Heglund, M.M. Morrison, J.B. Haufler, M.G. Raphael, W.A. Wall, and F.B. Samson, eds. *Predicting Species Occurrences: Issues of Accuracy and Scale*. Island Press, Washington DC.
- Hunter, B., A.Y. Gancz, L.K. Barker, and R. Lindsay. 2003. West Nile Virus die-off in captive North American owls in Ontario, Canada. *Wildlife Disease Association Conference, Saskatoon, SK, Canada.*
- Hunter, J.E. 1994. *Habitat configuration around spotted owl nest and roost sites in northwestern California. M.S. thesis, Humboldt State University, Arcata, CA.*
- Hunter, J.E. and M.L. Bond. 2001. Residual trees: wildlife associations and recommendations. *Wildlife Society Bulletin* 29(3):995-999.
- Hunter, J.E., C. Jewett and A. Padilla. 1993. Kleptoparasitism of northern spotted owls. *Northwestern Naturalist* 74(1):28-29.

- Hunter, J.E., R.J. Gutiérrez, A.B. Franklin, and D. Olson. 1994. Ectoparasites of the spotted owl. *J. Raptor Res.* 28(4):232-235.
- Hunter, J.E., R.J. Gutiérrez, and A.B. Franklin. 1995. Habitat configuration around spotted owl sites in northwestern California. *Condor* 97(3):684-693.
- Ibanez, C., C. Ramo and B. Busto. 1992. Notes on Food Habits of the Black and White Owl. *Condor* 94:529-531.
- Ingles, L.G. 1965. *Mammals of the Pacific States*. Stanford University Press, Palo Alto, CA.
- Interagency Scientific Committee. 1991. An owl conservation strategy that works. *Journal of Forestry* 89:23-26.
- Interagency SEIS Team. U.S. Department of Agriculture, U.S. Department of the Interior, U.S. Department of Commerce, and the Environmental Protection Agency. 1993. *Forest Ecosystem Management: An Ecological, Economic, and Social Assessment*. Report of the Forest Ecosystem Management Assessment Team. U.S. Forest Service, Fish and Wildlife Service, National Marine Fisheries Service, National Park Service, Bureau of Land Management, Environmental Protection Agency. Interagency SEIS Team, Portland, OR.
- Irwin, D.E., P. Astrom, U. Olsson, and Z.M. Benowitz-Fredericks. 2001. Cryptic species in the genus *Phylloscopus* (Old World leaf warblers). *Ibis* 143:233-247.
- Irwin, L.L. 1990. *An active process for conservation of northern spotted owls. Unpublished report to Secretary of Agriculture Task Force Committee to develop alternatives for Northern Spotted Owls. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. 1990. *Can spotted owl habitat be managed? Proceedings of the Western Forestry Conference* 23:29-30.
- Irwin, L.L. 1992. *Relations among suitable habitat, risk of wildfire, and demographic patterns of northern spotted owls on the eastern slope of the Cascade Mountains, Washington. Unpublished report. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. 1992. *Relations among suitable habitat, fire management analysis zones, demographic patterns of northern spotted owls on the eastern slope of the Cascade Mountains, Washington. Unpublished summary to update annual progress report [Irwin et al. 1992]. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. 1993. *Management activities on private timberlands and industry-supported research on northern spotted owls. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res.* 27(1):55.
- Irwin, L.L. 1998. *What comprises habitat for the Chickahominy owls? Unpublished report for Federal Court. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. 2003. *Habitat Relationships of Northern Spotted Owls. Unpublished report. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*

- Irwin, L.L. and T.L. Fleming. 1994. *Demography of spotted owls in managed and reserved forests of the eastern Cascade Mountains, Washington. Unpublished annual report (1993 field season). National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. and T.L. Fleming. 1995. *Demography of spotted owls in managed and reserved forests of the eastern Cascade Mountains, Washington. Unpublished annual report (1994 field season). National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. and T.L. Fleming. 1997. *Demography of spotted owls in Washington's eastern Cascades: 1990-1996. Unpublished National Council for Air and Stream Improvement, Inc., Report*
- Irwin, L.L. and T.L. Fleming. 2000. *Environmental correlates of spotted owl population performance in Washington's eastern Cascades, Progress Report, March 2001.*
- Irwin, L.L. and L.L. Hicks. 1995. *Estimating carrying capacity for spotted owls in the Snoqualmie Pass HCP Planning Area, Washington. Cascades Habitat Conservation Plan, Plum Creek Timber Company, Seattle, WA.*
- Irwin, L.L. and L.L. Hicks. 1995. *Estimating potential impacts of timber harvesting on spotted owls in the Plum Creek Cascades HCP project area. Technical Report 6. Plum Creek Timber Company, Seattle, WA.*
- Irwin, L.L. and L.L. Hicks. 1995. *Assessment of methods for estimating potential impacts of timber harvesting on spotted owls in the Plum Creek Cascades HCP project area. Appendix 10 in: Cascades Habitat Conservation Plan, Plum Creek Timber Company, Seattle, WA.*
- Irwin, L.L. and D.F. Rock. 1998. *Adaptive management monitoring of northern spotted owls. Study Plan. February 23, 1998. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. and D.F. Rock. 2002. *Adaptive management monitoring of northern spotted owls: interim report and addendum to study plan. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. and D.F. Rock. 2003. *Adaptive management monitoring of northern spotted owls: interim report and addendum to study plan. August 2003. Interim copy. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L. and J.W. Thomas. 2002. *Policy conflicts relative to managing fire-adapted forests on federal lands: the case of the northern spotted owl. Chapter 10 in S.A. Fitzgerald, editor. Fire in Oregon's forests: risks, effects and treatment options. Extension Forestry Program, Oregon State University, Corvallis, OR.*
- Irwin, L.L., S.K. Martin, T.L. Fleming, and J.B. Buchanan. 1990. *Demography of Spotted owls in managed and unmanaged forests in the Wenatchee National Forest. Study Plans. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Irwin, L.L., J.B. Buchanan, T.R. Fleming, and S.M. Speich. 1991. *Spotted owl presence in managed forests of southwestern Washington. Technical Bulletin No. 602. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*

- Irwin, L.L., T.L. Fleming, S.M. Speich, and J.B. Buchanan. 1991. Spotted owl presence in managed forests of southwestern Washington. Technical Bulletin No. 601. National Council for Air and Stream Improvement, Inc., Corvallis, OR.
- Irwin, L.L., S.K. Martin, T.L. Fleming, and J.B. Buchanan. 1991. Demography of spotted owls in managed and unmanaged forests on the east slope of the Cascade Mountains, Washington. 1990 annual report. National Council for Air and Stream Improvement, Inc., Corvallis, OR.
- Irwin, L.L., D.F. Rock, T.D. Wallace, and G.P. Miller. 1992. Habitat structure of stands used by spotted owls for foraging in managed and fire-regenerated forests, western Oregon. Unpublished manuscript. National Council for Air and Stream Improvement, Inc., Corvallis, OR.
- Irwin, L.L., S.K. Martin, T.L. Fleming, and J.B. Buchanan. 1992. Demography of spotted owls in managed and unmanaged forests on the east slope of the Cascade Mountains, Washington. 1991 annual report. National Council for Air and Stream Improvement, Inc., Corvallis, OR.
- Irwin, L.L., D.F. Rock, and S. Rock. 1999. Adaptive management monitoring of northern spotted owls. Annual Progress Report - December 1999. National Council for Air and Stream Improvement, Inc., Corvallis, OR, and Northwest Economic Associates, Vancouver, WA
- Irwin, L.L., D.F. Rock, and G.P. Miller 2000. Stand structures used by northern spotted owls in managed forests. J. Raptor Res. 34(3):175-186.
- Irwin, L.L., D.F. Rock, and S. Rock. 1999. Adaptive management monitoring of northern spotted owls. Annual Progress Report - March 1999. National Council for Air and Stream Improvement, Inc., Corvallis, OR, and Northwest Economic Associates, Vancouver, WA.
- Irwin, L.L., D.F. Rock, and S. Rock. 2000. Adaptive management monitoring of northern spotted owls. Annual Progress Report - December 2000. National Council for Air and Stream Improvement, Inc., and Northwest Economic Associates, Vancouver, WA.
- Irwin, L.L., D.F. Rock, and S. Rock. 2002. Adaptive management monitoring of northern and California spotted owls. Annual progress report - January 2002. National Council for Air and Stream Improvement, Inc., Corvallis, OR, and Northwest Economic Associates, Vancouver, WA.
- Irwin, L.L., L.A. Clark, and D. Rock. 2002. Habitat selection by California spotted owls in mixed-conifer forests. National Council for air and Stream Improvement, Inc. Corvallis, OR.
- Irwin, L.L., D. Rock, and S. Rock. 2003. Adaptive management monitoring of spotted owls: Annual progress report January 2003. National Council for air and Stream Improvement, Inc. Corvallis, OR.
- Irwin, L.L., D. Rock, S. Rock. 2004. Adaptive Management Monitoring of Spotted Owls, 2004 Annual Progress Report. National Council for Air and Stream Improvement, Inc. Vancouver, WA. 47 pp.
- Irwin, L.L., D.F. Rock, et al. Foraging habitat of northern spotted owls in young and mid-successional forests in western Oregon (Draft).

- Irwin, L.L., T.L. Flemming, and J. Beede. *In Press. Are spotted owl populations sustainable in fire-prone forests? J. Sustainable Forestry - review copy*
- Islam, K., M.C. Hansen, and R.G. Anthony. 1997. *Relationships between demography of northern spotted owls and habitat characteristics at the landscape level on Oregon Department of Forestry lands. Final report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Research Unit. Department of Fish and Wildlife, Oregon State University. Corvallis, OR.*
- Isler, M.L., J.A. Alonso, P.R. Isler, T. Valqui, A. Begazo, and B.M. Whitney. 2002. Rediscovery of a cryptic species and description of a new subspecies in the *Myrmeciza hemimelaena* Complex (Thamnophilidae) of the neotropics. *The Auk* 119(2):362-378.
- IUCN. 2001. IUCN red list categories and criteria: version 3.1. IUCN Species Survival Commission. IUCN, Gland, Switzerland and Cambridge, UK.
- Iverson, W.F. 1993 *Is the barred owl displacing the spotted owl in western Washington? M.S. thesis, Western Washington University, Bellingham, WA.*
- Iverson, Wayne F. 1993. Is the barred owl displacing the spotted owl in western Washington? *Northwest Science* 67(2):132.
- Iverson, W.F. 1996. Reproductive success of northern spotted owl activity centers in the northwestern Washington Cascades. *Northwestern Naturalist* 77:14-16.
- Iverson, W.F. 2004. Reproductive success of Spotted Owls sympatric with Barred Owls in western Washington. *J. Raptor Res.* 38(1):88-91.
- Jackson, Jerome A. 1998. Demography of the northern spotted owl. *Wilson Bulletin* 110(3):453-454.
- Jaksic, F.M. and J.H. Carothers. 1985. Ecological, morphological, and bioenergetic correlates of hunting mode in hawks and owls. *Ornis Scandinavica* 16:165-172.
- Jiang, H., J.R. Strittholt and N.C. Slosser. *Draft. The Spatial Distribution Patterns of Later-Seral Forests in the PNW, USA. Conservation Biology Institute, Corvallis, OR.*
- Jiang, H., J.R. Strittholt, P.A. Frost and N. Slosser. *Draft. The Classification of Late Seral Forests in the Pacific Northwest, USA using Landsat ETM Imagery. Cons. Biol. Institute, Corvallis, OR.*
- Johnsgard, P.A. 2002. North American Owls. Biology and Natural History. Smithsonian Institution Press, 2002. pp. 176-193.
- Johnson, D.H. 1980. The comparison of usage and availability measurements for evaluating resource preference. *Ecology* 61:65-71.
- Johnson, D.H. 1992. *Spotted owls, great horned owls, and forest fragmentation in the Central Oregon Cascades. M.S. thesis, Oregon State University, Corvallis, OR*
- Johnson, David H. 1993. *Predators, competitors, and mobsters: interspecific interactions involving northern spotted owls. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res.* 27(1):55-56.

- Johnson, D.H. and E.C. Meslow. 1989. *Spotted and Great Horned Owls: Their abundance in and relationship to fragmented forests of Oregon's Western Cascades. Unpublished Report. 9pp.*
- Johnson, K.N., J.F. Franklin, J.W. Thomas, and J. Gordon. 1991. Alternatives for management of late-successional forests of the Pacific Northwest. A report to the Agriculture Committee and the Merchant Marine Committee of the U. S. House of Representatives. 59 p. College of Forestry, Oregon State University: Corvallis, OR.
- Johnson, K.N., S. Crim, K. Barber, M. Howell, and C. Cadwell. 1993. Sustainable harvest levels and short-term timber sales for options considered in the report of the Forest Ecosystem Management Assessment Team: Methods, Results, and Interpretations. Oregon State University, USDA, Forest Service and USDI Bureau of Land Management, Corvallis, OR.
- Johnson, N.K. 1994. Pioneering and natural expansion of breeding distributions in western North American birds. *Studies in Avian Biology* 15:27-44.
- Johnston, A. 2002. *Northern Spotted Owl Survey and Monitor Report. U. S. Department of Interior, National Park Service, Crater Lake National Park, Crater Lake, OR.*
- Jolly, G.M. 1965. Explicit estimates from capture-recapture data with both death and immigration-stochastic model. *Biometrika* 52:225-247.
- Jordan et. al. 1996. Conserving a regional spotted owl population. Pages 227-247 in *Ecological Knowledge and Environmental Problem Solving: Concepts and Case Studies*. National Academy Press, Washington, DC.
- Keifer, M., G. Dempsey, D. Haskamp, G. Indinoli, P. Mulligan, and A. Peterson. 1996. *Mineral King Risk Reduction Project - 1996 Annual Report. "Science and Natural Resources Division Sequoia and Kings Canyon National Parks, CA."*
- Keinath, D.A., G.D. Hayward. 2003. Red-Backed Vole (*Clethrionomys Gapperi*) Response To Disturbance In Subalpine Forests: Use of Regenerating Patches. *J. of Mamm.* 84(3):956-966.
- Keithley, C. And B. Motroni. 2000 (draft). *Examining the influence of land management on the habitat configuration surrounding northern spotted owl sites in northern California. California Department of Forestry and Fire Protection, Sacramento, CA.*
- Keleman, B. 1992. *An assessment of wildfire risk to Spotted Owl habitat on the Wenatchee National Forest. U.S. Department of Agriculture, Forest Service, Wenatchee National Forest, Wenatchee, WA.*
- Kelly, E.G. 2001. *The range expansion of the northern barred owl: an evaluation of the impact on spotted owls. M.S. thesis, Oregon State University, Corvallis, OR.*
- Kelly, E.G. and E.D. Forsman. In Press. Recent Records of Hybridization between Barred Owls and Northern Spotted Owls. *The Auk* in press.
- Kelly, E.G., E.D. Forsman, and R.G. Anthony. 2003. Are barred owls displacing spotted owls? *Condor* 105(1):45-53.

- Kernohan, B.J., R.A. Gitzen, and J.J. Millsbaugh. 2001. Analysis of animal space use and movement. Pages 126-166 in J.J. Millsbaugh and J.M. Marzluff, eds. Radio tracking and animal populations. Academic Press, San Diego, CA.
- Kerns, S.J. and D. Allwardt. 1992. *Proximity of human activity to northern spotted owl nesting pairs on lands of the Pacific Lumber Company - draft. Pacific Lumber Company.*
- Kerschke, W.L. and A.B. Carey. 1992. *Experimental manipulation of managed stands to provide habitat for spotted owl and to enhance plant and animal diversity. Northwest Science 66(2):128. Abstract only.*
- Kertell, K. 1977. The spotted owl at Zion National Park, Utah. *Western Birds* 8:147-150.
- King, G.M. 1993. *Habitat characteristics of northern spotted owls in eastern Washington. M.S. thesis, University of California, Berkeley, CA.*
- King, G. And E.E. Hanson. 1999. *Release of specific stand sampling data to the U.S. Fish and Wildlife Service. Confederated Tribes and Bands of the Yakima Nation, Toppenish, WA.*
- King, G.M., G.S. Sargeant, D.R. McCullough, and E.E. Hanson. 1993. *Habitat characteristics of northern spotted owls in eastern Washington. Final report for Cooperative Agreement PNW-90-684 between the USDA For. Serv. and the Yakima Indian Nation.*
- King, G.M., K.R. Bevis, E.E. Hanson, and J.R. Vitello. 1997. Northern spotted owl management. Mixing landscape and site-based approaches. *Journal of Forestry* 95(8):21-25.
- King, G.M., K.R. Bevis, M.A. Rowe, E.E. Hanson. 1997. *Spotted owl use of habitat impacted by 1994 fires on the Yakama Indian Reservation: three years post fire.*
- Kirk, D.A. 1999. *Committee on the Status of Endangered Wildlife in Canada status report on the northern spotted owl (Strix occidentalis caurina).*
- Kirk, D.A. And C. Hyslop. 1998. Population status and recent trends in Canadian raptors: A review. *Biological Conservation* 83:91-118.
- Kittrell, J. and J. Stone. 2004. *Wacking trees to save them or the symbiotic relationship between a wildlife biologist and a silviculturist to save and maintain big trees on the landscape and the problems encountered. "Abstract of presentation at The 39th Annual Meeting of the Oregon Chapter of the Wildlife Society ""Bridging the Gap: Integrating Wildlife Science, Management and Policy""", Bend, OR, February 11-13, 2004. Pg 23. Deschutes National Forest, Crescent. OR; Deschutes National Forest, Bend, OR."*
- Klavitter, John L., J.M. Marzluff, and M.S. Vekasy. 2003. Abundance and demography of the Hawaiian hawk: is delisting warrented? *J. Wildlife Management* 67:165-176.
- Knight, C.A. and D.E. Seaman. 1995. Is northern spotted owl fecundity correlated with winter weather? *Bulletin of the Ecological Society of America* 76:143.
- Knowles, T.W., P.D. Weigl, A.B. Smith, and A.C. Boynton. 1990. Radiotracking northern flying squirrels (*Glaucomys sabrinus*) in the southern Appalachians: a

- chronicle of the unexpected. [Abstract]. Page 167 in American Society of Mammalogists abstracts: 70th Annual Meeting of the American Society of Mammalogists; 1990 June 9-13; Frostburg, MD.
- Komar, N. 2001. West Nile virus surveillance using sentinel birds. *Annals of the New York Academy of Science* 951:58-73.
- Komar, N., N.A. Panella, J.E. Burns, S.W. Duszka, T.M. Mascarenhas, and T.O. Talbot. 2001. Serologic evidence for West Nile virus infection in birds in the New York City vicinity during an outbreak in 1999. *Emerg. Infect. Dis.* 7(4):621-5.
- Komar, N., S. Langevin, S. Hinten, N. Nemeth, E. Edwards, D. Hettler, B. Davis, R. Bowen, and M. Bunning. 2003. Experimental infection of North American birds with New York 1999 strain of West Nile virus. *Emerging Infections Diseases* 9(3):311-322.
- König, C. 1991. Taxonomische und ökologische Untersuchungen an Kreischeulen (*Otus* spp.) des südlichen Südamerika. *J. Orn.* 132:209-214.
- König, C. 1991. Zur Taxonomische und ökologie der Sperlingskräuse (*Glaucidium* spp.) des Andenraumes. *Ökol. Vögel* 13:15-76.
- König, C. 1994. Biological patterns in owl taxonomy, with emphasis on bioacoustical studies on neotropical pygmy (*Glaucidium*) and screech owls (*Otus*). Pages 1-19 in *Raptor Conservation Today*. (B-U. Meyburg and R. D. Chencellor, eds.). Pica Press, Sussex, UK.
- König, C., F. Weick and J.H. Becking. 1999 *Owls: A Guide to the Owls of the World*. Yale University Press, 1999. pp. 325-328.
- Korpimäki, E. 1986. Niche relationships and life-history tactics of three sympatric *Strix* owl species in Finland. *Ornis Scandinavica* 17:126-132.
- Korpimäki, E. 1986. "Reversed Size Dimorphism in Birds of Prey, Especially in Tengmalm's Owl *Aegolius funereus*: A Test of the "Starvation Hypothesis"." *Ornis Scandinavica* 17:326-332.
- Korpimäki, E. 1989. Breeding performance of Tengmalm's Owl *Aegolius funereus*: effects of supplementary feeding in a peak vole year. *Ibis* 131:51-56.
- Korschgen, Leroy J. and H.B. Stuart. 1972. Twenty years of avian predator-small mammal relationships in Missouri. *J. Wildlife Management* 36(2):269-282.
- Kotliar, N.B., S.J. Hejl, R.L. Hutto, V.A. Saab, C.P. Melcher, and M.E. McFadzen. 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.
- Kramer, L.D. and K.A. Bernard. 2001. West Nile virus infection in birds and mammals. *Annals of the New York Academy of Sciences* 951:84-93.
- Kristan, D.M., R.J. Gutiérrez, and A.B. Franklin. 1996. Adaptive significance of growth patterns in juvenile spotted owls. *Can. J. Zool.* 74:1882-1886.
- Kuntz II, R.C. and R.G. Christophersen. 1994. *North Cascades National Park Service Complex Northern Spotted Owl Inventory and Monitoring Program. 1994 Progress Report. U.S. Department of the Interior, National Park Service, North Cascades National Park, Sedro Woolley, WA.*

- Kuntz II, R.C. and R.G. Christophersen. 1996. *A survey of the northern spotted owl in North Cascades National Park Service Complex. NPS Technical Report NPS/CCSONOCA/NRTR-96/05. U.S. Department of the Interior, National Park Service, North Cascades National Park, Sedro Woolley, WA.*
- Kuntz II, R.C., R.G. Christophersen, and R.E. Holmes. 1993. *North Cascades National Park Service Complex Northern Spotted Owl Inventory and Monitoring Program. 1993 Progress Report. U.S. Department of the Interior, National Park Service, North Cascades National Park, Sedro Woolley, WA.*
- Kurz, W.A. and J.A. Greenough. 1996. *Spotted owl adaptive management program and research needs. Unpublished draft report.*
- Kvist L., M. Ruokonen, J. Lumme, and M. Orell. 1999 The colonization history and present-day population structure of the European great tit (*Parus major major*). *Heredity* 82:495-502.
- LaHaye, W.S. and R.J. Gutiérrez. 1992. *Big Bear spotted owl study, 1989. Final report to the California Department of Fish and Game, Contract FG7524 (FY 1987-88). State of California, The Resource Agency.*
- LaHaye, W.S. and R.J. Gutiérrez. 1999. Nest Sites and Nesting Habitat of The Northern Spotted Owl in Northwestern California. *Condor* 101(2):324-330.
- LaHaye, W.S., G.S. Zimmerman, R.J. Gutiérrez. *Draft. Temporal Variation In The Vital Rates of An Insular Population of Spotted Owls: Contrasting Effects of Weather.*
- LaHaye, W.S., R.J. Gutiérrez, and D.R. Call. 1992. Demography of an insular population of spotted owls (*Strix occidentalis*). Pages 803-814 in D. McCullough and R. Barrett, eds. *Wildlife 2001: Populations*. Elsevier Science Publishers Limited, Essex, England.
- LaHaye, W.S., R.J. Gutiérrez, and H.R. Akçakaya. 1994. Spotted owl metapopulation dynamics in southern California. *J. of Animal Ecol.* 63:775-785.
- LaHaye, W.S., R.J. Gutiérrez, and J.R. Dunk. 2001. Natal dispersal of the spotted owl in southern California: Dispersal profile of an insular population. *Condor* 103:691-700.
- Laidig, Kim J. and D.S. Dobkin. 1995. Spatial overlap and habitat association of barred owls and great horned owls in southern New Jersey. *J. Raptor Res.* 29(3):151-157.
- Lamberson, et. al. 2003 *In review. Developing an index for population distribution of a territorial species on fragmented landscapes. 18 pages.*
- Lamberson, R.H. and S. Brooks. 1991. *An examination of the high density of northern spotted owls in northwestern California. Unpublished report. Department of Mathematics, Humboldt State University, Arcata, CA.*
- Lamberson, R.H., R. McKelvey, B.R. Noon, and C. Voss. 1992. A dynamic analysis of northern spotted owl viability in a fragmented forest landscape. *Conservation Biology* 6(4):505-512.
- Lamberson, R.H., B.R. Noon, C. Voss, and K.S. McKelvey. 1994. Reserve design for territorial species: the effects of patch size and spacing on the viability of the northern spotted owl. *Conservation Biology* 8(1):185-195.

- Lamberson, R.H., D.L. Allen, and S. Nicodemus. 2003. *A model for the optimal spatial distribution of owl habitat: A feasibility study. Unpublished Report.*
- Lammin-Soila, R. and P. Uusivuori. 1975. Pöllöjen esiintymisetä Itä-Uudellamaalla 1970-1973. *Lintumies* 10:109-117.
- Lanciotti, R.S., J.T. Roehrig, V. Deubel, J. Smith, M. Parker, K. Steele, B. Crise, K.E. Volpe, M.B. Crabtree, J.H. Scherret, R.A. Hall, J.S. MacKenzie, C.B. Cropp, B. Panigrahy, E. Ostlund, B. Schmitt, M. Malkinson, C. Banet, J. Weissman N. Komar, H.M. Savage, W. Stone, T. McNamara, and D.J. Gubler. 1999. Origin of the West Nile Virus responsible for an outbreak of encephalitis in the northeastern United States. *Science* 286(5448):2333-2337.
- Land, H.C. 1963. A Collection of Birds from the Caribbean Lowlands of Guatemala. *Condor* 65:49-65.
- Lande, R. 1987. Extinction thresholds in demographic models of territorial populations. *American Naturalist* 130:624-35.
- Lande, R. 1988. Demographic models of the northern spotted owl. *Oecologia* 75:601-607.
- Lande, R. 1991. Population dynamics and extinction in heterogeneous environments: the northern spotted owl. Pages 566-580 in Cappuccino, N. And P.W. Price, eds. *Population Dynamics: New Approaches and Synthesis*. Academic Press, San Diego, CA.
- Lande, R., G. Orions and J. Wiens. 1994. Spotted owl demography and ecosystem management in the Pacific Northwest.
- Landis, J.R. and G.G. Koch. 1977. The measurement of observer agreement for categorical data. *Biometrics* 33(1):159-174.
- Langrand, O. 1990. *Guide to the Birds of Madagascar*. Yale University Press, New Haven, CT.
- Lattin, J.D. 2003 Lessons From the spotted owl: the utility of nontraditional data. *BioScience* 43(10):666.
- Laurance, W.F. 1991. Edge effects in tropical forest fragments: Application of a model for the design of nature reserves. *Biological Conservation* 57:205-219.
- Laymon, S.A. 1991. Diurnal foraging by spotted owls. *Wilson Bulletin* 103(1):138-140. No
- Laymon, S.A. 1988. *The ecology of the Spotted Owl in the central Sierra Nevada, California. Ph.D. dissertation, Univ. California, Berkeley, CA.*
- Layne, J.N. and M.A.V. Raymond. 1994. Communal nesting of Southern flying squirrels in Florida. *J. Mammalogy* 75:110-120.
- Lebreton, J.D., K.P. Burnham, J. Clobert, and D.R. Anderson. 1992. Modeling survival and testing biological hypotheses using marked animals: a unified approach with case studies. *Ecological Monographs* 62:67-118.
- Lechleitner, R., M. Cookson and E. Miller. 1995. *Mount Rainier National Park northern spotted owl inventory and monitoring program. 1995 progress report. Division of Natural and Cultural Resources, U.S. Department of the Interior, National*

- Park Service, Mount Rainier National Park, Tahoma Woods, Star Route, Ashford, WA.*
- Lechleitner, R., M. Cookson, and D. George. 1997. *Mount Rainier National Park northern spotted owl inventory and monitoring program. 1997 progress report. Division of Natural and Cultural Resources, U.S. Department of the Interior, National Park Service, Mount Rainier National Park, Tahoma Woods, Star Route, Ashford, WA.*
- Leder, J.E. and M.L. Walters. 1980. Nesting observations for the barred owl in western Washington. *Murrelet* 61:110-112.
- Lehmkuhl, J.F. 1991. *Habitat pattern around spotted owl locations on the Olympic Peninsula, Washington. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Olympia, WA.*
- Lehmkuhl, J.F. 2004. Epiphytic lichen diversity and biomass in low-elevation forests of the eastern Washington Cascade range, USA. *For. Ecol. And Management* 187(2004):381-392.
- Lehmkuhl, J.F. and M.G. Raphael. 1993. Habitat pattern around northern spotted owl locations on the Olympic Peninsula, Washington. *J. Wildlife Management* 57(2):302-315
- Lehmkuhl, J.F. and L.F. Ruggiero. 1991. Forest fragmentation in the Pacific Northwest and its potential effects on wildlife. Pages 37-46 in PNW-GTR-285. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Lehmkuhl, J.F., L.F. Ruggiero, and P.A. Hall. 1991. Landscape-Scale Patterns of Forest Fragmentation and Wildlife Richness and Abundance in the Southern Washington Cascade Range. USDA For. Serv. PNW-GTR-285, Pac. Northwest Res. Sta., Olympia, WA.
- Lehmkuhl, J.F., P.F. Hessburg, R.L. Everett, M.H. Huff, and R.D. Ottmar. 1994. Historical and current forest landscapes of eastern Oregon and Washington. Part I: vegetation pattern and insect and disease hazard. General Technical Report PNW-GTR-328. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Lehmkuhl, John F., K.D. Kistler, J.S. Begley and J. Boulanger. DRAFT. *Demography and Movements of Northern Flying Squirrels in Dry Forests of Eastern Washington. USDA For. Serv., Pac. Northwest Res. Sta., Wenatchee, WA.*
- Lehmkuhl, J.F., L.E. Gould, E. Cazares, and D.R. Hosford. DRAFT. *Truffle Abundance and Mycophagy by Northern Flying Squirrels in Eastern Washington Forests. Forest Ecology and Management.*
- Leskiw, T. and R.J. Gutiérrez. 1998. Possible predation of a spotted owl by a barred owl. *Western Birds* 29(3):225-226.
- Levy, S. 2004. Native Incursions: Avian Range Expansions Imperil Threatened Species. *BioScience* 54(5):387-402.
- Lewis, J.C. and B.C. Wales. 1993. Northern spotted owl pair successfully renests. *J. Field Orn.* 64(3):323-325.

- Linsdale, J.M. and L.P. Tevis, Jr. 1951. The dusky-footed woodrat. A record of observations made on the Hastings Natural History Reservation. University California Press, Berkeley, CA.
- Lint, J. 1993. *Inventory and monitoring programs for northern spotted owls. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):56.*
- Lint, J.B. 2000. *Declaration to the United States District Court for the Western District of Washington at Seattle. Civ. No. C99-1050L. Bureau of Land Management, Portland, OR.*
- Lint, J. 2001. *Northern Spotted Owl Effectiveness Monitoring Northwest Forest Plan. Annual summary report 2000. U.S. Department of the Interior, Bureau of Land Management, Roseburg, OR.*
- Lint, J. 2002. *Northern Spotted Owl Effectiveness Monitoring Northwest Forest Plan. 2001 annual summary report. U.S. Department of the Interior, Bureau of Land Management, Roseburg, OR*
- Lint, J. 2002. *Northern Spotted Owl Effectiveness Monitoring Northwest Forest Plan Annual Summary Report 2001. 2001 Spotted Owl Report from the Interagency Regional Monitoring Team. Northwest Forest Plan Interagency Monitoring Program.*
- Lint, J. 2003. *Northern Spotted Owl Effectiveness Monitoring Northwest Forest Plan. 2002 annual summary report. U.S. Department of the Interior, Bureau of Land Management, Roseburg, OR.*
- Lint, J., B. Noon, R. Anthony, E. Forsman, M. Raphael, M. Collopy, and E. Starkey. 1999. *Northern spotted owl effectiveness monitoring plan for the Northwest Forest Plan. General Technical Report PNW-GTR-440. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.*
- Lint, Joseph, E.D. Forsman, R. Anthony, and R. Gutiérrez. 2001. *Northern Spotted Owl Effectiveness Monitoring Plan Under the Northwest Forest Plan. Annual Summary Report 2000. Joseph Lint, Spotted Owl Module Lead, Northwest Forest Plan Interagency Monitoring Program, March 2001.*
- Lint, J., R. Horn, F. Oliver, C. Larson, K. Krause, M. O'Hara, M. Oleri, H. Wise, M. Irwin, K. Fukuda, and P. Colvard. 2002. *Demographic characteristics of northern spotted owls (Strix occidentalis caurina) in the Klamath Mountains Province of Oregon. Annual report, Fiscal Year 2001. U.S. Department of the Interior, Bureau of Land Management, Roseburg District, Roseburg, OR.*
- Lint, J., R. Horn, F. Oliver, C. Larson, K. Krause, M. O'Hara, M. Oleri, H. Wise, M. Irwin, K. Fukuda, and P. Colvard. 2003. *Demographic characteristics of northern spotted owls (Strix occidentalis caurina) in the Klamath Mountains Province of Oregon, 1983-2002. Annual report, Fiscal Year 2002. U.S. Department of the Interior, Bureau of Land Management, Roseburg District, Roseburg, OR.*
- Livezey, K.B. *In Review. Iverson (2004) On Spotted Owls And Barred Owls: Comments on Methods And Conclusions. Submitted to Journal of Raptor Research.*

- Lloyd, H. 2003. Bird diversity and abundance in Amazon forest communities. *J. of Field Orn.* 74:127-192.
- Loefering, J.P. 1997. Wildlife mortality and entanglement by discarded hip chain string. *Wilson Bulletin* 109(2):353-355.
- Lohmus, A. 2003. *Habitat Preferences and quality for birds of prey: from principles to applications. Ph.D. dissertation. University of Tartu. Tartu, Estonia.*
- Long, J.N., J.B. McCarter, and S.B. Jack. 1983. A modified density diagram for coastal Douglas-fir. *Western J. Appl. Forest.* 3: 88-89.
- Lovejoy, T.E., R.O. Bierregaard, Jr., A.B. Rylands, J.R. Malcolm, C.E. Quintela, L.H. Harper, K.S. Brown, Jr., A.H. Powell, G.V.N. Powell, H.O.R. Schubart, and M.B. Hays. 1986. Edge and other effects of isolation on Amazon forest fragments. Pages 257-285 in M.E. Soulé, ed. *Conservation biology: The science of scarcity and diversity.* Sinauer Associates, Sunderland, MA.
- Lovette, I.J., E. Bermingham, and R.E. Ricklefs. 1999. Mitochondrial DNA phylogeography and the conservation of endangered Lesser Antillean Icterus Orioles. *Conservation Biology* 13:1088-1096.
- Loyn, R.H., E.G. McNabb, L. Volodina, and R. Willig. 2001. Modelling landscape distributions of large forest owls as applied to managing forests in north-east Victoria, Australia. *Biological Conservation* 97:361-376.
- Lukacs, P., A.B. Franklin, and D.R. Anderson. 2004. Passive approaches to detection in distance sampling. In S.T. Buckland, D.R. Anderson, K.P. Burnham, J.L. Laake, D.L. Borchers and L. Thomas, eds. *Advanced distance sampling.* Oxford University Press, Oxford, UK.
- Lundberg, A. 1986. Adaptive advantages of reversed sexual size dimorphism in European owls. *Ornis Scandinavica* 17:133-140.
- Lynch, M.F., A.L. Fesnock, and D. Van Vusen. 1994. Home range and social structure of the dusky-tooted woodrat (*Neotoma fuscipes*). *Northwestern Naturalist* 75:73-75.
- MacCracken, J.G., W.C. Boyd, and B.S. Rowe. 1996. Forest Health and spotted owls in the eastern Cascades of Washington. *Transaction of the 61st North American Wildlife and Natural Resources Conference* XX:519-527.
- MacKenzie, D.I., J.D. Nichols, J.E. Hines, M.G. Knutson and A.B. Franklin. 2003. Estimating site occupancy, colonization and local extinction probabilities when a species is not detected with certainty. *Ecology* 84(8):2200-2207.
- Maffei, H., and Tandy, B. 2002. *Methodology for Modeling the Spatial and Temporal Effects of Vegetation Management Alternatives on Late Successional Habitat in the Pacific Northwest.* USDA Forest Service Proceedings RMRS-P-25.
- Maffei, H., M. Gerdes, S. Beyer and R. Sandquist. 1997. Use of the cover extension of forest vegetation simulator and stocking guides to identify northern spotted owl dispersal habitat in forest communities of central Oregon. Pages 59-63 in *Proceedings: Forest Vegetation Simulator conference, February 3-7, 1997, Ogden, UT.* Gen. Tech. Rep. INT-GTR-373. USDA For. Serv., Intermountain Res. Sta., Fort Collins, CO.

- Male, T. 2003. Potential Impacts of West Nile Virus on American Avifaunas. *Conservation Biology* 17(3):928-930.
- Manley, B.F.J. 2002. *Final report on the estimation of a resource selection probability function for spotted owls in the Plum Creek Cascades HCP project areas, 2001-2002.* Western Ecosystems Technology, Inc., Cheyenne, WY.
- Manly, B.F.J., L.L. McDonald, and T.L. McDonald. 1994. *A simulation study of mark-recapture methods used with nesting pairs of birds. Report to National Council for Air and Stream Improvement, Inc., by WEST, Inc., Cheyenne, WY.*
- Manly, B.F.J., L.L. McDonald, and T.L. McDonald. 1995. *A simulation study of the robustness of parameter estimation and model selection procedures with mark-recapture data. Report to National Council for Air and Stream Improvement, Inc., by WEST, Inc., Cheyenne, WY.*
- Manly, B.F. J., L.L. McDonald and T.L. McDonald. 1999. *The robustness of mark-recapture methods: a case study for the northern spotted owl. J. Agri., Biol., and Env. Stat.* 4(2):78-101.
- Manning, T. and C.C. Maguire. 1999. A New Elevation Record for the Red Tree Vole in Oregon: Implications for National Forest Management. *American Midland Naturalist* 142(2):421-424.
- Marcot, B.G. 1995. Owls of old forests of the world. General Technical Report PNW-GTR-343. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Marcot, B. and R.S. Holthausen. 1987?. Analyzing population viability of the spotted owl in the Pacific Northwest. *Transactions of the 52nd North American Wildlife and Natural Resources Conference.* 52:343-347.
- Marcot, B.G. and J.W. Thomas. 1997. Of spotted owls, old growth, and new policies: a history since the Interagency Scientific Committee report. General Technical Report PNW-GTR-408. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Marcot, B.G., R.S. Holthausen, and H. Salwasser. 1986. Viable population planning. Pages 49-51 in B.A. Wilcox, P.F. Brussard, and B.G. Marcot eds. *The Management of Viable Populations: Theory, Applications, and Case Studies.* Center for Conservation Biology, Department of Biological Sciences, Stanford University, Palo Alto, CA.
- Marcot, B.G., R.S. Holthausen, J. Teply, and W.D. Carrier. 1991. Old-Growth Inventories: Status, Definitions, and Visions for the Future. Pages 47-60 in PNW-GTR-285, Pac. Northwest Res. Sta., USDA For. Serv., Olympia, WA.
- Marks, J.S., D.P. Hendricks, and V.S. Marks. 1984. Winter food habits of barred owls in western Montana. *Murrelet* 65:27-28.
- Marra, P.P., S. Griffing, C. Caffrey, A.M. Kilpatrick, R. McLean, C. Brand, E. Saito, A.P. Dupuis, L. Kramer, and R. Novak. 2004. West Nile virus and wildlife. *BioScience* 54(5):393-402.
- Marshall, David B., M.G. Hunter, and A.L. Contreras. 2003. *Birds of Oregon. A General Reference. Chapter 3: Species Account: Barred Owl.* Oregon State University Press, Corvallis, OR.

- Marshall, J.T., Jr. 1957. Birds of pine-oak woodland in southern Arizona and adjacent Mexico. *Pacific Coast Avifauna* 31:1-125.
- Marshall, K., M. Mamone, and R. Barclay. 2003. A survey of Douglas-fir dwarf mistletoe brooms used for nests by northern spotted owls on the Applegate Ranger District and Ashland Resource Area in southwest Oregon. *Western J. of Applied Forestry* 18(2):115-117.
- Martin, K.J. and R.G. Anthony. 1999. Movements of northern flying squirrels in different-aged forest stands of western Oregon. *J. Wildlife Management* 63(1):291-297.
- Martin, S.K., J. Beatty, and F. Hawksworth. 1993. Douglas-fir dwarf mistletoe brooms and spotted owl nesting habitat, eastern Cascade Range, Washington. Proceedings of the Western Intermountain Forest Insects and Disease Work Conference. USDA For. Serv.
- Maser, C. and Z. Maser. 1988. Interactions among squirrels, mycorrhizal fungi, and coniferous forests in Oregon. *Great Basin Naturalist* 48:358-369.
- Maser, C., J.M. Trappe, and R.A. Nussbaum. 1978. Fungal-small mammal interrelationships with emphasis on Oregon coniferous forests. *Ecology* 59(4):799-809.
- Maser, Z., C. Maser, and J.M. Trappe. 1985. Food habits of the northern flying squirrel (*Glaucomys sabrinus*) in Oregon. *Can. J. of Zool.* 63:1084-1088.
- Maser, C., Z. Maser, J.W. Witt, and G. Hunt. 1986. The northern flying squirrel: a mycophagist in southwestern Oregon. *Can. J. Zool.* 64:2086-2089.
- Mashimo, T., M. Lucas, D. Simon-Chazottes, M. Frenkiel, X. Montagutelli, P. Ceccaldi, C. Deubel, J. Guenet, and P. Despres. 2002. A nonsense mutation in the gene encoding 2'-5'-oligoadenylate synthetase/L1 isoform is associated with West Nile virus susceptibility in laboratory mice. *Proceedings of the National Academy of the Sciences of the United States of America* 99(17):11311-11316.
- Matlack, G.R. 1993. Microenvironment variation within and among forest edge sites in the eastern United States. *Biological Conservation* 66:185-194.
- Matocq, Marjorie D. 2002. Phylogeographical structure and regional history of the dusky-footed woodrat, *Neotoma fuscipes*. *Molecular Ecology* 11:229-242.
- Max, T.A., R.A. Souter, and K.A. O'Halloran. 1990. Statistical estimators for monitoring spotted owls in Oregon and Washington in 1987. Research Paper PNW-RP-420. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Mayr, E. 1963. *Animal Species and Evolution*. Harvard University Press, Cambridge, MA.
- Mayr, E. and P.D. Ashlock. 1991. *Principles of Systematic Zoology*, 2nd edition. McGraw-Hill, New York, NY.
- Mayr, E., D. Amadon. 1951. *American Museum Novitates. A Classification of Recent Birds*. American Museum of Natural History, New York, NY. April 2, 1951. Number 1496. 42 pp.

- Mazur, K.M. and P.C. James. 2000. Barred owl (*Strix varia*). In: A. Poole and F. Gill, eds. *The birds of North America*, No. 508. The Academy of Natural Sciences and The American Ornithologists' Union, Washington, D.C.
- Mazur, K.M., P.C. James, M.J. Fitzsimmons, G. Langen, and R.H.M. Espie. 1997. Habitat associations of the barred owl in the boreal forest of Saskatchewan, Canada. *J. Raptor Res.* 31:253-259.
- Mazur, K.M., P.C. James, S.D. Frith. 1997. The Ecology of The Barred Owl And Its Role In Sustainable Forestry. Final Report Submitted To: The Prince Albert Model Forest Association. Prince Albert, SK, Canada.*
- Mazur, K.M., S.D. Frith, and P.C. James. 1998. Barred owl home range and habitat selection in the boreal forest of central Saskatchewan. *Auk* 115:746-754.
- McCallum, D. Archibald. 1994. Flammulated Owl. In *The Birds of North America*, . 93. A. Poole and F. Gill, eds. Philadelphia: The Academy of Natural Sciences; Washington, DC: The American Ornithologists' Union.
- McCarthy, Michael A., S.J. Andelman, and H.P. Possingham. 2003. Reliability of Relative Predictions in Population Viability Analysis. *Conservation Biology* 17:982-989.
- McComb, W.C. 1991. The role of dead wood in habitat of spotted owl prey and other old forest vertebrates. Unpublished report. Oregon State University, Corvallis, OR.*
- McComb, W.C., M.T. McGrath, T.A. Spies, and D. Vesely. 2002. Models for mapping potential habitat at landscape scales: an example using northern spotted owls. *Forest Science* 48(2):203-216.
- McComb, W.C., M.T. McGrath, T.A. Spies, and D. Vesely. 2002. Models for mapping potential habitat at landscape scales: an example using northern spotted owls. Pages 25-38 in S. DeStefano and R.G. Haight, eds. *Forest Wildlife-Habitat*.
- McDowell, N., J.R. Brooks, S.A. Fitzgerald, and B.J. Bond. 2003. Carbon isotope discrimination and growth response of old *Pinus ponderosa* trees to stand density reductions. *Plant, Cell & Environment* 26(4), 631-644.
- McGrath, M.T. 1997. Northern Goshawk habitat analysis in managed forest landscapes. M.S. thesis, Oregon State Univ., Corvallis, OR.*
- McKelvey, K. 1992. A spatially explicit life-history simulator for the northern spotted owl. In: Roseburg District resource management plan and environmental impact statement. Vol. II. Roseburg, Oregon: U.S. Department of the Interior, Bureau of Land Management, Region 1.
- McKelvey, K.S., and C.P. Weatherspoon. 1992. Projected trends in owl habitat. Pages 261-273 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. Gen. Tech. Rep. PSW-GTR-133. USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- McKelvey, K.S., and J.D. Johnston. 1992. Historical perspectives on forests of the Sierra Nevada and the Transverse Ranges of southern California: forest conditions at the turn of the century. Pages 225-246 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators.

- The California Spotted Owl: A Technical Assessment of Its Current Status. Gen. Tech. Rep. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- McKelvey, K.S., B.R. Noon, and R.H. Lamberson. 1993. Conservation planning for species occupying fragmented landscapes: the case of the northern spotted owl. Pages 424-452 in P.M. Kareiva, J.G. Kingslover, and R.B. Huey, eds. *Biotic Interactions and Global Change*. Sinauer Associates, Inc., Sunderland, MA.
- McKelvey, K., R. Lamberson, B.R. Noon, and C. Voss. Effects of varying dispersal capabilities on the population dynamics of the northern spotted owl - preliminary results.*
- McKelvey, K.S., J. Croker, and B.R. Noon. A spatially explicit life-history simulator for the northern spotted owl. In: Roseburg District resource management plan and environmental impact statement. Vol. II. Roseburg, Oregon: U.S. Department of the Interior, Bureau of Land Management, Region 1.
- McLean, R.G., S.R. Ubico, S.E. Docherty, W.R. Hansen, L. Sileo, and T.S. McNamara. 2001. West Nile virus and transmission and ecology in birds. *Annals of the New York Academy of Sciences* 951:54-57.
- Meczewa, R. Bioenergetic parameters and energy flow through the population of the Tawny Owl (*Strix aluco*). *L. Zeszyty Naukowe Uniwersytetu Jagiellonskiego* 32:29-58.
- Medford District, Bureau of Land Management, Rogue River and Siskiyou National Forests. 1996. 1996 Rogue River/South Coast Biological Assessment. Medford District, BLM. Rogue River and Siskiyou National Forests. Aug 1996.*
- Medford District-Bureau of Land Management, Rogue River and Siskiyou National Forests. 1998. 1998 Rogue River/South Coast Biological Assessment. FY 99/00 Timber Sale Project. Rogue River/Siskiyou National Forest Service, Medford Bureau of Land Management. Biological Assessment FY 99/00. July 1998.*
- Meekins, D. and S. Fullerton. 2003. Northern Spotted Owl Monitoring, Banding and Status Report on Hawthorne Timber Company Ownership - 2002 annual report. Fort Bragg, California.*
- Meekins, D., S. Fullerton, and M. Siavage. 2002. Northern Spotted Owl Monitoring, Banding and Status Report on Hawthorne Timber Company Ownership - 2001 annual report. Fort Bragg, CA.*
- Meijaard, E. and C.P. Groves. 2004. A taxonomic revision of the *Tragulus* mouse-deer (*Artiodactyla*). *Zool. J. of the Linnean Society* 140:63-102.
- Meiman, S., R. Anthony, E. Glenn, T. Bayless, A. Ellingson, C. Smith, M.C. Hansen. In Press. JB: 2004. Effects of commercial thinning on home range and habitat use patterns of a male northern spotted owl: a case study. Oregon Cooperative Fish & Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR. *Wildlife Society Bulletin* 31(4):1254-1262.
- Meiselman, N and Doyle, A.T. 1996. Habitat and microhabitat use by the red tree vole (*Phenacomys longicaudus*). *American Midland Naturalist* 135(1): 33-42.
- Mendez-Treneman, Rolando R. 2002. Development and maintenance of Northern Spotted Owl habitat in the Gotchen Late-Successional Reserve of the Gifford

- Pinchot National Forest, Washington. Pages 10-19 in: Parker, Sharon, and Susan Stevens Hummel (compilers). *Beyond 200: A silvicultural Odyssey to Sustaining Terrestrial and Aquatic Ecosystems: proceedings of the 2001 National Silviculture Workshop, 6-10 May, Hood River, OR. General Technical Report.*
- Merriam, C.H. 1898. *Syrnium occidentale caurinum*, A new owl from the Puget Sound Region. *The Auk* 15:39-40.
- Meslow, E.C. 1993. Spotted owl protection: unintentional evolution toward ecosystem management. *Endangered Species Update*, University of Michigan 10(3-4):34-38.
- Meslow, E.C. 1993. History of conservation planning for the northern spotted owl. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):56-57.*
- Meslow, E.C. and M.C. Hansen. 1992. Northern Spotted Owl survey of Oregon Department of Forestry lands. Final report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., and G.S. Miller. 1983. Juvenile spotted owl dispersal project (1 Sept - 16 Nov) Corvallis, OR: Update. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., and G.S. Miller. 1984. Juvenile spotted owl dispersal project (April 15, 1983 - January 31, 1984) Corvallis, OR: 1983 Annual Report. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., G.S. Miller, K. Nelson, and T. Weiss. 1984. Juvenile spotted owl dispersal project (1 Feb - 15 Oct): Progress Report. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., G.S. Miller, J. Reid, and F. Wagner. 1985. Dispersal of juvenile northern spotted owls in the Pacific Northwest Douglas-fir region: Report in Progress Report. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., J.A. Thrailkill, A.L. Chung, W.H. Rudolph, and S.N. Wray. 1990. Demographic characteristics of spotted owls on the Eugene BLM District, Central Coast Ranges, Oregon. Oregon Cooperative Fish & Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., J.A. Thrailkill, S. Andrews, R. Collins, S. Huffman, and J. Perkins. 1991. Demographic characteristics of spotted owls on the Eugene District, Central Coast Ranges, Oregon. Supplement No. PNW 87-536 to Master Memorandum of Understanding No. PNW 80-87. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., E.D. Forsman, K.A. Swindle, S.M. Desimone, A.V. Miller, G. Lehman, P.A. Lang, and B. Maier. 1991. The ecology of spotted owls on the Willamette*

- National Forest: habitat use and demography. Annual Research Report, Fiscal Year 91. Oregon Cooperative Fish & Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C. et. al. 1994. *Annual Report for FY 1993. Identification and evaluation of northern spotted owl habitat in managed forests of southwest Oregon and the development of silvicultural systems for managing such habitat. Fish and Wildlife Department and OSU Forest Sciences, Oregon State University, Corvallis, OR.*
- Meslow, E.C., and M.C. Hansen. 1994. *Northern Spotted Owl survey of Oregon Department of Forestry lands, 1993. Final report to the Oregon Department of Forestry. Oregon Cooperative Fish and Wildlife Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.* Meslow, E.C., R. Anthony, J.A. Thrailkill, S. Andrews, D. Hamilton, and J. Perkins. 1994. *Demographic characteristics of northern spotted owls on the Eugene BLM District, central Coast Ranges, Oregon. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meslow, E.C., R. Anthony, S. DeStefano, and M.C. Hansen. 1995. *Demographic characteristics of Northern Spotted Owl on lands managed by Oregon Department of Forestry in northern Coast Ranges and the Elliott State Forest, Oregon, FY 1994. Oregon Cooperative Fish & Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Meyer, J.S., L.L. Irwin, and M.S. Boyce. 1992. *Influence of habitat fragmentation on spotted owl site location, site occupancy and reproductive success in western Oregon. Unpublished progress report. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Meyer, J.S., L.L. Irwin, and M.S. Boyce. 1998. *Influence of habitat abundance and fragmentation on northern spotted owls in western Oregon. Wildlife Monographs No. 139. Buteo Books: Shipman, VA.*
- Meyer, J.S., L.L. Irwin, and M.S. Boyce. 1990. *Influence of habitat fragmentation on spotted owl site selection, site occupancy and reproductive success in western Oregon. Unpublished progress report. National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Meyers, E. and J. Schaberl. 2003. *Mount Rainier National Park northern spotted owl demographic and compliance program: 2002 progress report. U.S. Department of the Interior, National Park Service, Mount Rainier National Park, Ashford, WA.*
- Michaels, J. 1996. *Overview of the second re-analysis for the spotted owl on the Olympic Peninsula. Olympia, Washington. U.S. Department of the Interior, U.S. Fish and Wildlife Service, Lacey, WA.*
- Mickey, R. 2004. *Critique of trends in suitable habitat for the Northern Spotted owl (Strix occidentalis caurina) on Federal lands from 1994 to 2003.*
- Mickey, R. 1994. *Spotted owl population trends: if you don't know, use statistics. Forestry Forum 8(2):1-2.*
- Mikkola, Heimo, I. Willis. 1983. *Owls of Europe. Buteo Books, Vermillion, SD. pp.13-15.*

- Mila B., D.J. Girman, M. Kimura and T.B. Smith. 2000. Genetic evidence for the effect of a postglacial population expansion on the phylogeography of a North American songbird. *Proceedings of the Royal Society B, Great Britain*. 267:1033-1040.
- Miles, V. and E. Gatt. 1993. *Spotted Owlets*. Orca Book Publishers: Victoria, BC, Canada.
- Miller, G.M. 1974. Grace M. Miller on Spotted Owls. Pages 130-150 in *The Book of Owls*. L.W. Walker, ed. Alfred A. Knopf, Inc., New York, NY.
- Miller, G.P., D.F. Rock, and L.L. Irwin. 1991. *Status of the spotted owl on the McKenzie Resource Area, Eugene District, Bureau of Land Management - a progress report. Unpublished progress report. U.S. Department of the Interior, Bureau of Land Management, Eugene, Oregon, and National Council for Air and Stream Improvement, Inc., Corvallis, OR.*
- Miller, G.P., D.F. Rock, and L.L. Irwin. 1992. *Spotted owl occupancy and habitat use in intermediate-aged forests western Oregon - 1991 progress report. U.S. Department of the Interior, Bureau of Land Management, Springfield, OR.*
- Miller, G.P., J. Chatt and D.R. Rock. 1993. *Spotted owl occupancy and habitat use in intermediate-aged forests, western Oregon: 1991 progress report. Review of NCASI Forestry-Wildlife Research Activities in the Pacific Northwest. NCASI Special Report 93-04.*
- Miller, G.S. 1989. *Dispersal of Juvenile Northern Spotted Owls in Western Oregon. M.S. thesis, Oregon State University, Corvallis, OR.*
- Miller, G.S. 1993. *Dispersal and survival of juvenile northern spotted owls. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):57.*
- Miller, G.S., et. al. 1991. *Guidelines for surveying proposed management activities that may impact northern spotted owls. Unpublished report. U.S. Department of the Interior, Fish and Wildlife Service, Portland, OR.*
- Miller, G.S., S. DeStefano, K.A. Swindle, and E.C. Meslow. 1996. Demography of northern spotted owls on H. J. Andrews study area in the central Cascade Mountains, Oregon. *Studies in Avian Biology* 17:37-46.
- Miller, G.S., R.J. Small, and E.C. Meslow. 1997. Habitat Selection by Spotted Owls During Natal Dispersal in Western Oregon. *J. Wildlife Management* 61(1):140-150.
- Miller, P.E. 1998. *Biological Assessment Addendum for the Upper Iron Timber Sale FY99. Miller, Paul E., Biological Assessment FY 1999. Gifford District National Forest, Cowlitz Valley Ranger District. 17 pp.*
- Mills, L.S. 1995. Edge effects and isolation: red-backed voles on forest remnants. *Conservation Biology* 9:395-403.
- Mills, L.S., R.J. Fredrickson, and B.B. Moorhead. 1993. Characteristics of old-growth forests associated with northern spotted owls in Olympic National Park. *J. Wildlife Management* 57(2):315-321.
- Moen, C.A. and R.J. Gutiérrez. 1993. *Population ecology of the California spotted owl in the central Sierra Nevada: Annual results, 1992. Technical Report 1993-14,*

Nongame Bird and Mammal Section Report. State of California, Department of Fish and Game, Nongame Bird and Mammal Section.

- Moen, C.A. and R.J. Gutiérrez. 1997. California spotted owl habitat selection in the central Sierra Nevada. *J. Wildlife Management* 61(4):1281-1287.
- Moen, Christine A., A.B. Franklin, and R.J. Gutiérrez. 1991. Age Determination of Subadult Northern Spotted Owls in Northwestern California. *Wildlife Society Bulletin* 19:489-493.
- Molina, R. and J.M. Trappe. 1982. Patterns of ectomycorrhizal host specificity and potential among Northwest conifers and fungi. *Forest Science* 28:423-458.
- Molina, R., H. Massicotte, and J.M. Trappe. 1992. Specificity phenomena in mycorrhizal symbioses: community-ecological consequences and practical implications. Pages 357-423 in *Mycorrhizal functioning: an integrative plant-fungal process*. M.F. Allen, ed. Chapman-Hall, New York, N.Y.
- Morganti, R. 1993. Landscape patterns in wildlife habitat: the landscape ecology of northern spotted owl habitat in the eastern high Cascade mountains of southern Oregon. M.S. thesis. University of Oregon, Eugene, OR.*
- Morishita, Teresa Y., J.W. Mertins, D.G. Baker, C.M. Monahan, and D.L. Brooks. 2001. Occurrence and species of lice on free-living and captive raptors in California. *J. Avian Medicine and Surgery* 15 (4), pp. 288-292.
- Moritz, C. 1994. Applications of mitochondrial DNA analysis in conservation: A critical review. *Molecular Ecology* 3:401-411.
- Moritz, C. 1994. "Defining ""Evolutionarily Significant Units"" for conservation." *TREE* 9:373-375.
- Moritz, C. 1995. New uses for new phylogenies. *Philosophical Transactions of the Royal Society: Biological Sciences* 349:113-118.
- Moritz, C. 2002. Strategies to protect biological diversity and the processes that sustain it. *Systematic Biology* 51:238-254.
- Moritz, C., and D. Faith. 1998. Comparative phylogeography and the identification of genetically divergent areas for conservation. *Molecular Ecology* 7:419-429.
- Moseley, C.J., ed. 1992. Northern spotted owl *Strix occidentalis caurina*. Pages 1397-1400 in *Official World Wildlife Fund Guide to Endangered Species of North America, Vol. 3*. Beacham Publishing: Washington DC.
- Moses, R.A., and J.S. Millar. 1992. Behavioral asymmetries and cohesive mother-offspring sociality in bushy-tailed woodrats. *Can. J. Zool.* 70:597-604.
- Moses, R.A. and J.S. Millar. 1994. Philopatry and mother-daughter associations in bushy-tailed woodrats: space use and reproductive success. *Behav. Ecol. Sociobiol.* 35:131-140.
- Mostashari, F., et al. 2003. Dead bird clusters as an early warning system for West Nile virus activity. *Emerging Infectious Diseases* [serial online].
- Mueller, H.C. 1986. The Evolution of Reversed Sexual Dimorphism in Owls: An Empirical Analysis of Possible Selective Factors. *Wilson Bulletin* 98(3):387-406.
- Mulder, B. S., B. R. Noon, T. A. Spies, M. G. Raphael, C. J. Palmer, A. R. Olsen, G. H. Reeves, and H. H. Welsh. 1999. The Strategy and Design of the Effectiveness

- Monitoring Program for the Northwest Forest Plan. Gen. Tech. Rep. PNW-GTR-437, Pac. Northwest Res. Sta., USDA For. Serv., Portland, OR.
- Mulder, B. S. DRAFT. Federal Regulatory Mechanisms 29 pp.
- Murgue, B., H. Zeller, and V. Deubel. 2002. The ecology and epidemiology of West Nile virus in Africa, Europe and Asia. *Current Topics in Microbiology and Immunology*. 267:195-221.
- Murphy, D.D. and B.R. Noon. 1992. Integrating scientific methods with habitat conservation planning: reserve design for northern spotted owls. *Ecological Applications* 2(1):3-17.
- Murphy, E.C. 2003. Personal communication to USFWS (comments for the 5-year review). Personal Communication.*
- Myers, P., L.L. Master, and R.A. Garrett. 1985. Ambient temperature and rainfall: an effect on sex ratio and litter size in deer mice. *J. Mamm.* 66(2):289-298.
- Newton I. 1998. *Population Limitation in Birds*. Academic Press: New York, NY.
- NFPA. 1991. Management of the northern spotted owl on private lands. Wildlife Committee, Northern spotted owl subgroup.
- Nichols, J.D. and J.E. Hines. 2002. Approaches for the direct estimation of λ , and demographic contributions to λ , using capture-recapture data. *J. Applied Statistics* 29(1-4):539-568.
- Noon, B.R. 1990. Prospectus for the future focus of spotted owl research based on the implementation of A Conservation Strategy for the Northern Spotted Owl.
- Noon, B.R. and C.M. Biles. 1990. The mathematical demography spotted owls in the Pacific Northwest USA. *J. Wildlife Management* 54(1):18-27.
- Noon, B.R. and A.B. Franklin. 2002. Scientific research and the spotted owl (*Strix occidentalis*): opportunities for major contributions to avian population ecology. *Auk* 119(2):311-320.
- Noon, B.R. and R.J. Gutiérrez. 1990. Spotted owl habitat utilization studies providing data needed for silvicultural prescriptions. USDA For. Serv., Pac. Southwest Res. Sta., Redwood Sciences Lab, Arcata, CA.
- Noon, B.R., and K.S. McKelvey. 1992. Stability properties of the spotted owl metapopulation in southern California. Pages 187-206 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Noon, B.R. and K.S. McKelvey. 1996. Management of the spotted owl: a case history in conservation biology. *Annual Review of Ecology and Systematics* 27:135-162.
- Noon, B.R. and K.S. McKelvey. 1996. A common framework for conservation planning: Linking individual and metapopulation models. Pages 139-165 in D.R. McCullough, ed. *Metapopulations and wildlife conservation*. Island Press: Covelo, CA.
- Noon, B.R. and D.D. Murphy. 1997. Management of the spotted owl: the interaction of science, policy, politics, and litigation. Pages 432-441 in G. Meffe and R. Carroll,

- eds. Principles of Conservation Biology, Second ed. Sinauer Associates, Sunderland, MA.
- Noon, B.R. and H.F. Sakai. 1997. Between-habitat movement of dusky-footed woodrats and vulnerability to predation. *J. Wildlife Management* 61(2):343-350.
- Noon, B.R., K.S. McKelvey, D.W. Lutz, W.S. LaHaye, E.J. Gutiérrez, and C.A. Moen. 1992. Estimates of demographic parameters and rates of population change. Pages 175-186 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. Gen. Tech. Rep. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Noon, B.R., L.L. Eberhardt, A.B. Franklin, J.R. Nichols, and K.H. Pollock. 1993. *A survey design to estimate the number of territorial spotted owls in Olympic National Park*. Unpublished review panel report to the National Park Service.
- Norberg, R.Å. 1977. Occurrence and independent evolution of bilateral ear symmetry in owls and implications on owl taxonomy. *Philosophical Transactions of the Royal Society of London Series B* 282 (991):325-408.
- Norse, E.A. 1990. *Ancient forests of the Pacific Northwest*. The Wilderness Society, Washington DC.
- North, M. 1991. *Interim report on forest stand structure of spotted owl habitat on the McKenzie Resource Area*. College of Forest Resources, University of Washington, Seattle, Washington.
- North, M. 1993. *Stand structure and truffle abundance associated with northern spotted owl habitat*. Ph.D. dissertation, University of Washington, Seattle, WA.
- North, M. and J. Franklin. 1990. *Post-disturbance legacies that enhance biological diversity in a Pacific Northwest old-growth forest*. *Northwest Environmental Journal* 6(2):427-429.
- North, M. and J. Franklin. 1991. *Forest stand structure of disturbed spotted owl habitat in the Pacific Northwest*. Grant Proposal. College of Forest Resources, University of Washington, Seattle, WA.
- North, M., G. Steger, R. Denton, G. Eberlein, T. Munton, and K. Johnson. 2000. Association of weather and nest-site structure with reproductive success in California spotted owls. *J. Wildlife Management* 64(3):797-807.
- North, M.P., J.F. Franklin, A.B. Carey, E.D. Forsman, and T.E. Hamer. 1999. Forest stand structure of the northern spotted owl's foraging habitat. *Forest Science* 45(4):520-527.
- North, M.P. and J.H. Reynolds. 1996. Microhabitat Analysis Using Radiotelemetry Locations and Polytomous Logistic Regression. *J. Wildlife Management* 60(3):639-653.
- Northwest Forestry Association. 1989. *Review of the Wilderness Society's old growth status report by the Northwest Forestry Association*. Northwest Forestry Assn., Portland, OR.
- Nott, M. Philip and D.F. DeSante. 2002. Demographic Monitoring and the Identification of Transients in Mark-Recapture Models. Pages 727-736 in J.M. Scott, P.J.

- Heglund, M.M. Morrison, J.B. Haufler, M.G. Raphael, W.A. Wall, and F.B. Samson, eds. Predicting Species Occurrences: Issues of Accuracy and Scale. Island Press, Washington DC.
- Nusser, J.A., R. Goto, D. Ledig, R.C. Fleischer, and M.M. Miller. 1996. Genetic diversity of populations of the endangered light-footed clapper rail revealed by RAPD analysis. *Molecular Ecology* 5:463-472.
- Oberholser, H.C. 1915. Critical notes on the subspecies of the spotted owl, *Strix occidentalis (xantus)*. Pages 251-257 in Proceedings of the United States National Museum. Smithsonian Institution, Washington DC, Volume 49 No. 2106.
- Oeming, A.F. and E.T. Jones. 1955. The barred owl in Alberta. *The Canadian Field-Naturalist* 69:66-67.
- Ogan, C. and H. Sakai. *Prey selection of northern spotted owls (Strix occidentalis caurina) in a study area located in the Klamath Province. USDA For. Serv., Pac. Southwest Forest and Range Exp. Sta., Redwood Sciences Laboratory, Arcata, CA.*
- O'Halloran, K.A., A.G. Gunderson, and R.S. Holthausen. 1991 Spotted Owl monitoring in Washington and Oregon. Wildlife and Vegetation of Unmanaged Douglas-Fir Forests, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", U.S. Department of Agriculture, Forest Service, Pacific NW Research Station, Portland, OR, March 29-31, 1989."
- Oliver, C.D. 1981. Forest development in North America following major disturbances. *Forest Ecology and Management* 3:153-168.
- Olson, Deanna H., J.C. Hagar, A.B. Carey, J.H. Cissel, and F.J. Swanson. Wildlife of Westside and High Montane Forests. Pages 187-212 In Johnson, D.H., O'Neil, T.A. Wildlife-habitat relationships in Oregon and Washington. Oregon State University Press, Corvallis, OR.
- Olson, G.S., E. Glenn, R.G. Anthony, E.D. Forsman, J.A. Reid, P.J. Loschl, and W.J. Ripple. *In Review. Modeling demographic performance of northern spotted owls relative to forest habitat in Oregon. J. Wildlife Management.*
- Olson, G.S., R.G. Anthony, E.M. Glenn, E.D. Forsman, J.A. Reid, and W.J. Ripple. *In Prep. Demographic performance of northern spotted owls in relation to landscape cover types in the central Oregon Coast Range.*
- Orange County Register. 2004. "Another View: "Science" and the decline of the spotted owl." *The Orange County Register*, July 15, 2004, Orange County, CA.
- Oregon Department of Forestry. 1991. *Oregon programs contributing to northern spotted owl conservation.*
- Oregon Department of Forestry. 1994. *Spotted Owl. Forest Practices Notes 8 (revised): 1-4.*
- Oregon Department of Forestry, Coos District. 1995. *Elliott State Forest Habitat Conservation Plan. Oregon Department of Forestry, Coos District. Final Plan. May 1995.*

- Oregon Department of Forestry. 2000. Forest Practices Administrative Rules and Forest Practices Act. Oregon Dept. of Forestry: Salem, OR.*
- Oregon Department of Forestry. 2000 January 2000 Oregon Department of Forestry Forest Practice Administrative Rules and Forest Practice Act. Chapter 629, Forest Practice Administration. Oregon Department of Forestry. Oregon Forest Practice Act. Chapter 629. January 2000.*
- Oregon Department of Forestry. 2004. Elliott State Forest Management Plan (Draft). Oregon Department of Forestry. Elliott State Forest Management Plan (Draft Plan). May 2004.*
- Oregon Natural Heritage Program. 1993. Threatened, and endangered plants and animals in Oregon. Oregon Natural Heritage Program: Portland, OR.*
- Orr, R.T. 1971. Vertebrate Biology. W.B. Saunders, Philadelphia, PA.
- Ottvall R., S. Bensch, G. Walinder and J.T. Lifjeld. 2002. No evidence of genetic differentiation between lesser redpolls *Carduelis flammea cabaret* and common redpolls *Carduelis f. flammea*. *Avian Science* 2:237–244.
- Pacific Lumber Company. 1999. Habitat conservation plan for the properties of The Pacific Lumber Company, Scotia Pacific Company LLC, and Salmon Creek Corporation. The Pacific Lumber Company: Scotia, CA.*
- Pacific Lumber Company. 2004. Habitat Conservation Plan- 2003 Northern Spotted Owl Annual Report. Pacific Lumber Company, Scotia, CA.*
- Pagel, Joel E., K. Byford, E. Greenquist, R. Larson, W. Logan, J. Millman, D. Pengeroth. 1999. The Willamette Province Fiscal Year 1999 Habitat Modification Biological Assessment for Effects to Listed Species. USDA For. Serv. R-6 (Oregon and Washington).*
- Parkes, K.C. 1982. Subspecific taxonomy: Unfashionable does not mean irrelevant. *Auk* 99: 596–598.
- Patla, S.M. 1997. Nesting ecology and habitat of the Northern Goshawk in undisturbed and timber harvest areas on the Targhee National Forest, Greater Yellowstone Ecosystem. M.S. thesis, Idaho State Univ, Idaho Falls, ID.*
- Paton, P.W.C. 1994. The effect of edge on avian nest success: How strong is the evidence? *Conservation Biology* 8:17-26.
- Paton, P.W.C., C.J. Zabel, B. Bingham, H. Sakai, and C. Ogan. 1990. Examination of home range size and habitat use of the spotted owl in the Klamath Province. Progress report covering the period from: spring 1987 - December 1989. USDA For. Serv., Pac. Southwest Forest and Range Exp. Sta., Redwood Sciences Laboratory, Arcata, CA.
- Paton, P.W.C., C.J. Zabel, D.L. Neal, G.N. Steger, N.G. Tilghman, and B.R. Noon. 1991. Effects of radio tags on spotted owls. *J. Wildlife Management* 55(4):617-622.
- Patten, M.A. and P. Unitt. 2002. Diagnosability versus mean differences of Sage Sparrow subspecies. *Auk* 119:26-35.
- Pearson, R. DRAFT. Commercial Thinning and Spotted Owls. 9 pp.
- Pearson, R.R. 1992. Analysis of northern spotted owl survey - Draft. USDA For. Serv., Gifford Pinchot National Forest, WA.

- Pearson, R.R. Draft. Spotted Owl Habitat Considerations With Regard to Barred Owl Presence. Unpublished draft, Packwood, WA.
- Pearson, Robert R. and K.B. Livezey. 2003. Distribution, numbers, and site characteristics of spotted owls and barred owls in the Cascade Mountains of Washington. *J. Raptor Res.* 37(4):265-275.
- Peeler, K.C., A.B. Carey, J.H. Guetterman, and P.J. Loschl. 1991. Temporal variation in Spotted Owl home ranges. *Wildlife and Vegetation of Unmanaged Douglas-Fir Forests*, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991. "Abstract of presentation, Symposium on "Old-Growth Douglas-Fir Forests: Wildlife Communities, and Habitat Relationships", U. S. Department of Agriculture, Forest Service, Pacific NW Research Station, Portland, OR, March 29-31, 1989."
- Peery, M.Z., R.J. Gutiérrez, and M.E. Seamans. 1999. Habitat composition and configuration around Mexican Spotted Owl nest and roost sites in the Tularosa Mountains, New Mexico. *J. Wildlife Management* 63:36-43.
- Peffer, R.D. 2001. *Small mammal habitat selection in east slope Cascade Mountain riparian and upland habitats. M.S. thesis, Eastern Washington University, Cheney, WA.*
- Pennock, D.S. and W.W. Dimmick. 1997. "Critique of the Evolutionarily Significant Unit as a Definition for "Distinct Population Segments" under the U.S. Endangered Species Act." *Conservation Biology* 11:611-619.
- Perkins, J.P. 2000. Land cover at northern spotted owl nest and non-nest sites, east-central coast ranges, Oregon. M.S. thesis. Department of Forest Resources, Oregon State University, Corvallis, OR.
- Perkins, J.P., J.A. Thraikill, W.J. Ripple, and K.T. Hershey. 1997. Landscape patterns around northern spotted owl (*Strix occidentalis caurina*) nest sites in Oregon's central Coast Ranges. Page 314 in J.R. Duncan, D.H. Johnson, and T.H. Nicholls, eds. *Biology and Conservation of Owls of the Northern Hemisphere: Second International Symposium*. February 5-9, 1997. Winnipeg, MB, Canada. USDA, For. Serv. GTR-NC-190, North Central Forest Exp. Sta., St. Paul, MN.
- Perry, D.A., M.P. Amaranthus, J.G. Borchers, S.L. Borchers, and R.E. Brainerd. 1989. Bootstrapping in Ecosystems: Internal interactions largely determine productivity and stability in biological systems with strong positive feedback. *BioScience* 39(4):230-237.
- Petersen, L.R. and J.T. Roehrig. 2001. West Nile virus: a reemerging global pathogen. *Emerging Infectious Diseases* 7(4):611-4.
- Peterson, A.T. and C.R. Robins. 2003. Using ecological-niche modeling to predict barred owl invasions with implications for spotted owl conservation. *Conservation Biology* 17(4):1161-1165.
- Petty, S.J. 1999. Diet of tawny owls (*Strix aluco*) in relation to field vole (*Microtus agrestis*) abundance in a conifer forest in northern England. *J. Zool. (Lond.)* 248:451-465.
- Pidgeon, A.M. 1995. *Habitat characteristics of northern spotted owls in the unmanaged forest of the Yakama Indian Reservation, eastern Washington. M.S. thesis, Central Washington University, Ellensburg, WA.*

- Pimm, S.L. 1991. *The multi-resource strategy for the conservation of the northern spotted owl. A critique of the first revision draft (December 1991) of the Spotted Owl subgroup*
- Pious, M. 1994. *Nesting and roosting habitat of spotted owls in managed Redwood/Douglas-fir forests, California. Louisiana-Pacific Corporation, Forestry Department, Calpella, CA.*
- Pious, M. 1995 *Home range and habitat use of spotted owls in managed Redwood/Douglas fir forests, California. Louisiana-Pacific Corporation, Forestry Department, Calpella, CA.*
- Pitra, C., D. Lieckfeldt, and J.C. Alonso. 2000. Concordant population subdivision from mitochondrial and nuclear DNA sequences of Great Bustards, *Otis tarda*, in Europe. *Molecular Ecology* 9:1165-1170.
- Porter, Warren P., J.L. Sabo, C.R. Tracy, O.J. Reichman, and N. Ramankutty. 2002. Physiology on a Landscape Scale: Plant-Animal Interactions. *Integ. And Comp. Biol.* 42:431-453.
- Postupalsky, Sergej, J.M. Papp, and L. Scheller. 1997. Nest sites and reproductive success of barred owls (*Strix varia*) in Michigan. In J.R. Duncan, D.H. Johnson and T.H. Nicholls, eds., *Biology and conservation of owls of the northern hemisphere*, USDA For. Serv. GTR-NC-190.
- Pradel, R. 1996. Utilization of capture-mark-recapture for the study of recruitment and population growth rate. *Biometrics* 52:703-709.
- Preble, Edward A. 1941. Barred owl on Athabaska River, Alberta. *Auk* 58:407-408.
- Public Forestry Foundation. 1995. *A forest management strategy for the Fort Lewis Military Reservation. Fort Lewis, Washington*
- Pyle, P., S.N.G. Howell, D.F. DeSante, R.P. Yunick, and M. Gustafson. 1998 *Identification Guide to North American Birds. Part 1: Columbidae to Ploceidae. Pages 67, 87-90 Slate Creek Press, Bolinas, CA.*
- Ramsey, F.L. and V.M. Lesser. 1995. *General survey and monitoring plan. Northern spotted owl. Washington, Oregon, Northern California. Scope and recommendations.*
- Ramsey, F.L., M. McCracken, J.A. Crawford, M.S. Drut, and W.J. Ripple. 1994. Habitat association studies of the northern spotted owl, sage grouse, and flammulated owl. Pages 189-211 in N. Lange, L. Ryan, L. Billard, D. Brillinger, L. Conquest, and J. Greenhouse, eds. *Case Studies in Biometry. John Wiley and Sons, Inc., New York, NY.*
- Ranazzi, L., A. Manganaro, R. Ranazzi, and L. Salvati. 2000. Density, territory size, breeding success and diet of Tawny Owl *Strix aluco* population in a Mediterranean urban area (Rome, Italy). *Alauda* 68(2):133-143.
- Rand, A.L. 1944. Birds of the Alaska highway in British Columbia. *Canadian Field-Naturalist* 58(4):111-125.
- Randler, C. 2001. Avian hybridization, mixed pairing and female choice. *Animal Behavior* 63:103-119.

- Ransome, D.P. and T.P. Sullivan. 1999. *Influence of commercial thinning on flying squirrel populations in Spotted Owl Conservation Areas (SOCAs)*. Unpublished project completion report to Forest Renewal British Columbia and the Science Council of British Columbia, Vancouver, BC, Canada.
- Ransome, Douglas B. and T.P. Sullivan. 1997. Food limitations and habitat preference of *Glaucomys sabrinus* and *Tamiasciurus hudsonicus*. *J. Mamm.* 78(2):538-549.
- Raphael, M.G. 1988. Long-term trends in abundance of amphibians, reptiles, and mammals in Douglas-fir forests of Northwestern California. Pages 23-31 in *Proceedings of the symposium: Management of amphibians, reptiles, and small mammals in North America*. USDA For. Serv. Gen. Tech. Rep. GTR-RM-166. Rocky Mtn. Res. Sta. Fort Collins, CO.
- Raphael, M.G. and R.S. Holthausen. 2002. Using a spatially explicit model to analyze effects of habitat management on northern spotted owls. "The use of demographic data and a spatially explicit population model to analyze effects of habitat management on northern spotted owls" Pages 701-712 in J.M. Scott, P.J. Heglund, and M.L. Morrison, eds. *Predicting Species Occurrences: issues of scale and accuracy*. Island Press: Washington DC.
- Raphael, M.G., B.M. Galleher, R.S. Holthausen, C. Ogden and J. Michaels. 1995. Searching for efficiency: an analysis of the contribution of federal and non-federal habitat to persistence of the northern spotted owl on the Olympic Peninsula, Washington. Supplement to PNW-GTR352. U.S. Fish & Wildlife Service, Ecological Services, Olympia WA.
- Raphael, M.G., J.A. Young, and E.D. Forsman. Distribution and trend habitat of the northern spotted owl.
- Raphael, M.G., J.A. Young, K. McKelvey, B.M. Galleher and K.C. Peeler. 1994. *A simulation analysis of population dynamics of the northern spotted owl in relation to forest management alternatives*. Unpublished draft.
- Raphael, M.G., J.A. Young, K. McKelvey, B.M. Galleher, K.C. Peeler. 1994. A Simulation Analysis of Population Dynamics of the Northern Spotted Owl in Relation to Forest Management Alternatives. Pages 1-16 in Final Supplemental Environmental Impact Statement on Management of Habitat for Late-Successional and Old-Growth Forest Related Species Within the Range of the Northern Spotted Owl. Appendix J3, Additional Analysis and Discussion. USDA, Forest Service, USDI, Bureau of Land Management.
- Raphael, M.G., J.A. Young, K. McKelvey, B.M. Galleher, K.C. Peeler. 1994. Addendum to: A Simulation Analysis of Population Dynamics of the Northern Spotted Owl in Relation to Forest Management Alternatives. March 31, 1994.
- Raphael, M.G., R.G. Anthony, S. DeStefano, E.D. Forsman, A.B. Franklin, R. Holthausen, E.C. Meslow, and B.R. Noon. 1996. Use, interpretation, and implications of demographic analyses of northern spotted owl populations. *Studies in Avian Biology* 17:102-112.
- Rappole, J.H., S.R. Derrickson, and Z. Hubálek. 2000. Migratory birds and spread of west Nile virus in the western hemisphere. *Emerging Infectious Diseases* 6(4):319-328.

- Reese, K.P. and J.T. Ratti. 1988. Edge effect: a concept under scrutiny. Transactions of 53rd North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 53:127-136.
- Regional Implementation Monitoring Team (RIMT). 2000. Results of the FY1999 Northwest Forest Plan Implementation Monitoring Program. USDA Forest Service, Bureau of Land Management, and U. S. Fish and Wildlife Service. Final Report: Part I. Portland, OR.*
- Reich, R.M. 1991. Statistical review of the 1990 status review of the northern spotted owl, *Strix occidentalis caurina*. Technical Bulletin 91-10. American Forest Resources Alliance, Washington, DC.
- Reichard, Timothy A. 1974. Barred owl sightings in Washington. *Western Birds* 5:138-140.
- Reid, J.A., E.D. Forsman, and J.B. Lint. 1996. Demography of northern spotted owls on the Roseburg District of the Bureau of Land Management, Oregon. *Studies in Avian Biology* 17:59-66.
- Reid, J.A., R.B. Horn, and E.D. Forsman. 1999. Detection rates of spotted owls based on acoustic-lure and live-lure surveys. *Wildlife Society Bulletin* 27(4):986-990.
- Reijnen, T., R. Foppen, C. Ter Braak, and J. Thissen. 1995. The effects of car traffic on breeding bird population in the woodland: III--Reduction of density in relation to the proximity of main roads. *J. Applied Ecology* 32:187-202.
- Reisen, W.K., et al. 2002. Simulated overwintering of encephalitis viruses in diapausing female *Culex tarsalis* (Diptera: Culicidae). *J. of Med. Entom.* 39(1):226-233.
- Reynolds, R.T., R.T. Graham, M.H. Reiser, R.L. Bassett, P.L. Kennedy, D.A. Boyce, Jr., G. Goodwin, R. Smith, E.L. Fisher. 1992. Management recommendations for the northern goshawk in the southwestern United States. USDA Forest Service, Rocky Mountain Forest and Range Exp. Station. Gen. Tech. Rep. RM-217. Fort Collins, CO.
- Reynolds, R.T., E.C. Meslow and H.M. Wight. 1982. Nesting habitat of coexisting *Accipiters* in Oregon. *J. Wildl. Manage.* 46:124-138.
- Ribe, R., R. Morganti, D. Hulse and R. Shull. 1998. A management driven investigation of landscape patterns of northern spotted owl nesting territories in the high Cascades of Oregon. *Landscape Ecology* 13:1-13.
- Ribi, G. and S. Oertli 2000. Frequency of interspecific matings and of hybrid offspring in sympatric populations of *Viviparus ater* and *V. conotectus* (Mollusca: Prosobranchia). *Biological J. of the Linnean Soc.* 71(1):133-143.
- Richards, William H., D.O. Wallin, and N.H. Schumaker. 2002. An Analysis of Late-Seral Forest Connectivity in Western Oregon, U.S.A. *Conservation Biology* 16:1409-1421.
- Ridgeway. 1914. Birds of Middle and North America VI. Pages 648-654 in Bulletin 50, United States National Museum.
- Rignall, J.A. 1973. *Owls of the World*. E.P. Dutton & Co., Inc., New York, NY.

- Riley, S.P.D., H.B. Shaffer, S.R. Voss, and B.M. Fitzpatrick. 2003. Hybridization between a rare, native tiger salamander (*Ambystoma californiense*) and its introduced congener. *Ecological Applications* 13(5):1263-1275.
- Rinkevich, S.E. and R.J. Gutiérrez. 1996. Mexican spotted owl habitat characteristics in Zion National Park. *J. Raptor Res.* 30(2):74-78.
- Ripple, W.J., D.H. Johnson, K.T. Hershey, and E.C. Meslow. 1990. Forest fragmentation near spotted owl nest sites in western Oregon. Unpublished report. Oregon Cooperative Fish & Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.
- Ripple, W.J., D.H. Johnson, K.T. Hershey, and E.C. Meslow. 1991. Old-growth and mature forests near spotted owl nests in western Oregon. *J. Wildlife Management* 55(2):316-318.
- Ripple, W.J., P.D. Lattin, K.T. Hershey, F.F. Wagner, and E.C. Meslow. 1997. Landscape composition and pattern around northern spotted owl nest sites in southwest Oregon. *J. Wildlife Management* 61(1):151-158.
- Ripple, William J., K.T. Hershey, and R.G. Anthony. 2000. Historical Forest Patterns in Oregon's Central Coast Range. *Biological Conservation* 93(2000):127-133.
- Risch, M. and L. Andersen. 1998. Non-random mating of crows (*Corvus corone*) in a hybrid zone of carrion crow (*C. c. corone*) and hooded crow (*C. c. cornix*). *J. fur Ornithologie* 139:173-177.
- Risenhoover, K.L., T.C. McBride, and S.B. Murden. 2002. *Robert B. Eddy Tree Farm HCP effectiveness monitoring report: 1996-2000. Port Blakely Tree Farms Technical Report RD-02-01.*
- Rissler, L.J. 1995. *Habitat Structure Analyses of northern goshawk, Accipiter gentilis atricapillus, and northern spotted owl, Strix occidentalis caurina, nesting stands in the eastern Cascades. M.S. thesis, Utah State University, Logan, UT.*
- Rizzo, D.M., M. Garbeloto, J.M. Davidson, G.W. Slaughter, and S.T. Koike. 2002. Phytophthora ramorum as the cause of extensive mortality of Quercus spp. and Lithocarpus densiflorus in California. *Plant Disease* 86:205-214.
- Rizzo, D.M., M. Garbeloto, J.M. Davidson, G.W. Slaughter, and S.T. Koike. 2002b. Phytophthora ramorum and Sudden Oak Death in California: I. Host relationships. in: R. Standiford and D. McCreary, eds., Proceedings of the fifth symposium on oak woodlands: oaks in California's changing landscape. USDA For. Serv. Gen. Tech. Rep. PSW-GTR-184. Albany, CA.
- Roberts, T.J. 1991. The Birds of Pakistan. Volume 1, Regional studies and non-passeriformes. Oxford University Press, Oxford, England.
- Robertson, W.B. 1959. Barred owl nesting on the ground. *Auk* 76:227-230.
- Rochele, J.A., L.A. Lehman and J. Wisniewski eds. 1999. Forest Fragmentation: Wildlife and Management Implications. Brill Academic Publishing, Leiden, The Netherlands.
- Rodgers, J.A., Jr. and H.T. Smith. 1995. Set-back distances to protect nesting bird colonies from human disturbance in Florida. *Conservation Biology* 9(1):89-99.

- Rogers, T.H. 1966. The fall migration. Northern Rocky Mountain-intermountain region. *Aud. Field Notes* 20:74.
- Rogue River and Siskiyou National Forest Service. 2001. Rogue River/South Coast FY 01/02/03 Timber Sale Project for Medford District, Bureau of Land Management, Rogue River and Siskiyou National Forests Biological Assessment. Rogue River and Siskiyou National Forests, Medford District BLM - Biological Assessment FY 01/02/03.*
- Rohwer, S., E. Bermingham, and C. Wood. 2001. Plumage and mitochondrial DNA haplotype variation across a moving hybrid zone. *Evolution* 55(2): 405-422.
- Roloff, G.J. 1997. *Habitat suitability model for the northern spotted owl. Eastern Washington Cascades Province. Unpublished report. Timberland Resources, Boise Cascade Corporation, Boise, ID.*
- Roloff, G.J. 1998. *Habitat suitability model for the northern spotted owl in the western Oregon Cascades Province. Unpublished report. Timberland Resources, Boise Cascade Corporation, Boise, ID.*
- Root, Terry L., and J.D. Weckstein. 1994. Changes in distribution patterns of select wintering North American birds from 1901 to 1989. *Studies in Avian Biology* 15:191-201.
- Rosenberg D.K, and R.G. Anthony. 1993. Differences in trapping mortality rates of northern flying squirrels. *Can. J. Zool.* 71(3):660-663.
- Rosenberg, D.K. and K.S. McKelvey. 1999. Estimation of habitat selection for central-place foraging animals. *J. Wildlife Management* 63(3):1028-1038.
- Rosenberg, D.K. and R.G. Anthony. 1992. Characteristics of northern flying squirrel populations in young second- and old-growth forests in western Oregon. *Can. J. Zool.* 70:161-166.
- Rosenberg, D.K., and R.G. Anthony. 1993. Differences in Townsend's chipmunk populations between second- and old-growth forests in western Oregon. *J. Wildlife Management* 57:365-373.
- Rosenberg, D.K., C.J. Zabel, B.R. Noon, and E.C. Meslow. 1994. Northern spotted owls: influence of prey base - a comment. *Ecology* 75(5):1512-1515.
- Rosenberg, D. K., K. A. Swindle, and R. G. Anthony. 1994. Habitat associations of California red-backed voles in young and old-growth forests in western Oregon. *Northwestern Science* 68 (4): 266-272.
- Rosenberg, D.K., K.A. Swindle, and R.G. Anthony. 2001 draft. Influence of prey abundance on northern spotted owl reproductive success in western Oregon. Submitted to Journal of Wildlife Management.*
- Rosenberg, D.K., K.A. Swindle, and R.G. Anthony. 2003. Influence of prey abundance on northern spotted owl reproductive success in western Oregon. *Can. J. of Zool.* 81:1715-1725.
- Rosenberg, D.K., J.R. Waters, K.M. Martin, R.G. Anthony, and C.J. Zabel. 1996. The northern flying squirrel in the Pacific Northwest: Implications for management of the greater Fundy ecosystem. Pages 23-29 in. S.P. Flemming ed. *Parks Canada - Ecosystem Approach, Using Population Viability Analysis in Ecosystem*

- Management at Fundy National Park. Proceedings of a Population Viability Workshop.
- Rosenberg, Daniel K., Keith A. Swindle, and Robert G. Anthony. 1994. Habitat associations of California red-backed voles in young and old-growth forests in western Oregon. *Northwestern Science* 68(4):266-272.
- Rosenberg, K. V.a.R.M.G. 1986. Effects of forest fragmentation on vertebrates in Douglas-fir forests. Pages 263-272 in *Wildlife 2000*. Tech. Eds. Verner, J., M.L. Morrison, C.J. Ralph. Univ. of Wisconsin Press, Madison, WI.
- Rosentreter, R., G.D. Hayward, and M. Wicklow-Howard. 1997. Northern Flying Squirrel Seasonal Food Habits in the Interior Conifer Forests of Central Idaho, USA. *Northern Science* 71(2).
- Rowland, M.J. 1993. Northern spotted owl litigation review. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. *J. Raptor Res.* 27(1):57.
- Ruggiero, L.F., K.B. Aubry, A.B. Carey, and M.H. Huff (eds). 1991. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.
- Rybak, E. 2000. Declaration to the United States District Court for the Western District of Washington at Seattle. Civ. No. C99-1050L. USDA Forest Service, Portland, OR.
- Ryder, O.A. 1986. Species conservation and systematics: The dilemma of subspecies. *Trends in Ecology and Evolution* 1:9-10.
- Sæther, B.E. and Ø. Bakke. 2000. Avian Life History Variation and Contribution of Demographic Traits to the Population Growth Rate. *Ecology* 81(3):642-653.
- Sakai, H.F. and B.R. Noon. 1993. Dusky-footed woodrat abundance in different-aged forests in northwestern California. *J. Wildlife Management* 57(2):373-382.
- Sakai, H.F. and B.R. Noon. 1997. Between-habitat movement of dusky-footed woodrats and vulnerability to predation. *J. Wildlife Management* 61(2):343-350.
- Salwasser, H. 1987. Spotted Owls: turning a battleground into a blueprint. *Ecology* 68:776-779.
- Sauer, J.R., J.E. Hines, and J. Fallon. 2004. The North American Breeding Bird Survey, results and analysis, 1966-2003. Version 2004.1. USGS Patuxent Wildlife Research Center, Laurel, MD.
- Saunders, D.A., R.J. Hobbs, C.R. Margules. 1991. Biological consequences of ecosystem fragmentation: A review. *Conservation Biology* 5:18-32.
- Schaldach, W.J., Jr. 1963. The avifauna of Colima and adjacent Jalisco. *Proc. Western Found. Of Vert. Zool.* 1:1-100.
- Schmidt, K. 2001. Spotted owl monitoring and inventory: Redwood National and State Parks 2000 annual report.*
- Schmidt, K. 2002. Spotted owl monitoring and inventory: Redwood National and State Parks 2001 annual report.*

- Schmidt, K. 2003. *Northern spotted owl monitoring and inventory, Redwood National and State Parks, 2002 annual report. Redwood National and State Parks, Orick, CA.*
- Schreiber, B.P. 1990. *1990 Spotted owl survey of state lands in western Oregon. Oregon Department of Fish and Wildlife.*
- Schumaker, Nathan. 1994. *Using Landscape Indices to Predict Habitat Connectivity. Manuscript submitted to Ecology, October 7, 1994. College of Forest Resources AR-10, University of Washington, Seattle WA.*
- Schumaker, N. 1995. *Habitat connectivity and spotted owl population dynamics. M.S. thesis, College of Forest Resources, University of Washington, Seattle, WA.*
- Schwartz, M. and S. Haig 2004. *Hybridization in threatened and endangered species: a biological and legal perspective. Abstract of symposium at SCB meeting August 2004.*
- Scientific Analysis Team. Thomas, J.W., M.G. Raphael, R.G. Anthony, E.D. Forsman, A.G. Gunderson, R.S. Holthausen, B G. Marcot, G.H. Reeves, J.R. Sedell, and D.M. Solis. 1993. *Viability assessments and management considerations for species associated with late-successional and old-growth forests of the Pacific Northwest. USDA Forest Service, Portland, OR.*
- Seaman, D.E. 1996. *Spotted owl monitoring in Olympic National Park. 1996 annual report. National Biological Service, Forest and Rangeland Ecosystem Science Center, Olympic Field Office, Port Angeles, WA*
- Seaman, D.E. 1997. *Abundance and population characteristics of northern spotted owl (Strix occidentalis caurina) in Olympic National Park, Washington. Page 381 in J.R. Duncan, D.H. Johnson, and T.H. Nicholls, eds. Biology and Conservation of Owls of the Northern Hemisphere: Second International Symposium. February 5-9, 1997. Winnipeg, MB, Canada. USDA For. Serv. GTR-NC-190, North Central Forest Exp. Sta., St. Paul, MN.*
- Seaman, D.E. 1998. *Spotted owl monitoring in Olympic National Park. 1997 Annual Report. USGS-Forest and Rangeland Ecosystem Science Center, Olympic Field Station, Port Angeles WA.*
- Seaman, D.E. 1999. *Spotted owl monitoring in Olympic National Park: 1998 annual report. USGS, Biological Resources Division, Port Angeles, WA.*
- Seaman, D.E. and B.B. Moorehead. 1993. *Spotted owl inventory-monitoring, Olympic National Park. National Biological Service, Forest and Rangeland Ecosystem Science Center, Olympic Field Office and Natural Resources Branch, Olympic National Park, Port Angeles, WA.*
- Seaman, D.E., B.B. Moorhead, and D. Houston. 1992. *Spotted owl inventory and monitoring in Olympic National Park. Division of Natural Science Studies. National Biological Service, Forest and Rangeland Ecosystem Science Center, Olympic Field Office and Natural Resources Branch, Olympic National Park, Port Angeles, WA.*
- Seaman, D.E., S.A. Gremel, S.L. Roberts, and D.W. Smith. 1996. *Spotted owl inventory-monitoring in Olympic National Park. Final report. February 1992 - September 1995. National Biological Service, Forest and Rangeland Ecosystem Science*

- Center, Olympic Field Office and Natural Resources Branch, Olympic National Park, Port Angeles, WA.*
- Seaman, D.E., B.R. Noon, L.L. Eberhardt, A.B. Franklin, J.R. Nichols, K.H. Pollock, and R.J. Fredrickson. *In Prep.* A survey design to estimate the number of territorial spotted owls in Olympic National Park. *Conservation Biology*.
- Seamans, M.E. and R.J. Gutiérrez. 1995. Breeding habitat of the Mexican Spotted Owl in the Tularosa Mountains, New Mexico. *The Condor* 97:944-952.
- Seamans M.E. and R.J. Gutiérrez. 1999. Diet composition and reproductive success of Mexican Spotted Owls. *J. Raptor Res.* 33(2):143-148.
- Seamans, M.E., R.J. Gutiérrez, C.A. Moen, and M.Z. Peery. 2001. Spotted owl demography in the central Sierra Nevada. *J. Wildlife Management* 65(3):425-431.
- Seamans, M.E., R.J. Gutiérrez, and C.A. May. 2002. Mexican Spotted Owl (*Strix occidentalis*) population dynamics: Influence of climatic variation on survival and reproduction. *Auk* 119:321-334.
- Seber, G.A.F. 1996. A note on the multiple recapture census. *Biometrika* 52:249-259.
- Seim, S.G. and M.E. Vaughn. 1991. 1990 spotted owl studies: Clemons Tree Farm, Grays Harbor County, Washington. Unpublished report prepared by Beak Consultants for Weyerhaeuser Company, Tacoma, WA.
- Self, S.E. and E.C. Murphy. 1995. Five year review of northern spotted owl performance for home ranges containing either deficit or excess habitat, as defined by Sierra Pacific Industries Spotted Owl Management Plan.
- Sharp, D.U. 1989. Range extension of the barred owl in western Washington and first breeding record on the Olympic Peninsula. *J. Raptor Res.* 23:179-180.
- Shea, D.S. 1974. Barred owl records in western Montana. *Condor* 76:222.
- Sheppard, G. and A. Farnsworth. 1997. Fire effects and the use of prescribed fire in Mexican spotted owl habitat. Pages 131-135 in *Proceedings - Fire Effects on Rare and Endangered Species and Habitats Conference*, November 13-16, 1995, Coeur d' Alene, ID.
- Sheriff, S.L. 1991. *Statistical review of the 1990 status review: northern spotted owl. Technical Bulletin 91-08. American Forest Resource Alliance, Washington, DC.*
- Sibley, C.G. and B.L. Monroe, Jr. 1990. *Distribution and Taxonomy of Birds of the World.* Yale University Press, 1990. pp.168-183.
- Sibley, C.G. and J.E. Ahlquist. 1972. A Comparative Study of the Egg-White Proteins of non-Passerine Birds. Peabody Museum of Natural History and Department of Biology, Yale University. Bulletin 39.
- Sibley, C.G., and J.E. Ahlquist. 1990. *Phylogeny and Classification of Birds. A Study in Molecular Evolution.* Yale University Press, 1990. pp. 402-411, 847.
- Simberloff, D. 1987. The Spotted Owl fracas: mixing academic, applied, and political ecology. *Ecology* 68:766-772.
- Simberloff, D. 1996. Hybridization between native and introduced wildlife species: importance for conservation. *Wildlife Biology* 2(3):143-150.

- Simpson Timber Company. 1990. A survey for the northern spotted owl on Simpson Timber Company lands. Unpublished report. Hosey and Associates Engineering Company.*
- Simpson Timber Company. 1991. A survey for northern spotted owls. Simpson Timber Company Lands in Mason County, Washington. Resources Northwest, Bellevue, WA.*
- Simpson Timber Company. 1993. First Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act*
- Simpson Timber Company. 1994. Status of northern spotted owls in managed young growth timberlands in northern California, January 1994.*
- Simpson Timber Company. 1994. Second Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act.*
- Simpson Timber Company. 1996. Status of northern spotted owls in managed young growth timberlands in northern California, January 1996. Annual Report.*
- Simpson Timber Company. 1996. Third Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act.*
- Simpson Timber Company. 1999. Sixth Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act.*
- Simpson Timber Company. 1997. Fourth Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act.*
- Simpson Timber Company. 1998. Fifth Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act.*
- Simpson Timber Company. 2000. Northern spotted owl studies: Simpson Timber Company California Timberlands 1990-1999 Simpson Timber Company, Arcata, CA*

- Simpson Timber Company. 2001. Eighth Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act*
- Simpson Timber Company. 2002. Incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act.*
- Simpson Timber Company. 2002. Ninth Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act. .*
- Simpson Timber Company. 2003. Tenth Annual HCP Report. Submitted to the U.S. Department of the Interior, Fish and Wildlife Service, in fulfillment of requirements specified in condition I. Of permit #PRT-767798, incidental take permit for northern spotted owls under section 10(a)(1)(B) of the Endangered Species Act.*
- Singleton, P.H. and J.F. Lehmkuhl. 2001. Classification of habitat pattern around spotted owl sites in the eastern Cascades, Washington. The Wildlife Society 2001 Conference, Reno/Tahoe, Nevada, September 25-29, 2001.
- Sisco, C.L. 1984. Winter ecology of radio-tagged Spotted Owls on Six Rivers National Forest, Humboldt County, California. Proj. W-65-R-1, Job II-3. USDA Forest Service. *Unpubl. Tech. Rep. Six Rivers National Forest, Eureka, CA.*
- Sisco, C.L. 1990. Seasonal home range and habitat ecology of spotted owls in northwestern California. M.S. thesis, Humboldt State University, Arcata, CA.
- Slankis, V. 1974. Soil factors influencing formation of mycorrhizae. *Annual Review of Phytopathology* 12:437-457.
- Smith, Dwight G., A. Devine, and D. Devine. 1983. Observations of Fishing by a Barred Owl. *J. Field Orn.* 54(1):88-89.
- Smith, H.M., and F.N. White. 1956. A case for the trinomen. *Systematic Zoology* 5: 183-190.
- Smith, J.E, R. Molina, and D.A. Perry. 1995. Occurrence of ectomycorrhizae on ericaceous and conifer seedlings grown in soils from the Oregon Coast Range. *New Phytol.* 129:73-81.
- Smith, Michael R., P.W. Mattocks, Jr., and K.M. Cassidy. 1997. Breeding Birds of Washington State Location Data and Predicted Distributions. Seattle Audubon Society Publ., Seattle, WA U.S.A. , vol. 4. In K.M. Cassidy, C.E. Grue, M.R. Smith, and K.M. Dvornich, eds., Part of Washington State Gap Analysis: Final Report.*
- Smith, R.B., W.S. LaHaye, R.J. Gutiérrez, and G.S. Zimmerman. 2002. Spatial habitat characteristics of an insular spotted owl (*Strix occidentalis*) populations in southern California. Pages XX-XX in Newton I., R. Kavanagh, J. Olsen, and I. Taylor, eds. *Ecology and Conservation of Owls*. CSIRO Publishing, Collingwood, Victoria, Australia.

- Smith, Richard B., M.Z. Peery, R.J. Gutiérrez, and W.S. LaHaye. 1999. The relationship between spotted owl diet and reproductive success in the San Bernardino Mountains, California. *Wilson Bulletin* 111(1):22-29.
- Smith, T.B., C.J. Schneider and K. Holder. 2001. Refugial isolation versus ecological gradients: Testing alternative mechanisms of evolutionary divergence in four rainforest vertebrates. *Genetica* 112-113:383-398.
- Smith, W.P., R.G. Anthony, J.R. Waters, N.L. Dodd, and C.J. Zabel. 2003. Smith, W.P., R.G. Anthony, J.R. Waters, N.L. Dodd, and C.J. Zabel. Ecology and conservation of arboreal rodents of western coniferous forests. 2003. Chapter 6 in C.J. Zabel and R.G. Anthony, eds., *Mammal Community Dynamics: Management and Conservation in the Coniferous Forests of Western North America*. Cambridge University Press: Cambridge, England.
- Smithburn, K.C., et al. 1940. A neurotropic virus isolated from the blood of a native of Uganda. *American Journal of Tropical Medicine*. 20: p. 471-492.
- Snetsinger, S.D., B.B. Moorhead, R.J. Fredrickson, and D.E. Seaman. 1991 Spotted owl inventory monitoring in Olympic National Park. 1991 Progress Report. U.S. Department of the Interior, National Park Service, Olympic National Park, Port Angeles, WA.*
- Solis, D.M., Jr. 1983 Summer habitat ecology of Spotted Owls in Northwestern California. M.S. thesis, Humboldt State University, Arcata, CA*
- Solis, D.M. 1995 Federal land contribution of the Northwest Forest Plan to the northern spotted owl.*
- Solis, D.M. and R.J. Gutiérrez. 1990. Summer habitat ecology of northern spotted owls in northwestern California. *Condor* 92(3):739-748.
- Soltis, D.E., M.A. Gitzendanner, D.D. Strenge, and P.S. Soltis. 1997. Chloroplast DNA intraspecific phylogeography of plants from the Pacific Northwest. *Plant Systematics and Evolution* 206: 353-373.
- Songer, M.A., M.V. Lomolino, and D.R. Perault. 1997. Niche dynamics of deer mice in a fragmented, old-growth-forest landscape. *J. Mammalogy* 78(4):1027-1039.
- Sonner, S. 2004. Feds accused of exaggerating fire impact. Online posting. August 6, 2004. Accessed 8/6/2004 <http://www.duluthsuperior.com/mld/duluthsuperior/9337498.htm> (also available on other news websites).
- Sorenson, M.D. and R.C. Fleischer. Multiple independent transpositions of mitochondrial DNA control region sequence to the nucleus. *Proceedings of the National Academy of Sciences* 93:15239-15243.
- Southern, H.N. 1970. The natural control of a population of Tawny Owls *Strix aluco*. *J. Zool.* 162:197-285.
- Sovern, S.G., E.D. Forsman, B.L. Biswell, D.N. Rolph, and M. Taylor. 1994. Diurnal behavior of the spotted owl in Washington. *Condor* 96(1):200-202.
- Spotted Owl Subgroup of the Wildlife Committee of the National Forest Products Association and American Forest Council. 1991. A multi-resource strategy for*

- conservation of the northern spotted owl. Unpublished report. National Forest Products Association and American Forestry Council, Washington, DC.*
- Spotted Owl Subgroup of the Wildlife Committee of the National Forest Products Association and American Forest Council. 1992. A multi-resource strategy for the conservation of the northern spotted owl. Unpublished report. National Forest Products Association and American Forestry Council, Washington, DC.*
- Squires, J. and R.T. Reynolds. 1997. Northern goshawk (*Accipiter gentilis*). In A. Poole and F. Gill, eds. *The Birds of North America*, No. 298. The Academy of Natural Scientists. Philadelphia, PA, and The American Ornithologists Union. Washington DC.
- Stapp, P., P.J. Pekins, and W.W. Mautz. 1991 Winter energy expenditure and the distribution of southern flying squirrels. *Can. J. Zool.* 69:2548-2555.
- Staufner, H.B., C.J. Zabel, and J.R. Dunk. In Review. Application of Bayesian methods to habitat selection modeling of the northern spotted owl in California: New Statistical Methods for Wildlife Research. 18 pages plus figures*
- Staus, N., J.R. Strittholt, D.A. DellaSala, R. Robinson. 2002 (reprint). Rate and pattern of forest disturbance in the Klamath-Siskiyou ecoregion, USA, between 1972 and 1992. *Landscape Ecology* 17:455-470.
- Stebbins, R.C. 2003. *Western Reptiles and Amphibians*. Houghton Mifflin, New York, NY.
- Steger, G.N., T.E. Munton, K.D. Johnson, and G.P. Eberlein. 1997. Characteristics of nest trees and nest sites of California spotted owls in coniferous forests of the southern Sierra Nevada. *Transactions of the Western Section of the Wildlife Society* 33:30-39.
- Steger, G.N., T.E. Munton, G.P. Eberlein, and K.D. Johnson. 1998. A study of spotted owl demographics in the Sierra National Forest and Sequoia and Kings Canyon National Parks - 1998 Annual progress report USDA For. Serv., Pac. Southwest Res. Sta., Fresno, CA.
- Steger, G.N., T.E. Munton, G.P. Eberlein, and K.D. Johnson. 1999. A study of spotted owl demographics in the Sierra National Forest and Sequoia and Kings Canyon National Parks - 1999 Annual progress report. USDA For. Serv., Pac. Southwest Res. Sta., Fresno, CA.
- Steidl, R.J., J.P. Perkins, and J.A. Thrailkill. 1996. Draft - Increasing specificity of habitat selection studies: an example with nesting spotted owls in Oregon. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.*
- Stonum, L. 1992. Spotted owl survey, Crater Lake National Park. Division of Natural Resource Preservation and Research, Crater Lake, OR.*
- Stonum, L. 1993. Spotted owl inventory and monitoring, Crater Lake National Park. Division of Natural Resource Preservation and Research, Crater Lake, OR.*
- Stresemann, E. 1934. Aves. In W. Küenthal and T. Krumbach, eds. *Handbuch der Zoologie*. V.7, pt.2. Walter de Gruyter, Berlin.

- Stubblefield, T.C., H.L. Cody, R.D. Shepard. 1998. Guide to Adaptive Management on the Cispus Adaptive Management Area (AMA). USDA For. Serv., Southwest Washington Province, Gifford Pinchot Nat. Forest, Randall Packwood Ranger Districts, WA.
- Sunde, P., M.S. Bolstad and J.D. Moller. 2003. Reversed sexual dimorphism in tawny owls, *Strix aluco*, correlates with duty division in breeding effort. *OIKOS* 101:265-278.
- Sutton, Dallas A. 1993. *Tamias townsendii*. *Mammalian Species* 435:1-6.
- Suzuki, N. and J.P. Ha. 2003. Effects of thinning on small mammals in Oregon coastal forests. *J. Wildlife Management* 67(2):352-371.
- Swarth, H.S. 1910. Two new owls from Arizona with description of the juvenal plumage of *Strix occidentalis occidentalis* (xantus). *University of California Publications in Zoology* 7(1):1-8.
- Swarth, H.S. 1915. The status of the Arizona spotted owl. *Condor* 17:15-19.
- Swarthout, E.C.H. and R.J. Steidl. 2001. Flush responses of Mexican spotted owls to recreationists. *J. Wildlife Management* 65(2):312-317.
- Swenson, J.J. and M. Lefsky. 2000. *Laser remote sensing of the canopy structure of northern spotted owl nest sites, Cascade Range, Oregon. 14th Annual Meeting of the Society for Conservation Biology, Missoula, Montana, June 9-12, 2000.*
- Swindle, K.A. 1997. *Landscape composition around northern spotted owl nests, central Cascade Mountains, Oregon. M.S. thesis, Oregon State University, Corvallis, OR.*
- Swindle, K.A., W.J. Ripple, E.C. Meslow, and D.J. Schafer. 1999. Old-forest distribution around spotted owl nests in the central Cascade Mountains, Oregon. *J. Wildlife Management* 63(4):1212-1221.
- Swingle, J.K. and E.D. Forsman. 2004. Red tree vole predation and survival."Abstract of presentation at The 39th Annual Meeting of the Oregon Chapter of the Wildlife Society ""Bridging the Gap: Integrating Wildlife Science, Management and Policy"" , Bend, OR, February 11-13, 2004. Pg 30."
- Tallmon, D. and L.S. Mills. 1994. Use of logs within home ranges of California red-backed voles on a remnant of forest. *J. Mammalogy* 75(1):97-101.
- Tanner, R.G. 1999. *Habitat use by northern spotted owls in coastal redwood forests of northwestern California. M.S. thesis, Humboldt State University, Arcata, CA.*
- Tanner, R.G. and R.J. Gutiérrez. 1994. *A partial inventory of northern spotted owls (Strix occidentalis caurina) in Redwood National Park. Department of Wildlife, Humboldt State University, Arcata, CA.*
- Tappeiner, J.C., D. Huffman, D. Marshall, T.A. Spies, and J.D. Bailey. 1997. Density, ages, and growth rates in old-growth and young-growth forests in coastal Oregon. *Can. J. of Forest Resources* 27:638-648.
- Tappeiner, Dr. John C., T. Nierenberg, J.D. Bailey and N. Poage. 2000. *Characterizing Northern Spotted Owl Habitat on State Forest Lands in the Oregon Coast Range. Final Report to the Oregon Department of Forestry. Department of Forest Resources, Oregon State University, Corvallis, OR.*

- Tarango, Luis A., R. Valdez, F. Clemente, and G. Mendoza. 2001. Roost-site characteristics of Mexican spotted owls in Sierra Fria, Aguascalientes, Mexico. *J. Raptor Res.* 35(2):165-168.
- Tarango, Luis A., R. Valdez, P.J. Zwank, and M. Cardenas. 1997. Mexican spotted owl habitat characteristics in southwestern Chihuahua, Mexico. *The Southwest Naturalist* 42(2):132-136.
- Tarr, C.L., and R.C. Fleischer. 1999. A molecular assessment of genetic variability and population differentiation in the endangered Mariana crow (*Corvus kubaryi*). *Molecular Ecology* 8:941-949.
- Taylor, Avery L. Jr. and E.D. Forsman. 1976. Recent range extensions of the barred owl in western North America, including the first records for Oregon. *Condor* 78:560-561.
- Taylor, B.L. and T. Gerrodette. 1993. The uses of statistical power in conservation biology: the vaquita and northern spotted owl. *Conservation Biology* 7(3):489-500.
- Taylor, C.A., C.J. Ralph, and A.T. Doyle. 1988. Differences in the ability of vegetation models to predict small mammal abundance in different aged Douglas-fir forests. Pages 368-374 in Szaro, R.C. Severson, K.E. Patton, D.R., eds., *Management of Amphibians, Reptiles and Small Mammals in North America*. Albany, CA: USDA For. Serv. Gen. Tech. Rep. RM-GTR-166., Rocky Mtn. Res. Sta., Fort Collins, CO.
- Taylor, R.J. 1992. California spotted owl on industrial forests. Unpublished report. California Forestry Association, Sacramento, CA.*
- Teensma, P.D.A., J.T. Rienstra, and M.A. Yeiter. 1991. Preliminary reconstruction and analysis of change in forest stand age classes of the Oregon Coast Range from 1950 to 1940. U.S. Dept. of the Interior, Bureau of Land Management, Technical Note T/N OR-9.*
- Temple, D.J., R.J. Gutiérrez. 2003. Fecal corticosterone levels in California spotted owls exposed to low-intensity chainsaw sound. *Wildlife Society Bulletin* 31(3):698-702.
- Terborgh, J., S.K. Robinson, T.A. Parker III, C.A. Munn, and N. Pierpont. 1990. Structure and Organization of an Amazonian Forest Bird Community *Ecol. Monographs*, 60(2):213-238.
- Thode, A.B., M. Maltbie, L.A. Hansen, L.D. Green, and J.L. Longmire. 1996. Microsatellite markers for the Mexican spotted owl (Strix occidentalis lucida). Abstract from Molecular Ecology 2(4):446.*
- Thomas, J.W., E.D. Forsman, J.B. Lint, E.C. Meslow, B.R. Noon, and J. Verner. 1990. A conservation strategy for the northern spotted owl. A report by the Interagency Scientific Committee to address the conservation of the northern spotted owl. USDA, Forest Service, and U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Land Management, and National Park Service. Portland, OR.
- Thomas, Nancy J., J. Bunikis, A.G. Barbour and M.J. Wolcott. 2002. Fatal Spirochetosis Due to a Relapsing Fever-like *Borrelia* sp. In a Northern Spotted Owl. *J. Wildlife Dis.*, 38(1):187-193.

- Thomas, Ted B. and A.B. Carey. 1992. *Enhancing Vegetation and Structural Diversity by Manipulating Forest Stands*. *Northwest Science* 66(2):142. Abstract only.
- Thome, D.M. 1997. *The influence of habitat on northern spotted owl reproductive success in northern California*. M.S. thesis. Humboldt State University, Arcata, CA.
- Thome, D.M. 1998. *Habitat Influencing Spotted Owl Reproduction - Draft*. 35.
- Thome, D.M., C.J. Zabel, and L.V. Diller. 1998. *Spotted owl habitat and its influence on reproduction in managed north coastal California forests*. 30 pp.
- Thome, D.M., C.J. Zabel, and L.V. Diller. 1999. Forest stand characteristics and reproduction of Northern Spotted Owls in managed north-coastal California forests. *J. Wildlife Management* 63(1):44-59.
- Thome, D.M., C.J. Zabel, and L.V. Diller. 2000. Spotted owl turnover and reproduction in managed forests of north-coastal California. *J. Field Orn.* 71(1):140-146.
- Thompson, J.L. and L.V. Diller. 2002. Relative abundance, nest site characteristics, and nest dynamics of Sonoma tree voles on managed timberlands in coastal northwest California. *Northwestern Naturalist* 83:91-100.
- Thraillkill, J.A. and E.C. Meslow. 1990. *Home range size and habitat utilization of Northern Spotted Owls in the Wolf Creek Study Area, Eugene BLM District, Oregon*. Unpublished final report. Oregon Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.
- Thraillkill, J.A. and M.A. Bias. 1989. Diet of breeding and nonbreeding California spotted owls. *J. Raptor Res.* 23:39-41.
- Thraillkill, J.A., E.C. Meslow, J.P. Perkins, and L.S. Andrews. 1996. Demography of northern spotted owls on the Eugene District of the Bureau of Land Management, Oregon. *Studies in Avian Biology* 17:53-58.
- Thraillkill, J.A., R.G. Anthony, and E.C. Meslow. 1997. *An update of demographic estimates for Northern Spotted Owls (Strix occidentalis caurina) from Oregon's central Coast Ranges*. Pages 432-448 in J. R. Duncan, D.H. Johnson, and T. H. Nicholls, editors. *Biology and Conservation of Owls of the Northern Hemisphere: Second International Symposium*. February 5-9, 1997. Winnipeg, Manitoba, Canada. USDA For. Serv. GTR-NC-190. North Central Forest Exp. Sta., St. Paul, MN.
- Thraillkill, J.A., R.G. Anthony, E.C. Meslow, J.P. Perkins and R.J. Steidl. 1998. *Demography and habitat associations of the spotted owl on the Eugene District Bureau of Land Management, Central Oregon Coast Ranges*. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR.
- Thysell, D.R. and A.B. Carey. 1999. *Wildlife habitat and biodiversity studies*. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Olympia, WA.
- Thysell, D.R. and A.B. Carey. 2000. Effects of Forest Management on Understory and Overstory Vegetation: A Retrospective Study. General Technical Report PNW-GTR-4488. USDA For. Serv., Pac. Northwest Res. Sta., Portland, OR.

- Thysell, D.R. and A.B. Carey. 2001. Manipulation of density of *Pseudotsuga menziesii* canopies: preliminary effects on understory vegetation. *Can. J. For. Res.* 31:1513-1525.
- Thysell, D.R. and A.B. Carey. 2001. *Quercus garryana* Communities in the Puget Trough, Washington. *Northwest Science* 75(3):219-235.
- Thysell, D.R., L.J. Villa, and A.B. Carey. 1998. Observations of NFS feeding behavior: use of non-truffle food items. *Northwestern Naturalist* 78:87-92.
- Timber Products Company. 2001. Spotted owl management plan. February 13, 2001. Timber Products Company. Yreka, CA.*
- Ting, T.F. 1998 *The thermal environment of northern spotted owls in northwestern California: possible explanations for use of interior old growth and coastal early successional stage forest. M.S. thesis, Humboldt State University, Arcata, CA.*
- Topping, M.G. and J.S. Millar. 1996. Spatial distribution in the bushy-tailed woodrat (*Neotoma cinerea*) and its implications for the mating system. *Can. J. Zool.* 74:565-569.
- Topping, M.G., and J.S. Millar. 1996. Home range size of bushy-tailed woodrats, *Neotoma cinerea*, in Southwestern Alberta. *Can. Field Nat.* 110:351-353.
- Topping, M.G., and J.S. Millar. 1998. Mating patterns and reproductive success in the bushy-tailed woodrat (*Neotoma cinerea*), as revealed by DNA fingerprinting. *Behavioral Ecology & Sociobiology* 43(2):115-124.
- Turchin, P. 1998. *Quantitative Analysis of Movement: Measuring and Modeling Population Redistribution in Plants and Animals.* Sinauer Associates, Sunderland, MA.
- Turell, M.J., et al. 2001a. Vector competence of North American mosquitoes (Diptera: Culicidae) for West Nile virus. *J. Med. Entom.* 38(2):130-4.
- Turell, M.J., M.R. Sardelis, D.J. Dohm, and M.L. O'Guinn. 2001b. Potential North American vectors of West Nile virus. *Annals of the New York Academy of Science* 951:317-324.
- Turell, M.J., et al. 2002 Potential vectors of West Nile virus in North America. *Curr. Top. Microbiol. Immunol.* 267:241-52.
- Tweten, R.G. 1992. Narratives of final critical habitat units for the northern spotted owl in Oregon. Administrative Record. USDI Fish and Wildlife Service, Portland, OR.*
- Ure, D. C., and C. Maser. 1982. Mycophagy of red-backed voles in Oregon and Washington. *Canadian Journal of Zoology* 60:3307-3315.
- U. S. Department of Agriculture (USDA). 1988. Final supplement to the environmental impact statement for an amendment to the Pacific Northwest Regional Guide USDA For. Serv., Pac. Northwest Region, Portland, OR*
- U.S. Department of Agriculture. 1991. Questions and answers on a conservation strategy for the Northern Spotted Owl. USDA For. Serv. Pac. Northwest Res. Sta., Portland, OR. .*

- U.S. Department of Agriculture. 1993. Wildlife habitat relationships in Washington and Oregon. Unpublished annual report - fiscal year 1993. Forest Service, Pacific Northwest Research Station, Portland, OR.*
- U.S. Department of Agriculture. 1993. Northern spotted owl dispersal habitat concept using even-aged ponderosa pine plant community group as a prototype. USDA Forest Service, N. R. S. District Rangers and Wildlife Biologists. 21-40*
- U.S. Department of Agriculture, Forest Service, US Department of the Interior-Bureau of Land Management. 1994. Record of Decision for Amendments to Forest Service and Bureau of Land Management Planning Departments Within the Range of the Northern Spotted Owl. Standards and Guidelines for Management of Habitat for Late Successional and Old-Growth Forest Related Species Within the Range of the Northern Spotted Owl. USDA For. Serv., USDI-BLM. April 13, 1994. ROD.*
- U. S. Department of Agriculture, Forest Service. 1995. Little White Salmon River Watershed Analysis. U. S. Department of Agriculture, Forest Service, Mt. Adams Ranger District, Gifford Pinchot National Forest. September 1995. 108 pp.*
- U. S. Department of Agriculture. 1997. Forest-Wide Assessment for Late Successional Reserves and Managed Late Successional Areas. U. S. Department of Agriculture - Forest Service, Pacific Northwest Region. February 1997. pp. 51-59.*
- U.S. Department of Agriculture, Forest Service. 1998. La Roux Timber Sale Environmental Assessment. USDA For. Serv. Gifford Pinchot National Forest, Mt. Adams Ranger District, WA.*
- U.S. Department of Agriculture (USDA). 2002. Biological Assessment for the Redding Resource Management Plan. U.S. Department of Agriculture*
- U.S. Department of Agriculture and U.S. Department of the Interior. 1994. Record of decision and standards and guidelines for management of habitat for late-successional and old-growth forest related species within the range of the Northern Spotted Owl. U.S. Forest Service and Bureau of Land Management. Washington, DC.*
- U.S. Department of Agriculture and U.S. Department of the Interior. 1994. Final supplemental environmental impact statement on management of habitat for late-successional and old-growth related species within the range of the Northern Spotted Owl. U.S. Forest Service and Bureau of Land Management. Vol. 1. Washington, DC.*
- U.S. Dept of Agriculture, U.S. Dept. of Interior. 2000. Interior Columbia Basin Supplemental Draft Environmental Impact Statement Vol.1. U.S. Dept of Agriculture, U.S. Dept. of Interior.*
- U.S. Department of Agriculture, Forest Service. DRAFT ACCI Timber Sale Environmental Assessment. USDA For. Serv. Gifford Pinchot Nat. Forest, Mt. Adams Ranger District, WA*
- U.S. Department of Commerce, National Oceanic and Atmospheric Association. 1981. Climatological data, Oregon. National Climate Center, Environmental Data and Information Service. Asheville, NC. 87(8).*
- U. S. Department of the Interior (USDI). 1987. The Northern Spotted Owl: a status review. U. S. Fish and Wildlife Service: Portland, OR.*

- U.S. Department of the Interior. 1990. Federal Register, Part VI. U.S. Fish and Wildlife Service. Endangered and Threatened Wildlife and Plants; Determination of Threatened Status for the Northern Spotted Owl; Final Rule. Federal Register, Part VI. Vol. 55, No. 123. Tuesday, June 26, 1990.
- U.S. Department of the Interior. 1991. Guidelines for surveying proposed management activities that may impact Northern Spotted Owls. Fish and Wildlife Service, Portland, OR.*
- U.S. Department of the Interior (USDI). 1992. Final draft recovery plan for the Northern Spotted Owl. Unpublished Report. U.S. Department of Interior, Washington, DC.
- U.S. Department of the Interior. 1992. Endangered and threatened wildlife and plants, determination of critical habitat for the Northern Spotted Owl. U.S. Fish and Wildlife Service. Federal Register 57:1796-1838.
- U.S. Department of the Interior. 1999. Endangered and Threatened Wildlife and Plants; 90-Day Finding for a Petition To Delist the Northern Spotted Owl From the List of Threatened and Endangered Species (64 FR 57114). U.S. Fish and Wildlife Service, Portland, OR.
- U.S. Department of the Interior. 2001. Physiographic environmental baseline updates for the northern spotted owl. Fish and Wildlife Service. 2001 Report and Physiographic Environmental Baseline Updates. 13 reports*
- U.S. Department of the Interior. 2001. A range wide baseline summary and evaluation of data collected through section 7 consultation for the northern spotted owl and its critical habitat:1994-2001. 2001 Report and Physiographic Environmental Baseline Updates. U.S. Fish and Wildlife Service, Portland, OR..*
- U.S. Department of the Interior. 2003. Endangered and threatened wildlife and plants: reconsidered finding for an amended petition to list the westslope cutthroat trout as threatened throughout its range. Fish and Wildlife Service. Federal Register 68(152):46989-47009.*
- U.S. Department of the Interior, Fish and Wildlife Service. 2004. Estimated Trends in Suitable Habitat for The Northern Spotted Owl (Strix occidentalis caurina) on Federal Lands from 1994 to 2003. For Use By: Sustainable Ecosystems Institute for the Northern Spotted Owl 5-year Review. USDI Fish and Wildlife Serv.*
- U.S. Fish and Wildlife Service. 1989. The Northern Spotted Owl Status Review Supplement. U.S. Fish and Wildlife Service, Department of the Interior. The Northern Spotted Owl Status Review Supplement.
- U.S. Fish and Wildlife Service. 1994. Biological Opinion for the Preferred Alternative (Alternative 9) of the Supplemental Environmental Impact Statement on Management of Habitat for Late Successional and Old-Growth Forest Related Species on Federal Lands within the Range of the NSO. Biological Opinion on Alternative 9. Sustainable Ecosystems Institute, Portland, OR.*
- U.S. Fish and Wildlife Service. 1994. Spatial Databases of Northern Spotted Owl Known Site Locations and Suitable Habitat. U.S. Fish and Wildlife Service, Portland, OR*
- U.S. Fish and Wildlife Service. 1998. Spatial Database of Suitable Habitat for Northern California. U.S. Fish and Wildlife Service, Arcata, CA and Portland, OR.*

- U.S. Fish and Wildlife Service. 2001. *A range wide baseline summary and evaluation of data collected through section 7 consultation for the northern spotted owl and its critical habitat:1994-2001*. U.S. Fish and Wildlife Service, Portland, OR
- U.S. Fish and Wildlife Services and National Marine Fisheries Service. 1998 *Endangered Species Consultation Handbook. Procedures for Conducting Consultation and Conference Activities Under Section 7 of the Endangered Species Act*. Final ESA Section 7 Consultation Handbook, U.S. Fish and Wildlife Serv., Nat. Marine Fisheries Service.
- U.S. Forest Service and Bureau of Land Management. 2003. *Biscuit Fire Post-Fire Assessment*. www.biscuitfire.com, January 2003 Appendix D. *Wildlife Tables*. Also Appendix E *Wildlife: Late Successional Forest Habitat Definitions, Mature, Old Growth, Late Successional Forest, Northern Spotted Owls*.
- U.S. Office of Endangered Species and International Activities. 1973. *Threatened wildlife of the United States*. Bureau of Sport Fisheries and Wildlife, Washington, DC: U.S. Government Printing Office; Report nr Resource Publication 114. Fish-Ocean Stacks QL88 .U552.
- Utah Division of Wildlife Resources. 2000. *Cutthroat Trout Management: A Position Paper. Genetic Considerations Associated with Cutthroat Trout Management*. Publication Number 00-26. Utah Division of Wildlife Resources. Salt Lake City, UT.
- Van Deusen, P.C., L.L. Irwin, and Tracy L. Fleming. 1998. Survival estimates for the Northern Spotted Owl. *Can. J. For. Res.* 28:1681-1685.
- Van Gelder, J.J. 2003. *Variation in four-note location calls of male Spotted Owls (Strix occidentalis)*. M.S. thesis. Humboldt State University, Arcata, CA.
- Van Woudenberg, A.M. 1997 *Northern Spotted Owl summer/fall 1997 inventory of the Lillooet Forest District*. Unpublished report. British Columbia Ministry of Environment, Lands and Parks, Kamloops, BC, Canada
- Van Woudenberg, A.M. 1998. *Northern Spotted Owl 1998 spring inventory of the Lillooet Forest District*. Unpublished report. British Columbia Ministry of Environment, Lands and Parks, Kamloops, BC, Canada.
- Verner, J., and R.J. Taylor. 1992. Future directions for the California spotted owl effort. Pages 27-33 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Verner, J., M.L. Morrison, C.J. Ralph, eds. 2000. *Wildlife 2000: Modeling Habitat Relationships of Terrestrial Vertebrates, Fallen Leaf Lake, CA*. University of Wisconsin Press: Madison, WI.
- Verner, J., G.N. Steger, G.P. Eberlein, D.A. Leal, and T.E. Munton. 1991. *Annual progress report, 1990. Part 1: Spotted owl home-range size and composition in the Sierra National Forest, and Part 2: Demography of spotted owls in the Sierra National Forest and Sequoia/Kings Canyon National Parks*. USDA For. Serv., Pac. Southwest Forest and Range Exp. Sta., Fresno, CA.

- Verner, J., R.J. Gutiérrez, and G.I. Gould, Jr. 1992. The California spotted owl: general biology and ecological relations. Pages 55-77 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Verner J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck. 1992. Assessment of the current status of the California spotted owl, with recommendations for management. Pages 3-26 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Villa, L.J., A.B. Carey, T.M. Wilson, and K.E. Glos. 1999. Maturation and Reproduction of Northern Flying Squirrels in Pacific Northwest Forests. Gen. Tech. Rep. PNW-GTR-444, Pac. Northwest Res. Sta., USDA For. Serv., Portland, OR.
- Vincent, Robert E. 1990 The extension of the range of the Barred Owl into Oregon and potential for interaction with the Spotted Owl. Unpublished report prepared for Association of O and C Counties.*
- Vitousek, P.M., C.M. D'Antonio, L.L. Loope, and R. Westbrooks. 1996. Biological invasions as global environmental change. *American Scientist* 84:468-478.
- Vitousek, P.M., C.M. D'Antonio, L.L. Loope, M. Rejmanek, and R. Westbrooks. 1997. Introduced species: a significant component of human-caused global change. *New Zealand J. Ecology* 21:1-16.
- Vogler, A.P., and R. DeSalle. 1994. Evolution and phylogenetic information content of the ITS-1 region in the tiger beetle *Cicindela dorsalis*. *Molecular Biology and Evolution* 11(3):393-405.
- Volman, S.F. and M. Konishi. 1990. Comparative physiology of sound localization in four species of owls. *Brain, Behavior, and Evolution* 36:196-215.
- von Kienast, J., L. Webb. DRAFT. Sky Lakes Wilderness Fire-Use Plan. Rogue River and Winema National Forests Terrestrial Biological Assessment. Rogue River and Winema National Forest Service. Sky Lakes Wilderness Fire-Use Plan - BA - 8 Sep, pp 1-8.*
- Voous, K.H. 1996. The Distribution of Owls in Africa in Relation to General Zoogeographical Problems. *Ostrich Sup* 6:499-506.
- Vreeland, J.K. and W.D. Tietje. 1999. Counts of woodrat houses to index relative population abundance. *Wildlife Society Bulletin* 27(2):337-343.
- Vrezec, A. 2003. Breeding density and altitudinal distribution of the ural, tawny, and boreal owls in North Dinaric Alps (Central Slovenia). *J. Raptor Res.* 37: 55-62.
- Wagner, F.F. and J.A. Thrailkill. 1993 Habitat use and selection by Northern Spotted Owls. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res. 27(1):57-58.*

- Wagner, F.F., E.C. Meslow, G.M. Bennett, C.J. Larson, S.M. Small, and S. DeStefano. 1996. Demography of northern spotted owls in the southern Cascades and Siskiyou Mountains, Oregon. *Studies in Avian Biology* 17:67-76.
- Waldo, S.L. 2002. *Song discrimination of neighbors and strangers by male territorial northern spotted owls (Strix occidentalis caurina)*. M.S. thesis, Humboldt State University, Arcata, CA.
- Waples, R.S. 1991. "Pacific Salmon, *Oncorhynchus* spp., and the definition of "Species" under the Endangered Species Act." *Marine Fisheries Review* 53:11-22.
- Ward Jr., J.P. 1990. *Spotted Owl reproduction and prey abundance in northwest California*. M.S. thesis, Humboldt State University, Arcata, CA.
- Ward, J.P., Jr. 2001. *Ecological responses by Mexican spotted owls to environmental variation in the Sacramento Mountains, New Mexico*. Ph.D. thesis. Colorado State University, Ft. Collins, CO.
- Ward Jr., J.P., A.B. Franklin, and R.J. Gutiérrez. 1991. Using search time and regression to estimate abundance of territorial Spotted Owls. *Ecological Applications* 1(2):207-214.
- Ward, J.P., Jr. and W.M. Block. 1995. Mexican Spotted Owl prey ecology. Pages 1-48 in USDI Fish and Wildl. Serv., Recovery plan for the Mexican Spotted Owl Vol. 2 USDI Fish and Wildl. Serv., Albuquerque, NM.
- Ward Jr., J.P., R.J. Gutiérrez, and B.R. Noon. 1998. Habitat selection by Northern spotted owls: the consequences of prey selection and distribution. *Condor* 100(1):79-92.
- Washington Department of Natural Resources. 1996. *Supplemental draft environmental impact statement and appendices on forest practices rule proposals for the Northern Spotted Owl*. Washington Department of Natural Resources, Forest Practices Division, Olympia, WA.
- Washington Department of Natural Resources. 1996. *Permanent rules for the Northern Spotted Owl*. July 1996
- Washington Department of Natural Resources. 1997. *Final Habitat Conservation Plan*. Jennifer M. Belcher, Commissioner of Public Lands Washington State Department of Natural Resources, Olympia, WA
- Washington Department of Natural Resources. 2004. *HCP Amendment No.1: Administrative amendment to the Northern Spotted owl conservation strategy for the Klickitat HCP planning unit*. Washington Department of Natural Resources.
- Washington Department of Natural Resources. 2004. *Washington State Department of Natural Resources Habitat Conservation Plan 5-Year Comprehensive Review*. Washington Department of Natural Resources, Washington State Parks.
- Washington Department of Wildlife. 1990. *Food habits of Spotted Owls in Washington* Unpublished report.
- Washington Department of Wildlife. 1993. *Priority habitat and species*. Washington Department of Wildlife, Olympia, WA.
- Washington Department of Wildlife. 1994. *Species of special concern in Washington*. Washington Department of Wildlife, Olympia, WA.

- Washington Forest Practices Board. 1996. *Final environmental impact statement on forest practices rule proposals for northern spotted owl, marbled murrelet, and western gray squirrel*. Washington Forest Practices Board, Olympia, WA
- Washington Forest Practices Board. 1997. *Permanent Rules for the northern spotted owl (1996) and marbled murrelet (1997)*. Washington Forest Practices Board, Olympia, WA.
- Washington Forest Practices Board. 2000. *Practices Rule Book, WAC 222-10-041. Northern spotted owls. Practices Rule Book, WAC 222-10-041. Forest pages 10-2 to 10-5, and pages 16-36 to 16-54*.
- Washington Forest Practices Board. 2002. *Washington Forest Practices*. Washington Forest Practices Board, Olympia, WA.
- Washington State Department of Health. 2003. *Mosquito-borne Disease Response Plan*. Washington State Department of Health. *Mosquito-borne Disease Response Plan*. 20.
- Wasser, S.K. and E.D. Forsman. 1994. *Noninvasive hormonal measures of habitat disturbance impacts on the Northern Spotted Owl (Strix occidentalis caurina)*.
- Wasser, S.K., G. King, et al. 1996. *Objective measures of disturbance in Northern Spotted Owls*. Unpublished draft report.
- Wasser, S.K., K. Bevis, G. King, and E. Hanson. 1997. Noninvasive physiological measures of disturbance in the Northern Spotted Owl. *Conservation Biology* 11(4):1019-1022.
- Waters, J.R. and C.J. Zabel. 1995. Northern flying squirrel densities in fir forests of northeastern California. *J. Wildlife Management* 59(4): pp. 858-866.
- Watson, J.W., D.W. Hays, S.P. Finn, and M.P. Meehan. 1998. Prey of breeding northern goshawks in Washington. *J. of Raptor Res.* 32(4):297-305.
- Weathers, W.W., P.J. Hodum and J.A. Blakesley. 2001. Thermal Ecology and Ecological Energetics of California Spotted Owl. *Condor* 103(4):678.
- Weatherspoon, C.P., S.J. Husari, and J.W. van Wagtenonk. 1995. Fire and fuels management in relation to owl habitat in forests of the Sierra Nevada and southern California. Pages 247-260 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status*. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Weber, W.C. 2002. *Spotted Owl habitat east of the Cascade/Coast Mountain crest: a compilation and analysis of information needed for a habitat management plan*. Unpublished report. British Columbia Ministry of Water, Land and Air Protection, Kamloops, BC, Canada.
- Wegbreit, J. and W.K. Reisen. 2000. Relationships among weather, mosquito abundance, and encephalitis virus activity in California: Kern County 1990-98. *J. Amer. Mosquito Control Assn.* 16:22-27.
- Weidemeier, D. 1999. *Olympic Experimental State Forest Northern Spotted Owl Monitoring 1999 Annual Report*. Washington Department of Natural Resources, Forks, WA.

- Weidemeier, D.J. 2000. *Olympic Experimental State Forest Northern Spotted Owl Monitoring 2000 Annual Report*. Washington State Department of Natural Resources, Forks, WA.
- Weidemeier, D. and T. Clark. 1995. *Olympic Experimental State Forest Northern Spotted Owl Monitoring 1995 Season Report*. Washington Department of Natural Resources, Forks, WA.
- Weidemeier, D.J. and S.P. Horton. 1996. *Olympic Experimental State Forest Spotted Owl Monitoring 1996 Annual Report*. Washington Department of Natural Resources, Olympic Region, Forks, WA.
- Weidemeier, D. and S. Horton. 1998. *Olympic Experimental State Forest Northern Spotted Owl Monitoring: 1998 Annual Report*. Washington Department of Natural Resources, Forks, WA.
- Weidemeier, D.J. and S.P. Horton. 2000. *Trends in Spotted Owl and Barred Owl detections in the Olympic Experimental State Forest from 1991 to 1999. (Paper File reads: Detection Rates and Occupancy Trends of Spotted and Barred Owls in The Olympic Experimental State Forest)*. *Northwestern Naturalist* 81(3):63.
- Weidemeier, D.J., S.P. Horton, G. Ailing, and S. Spaulding. 1997. *1997 Olympic Experimental State Forest Northern Spotted Owl Monitoring*. Washington Department of Natural Resources, Forks, WA.
- Weigl, P.D. and D.W. Osgood. 1974. *Study of the Northern Flying Squirrel, Glaucomys sabrinus by Temperature Telemetry*. *Amer. Midl. Natur.* 92(2):482-486.
- Wendland, V. 1984. *The influence of prey fluctuations on the breeding success of Tawny Owls (Strix aluco)*. *Ibis* 126:285-295.
- Werner, H.W. 1996. *Fire Effects Monitoring on Wildlife 1995. Mineral King Risk Reduction Project. Sequoia and Kings Canyon National Park. Three Rivers, CA.*
- Werner, H.W., T. Keeseey, C. Ray, and C. Mustric. 1997. *Mineral King Risk Reduction Project - 1997 Annual Report. "Science and Natural Resources Division Sequoia and Kings Canyon National Parks, CA."*
- Werner, H., R. Green, and C. Ray. 1998. *Mineral King Risk Reduction Project - 1998 Annual Report. "Science and Natural Resources Division Sequoia and Kings Canyon National Parks, CA."*
- Werner, H.W. *Fire Effects Monitoring on Wildlife 1996. Mineral King Risk Reduction Project. Sequoia and Kings Canyon National Park. Three Rivers, CA.*
- Werner, H.W. 2000. *Fire Effects Monitoring on Wildlife 1999. Mineral King Risk Reduction Project. Unpub. Report. Mineral King Risk Reduction Project, Sequoia and Kings Canyon National Park. Three Rivers, CA. 11 pp.*
- Werner, H.W. 2001. *Fire Effects Monitoring on Wildlife 2000. Unpub. Report. Mineral King Risk Reduction Project. Sequoia and Kings Canyon National Park. Three Rivers, CA. 9 pp.*
- Werner, H.W. 2002. *Fire Effects Monitoring on Wildlife 2001. Mineral King Risk Reduction Project. Report. Mineral King Risk Reduction Project. Sequoia and Kings Canyon National Park. Three Rivers, CA. 8 pp.*

- Werner, H.W. 2003. *Fire Effects Monitoring on Wildlife 2002. Mineral King Risk Reduction Project. Unpub. Report. Mineral King Risk Reduction Project. Sequoia and Kings Canyon National Park. Three Rivers, CA. 11 pp.*
- Western Canada Wilderness Committee, Sierra Club Legal Defence Fund, Forest Watch of BC. 2002. Logging to extinction: the last stand of the spotted owl in Canada. Western Canada Wilderness Committee: Vancouver, BC, Canada.
- Wetmore, A. 1960. A classification for the birds of the world. *Smithsonian. Misc. Coll.* 139:1-37.
- Weydemeyer, Winton. 1927. Some New Birds From Western Montana. *From Field And Study. Condor* 29:159.
- White, A.E. 1996. *Nest-site microhabitat of the spotted owl in the Klamath National Forest, California. M.S. thesis, University of Arkansas, Little Rock, AR.*
- White, K. 1996. Comparison of fledging success and sizes of prey consumed by spotted owls in northwestern California. *J. Raptor Res.* 30(4):234–236.
- Wijnandts, H. 1984. Ecological energetics of the Long-eared Owl (*Asio otus*). *Ardea*, 72:1-92.
- Wilcove, D.S. 1985. Nest predation in forest tracts and the decline of migratory songbirds. *Ecology* 66(4):1211-1214.
- Wilcove, D., and D. Murphy. 1991. The spotted owl controversy and conservation biology. *Conservation Biology* 5:261-262.
- Wilk, R.J. 1992. *How many calling visits are needed to determine initial occupancy of a survey area by northern spotted owls? An analysis of the Roseburg, Oregon, database 1991. U.S. Department of the Interior, Bureau of Land Management, Roseburg, OR.*
- Wilk, R.J. 1994. *Advancement of survey and monitoring and variation of biological parameters from Northern Spotted Owl database Roseburg, Oregon. U.S. Department of the Interior, Bureau of Land Management, Roseburg, OR.*
- Willey, D.W. 1998. *Influence of Fire on Mexican Spotted Owls (Strix occidentalis lucida) In Saguaro National Park. USGS Forest and Range Ecosystem Science Center, Colorado Plateau Field Station. Northern Arizona University.*
- Willhite, E.A. 1999. *1999 Biological evaluation: western spruce budworm analysis units, Mt. Adams Ranger District, Gifford Pinchot National Forest. Report number WSCFID 99-1, Mt. Hood National Forest Headquarters.*
- Williams, D.F., J. Verner, H.F. Sakai, and J.R. Waters. 1992. General biology of major prey species of the California spotted owl. Pages 207-221 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status. PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.*
- Williams-Linera, G. 1990. Vegetation structure and environmental conditions of forest edges in Panama. *J. Ecol.* 78:356-373.

- Wilson, T.M., and A.B. Carey. 1996. Observations of weasels in second-growth Douglas-fir forests in the Puget Trough, Washington. *Northwestern Naturalist* 77:35-39.
- Wilson, S.M. and A.B. Carey. 2000. Legacy Retention Versus Thinning: Influences on Small Mammals. *Northwest Science* 74(2):131-145
- Wilson, S.M. and A.B. Carey. 2001 Small Mammals in Oak Woodlands in the Puget Trough, Washington. *Northwest Science* 75(4):342-349.
- Wimberly, M.C., T.A. Spies, C.J. Long, and C. Whitlock. 2000. Simulating historical variability in the amount of old forests in the Oregon Coast Range. *Conservation Biology* 14(1):167-180.
- Wink, Michael, P. Heidrich. 1999. Molecular Evolution and Systematics of the Owls (Strigiformes). *Owls: A Guide to the Owls of the World*. Yale University Press, New Haven, CT. pp. 39-57.
- Winter, J. 1986. *Status, distribution, and ecology of great gray owls in California*. M.S. thesis. San Francisco State University, San Francisco, CA.
- Winton, B., L. Manning, J. Ahrens, and A. Scheiff. 1994. *Spotted Owl inventory and monitoring*. Crater Lake National Park, Division of Resource Preservation and Research. Crater Lake National Park, Division of Resource Preservation and Research, Crater Lake, OR.
- Wirtz, P. 1999. Mother species-father species: unidirectional hybridization in animals with female choice. *Animal Behavior* 58:1-12.
- Wirtz, W.O. II, D. Hoekman, J.R. Muhn, and S.L. Souza. 1988. *Post-fire rodent succession following prescribed fire in southern California chaparral*. Paper presented at symposium, *Management of Amphibians, Reptiles and Small Mammals in North America*, Flagstaff, AZ, July 19-21, 1988.
- Wisdom, Micheal J., L.S. Mills, and D.F. Doak. 2000. Life Stage Simulation Analysis: Estimating Vital-Rate Effects on Population Growth for Conservation. *Ecology* 81(3):628-641.
- Witt, J.W. 1991. Increasing the carrying capacity of second-growth stands for flying squirrels with the use of nest boxes. *Wildlife and Vegetation of Unmanaged Douglas-Fir Forests*, Appendix 10, Gen Tec Rep PNW-GTR-285, May 1991."Abstract of presentation, Symposium on "'Old-Growth Douglas-Fir Forests: Wildlife Communitites, and Habitat Relationships'", Portland, OR, March 29-31, 1989."
- Witt, J.W. 1991. Fluctuations in the weight and trapping response for *Glaucomys sabrinus* in western Oregon. *J. Mammalogy* 72:612-615.
- Witt, J.W. 1992. Home range and density estimates for the northern flying squirrel, *Glaucomys sabrinus*, in western Oregon. *J. Mammalogy* 73(4):921-929
- Wong, C.M. and R.W. Gray. 2000. *Managing for Northern Spotted Owls north and south of the 49th parallel*. Unpublished report. British Columbia Ministry of Forests, Victoria, BC, Canada.
- Woodbridge, B. and C. Cheyne. 1995. *Assessment of Northern Spotted Owl Populations in the California Cascades*. 11 pp.

- Wooster, T.W. 1991. *Observations of northern spotted owl, Strix occidentalis caurina, in the California Department of Fish and Game's Region 3 from March 1989 through December 1991. Progress Report from California Department of Fish and Game, Environmental Services function, Yountville, CA.*
- Wooster, T. 1994. An observation of high fecundity of spotted owls in California. *California Fish and Game* 80(4):171.
- Wooster, T. and P. Town. 2002. Newly Discovered Food and Habitat use by California Red Tree Voles. *California Fish and Game* 88(4):181-185.
- Work, T.H., H.S. Hurlbut, and R.M. Taylor. 1955. Indigenous wild birds of the Nile Delta as potential West Nile virus circulating reservoirs. *Amer. J. Trop. Med. Hyg.* 4:872-888.
- Wright, Anthony L. and G.D. Hayward. 1998. Barred Owl Range Expansion Into the Central Idaho Wilderness. *J. Raptor Res.* 32(2):77-81.
- Wright, K. 1992. *Spotted Owl monitoring: Williams density study area. U.S. Department of the Interior, Bureau of Land Management, Medford, OR.*
- Wright, P.L. 1976. Further bird records from western Montana. *Condor* 78:418-420.
- Yaffee, S.L. 1994. *The wisdom of the spotted owl. Policy lessons for a new century.* Island Press: Washington, DC.
- Yaremych, S.A., R.E. Warner, P.C. Mankin, J.D. Brawn, A. Raim, and R. Novak. 2004. West Nile Virus and high death rate in American crows. *Emerging Infectious Diseases* [serial online] Available from: <http://www.cdc.gov/ncidod/EID/vol10no4/03-0499.htm>, accessed 09-02-04.
- Young, A. and N. Mitchell. 1994. Microclimate and vegetation edge effects in a fragmented podocarp-broadleaf forest in New Zealand. *Biological Conservation* 67:63-72.
- Young, K.E., A.B. Franklin, and J.P. Ward. 1993. Infestation of Northern Spotted Owls by Hippoboscid (Diptera) Flies in Northwestern California. *J. of Wildlife Dis.* 29(2):pp. 278-283.
- Young, K.E., P.J. Zwank, R. Valdez, J.L. Dye, L.A. Tarango. 1997. Diet of Mexican Spotted Owls in Chihuahua and Aguascalientes, Mexico. *J. Raptor Res.* 31(4):376-380.
- Young, K.E., R. Valdez, P.J. Zwank, W.R. Gould 1998. Density and Roost Site Characteristics of Spotted Owls in the Sierra Madre Occidentalis, Chihuahua, Mexico. *Condor* 100:732-736.
- Young, T.N., J.R. Eby, H.L. Allen, M.J. Hewitt III, and K.R. Dixon. 1990. Wildlife habitat analysis using landsat and radiotelemetry in a GIS with application to spotted owl preference for old growth. *GIS 87 - San Francisco. Second Annual International Conference, Exhibits and Workshops on GIS 1987, San Francisco, California.*
- Youngblood, A. 2001. (2001): Old-growth forest structure in eastern Oregon and Washington. *Northwest Science* 75:110-118.
- Zabel, C.J. and S. Pagliughi. 2003. Testing spotted owl habitat definitions in northern California. Unpublished manuscript.

- Zabel, C.J. and R.J. Waters. 1997. Food preferences of captive northern flying squirrels from the Lassen National Forest in northeastern California. *Northwest Sci.* 71:103-107.
- Zabel, C.J., G.N. Steger, K.S. McKelvey, G.P. Eberlein, B.R. Noon, and J. Verner 1992. Home-range size and habitat-use patterns of California spotted owls in the Sierra Nevada. Pages 149-163 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status.* PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Zabel, C.J., K.S. McKelvey, and J.D. Johnston. 1992. Patterns of habitat use by California spotted owls in logged forests of the northern Sierra Nevada. Pages 165-174 in Verner, J., K.S. McKelvey, B.R. Noon, R.J. Gutiérrez, G.I. Gould, Jr., and T.W. Beck, Technical Coordinators. *The California Spotted Owl: A Technical Assessment of Its Current Status.* PSW-GTR-133, USDA For. Serv., Pac. Southwest Res. Sta., Albany, CA.
- Zabel, C.J., H.F. Sakai, and J.R. Waters. 1993. *Association between prey abundance, forest structure, and habitat use patterns of spotted owls in California. Abstract of presentation, Spotted Owl Symposium, annual meeting of the Raptor Research Foundation, Inc., Bellevue, WA, November 11-15, 1992. J. Raptor Res.* 27(1):59.
- Zabel C.J., K.S. McKelvey, and J.P. Ward, Jr. 1995. Influence of primary prey on home-range size and habitat-use patterns of northern spotted owls (*Strix occidentalis caurina*). *Can. J. Zool.* 73(3):433-439.
- Zabel C.J., S.E. Salmons, and M. Brown. 1996. Demography of northern spotted owls in southwestern Oregon. *Studies in Avian Biology* 17:77-82.
- Zabel, C.J., et al. *Annual Reports 1990 - 1993. Demographic parameters of the spotted owl at Coos Bay BLM District in southwestern Oregon. USDA For. Serv. Pac. Southwest Forest and Range Exp. Sta., Redwood Sciences Lab, Arcata, CA.*
- Zabel, C.J., J.R. Dunk, and H.B. Stauffer, L.M. 2000. Analysis of the effectiveness of various northern spotted owl definitions at predicting their presence or absence in California. Abstract only. *Northwest Naturalist* 81(2) 93-04.
- Zabel, C.J., M. Brown, T. Hines, D. Thome, A. Wright, J.R. Dunk, C. Organ, and L. Leeman. 2001. Habitat associations of the northern spotted owl in the Coos Bay BLM District, Oregon. Final Report. USDA For. Serv. Pac. Southwest Res. Sta., Redwood Sciences Lab, Arcata, CA.
- Zabel, C.J. et. al. 2002. A collaborative approach in adaptive management at a large landscape scale. Pages 1-36, 241-253 in: *Predicting species occurrences: issues of scale and accuracy.* Island Press, Covelo, CA.
- Zabel, C.J., J.R. Dunk, H.B. Stauffer, L.M. Roberts, B.S. Mulder, and A. Wright. 2003. Northern spotted owl habitat models for research and management application in California. *Ecological Applications* 13(4):1027-1040.
- Zimmerman, K., K. Welstead, E. Williams, and J. Turner. 2004. Northern Spotted Owl Workshop Proceedings. Northern Spotted Owl Workshop, Vancouver, BC. January 21-22, 2004. Published by: FORREX-Forest Research Extension Partnership. Vancouver, BC, Canada.

- Zink, R.M. 2004. The role of subspecies in obscuring avian biological diversity and misleading conservation policy. *Proceedings Roy. Soc., Biological Sciences* 271(1539):561-564.
- Zink, Robert M., G.F. Barrowclough, J.L. Atwood, and R.C. Blackwell-Rago. 2000. Genetics, Taxonomy, and Conservation of the Threatened California Gnatcatcher. *Conservation Biology* 14(5):1394-1405.
- Zink, R.M., S.V. Drovetski, S. Questiau, I.V. Fadeev, E.V. Nesterov, M.C. Westberg, S. Rohwer. 2003 Recent evolutionary history of the bluethroat (*Luscinia svecica*) across Eurasia. *Molecular Ecology*, 12, 3069-3075.
- Zwank, P.J., K.W. Kroel, D.M. Levin, G.M. Southward, and R.C. Romme. 1994. Habitat characteristics of Mexican spotted owls in southern New Mexico. *J. Field Orn.* 65(3):324-334.
- Zybach, Bob. 1996. *Historical Overview of Columbia Gorge Forestlands: Dynamics and Fragmentation, 1792-1996. Unpublished Report. NW Maps Co., Corvallis, OR.*
- Zybach, B. 2004. *Indian burning and wildlife habitat patterns of the Oregon coast range, 1491 to 1848. "Abstract of presentation at The 39th Annual Meeting of the Oregon Chapter of the Wildlife Society "Bridging the Gap: Integrating Wildlife Science, Management and Policy", Bend, OR, February 11-13, 2004. Pg 31."*