



Part 9
References

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References

- Able, K.P.; Noon, B.R. 1977.** Avian community structure along elevational gradients in the northeastern United States. *Oecologia*. 26(3):275-294.
- Adams, D.P. 1986.** Quaternary pollen records from California. In: Bryant, V.M., Jr.; Holloway, R.G., eds. Pollen records of Late-Quaternary North American sediments. Austin, TX: American Association of Stratigraphic Palynologists Foundation: 125-140.
- Affi, A.A.; Clark, V. 1984.** Computer-aided multivariate analysis. Belmont, CA: Lifetime Publications, Wadsworth, Inc. 458 p.
- Agee, J.K. 1989.** A history of fire and slash burning in western Oregon and Washington. In: Hanley, D.P.; Kammenga, J.J.; Oliver, C.D., eds. The burning decision: a regional symposium on slash. Contribution 66. Seattle: College of Forest Resources, University of Washington, Institute of Forest Resources: 3-20.
- Agee, J.K. 1990.** The historical role of fire in Pacific Northwest forests. In: Walstad, J.D.; Radosevich, S.R.; Sandberg, D.V., eds. Natural and prescribed fire in Pacific Northwest forests. Corvallis, OR: Oregon State University Press: 25-38.
- Agee, J.K. This volume.** Fire history of Douglas-fir forests in the Pacific Northwest.
- Agee, J.K.; Dunwiddie, P.W. 1984.** Recent forest development on Yellow Island, Washington. *Canadian Journal of Botany*. 62:2074-2080.
- Agee, J.K.; Flewelling, R. 1983.** A fire cycle model based on climate for the Olympic Mountains, Washington. *Fire and Forest Meteorology Conferences*. 7:32-37.
- Agee, J.K.; Huff, M.H. 1987.** Fuel succession in a western hemlock/Douglas-fir forest. *Canadian Journal of Forest Research*. 17(7):697-704.
- Alaback, P.B. 1982.** Dynamics of understory biomass in Sitka spruce-western hemlock forests of southeast Alaska. *Ecology*. 63(6): 1932-1948.
- Alaback, P.B. 1984.** A comparison of old-growth and second-growth forest structure in the western hemlock-Sitka spruce forests of southeastern Alaska. In: Meehan, W.R.; Merrell, T.R. Jr.; Hartley, T.A., eds. Fish and wildlife relationships in old-growth forests. Proceedings of a symposium; 1982 April 12-15; Juneau, AK. Morehead City, NC: American Institute of Fishery Research Biologists: 219-226.
- Allard, M.W.; Gunn, S.J.; Greenbaum, I.F. 1987.** Mensural discrimination of chromosomally characterized *Peromyscus oreas* and *Peromyscus maniculatus*. *Journal of Mammalogy*. 68:402-406.
- Allen, J.W. 1959.** White pine in western Washington. *Journal of Forestry*. 57:573-576.
- Altig, R.; Brodie, E.D., Jr. 1971.** Foods of *Plethodon larselli*, *Plethodon dunni* and *Ensatina eschscholtzi* in the Columbia River Gorge, Multnomah County, Oregon. *American Midland Naturalist*. 85:226-228.

- Alverson, W.S.; Waller, D.S.; Solheim, S.L. 1988.** Forests too deer: edge effects in northern Wisconsin. *Conservation Biology*. 2:348-358.
- American Ornithologists' Union. 1983.** Checklist of North American birds, 6th ed. Lawrence, KS: Allen Press.
- American Society of Mammalogists. 1987.** Acceptable field methods in mammalogy: preliminary guidelines approved by the American Society of Mammalogists. *Journal of Mammalogy*. 68(suppl.):1-18.
- Anderson, H.M. 1988.** Old-growth forests: a conservationist's perspective. *Natural Areas Journal*. 8: 13-16.
- Anderson, P.K. 1980.** Evolutionary implications of microtine behavioral systems on the ecological stage. *The Biologist*. **62:70-88.**
- Anderson, S.H. 1979.** Changes in forest bird species composition caused by transmission-line corridor cuts. *American Birds*. 33:3-6.
- Anderson, S.H.; Shugart, H.H. 1974.** Habitat selection of breeding birds in an east Tennessee deciduous forest. *Ecology*. 55:828-837.
- Andrus, C.; Froehlich, H.A. 1988.** Riparian forest development after logging or fire in the Oregon Coast Range: wildlife habitat and timber value. In: Raedeke, K.J., ed. *Streamside management: riparian wildlife and forestry interactions*. Proceedings of a symposium; 1987 February 11-13; University of Washington, Seattle. Contribution 59. Seattle: Institute of Forest Resources, University of Washington: 139-152.
- Anonymous. 1983a.** A fire history of the Douglas-fir/mixed evergreen forests of the Northern California Coast Range Preserve. Walnut Creek, CA: Wildland Resource Management. 40 p.
- Anonymous. 1983b.** The great fire of 500 years ago. *Quinnault Natural Resources*. 4(5):23.
- Anonymous. 1983-1985.** Annual cone crop reports. States of Washington and Oregon. Compiled by State of Washington, Department of Natural Resources; Oregon State Forestry Department; and USDA Forest Service, Pacific Northwest Region.
- Anthony, E.L.P.; Kunz, T.H. 1977.** Feeding strategies of the little brown bat, *Myotis lucifugus*, in southern New Hampshire. *Ecology*. 58:775-786.
- Anthony, R.G.; Forsman, E.D.; Green, G.A. [and others]. 1987.** Small mammal populations in riparian zones of coniferous forests in western Oregon. *The Mammalogist*. 68:94-102.
- Anthony, R.G.; Morrison, M.L. 1985.** Influence of glyphosate herbicide on small mammal populations in western Oregon. *Northwest Science*. 59: 159-168.
- Antos, J.A.; Zobel, D.B. 1984.** Ecological implications of belowground morphology of nine coniferous forest herbs. *Botanical Gazette*. 145(4):508-517.
- Arnolds, E. 1981.** Ecology and coenology of macrofungi in grasslands and moist heathlands in Drenthe, the Netherlands. Part 1. Introduction and synecology. Cramer, Vaduz: *Bibliotheca mycologica* 83.407 p.
- Asher, S.C.; Thomas, V.G. 1985.** Analysis of temporal variation in the diversity of a small mammal community. *Canadian Journal of Zoology*. 63: 1106-1109.
- Askins, R.A.; Philbrick, M.J. 1987.** Effect of changes in regional forest abundance on the decline and recovery of a forest bird community. *Wilson Bulletin*. 99:7-21.
- Atzet, T.; Wheeler, D. 1982.** Historical and ecological perspectives on fire activity in the Klamath Geological Province of the Rogue River and Siskiyou National Forests. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region. 16 p.
- Atzet, T.; Wheeler, D.; Gripp, R. 1988.** Fire and forestry in southwest Oregon. *FIR Report*. 9(4):4-7.
- Aubry, K.B.; Crites, M.J.; West, S.D. This volume.** Regional patterns of small mammal abundance and community composition in Oregon and Washington.
- Aubry, K.B.; Hall, P.A. This volume.** Terrestrial amphibian communities in the Southern Washington Cascade Range.
- Aubry, K.B.; Jones, L.L.C.; Hall, P.A. 1988.** Use of woody debris by plethodontid salamanders in Douglas-fir forests in Washington. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. *Management of amphibians, reptiles, and small mammals in North America*. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 32-37.

- Aubry, K.B.; Putera, J.A. Personal communication.** U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Olympia, WA 98502.
- Aubry, K.B.; Senger, C.M.; Crawford, R.L. 1987.** Discovery of Larch Mountain salamanders (*Plethodon lurselli*) in the central Cascade Range of Washington. *Biological Conservation*. 42:147-152.
- Bailey, V. 1936.** The mammals and life zones of Oregon. *North American Fauna*. 55:1-416.
- Baker, R.G. 1983.** Holocene vegetational history of the Western United States. In: Wright, H.E., Jr., ed. Late-Quaternary environments of the United States. The Holocene. Minneapolis: University of Minnesota Press. 2:109-127.
- Balda, R.P. 1975.** The relationship of secondary cavity nesters to snag densities in western coniferous forests. *Wildl. Hab. Tech. Bull.* Albuquerque, NM: U.S. Department of Agriculture, Forest Service, Southwest Region. 37 p.
- Baldwin, P.H.; Zaczkowski, N.K. 1963.** Breeding biology of the Vaux's swift. *Condor*. 65:200-206.
- Bangs, O. 1898.** Description of a new white-footed mouse from the Mount Baker Range, British Columbia. *Proceedings of the Biological Society of Washington*. 12:83-84.
- Barbour, R.W.; Davis, W.H. 1969.** *Bats of America*. Lexington, KY: University Press of Kentucky. 286 p.
- Barnosky, C.W. 1981.** A record of Late Quaternary vegetation from Davis Lake, Southern Puget Lowland, Washington. *Quaternary Research*. 16:221-239.
- Barnosky, C.W. 1985.** Late Quaternary vegetation near Battle Ground Lake, southern Puget Trough, Washington. *Geological Society of American Bulletin*. 96:263-271.
- Barnosky, C.W.; Anderson, P.M.; Bartlein, P.J. 1987.** The northwestern U.S. during deglaciation: vegetation and climatic implications. In: Ruddiman, W.F.; Wright, H.E., Jr., eds. *North America and adjacent oceans during the last deglaciation*. Boulder, CO: Geological Society of America, The Geology of North America series. (K-3):289-321.
- Barrett, S.W.; Arno, S.F. 1982.** Indian fires as an ecological influence in the northern Rockies. *Journal of Forestry*. 80(10):647-651.
- Bartels, R.; Dell, J.D.; Knight, R.L.; Schaefer, G. 1985.** Dead and down woody material. In: Brown, E.R., tech. ed. *Management of wildlife and fish habitats in forests of western Oregon and Washington*. Part 1 - Chapter narratives. Publ. R6-F&WL-192-1985. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region: 171-186.
- Bartlein, P.J.; Prentice, I.C. 1989.** Orbital variations, climate and paleoecology. *Trends in Ecology and Evolution*. 4(7):195-199.
- Bartlett, M.S. 1947.** Multivariate analysis. *Journal of the Royal Statistical Society (Series B)*. 9:176-197.
- Battacharyya, H. 1981.** Theory and methods of factor analysis and principal components. In: Capen, D.E., ed. *The use of multivariate statistics in studies of wildlife habitat*. Gen. Tech. Rep. RM-87. Fort Collins, CO: Rocky Mountain Forest and Range Experiment Station: 72-79.
- Beedy, E.C. 1982.** Bird community structure in coniferous forests of Yosemite National Park, California. Davis, CA: University of California. 167 p. Ph.D. dissertation.
- Bell, G.P. 1980.** Habitat use and responses to patches of prey by desert insectivorous bats. *Canadian Journal of Zoology*. 58:1876-1883.
- Belwood, J.J.; Fenton, M.B. 1976.** Variation in the diet of *Myotis lucifugus* (Chiroptera: Vespertilionidae). *Canadian Journal of Zoology*. 54: 1674-1678.
- Benkman, C.W. 1987.** Food profitability and the foraging ecology of crossbills. *Ecology*. 57:251-267.
- Bennett, S.H.; Gibbons, J.W.; Glanville, J. 1980.** Terrestrial activity, abundance and diversity of amphibians in differently managed forest types. *American Midland Naturalist*. 103:412-416.
- Bent, A.C. 1964.** *Life histories of North American woodpeckers*. New York: Dover Publications. 334 p. [first published in 1939 as U.S. National Mus. Bull. 174.]
- Berntsen, C.M. 1960.** Productivity of a mature Douglas-fir stand. Res. Note 188. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 4 p.

- Berntsen, C.M.; Rothacher, J. 1959.** A guide to the H.J. Andrews Experimental Forest. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 21 p.
- Beschta, R.L.; Bilby, R.E.; Brown, G.W. [and others]. 1987.** Stream temperature and aquatic habitat: fisheries and forestry interactions. In: Salo, E.O.; Cundy, T.W., eds. Streamside management: forestry and fishery interactions. Proceedings of a symposium; 1987 February 12-14; University of Washington, Seattle. Contribution 57. Seattle: Institute of Forest Resources, University of Washington: 191-232.
- Best, L.B.; Stauffer, D.F. 1986.** Factors confounding evaluation of bird-habitat relationships. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. Wildlife 2000: modeling habitat relationships of terrestrial vertebrates. Proceedings of an international symposium; 1984 October 7- 11; Fallen Leaf Lake, California Madison, WI: University of Wisconsin Press: 209-216.
- Bierlmaier, F.A. Unpublished data.** On file at: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR 97331.
- Bierlmaier, F.A.; McKee, A. 1989.** Climatic summaries and documentation for the primary meteorological station, H.J. Andrews Experimental Forest, 1972 to 1984. General Technical Report PNW-GTR-242. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 56 p.
- Bingham, B. Personal communication.** U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station, Arcata, CA 95521.
- Bingham, B.; Sawyer, J.O., Jr. This volume.** Distinctive features and definitions of young, mature, and old-growth Douglas-fir/hardwood forests.
- Birks, H J.B.; Birks, H.H. 1980.** Quaternary paleoecology. London: Edward Arnold (Publishers) Limited. 289 p.
- Biswell, B.L.; Boulanger, J.; Carey, A.B. This volume.** Comparison of small mammal abundance in climax and young forests of the Olympic Peninsula, Washington (abstract). Appendix B.
- Biswell, B.L.; Carey, A.B. This volume.** Flying squirrel abundance in young and old-growth forests of the Pacific Northwest (abstract). Appendix B.
- Blake, J.G.; Hoppes, W.G. 1986.** Influence of resource abundance on use of tree-fall gaps by birds in an isolated woodlot. *Auk*. 103(2):328-340.
- Blinn, T.; Swanson, F.J.; McKee, A., camps. 1988.** Research publications of the H.J. Andrews Experimental Forest, Cascade Range, Oregon: 1988 supplement. Gen. Tech. Rep. PNW-223. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 25 p.
- Bloom, S.A. 1981.** Similarity indices in community studies: potential pitfalls. *Marine Ecology-Progress Series*. 5:125-128.
- Blymer, M.J.; McGinnes, B. 1977.** Observations on possible detrimental effects of clearcutting on terrestrial amphibians. *Bulletin of the Maryland Herpetological Society*. 13:79-83.
- Bock, C.E.; Lepthien, L.W. 1976.** Synchronous eruptions of boreal seed-eating birds. *American Naturalist*. 110:559-571.
- Bogert, C.M. 1960.** The influence of sound on the behavior of amphibians and reptiles. In: Lanyon, W.W; Tavolga, W.N., eds. Animal sounds and communication. *American Institute of Biology*. 7: 137-320.
- Bond, R.R. 1957.** Ecological distribution of breeding birds in the upland forests of southern Wisconsin. *Ecological Monographs*. 27:351-384.
- Bowles, J.B. 1963.** Ornithology of changing forest stands on the western slope of the Cascade Mountains. Seattle: University of Washington. 87 p. M.S. thesis.
- Boyce, J.S.; Wagg, J.W.B. 1953.** Conk rot of old-growth Douglas-fir in western Oregon. Bulletin 4. Oregon Forest Products Laboratory and Oregon State Forest Department. 96 p.
- Boyd, R.J., Jr. 1980.** Western white pine. In: Eyre, F.E., ed. Forest cover types of the United States and Canada. Washington, DC: Society of American Foresters: 94-95.
- Boyd, R. 1986.** Strategies of Indian burning in the Willamette Valley. *Canadian Journal of Anthropology*. 5(1):65-86.
- Briese, L.A.; Smith, M.H. 1974.** Seasonal abundance and movement of nine species of small mammals. *Journal of Mammalogy*. 55:615-629.

- Brokaw, N.** 1985. Gap-phase regeneration in tropical forest. *Ecology*. 66:682-687.
- Brown, E.R., tech. ed.** 1985. Management of wildlife and fish habitats in forests of western Oregon and Washington. Part I-Chapter narratives, 332 p. Part 2-Appendices, 302 p. Publ. R6-F&WL-192-1985. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region.
- Brown, J.H.** 1971. Mammals on mountaintops: nonequilibrium insular biogeography. *American Naturalist*. 105:467-478.
- Brown, J.H.** 1978. The theory of insular biogeography and the distribution of boreal birds and mammals. *Great Basin Naturalist*. 2:209-227.
- Brown, J.H.; Kodric-Brown, A.** 1977. Turnover rates in insular biogeography: effect of immigration on extinction. *Ecology*. 58:445-449.
- Brown, R.B.; Parsons, R.B.** 1973. Soils of the reference stands-Oregon IBP. Coniferous Forest Biome Internal Report 128. Seattle: University of Washington. 76 p.
- Brubaker, L.B.** 1986. Tree population responses to climatic change. *Vegetatio*. 67: 119-130.
- Brubaker, L.B.** **This volume.** Climate change and the origin of old-growth Douglas-fir forests in the Puget Sound lowland.
- Bryant, M.D.** 1985. Changes 30 years after logging in large woody debris and its use by salmonids. In: Johnson, R.R.; Ziebell, C.D.; Patton, D.R. [and others], tech. coords. Riparian ecosystems and their management: reconciling conflicting uses. First North American Riparian Conference; 1985 April 16-18; Tucson, AZ. Gen. Tech. Rep. RM-120. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 329-334.
- Buchanan, T.S.; Englerth, G.H.** 1940. Decay and other losses in windthrown timber on the Olympic Peninsula, Washington. *Tech. Bull.* 733. Washington, DC: U.S. Department of Agriculture, Forest Service. 30 p.
- Buhlman, K.A.; Pague, C.A.; Mitchell, J.C.; Glasgow, R.B.** 1988. Forestry operations and terrestrial salamanders: techniques in a study of the Cow Knob salamander, *Plethodon punctatus*. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. Management of amphibians, reptiles, and small mammals in North America. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 38-44.
- Bull, E.L.** 1980. Resource partitioning among woodpeckers in northeastern Oregon. Moscow, ID: University of Idaho. 120 p. Ph.D. dissertation.
- Bull, E.L.; Meslow, E.C.** 1977. Habitat requirements of the pileated woodpecker in northeastern Oregon. *Journal of Forestry*. 75:335-337.
- Bull, E.L.; Peterson, S.R.; Thomas, J.W.** 1986a. Resource partitioning among woodpeckers in northeastern Oregon. Res. Note PNW-444. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 19 p.
- Bull, E.L., Thomas, J.W.; Horn, K.** 1986b. Snag management on National Forests in the Pacific Northwest-1984. *Western Journal of Applied Forestry*. 1:41-43.
- Burgess, R.L.; Sharpe, D.M., eds.** 1981. Forest island dynamics in man-dominated landscapes. New York: Springer-Verlag. 310 p.
- Burke, R.M.; Birkeland, P.W.** 1983. Holocene glaciation in the mountain ranges of the Western United States. In: Wright, H.E., Jr., ed. Late-Quaternary environments of the United States. The Holocene. Minneapolis: University of Minnesota Press. 2:3-11.
- Burnham, K.P.; Anderson, D.R.; Laake, J.L.** 1980. Estimation of density from line transect sampling of biological populations. *Wildlife Monographs* 72. Washington, DC: The Wildlife Society. 202 p. Supplement to *Journal of Wildlife Management*.
- Burnham, K.P.; Anderson, D.R.; Laake, J.L.** 1981. Line transect estimation of bird population density using a Fourier series. In: Ralph, C.J.; Scott, J.M., eds. Estimating numbers of terrestrial birds. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:466-481.
- Burton, T.M.; Likens, G.E.** 1975. Salamander populations and biomass in the Hubbard Brook Experimental Forest, New Hampshire. *Copeia*. 1975:541-546.
- Bury, R.B.** 1968. The distribution of *Ascaphus truei* in California. *Herpetologica*. 24:39-46.

- Bury, R.B. 1983.** Differences in amphibian populations in logged and old-growth redwood forest. *Northwest Science*. 57:167-178.
- Bury, R.B. 1988.** Habitat relationships and ecological importance of amphibians and reptiles. In: Raedeke, K.J., ed. *Streamside management: riparian wildlife and forestry interactions*. Contribution 59. Seattle: Institute of Forest Resources, University of Washington: 61-76.
- Bury, R.B.; Corn, P.S. 1987.** Evaluation of pitfall trapping in northwestern forests: trap arrays with drift fences. *Journal of Wildlife Management*. 51: 112-119.
- Bury, R.B.; Corn, P.S. 1988a.** Douglas-fir forests in the Oregon and Washington Cascades: relations of the herpetofauna to stand age and moisture. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. *Management of amphibians, reptiles, and small mammals in North America*. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 11-22.
- Bury, R.B.; Corn, P.S. 1988b.** Responses of aquatic and streamside amphibians to timber harvest: a review. In: Raedeke, K.J., ed. *Streamside management: riparian wildlife and forestry interactions*. Proceedings of a symposium; 1987 February 11-13; University of Washington, Seattle. Contribution 59. Seattle: Institute of Forest Resources, University of Washington: 165-181.
- Bury, R.B.; Corn, P.S. In press.** Sampling methods for amphibians in streams. Gen. Tech. Rep. PNW-XXX. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.
- Bury, R.B.; Corn, P.S.; Aubry, K.B. This volume(a).** Regional patterns of terrestrial amphibian communities in Oregon and Washington.
- Bury, R.B.; Corn, P.S.; Aubry, K.B. [and others]. This volume(b).** Aquatic amphibian communities in Oregon and Washington.
- Bury, R.B.; Martin, M. 1973.** Comparative studies on the distribution and foods of plethodontid salamanders in the redwood region of northern California. *Journal of Herpetology*. 7:331-335.
- Bury, R.B.; Raphael, M.G. 1983.** Inventory methods for amphibians and reptiles. In: Bell, J.F.; Atterbury, T., eds. *Renewable resource inventories for monitoring changes and trends*. Proceedings of an international symposium; 1983 August 15-19; Oregon State University, Corvallis. SAF 83-14. Corvallis, OR: Society of American Foresters: 416-419.
- Cain, S.A.; Castro, G.M. De O. 1959.** Manual of vegetation analysis. New York: Harper and Brothers. 325 p.
- Cajander, A.K. 1949.** Forest types and their significance. *Acta Forestalia Fennica*. 56: 1-71.
- Campbell, H.W.; Christman, S.P. 1982.** Field techniques for herpetofaunal community analysis. In: Scott, N.J., Jr., ed. *Herpetological communities*. Wildlife Res. Rep. 13. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service: 193-200.
- Capen, D.E., ed. 1981.** The use of multivariate statistics in studies of wildlife habitat. Gen. Tech. Rep. RM-87. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 249 p.
- Carey, A.B. Personal communication.** U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, 3625 93d Avenue SW, Olympia, WA 98502.
- Carey, A.B. 1983.** Monitoring diurnal, cavity-using bird populations. In: *Snag habitat management*. Proceedings of a symposium; 1983 June 7-9; Flagstaff, AZ. Gen. Tech. Rep. RM-99. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 188-199.
- Carey, A.B. 1984.** A critical look at the issue of species-habitat dependency. In: *New forests for a changing world*. Proceedings of 1983 Convention of the Society of American Foresters; 1983 October 16-20; Bethesda, MD: 346-351.
- Carey, A.B. 1985.** A summary of the scientific basis for spotted owl management. In: Gutierrez, R.J.; Carey, A.B., eds. *Ecology and management of the spotted owl in the Pacific Northwest*. Gen. Tech. Rep. PNW-185. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station: 100-114.
- Carey, A.B. 1988.** The influence of small streams on the composition of upland bird communities. In: Raedeke, K., ed. *Streamside management: riparian wildlife and forestry interaction*. Seattle: University of Washington: 153-162.
- Carey, A.B. 1989.** Wildlife associated with old-growth forests in the Pacific Northwest. *Natural Areas Journal*. 9:151-162.

- Carey, A.B.; Castellano, V.E.; Chappell, C. [and others]. 1990. Training guide for bird identification in Pacific Northwest Douglas-fir forests. Gen. Tech. Rep. PNW-260. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 28 p.
- Carey, A.B.; Hardt, M.M.; Horton, S.P.; Biswell, B.L. **This volume.** Spring bird communities in the Oregon Coast Range.
- Carey, A.B.; Ruggiero, L.F., tech. eds. **In press.** Wildlife-habitat relationships: sampling procedures for Pacific Northwest vertebrates. Series of Gen. Tech. Reps. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.
- Carey, A.B.; Spies, T.A. **This volume.** Sampling design of the Old-Growth Forest Wildlife Habitat Program.
- Carey, A.B.; Witt, J.W. 1991. Track counts as indices to abundances of arboreal rodents. *Journal of Mammalogy*. 72:192-194.
- Castellano, M.A. **Personal observation.** U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR 97331.
- Castellano, M.A.; Trappe, J.M.; Maser, Z.; Maser, C. 1989. Key to spores of the genera of hypogeous fungi of north temperate forests with reference to animal mycophagy. Eureka, CA: Mad River Press. 186 p.
- Center, G.S.; Casler, B.R.; Carey, A.B. **This volume.** Woodrat abundance in forests of the southern Oregon Coast Range (abstract). Appendix B.
- Chalk, D.E.; Miller, S.A.; Hoekstra, T.W. 1984. Multi-resource inventories: integrating information on wildlife resources. *Wildlife Society Bulletin*. 12:357-364.
- Claussen, D.L. 1973a. The thermal relations of the tailed frog, *Ascaphus truei*, and the Pacific treefrog, *Hyla regilla*. *Comparative Biochemistry and Physiology*. 44A:137-153.
- Claussen, D.L. 1973b. The water relations of the tailed frog, *Ascaphus truei*, and the Pacific treefrog, *Hyla regilla*. *Comparative Biochemistry and Physiology*. 44A: 155-171.
- Clevinger, W.R. 1951. S.W. Washington's legendary 'Big Fire.' *Seattle Times Magazine*. 10/28/51:2.
- Cline, S.P.; Berg, A.B.; Wight, H.M. 1980. Snag characteristics and dynamics in Douglas-fir forests, western Oregon. *Journal of Wildlife Management*. 44:773-786.
- Cochran, W.G.; Mosteller, F.; Tukey, J.W. 1954. Principles of sampling. *Journal of the American Statistical Association*. 49:13-35.
- COHMAP members. 1988. Climatic changes of the last 18,000 years: observations and model simulations. *Science*. 241:1043-1052.
- Collins, J.P. 1975. A comparative study of the life history strategies in a community of frogs. Ann Arbor, MI: University of Michigan. 148 p. M.S. thesis.
- Collins, J.T. 1990. Standard common and current scientific names for North American amphibians and reptiles, 3d ed. Society for the Study of Amphibians and Reptiles, Miscellaneous Publications, Herpetological Circular. 19: 1-41.
- Colwell, R.K.; Futuyama, D.J. 1971. On the measurement of niche breadth and overlap. *Ecology*. 52:567-576.
- Conner, R.N. 1979a. Minimum standards and wildlife management. *Wildlife Society Bulletin*. 7:293-296.
- Conner, R.N. 1979b. Seasonal changes in woodpecker foraging methods: strategies for winter survival. In: Dickson, J.G.; Conner, R.N.; Fleet, R.R. [and others], eds. The role of insectivorous birds in forest systems. New York: Academic Press: 95-106.
- Conner, R.N. 1980. Foraging habitats of woodpeckers in southwestern Virginia. *Journal of Field Ornithology*. 51(2):119-127.
- Conner, R.N. 1981. Seasonal changes in woodpecker foraging patterns. *Auk*. 98(3):562-570.
- Conner, R.N.; Adkisson, C.S. 1977. Principal component analysis of woodpecker nesting habitat. *Wilson Bulletin*. 89: 122-129.
- Conner, R.N.; Hooper, R.G.; Crawford, H.S.; Mosby, H.S. 1975. Woodpecker nesting habitat in cut and uncut woodlands in Virginia. *Journal of Wildlife Management*. 39(1):144-150.
- Conner, R.N.; Miller, O.K.; Adkisson, C.S. 1976. Woodpecker dependence on trees infected by fungal heart rots. *Wilson Bulletin*. 88:575-581.

- Connor, E.F.; McCoy, E.D. 1979.** The statistics and biology of the species-area relationship. *American Naturalist*. 113:791-833.
- Connor, E.F.; Simberloff, D. 1986.** Competition, scientific method, and null models in ecology. *American Scientist*. 74:155-162.
- Cooke, W.B. 1955.** Fungi, lichens and mosses in relation to vascular plant communities in eastern Washington and adjacent Idaho. *Ecological Monographs*. 25: 119-180.
- Cooke, W.B. 1972.** The Exeter papers. Program and introduction. *Mycopathologia et Mycologia Applicata*. 48: 1-3.
- Cormack, R.M. 1971.** A review of classification. *Journal of the Royal Statistical Society, Series A*. 134:321-367.
- Corn, J.G.; Witt, J. This volume.** Flying squirrel live-trapping success (abstract). Appendix B.
- Corn, P.S.; Bury, R.B. 1986.** Habitat use and terrestrial activity by red *tree* voles (*Arborimus longicaudus*) in Oregon. *Journal of Mammalogy*. 67:404-406.
- Corn, P.S.; Bury, R.B. 1989.** Logging in western Oregon: responses of headwater habitats and stream amphibians. *Forest Ecology and Management*. 29:39-57.
- Corn, P.S.; Bury, R.B. 1990.** Sampling methods for terrestrial amphibians and reptiles. Gen. Tech. Rep. PNW-256. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 34 p.
- Corn, P.S.; Bury, R.B. This volume (a).** Small mammal communities in the Oregon Coast Range.
- Corn, P.S.; Bury, R.B. This volume (b).** Terrestrial amphibian communities in the Oregon Coast Range.
- Corn, P.S.; Bury, R.B.; Spies, T.A. 1988.** Douglas-fir forests in the Cascade Mountains of Oregon and Washington: Is the abundance of small mammals related to stand age and moisture? In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. Management of amphibians, reptiles, and small mammals in North America. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 340-352.
- Cowan, I.M.; Guiguet, C J. 1965.** The mammals of British Columbia. *British Columbia Provincial Museum Handbook* 11. 414 p.
- Crawford, H.S.; Hooper, R.G.; Titterton, R.W. 1981.** Song bird response to silvicultural practices in central Appalachian hardwoods. *Journal of Wildlife Management*. 45(3):680-692.
- Cross, S.P. 1976.** A survey of bat populations and their habitat preferences in southern Oregon. Unpublished report to the National Science Foundation by Southern Oregon State College. On file at Southern Oregon State College, Ashland, OR 97520. 89 p.
- Crump, M.L. 1982.** Amphibian reproductive ecology at the community level. In: Scott, N.J., Jr., ed. Herpetological communities. *Wildlife Res. Rep.* 13. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service: 21-36.
- Cwynar, L.C. 1987.** Fire and the forest history of the North Cascade Range. *Ecology*. 69:791-802.
- Dalquest, W.W. 1941.** Ecologic relationships of four small mammals in western Washington. *Journal of Mammalogy*. 22:170-173.
- Dalquest, W.W. 1948.** Mammals of Washington. Lawrence, KS: University of Kansas Publications, Museum of Natural History. 2: 1-444.
- Dalquest, W.W.; Orcutt, D.R. 1942.** The biology of the least shrew-mole, *Neurotrichus gibbsii minor*. *American Midland Naturalist*. 27:387-401.
- Daubemire, R. 1968.** Soil moisture in relation to vegetation distribution in the mountains of northern Idaho. *Ecology*. 49:431-438.
- Daugherty, C.H.; Allendorf, F.W.; Dunlop, W-W.; Knudsen, K.L. 1983.** Systematic implications of geographic patterns of genetic variation in the genus *Dicamptodon*. *Copeia*. 1983:679-691.
- Daugherty, C.H.; Sheldon, A.L. 1982.** Age-specific movement patterns of the frog *Ascaphus truei*. *Herpetologica*. 38:468-474.
- Davis, J.W.; Goodwin, G.A.; Ockenfels, R.A., tech. coords.** 1983. Snag habitat management. Proceedings of a symposium; 1983 June 7-9; Flagstaff, AZ. Gen. Tech. Rep. RM-99. Ft. Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 226 p.

- Davis, L.S.; Henderson, J.A. 1977.** Many uses and many users: some desirable characteristics of a common land and water classification system. In: Marmelstein, A., chairman. Classification, inventory, and analysis of fish and wildlife habitat. Proceedings of a national symposium: 1977 January 24-27; Phoenix, AZ. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service. FWS/OBS-78/76: 13-34.
- Dawson, D.G. 1981.** Counting birds for a relative measure (index) of density. In: Ralph, C.J.; Scott, J.M., eds. Estimating numbers of terrestrial birds. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. Studies in Avian Biology. 6:12-16.
- DeBell, D.S.; Franklin, J.F. 1987.** Old-growth Douglas-fir and western hemlock: a 36-year record of growth and mortality. Western Journal of Applied Forestry. 2: 111 - 114.
- DeGraaf, R.M.; Chadwick, N.L. 1987.** Forest type, timber size class and New England breeding birds. Journal of Wildlife Management. 51:212-217.
- DeGraaf, R.M.; Rudis, D.D. 1986.** New England wildlife: habitat, natural history and distribution. Gen. Tech. Rep. NE-108. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 491 p.
- de Vlaming, V.L.; Bury, R.B. 1970.** Thermal selection in tadpoles of the tailed frog, *Ascaphus truei*. Journal of Herpetology. 4:179-189.
- Diamond, J.M. 1972.** Biogeographic kinetics: estimation of relaxation times for avifaunas of southwest Pacific islands. Proceedings of the National Academy of Sciences (USA). 69:3199-3203.
- Diamond, J.M. 1984.** "Normal" extinctions of isolated populations. In: Nitecki, M.H., ed. Extinctions. Chicago: University of Chicago Press: 191-246.
- Diamond, J.M.; Bishop, K.D.; Van Balen, S. 1987.** Bird survival in an isolated Javan woodland: island or mirror? Conservation Biology. 1:132-133.
- Dice, L.R. 1945.** Measures of the amount of ecological association between species. Ecology. 26:297-302.
- Dixon, J.R.; Heyer, W.R. 1968.** Anuran succession in a temporary pond in Colima, Mexico. Bulletin of Southern California Academy of Science. 67:129-137.
- Dixon, W.J., ed. 1985.** BMDP statistical software manual. Berkeley, CA: University of California Press. 734 p.
- Dodwell, A.; Rixon, T.F. 1902.** Forest conditions of the Olympic Reserve, Washington. U.S. Geologic Survey Professional Paper 7. Washington, DC: U.S. Geologic Survey.
- Draper, N.R.; Smith, H. 1981.** Applied regression analysis, 2d ed. New York: John Wiley and Sons. 709 p.
- Dueser, R.D.; Shugart, H.H., Jr. 1979.** Niche pattern in a forest floor small mammal fauna. Ecology. 60:108-118.
- Dumas, P.C. 1956.** The ecological relations of sympatry in *Plethodon dunni* and *Plethodon vehiculum*. Ecology. 37:484-495.
- Dunnett, C.W. 1980.** Pairwise multiple comparisons in the unequal variance case. Journal of the American Statistical Association. 75:796-800.
- Dunwiddie, P.W. 1986.** A 6,000-year record of forest history on Mount Rainier, Washington. Ecology. 67:58-68.
- Dyrness, C.T. 1973.** Early stages of plant succession following logging and burning in the western Cascades of Oregon. Ecology. 54:57-69.
- Dyrness, C.T.; Franklin, J.F.; Moir, W.H. 1974.** A preliminary classification of forest communities in the central portion of the western Cascades of Oregon. Coniferous Forest Biome Bulletin 4. Seattle: US/IBP, University of Washington. 123 p.
- Eberhardt, L.L. 1976.** Quantitative ecology and impact assessment. Journal of Environmental Management. 4:27-70.
- Edmonds, R.L., ed. 1982.** Analysis of coniferous forest ecosystems in the Western United States. US/IBP Synthesis Series 14. Stroudsburg, PA: Hutchinson Ross Publishing Co. 419 p.
- Efron, B. 1982.** The jackknife, the bootstrap, and other resampling plans. Philadelphia: S.I.A.M. Reg. Conf. Ser. 38.
- Ehrlich, P.R.; Dobkin, D.S.; Wheye, D. 1988.** The birder's handbook. New York: Simon and Schuster, Inc. 785 p.
- Emlen, J.T. 1971.** Population densities of birds derived from transect counts. Auk. 88:323-342.

- Emlen, J.T.** 1977. Estimating breeding season bird densities from transect counts. *Auk*. 94:455-468.
- Emlen, J.T.** 1984. An observer-specific, full-season strip-map method for censusing songbird communities. *Auk*. 101:730-740.
- Emlen, J.T.; DeJong, M.J.; Jaeger, M.J. [and others].** 1986. Density trends and range boundary constraints of forest birds along a latitudinal gradient. *Auk*. 103(4):791-803.
- Enge, K.M.; Marion, W.** 1986. Effects of clearcutting and site preparation on herpetofauna of a north Florida flatwoods. *Forest Ecology and Management*. 14: 177-192.
- Engelhardt, N.T.** 1957. Pathological deterioration of looper-killed western hemlock on southern Vancouver Island. *Forest Science*. 3:125-136.
- Evans, K.E.; Conner, R.N.** 1979. Snag management. In: DeGraaf, R.M.; Evans, K.E., eds. Management of north-central and northeastern forests for nongame birds. Gen. Tech. Rep. NC-51. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest and Range Experiment Station: 214-225.
- Everest, F.H.; Armantrout, N.B.; Keller, S.M. [and others].** 1985. Salmonids. In: Brown, E.R., tech. ed. Management of wildlife and fish habitats in forests of western Oregon and Washington. Part I-Chapter narratives. Publ. R6-F&WL- 192- 1985. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region: 199-230.
- Faaborg, J.** 1979. Qualitative patterns of avian extinction on neotropical land-bridge islands: lessons for conservation. *Journal of Applied Ecology*. 16:99-107.
- Fahnestock, G.R.; Agee, J.K.** 1983. Biomass consumption and smoke production by prehistoric and modern forest fires in western Washington. *Journal of Forestry*. 81:653-657.
- Fenton, M.B.** 1988. Detecting, recording, and analyzing vocalizations of bats. In: Kunz, T.H., ed. Ecological and behavioral methods for the study of bats. Washington, DC: Smithsonian Institution Press: 91-104.
- Fenton, M.B.; van Zyll de Jong, C.G.; Bell, G.P. [and others].** 1980. Distribution, parturition, and feeding of bats in south-central British Columbia. *Canadian Field-Naturalist*. 94:416-420.
- Findley, J.S.** 1955. Speciation of the wandering shrew. Manhattan, KS: University of Kansas Publications, Museum of Natural History. 9:1-68.
- Fleiss, J.L.** 1973. Statistical methods for rates and proportions. New York: John Wiley and Sons, Inc. 223 p.
- Flint, H.R.** 1925. Fire resistance of northern Rocky Mountain conifers. *Idaho Forester*. 7(7):7-10,41-43.
- Fogel, R.M.** 1976. Ecological studies of hypogeous fungi. II. Sporocarp phenology in a western Oregon Douglas-fir stand. *Canadian Journal of Botany*. 54: 1152-1162.
- Fogel, R.M.** 1981. Quantification of sporocarps produced by hypogeous fungi. In: Wicklow, D.T.; Carroll, G.C., ed. The fungal community, its organization and role in the ecosystem. New York: Marcel Dekker: 553-568.
- Fogel, R.M.; Hunt, G.** 1979. Fungal and arboreal biomass in a western Oregon Douglas-fir ecosystem: distribution patterns and turnover. *Canadian Journal of Forest Research*. 9:245-256.
- Fogel, R.; Ogawa, M.; Trappe, J.M.** 1973. Terrestrial decomposition: a synopsis. Coniferous Forest Biome Internal Report 135. Seattle: College of Forest Resources, University of Washington. 12 p.
- Fogel, R.M.; Trappe, J.M.** 1978. Fungus consumption (mycophagy) by small animals. *Northwest Science*. 52: 1-31.
- Force, J.E.** 1986. Firewood use on National Forests in the Western United States. *Western Journal of Applied Forestry*. 1:111-115.
- Forman, R.T.T.; Galli, A.E.; Leck, C.F.** 1976. Forest size and avian diversity in New Jersey woodlots with some land use implications. *Oecologia*. 26: 1-8.
- Forman, R.T.T.; Godron, M.** 1986. Landscape ecology. New York: John Wiley and Sons. 619 p.
- Forsman, E.D.; Meslow, E.C.; Wight, H.M.** 1984. Distribution and biology of the spotted owl in Oregon. *Wildlife Monographs*. 87:1-64.
- Fosburg, W.** 1986. Wildlife issues in the National Forest system. In: Di Silvestro, R.L., ed. Audubon Wildlife Report. New York: The National Audubon Society: 159-173.
- Fowells, H.A., camp.** 1965. Silvics of forest trees of the United States. Agric. Handbk. 271. Washington, DC: U.S. Department of Agriculture, Forest Service. 762 p.

- Frank, E.C.; Lee, R. 1966.** Potential solar beam irradiation on slopes: tables for 30° to 50° latitudes. Res. Pap. RM-18. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 116 p.
- Frankel, O.H.; Soul & M.E. 1981.** Conservation and evolution. New York: Cambridge University Press. 327 p.
- Franklin, J.F. 1979.** Vegetation of the Douglas-fir region. In: Forest soils of the Douglas-fir region. Pullman, WA: Washington State University Cooperative Extension: 93-112.
- Franklin, J.F. 1989.** Toward a new forestry. *American Forests*. November/December:37-44.
- Franklin, J.F.; Cromack, K., Jr.; Denison, W. [and others]. 1981.** Ecological characteristics of old-growth Douglas-fir forests. Gen. Tech. Rep. PNW-118. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 48 p.
- Franklin, J.F.; DeBell, D.S. 1988.** Thirty-six years of tree population change in an old-growth *Pseudotsuga-Tsuga* forest. *Canadian Journal of Forest Research*. 18:633-639.
- Franklin, J.F.; Dyrness, C.T. 1971.** A checklist of vascular plants on the H.J. Andrews Experimental Forest, western Oregon. Research Note PNW-138. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 37 p.
- Franklin, J.F.; Dyrness, C.T. 1973.** Natural vegetation of Oregon and Washington. Gen. Tech. Rep. PNW-8. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 417 p.
- Franklin, J.F.; Forman, R.T.T. 1987.** Creating landscape patterns by forest cutting: ecological consequences and principles. *Landscape Ecology*. 1(1):518.
- Franklin, J.F.; Hemstrom, M.A. 1981.** Aspects of succession in the coniferous forests of the Pacific Northwest. In: West, D.C.; Shugart, H.H.; Botkin D.B., eds. Forest succession. New York: Springer-Verlag: 222-229.
- Franklin, J.F.; Moir, W.H.; Hemstrom, M.A. [and others]. 1988.** The forest communities of Mount Rainier National Park. Scientific Monograph Series 19. Washington, DC: U.S. Department of the Interior. 194 p.
- Franklin, J.F.; Shugart, H.H.; Harmon, M.E. 1987.** Tree death as an ecological process. *Bioscience*. 37:550-556.
- Franklin, J.F.; Spies, T.A. 1984.** Characteristics of old-growth Douglas-fir forests. In: Proceedings of the 1983 National Convention; 1983 October 16-20; Portland, OR. Washington, DC: Society of American Foresters: 328-334.
- Franklin, J.F.; Spies, T.A. This volume.** Ecological definitions of old-growth Douglas-fir forests.
- Franklin, J.F.; Waring, R.H. 1980.** Distinctive features of the northwestern coniferous forest: development, structure, and function. In: Waring, R.H., ed. Forests: fresh perspectives from ecosystem analysis. Proceedings of the 40th Annual Biological Colloquium; 1979 April 27-28; Corvallis, OR. Corvallis, OR: Oregon State University Press: 59-86.
- Franzreb, K. 1977.** Inventory techniques for sampling avian populations. Technical Note T/N 307. Denver, CO: U.S. Department of the Interior, Bureau of Land Management. 17 p.
- Fredriksen, R.L. 1972.** Nutrient budget of a Douglas-fir forest on an experimental watershed in western Oregon. In: Research on coniferous forest ecosystems: first year progress in the coniferous forest biome, US/IBP. Proceedings of a symposium; 1972 March 23-24; Bellingham, WA. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station: 115-131.
- Freemark, K.E.; Merriam, H.G. 1986.** Importance of area and habitat heterogeneity to bird assemblages in temperate forest fragments. *Biological Conservation*. 36: 115-141.
- Fretwell, S.D. 1972.** Populations in a seasonal environment. Princeton, NJ: Princeton University Press. 217 p.
- Freund, R.J.; Littell, R.X.; Spector, P.C. 1986.** SAS System for linear models. Cary, NC: SAS Institute, Inc.
- Gabrielson, I.N.; Jewett, S.G. 1940.** Birds of Oregon. Corvallis, OR: Oregon State Monographs, Studies in Zoology 2. 650 p.
- Galli, A.E.; Leck, C.F.; Forman, R.T.T. 1976.** Avian distribution patterns in forest islands of different sizes in central New Jersey. *Auk*. 93:356-364.
- Garsd, A. 1984.** Spurious correlation in ecological modeling. *Ecological Modelling*. 23:191-201.
- Gashwiler, J.S. 1959.** Small mammal study in west-central Oregon. *Journal of Mammalogy*. 40:128-139.

- Gashwiler, J.S. 1970a.** Further study of conifer seed survival in a western Oregon clearcut. *Ecology*. 51:849-854.
- Gashwiler, J.S. 1970b.** Plant and mammal changes on a clearcut in west-central Oregon. *Ecology*. 51:1018-1026.
- Gauch, H.G., Jr. 1973.** A quantitative evaluation of the Bray-Curtis ordination. *Ecology*. 54:829-836.
- Gauch, H.G., Jr. 1982.** Multivariate analysis in community ecology. New York: Cambridge University Press. 298 p.
- Gauch, H.G.; Wentworth, T.R. 1976.** Canonical correlation analysis as an ordination technique. *Vegetatio*. 33:17-22.
- Gauch, H.G.; Whittaker, R.H. 1981.** Hierarchical classification of community data. *Journal of Ecology*. 69:537-557.
- Gaud, W.S.; Balda, R.P.; Brawn, J.D. 1986.** The dilemma of plots or years: the case for long-term studies. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7- 11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 223-227.
- Gholz, H.L. 1982.** Environmental limits on aboveground net primary production, leaf area, and biomass in vegetation zones of the Pacific Northwest. *Ecology*. 63(2):469-48 1.
- Gibbons, J.W. 1988.** The management of amphibians, reptiles and small mammals in North America: the need for an environmental attitude adjustment. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. *Management of amphibians, reptiles, and small mammals in North America*. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 4-10.
- Gilbert, F.F. 1985.** Old-Growth Wildlife Habitat Project (OGWHP) Oregon Cascades: April 1984-May 1985. Final report submitted to U.S. Department of Agriculture, Forest Service. On file at: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Olympia, WA 98502. 151 p.
- Gilbert, F.F.; Allwine, R. This volume(a).** Small mammal communities in the Oregon Cascade Range.
- Gilbert, F.F.; Allwine, R. This volume(b).** Spring bird communities in the Oregon Cascade Range.
- Gilbert, F.F.; Allwine, R. This volume(c).** Terrestrial amphibian communities in the Oregon Cascade Range.
- Gilbert, F.S. 1980a.** The equilibrium theory of island biogeography: fact or fiction? *Journal of Biogeography*. 7:209-235.
- Gilbert, L.E. 1980b.** Food-web organization and conservation of neotropical diversity. In: Soule M.E.; Wilcox, B.A., ed. *Conservation biology: an evolutionary-ecological perspective*. Sunderland, MA: Sinauer Associates: 11-35.
- Gill, D.E. 1978.** The metapopulation ecology of the red-spotted newt, *Notophthalmus viridescens* (Rafinesque). *Ecological Monographs*. 48: 145-166.
- Gillesberg, A.; Carey, A.B. This volume.** Red tree voles in the Oregon Coast Range (abstract). Appendix B.
- Gilpin, M.E.; Soule M.E. 1986.** Minimum viable populations: processes of species extinction. In: Soule M.E. *Conservation biology: the science of scarcity and diversity*. Sunderland, MA: Sinauer Associates: 19-34.
- Gnaedinger, L.K.; Reed, C.A. 1948.** Contribution to the natural history of the plethodont salamander *Ensatina eschscholtzi*. *Copeia*. 1948:187-196.
- Goldstein, R.A.; Grigal, D.F. 1972.** Definition of vegetation structure by canonical analysis. *Journal of Ecology*. 60:277-284.
- Good, D.A. 1989.** Hybridization and cryptic species in *Dicamptodon* (Caudata: Dicamptodontidae). *Evolution*. 43:728-744.
- Good, D.A.; Wurst, G.Z.; Wake, D.B. 1987.** Patterns of geographic variation in allozymes of the Olympic salamander, *Rhyacotriton olympicus* (Caudata: Dicamptodontidae). *Fieldiana Zoology New Series*. Chicago: Field Museum of Natural History. 32(1374):1-15.
- Goodman, D. 1987a.** The demography of chance extinction. In: Soule M.E., ed. *Viable populations for conservation*. New York: Cambridge University Press: 11-34.
- Goodman, D. 1987b.** How do species persist? Lessons for conservation biology. *Conservation Biology*. 1:59-62.
- Gordon, R.E.; MacMahon, J.; Wake, D.B. 1962.** Relative abundance, microhabitat and behavior of some southern Appalachian salamanders. *Zoologica*. 47:9-14.

- Gould, E. 1955.** The feeding efficiencies of insectivorous bats. *Journal of Mammalogy*. 36:399-407.
- Gould, E. 1959.** Further studies on the feeding efficiency of bats. *Journal of Mammalogy*. 40: 149-150.
- Graber, J.W.; Graber, R.R. 1976.** Environmental evaluations using birds and their habitats. *Biological Notes* 97. Champaign, IL: Illinois Natural History Survey. 40 p.
- Graber, J.W.; Graber, R.R. 1979.** Severe winter weather and bird populations in southern Illinois. *Wilson Bulletin*. 91:88-103.
- Graham, R.L.; Cromack, K., Jr. 1982.** Mass, nutrient content and decay rate of dead boles in rain forests of Olympic National Park. *Canadian Journal of Forest Research*. 12:511-521.
- Gray, A. Unpublished data.** On file at: University of Washington, Seattle, WA 98195.
- Green, D.M.; Campbell, R.W. 1984.** The amphibians of British Columbia. Handbook 45. Victoria: British Columbia Provincial Museum. 101 p.
- Green, R.H. 1979.** Sampling design and statistical methods for environmental biologists, New York: John Wiley and Sons. 257 p.
- Greene, S. 1988.** Research Natural Areas and protecting old-growth forests on Federal lands in western Oregon and Washington. *Natural Areas Journal*. 8:25-30.
- Gregory, S.V.; Swanson, F.J.; McKee, W.A.; Cummins, K.W. In press.** An ecosystem perspective of riparian zones. *Bioscience*.
- Grier, C.C.; Logan, R.S. 1977.** Old-growth *Pseudotsuga menziesii* communities of a western Oregon watershed: biomass distribution and production budgets. *Ecological Monographs*. 47:373-400.
- Griffin, D.R.; Webster, F.A.; Michael, E.R. 1960.** The echolocation of flying insects by bats. *Animal Behavior*. 8:141-154.
- Grulich, G. Unpublished data.** Total Resource Inventory (TRI) database. On file at: Gifford Pinchot National Forest, 6926 E. 4th Plain Blvd., Vancouver, WA 98661.
- Gunn, S.J.; Greenbaum, I.F. 1986.** Systematic implications of karyotypic and morphologic variation in mainland *Peromyscus* from the Pacific Northwest. *Journal of Mammalogy*. 67:294-304.
- Gutierrez, R.J.; Carey, A.B., tech. eds. 1985.** Ecology and management of the spotted owl in the Pacific Northwest. Proceedings of a symposium; 1984 June 19-23; Arcata, CA. Gen. Tech. Rep. PNW-185. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 119 p.
- Haapanen, A. 1965.** Bird fauna of the Finnish forests in relation to forest succession. I. *Annales Zoologici Fennici*. 2:153-196.
- Haapanen, A. 1966.** Bird fauna of the Finnish forests in relation to forest succession. II. *Annales Zoologici Fennici*. 3:176-200.
- Haas, H. 1933.** Die bodenbewohnenden Gropilze in den Waldformationen einiger Gebiete von Wurttemberg. *Beihefte zum Botanischen Centralblatt*. 50(B):35-134.
- Habeck, J.R. 1961.** The original vegetation of the mid-Willamette Valley, Oregon. *Northwest Science*. 35:65-77.
- Habeck, J.R. 1968.** Forest succession in the Glacier Peak cedar-hemlock forests. *Ecology*. 49:872-880.
- Hagar, D.C. 1960.** The interrelationships of logging, birds, and timber regeneration in the Douglas-fir Region of Northwestern California. *Ecology*. 41: 116- 125.
- Hagmeier, E.M.; Stults, C.D. 1964.** A numerical analysis of the distributional patterns of North American mammals, *Systematic Zoology*. 13:125-155.
- Haila, Y. 1986.** North European land birds in forest fragments: evidence for area effects? In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Madison: University of Wisconsin Press: 315-319.
- Haila, Y.; Jarvinen, O. 1981.** The under-exploited potential of bird censuses in insular ecology. In: Ralph, C.J.; Scott, J.M., eds. *Estimating the numbers of terrestrial birds*. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:559-565.
- Hairston, N.G., Sr. 1987.** Community ecology and salamander guilds. New York: Cambridge University Press. 230 p.
- Hall, F.C. 1988.** Pacific Northwest ecoclass codes for plant associations. R6 Ecol. Tech. Pap. 289-87. Portland, OR: US. Department of Agriculture, Forest Service, Pacific Northwest Region. 164 p.

- Hall, J.D.; Murphy, M.L.; Aho, R.S. 1978.** An improved design for assessing impacts of watershed practices on small streams. *Internationale Vereinigung für theoretische und angewandte Limnologie, Verhandlungen*. 20:1359-1365.
- Halpern, C.B. 1987.** Twenty-one years of secondary succession in *Pseudotsuga* forests of the western Cascade Range, Oregon. Corvallis: Oregon State University. 239 p. Ph.D. dissertation.
- Halpern, C.B. 1988.** Early successional pathways and the resistance and resilience of forest communities. *Ecology*. 69:1703-1715.
- Halpern, C.B. 1989.** Early successional patterns of forest species: interactions of life history traits and disturbance. *Ecology*. 70(3):704-720.
- Hamel, P.B.; Cost, N.D.; Sheffield, R.M. 1986.** The consistent characteristics of habitats: a question of scale. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 121-128.
- Hansen, A.J.; Peterson, J.A. Personal communication.** COPE, Hatfield Marine Science Center, 2030 S. Marine Science Dr., Newport, OR 97365.
- Hansen, A.J.; Spies, T.A.; Swanson, F.J.; Ohmann, J.L. In press.** Maintaining biodiversity in managed forests: lessons from natural forests. *Bioscience*.
- Hansen, H.P. 1947.** Postglacial forest succession, climate, and chronology in the Pacific Northwest. *Transactions of the American Philosophical Society*. Philadelphia: The American Philosophical Society. 130 p.
- Hansen, J.; Lacis, A.; Rind, D. [and others]. 1984.** Climate sensitivity: analysis of feedback mechanisms. In: Hansen J.H.; Takahashi, T., eds. *Climate processes and climate sensitivity*. Washington, DC: Maurice Ewing Service, American Geophysical Union: 130-163.
- Harley, J.L.; Smith, S.E. 1983.** *Mycorrhizal symbiosis*. New York: Academic Press. 483 p.
- Harlow, W.M.; Harrar, E.S. 1969.** *Textbook of dendrology*. 5th ed. New York: McGraw-Hill. 512 p.
- Harmon, M.E.; Franklin, J.F. 1983.** Age distribution of western hemlock and its relation to Roosevelt elk populations in the south fork of the Hoh Valley, Washington. *Northwest Science*. 57:249-255.
- Harmon, M.E.; Franklin, J.F. 1989.** Tree seedlings on logs in *Picea-Tsuga* forests of Oregon and Washington. *Ecology*. 70:48-59.
- Harmon, M.E.; Franklin, J.F.; Swanson, F.J. [and others]. 1986.** Ecology of coarse woody debris in temperate ecosystem. In: MacFadyen, A.; Ford, E.D., eds. *Advances in ecological research*. New York: Academic Press. 15:133-302.
- Harn, J. 1984.** Practical aspects of managing old growth forest habitats. In: *Challenges for wildlife and fish-the old-growth ecosystem in managed forests*. Proceedings of the 1983 Technical Session of The Wildlife and Fish Ecology Working Group, New Forests for a Changing World; 1983 October 16-20; Portland, OR. Society of American Foresters: 69.
- Harr, R.D. 1982.** Fog drip in the Bull Run municipal watershed, Oregon. *Water Resources Research*. 18:785-789.
- Harr, R.D. 1986.** Effects of clearcutting on rain-on-snow runoff in western Oregon: a new look at old studies. *Water Resources Research*. 22:1095-1100.
- Harris, L.D. 1984.** The fragmented forest: island biogeographic theory and the preservation of biotic diversity. Chicago: University of Chicago Press. 211 p.
- Harris, L.D. 1989.** Edge effects and conservation of biotic diversity. *Conservation Biology*. 2:330-332.
- Harris, L.D.; Maser, C. 1984.** Animal community characteristics. In: Harris, L.D. *The fragmented forest island biogeography theory and the preservation of biotic diversity*. Chicago: University of Chicago Press: 44-68.
- Harris, L.D.; Maser, C.; McKee, A. 1982.** Patterns of old growth harvest and implications for Cascades wildlife. *Transactions of the North American Wildlife and Natural Resources Conference*. Washington, DC: Wildlife Management Institute. 47:374-392.
- Harris, M.A. 1982.** Habitat use among woodpeckers in forest burns. Missoula, MT: University of Montana. 63 p. M.S. thesis.
- Hartigan, J.A. 1975.** *Clustering algorithms*. New York: John Wiley and Sons, Inc. 351 p.

- Hartman, G.G.; Yates, T.L. 1985.** *Scapanus orarius*. Mammalian Species. 253: 1-5.
- Hartman, G.; Scrivener, J.C.; Holtby, L.B.; Powell, L. 1987.** Some effects of different streamside treatments on physical conditions and fish population processes in Carnation Creek, a coastal rain forest stream in British Columbia. In: Salo, E.O.; Cundy, T.W., eds. Streamside management: forestry and fishery interactions. Proceedings of a symposium; 1987 February 12-14; University of Washington, Seattle. Contribution 57. Seattle: Institute of Forest Resources, University of Washington: 330-372.
- Hartshorne, G.S. 1978.** Treefalls and tropical forest dynamics. In: Tomlinson, P.B.; Zimmerman, M.H., eds. Tropical trees as living systems. New York: Cambridge University Press: 617-638.
- Hawes, M.L. 1977.** Home range, territoriality, and ecological separation in sympatric shrews, *Sorex vagrans* and *Sorex obscurus*. Journal of Mammalogy. 58:354-367.
- Hawkins, C.P.; Gottschalk, L.J.; Brown, S.S. 1988.** Densities and habitat of tailed frog tadpoles in small streams near Mount St. Helens following the 1980 eruption. Journal of the North American Benthological Society. 7:246-252.
- Hawkins, C.P.; Murphy, M.L.; Anderson, N.H. 1982.** Effects of canopy, substrate composition, and gradient on the structure of macroinvertebrate communities in Cascade Range streams of Oregon. Ecology. 63:1840-1856.
- Hawkins, C.P.; Murphy, M.L.; Anderson, N.H.; Wilzbach, M.A. 1983.** Density of fish and salamanders in relation to riparian canopy and physical habitat in streams of the northwestern United States. Canadian Journal of Fisheries and Aquatic Sciences. 40:1173-1185.
- Hayes, J.P.; Cross, S.P. 1987.** Characteristics of logs used by western red-backed voles, *Clethrionomys californicus*, and deer mice, *Peromyscus maniculatus*. Canadian Field-Naturalist. 101:543-546.
- Haynes, R.W. 1986.** Inventory and value of old-growth in the Douglas-fir region. Research Note PNW-437. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 19 p.
- Heatwole, H. 1982.** A review of structuring in herpetofaunal assemblages. In: Scott, N.J., ed. Herpetological communities: a volume of the Society for the Study of Amphibians and Reptiles and the Herpetologists League. Wildlife Res. Rep. 13. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service: 1-19.
- Hebda, R.J.; Mathewes, R.W. 1984.** Holocene history of cedar and native Indian cultures of the North American Pacific Coast. Science. 225:711-712.
- Hejl, S.J.; Beedy, E.C. 1986.** Weather-induced variation in the abundance of birds. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. Wildlife 2000: modeling habitat relationships of terrestrial vertebrates. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 241-244.
- Hejl, S.J.; Verner, J.; Balda, R.P. 1988.** Weather and bird populations in true fir forests of the Sierra Nevada, California. Condor. 90(3):561-574.
- Helgeson, O. 1988.** Historic fire year for Oregon and California. FIR Report. 9(4):2-4.
- Hemstrom, M.A. 1979.** A recent disturbance history of forest ecosystems at Mount Rainier National Park. Corvallis: Oregon State University. Ph.D. dissertation.
- Hemstrom, M.A.; Franklin, J.F. 1982.** Fire and other disturbances of the forest in Mount Rainier National Park. Quaternary Research. 18:32-51.
- Hemstrom, M.A.; Logan, S.E.; Pavlat, W. 1987.** Plant association and management guide. Willamette National Forest. R6-Ecol257-B-86. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region. 312 p.
- Henderson, J.A.; Peter, D. 1981.** Preliminary plant associations and habitat types of the Shelton Ranger District, Olympic National Forest. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region. 53 p.
- Hennings, D.; Hoffman, R.S. 1977.** A review of the taxonomy of the *Sorex vagrans* species complex from western North America. Occasional Paper. Manhattan, KS: University of Kansas, Museum of Natural History. 68:1-35.
- Hering, T.F. 1966.** The terricolous higher fungi of four Lake District woodlands. Transactions of the British Mycological Society. 49:369-383.
- Herrington, R.E. 1988.** Talus use by amphibians and reptiles in the Pacific Northwest. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. Management of amphibians, reptiles, and small mammals in North America. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 216-221.

- Herrington, R.E.; Larsen, J.H. 1985.** Current status, habitat requirements and management of the Larch Mountain salamander *Plethodon larseffi* Burns. Biological Conservation. 34:169-179.
- Hett, J.; Taber, R.; Long, J.; Schoen, J. 1978.** Forest management policies and elk summer carrying capacity in the *Abies amabilis* forest, western Washington. Environmental Management. 2:561-566.
- Heusser, C J. 1977.** Quaternary palynology of the Pacific slope of Washington. Quaternary Research. 8:282-306.
- Heusser, C J. 1986.** Quaternary pollen records from the interior Pacific Northwest coast: Aleutians to the Oregon-California boundary. In: Bryant, V.M., Jr.; Holloway, R.G., eds. Pollen records of Late-Quaternary North American sediments. Austin, TX: American Association of Stratigraphic Palynologist Foundation: 141-167.
- Hicks, L. 1985.** Multiple-use on western private industrial timberlands. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 50:211-214.
- Higgs, A.J.; Usher, M.B. 1980.** Should nature reserves be large or small? Nature. 285:569.
- Hill, M.O. 1973.** Diversity and evenness: a unifying notation and its consequences. Ecology. 54(2):427-432.
- Hill, M.O. 1979a.** DECORANA: a FORTRAN program for detrended correspondence analysis and reciprocal averaging. Ithaca, NY: Ecology and Systematics, Cornell University. 52 p.
- Hill, M.O. 1979b.** TWINSPAN: a FORTRAN program for arranging multivariate data in an ordered 2-way table by classification of the individuals and attributes. Ithaca, NY: Ecology and Systematics, Cornell University. 90 p.
- Hill, M.O.; Bunce, R.G.H.; Shaw, M.W. 1975.** Indicator species analysis, a divisive polythetic method of classification, and its application to a survey of native pinewoods in Scotland. Journal of Ecology. 63:597-613.
- Hill, M.O.; Gauch, H.G. 1980.** Deb-ended correspondence analysis: an improved ordination technique. Vegetatio. 42:47-58.
- Hitchcock, C.L.; Cronquist, A. 1973.** Flora of the Pacific Northwest. Seattle: University of Washington Press. 730 p.
- Hofmann, J.V. 1917.** The relation of brush fires to natural reproduction: Applegate Division of the Crater National Forest. Wind River, WA: U.S. Department of Agriculture, Forest Service. 32 p.
- Holmes, R.T.; Sherry, T.W.; Sturges, F.W. 1986.** Bird community dynamics in a temperate deciduous forest: long-term trends at Hubbard Brook. Ecological Monographs. 56:201-220.
- Hooven, E.F. 1973.** Effects of vegetation changes on small forest mammals. In: Hermann, R.K.; Black, H.C., eds. Even-aged management. Corvallis, OR: Oregon State University. 90 p.
- Hooven, E.F.; Black, H.C. 1976.** Effects of some clearcutting practices on small-mammal populations in western Oregon. Northwest Science. 50:189-208.
- Hoover, R.L.; Wills, D.L. 1984.** Managing forested lands for wildlife. Denver, CO: Colorado Division of Wildlife in cooperation with U.S. Department of Agriculture, Forest Service, Rocky Mountain Region. 459 p.
- Howell, A.B. 1926.** Voles of the genus *Phenacomys*. II. Life history of the red tree mouse *Phenacomys longicaudw*. North American Fauna. 48:39-64.
- Hueck, H.J. 1953.** Myco-sociological methods of investigation. Vegetatio. 15:84-101.
- Huff, M.H. 1984.** Post-fire succession in the Olympic Mountains, Washington: forest vegetation, fuels, and avifauna. Seattle: University of Washington. 240 p. Ph.D. dissertation.
- Huff, M.H.; Agee, J.K.; Manuwal, D.A. 1985.** Postfire succession of avifauna in the Olympia Mountains, Washington. In: Lotan, J.E.; Brown, J.K., camps. Fire's effect on wildlife habitat. Proceedings of a symposium; Missoula, MT. Gen. Tech. Rep. INT-186. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station: 8-15.
- Huff, M.H.; Manuwal, D.A.; Putera, J.A. This volume.** Winter bird communities in the Southern Washington Cascade Range.
- Huff, M.H.; Raley, C.M. This volume.** Regional patterns of diurnal breeding bird communities in Oregon and Washington.

- Huhta, V. 1979.** Evaluation of different similarity indices as measures of succession in arthropod communities of the forest floor after clear-cutting. *Oecologia*. 41:11-23.
- Hull, C.H.; Nie, N.H. 1981.** SPSS update 7-9: new procedures and facilities for releases 7-9. New York: McGraw-Hill. 402 p.
- Humphrey, S.R.; Cope, J.B. 1976.** Population ecology of the little brown bat, *Myotis lucifugus*, in Indiana and north-central Kentucky. Special Publication of the American Society of Mammalogists. 4:1-79.
- Hunt, G.A. Unpublished data.** On file at: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR 97331.
- Hunt, G.A.; Trappe, J.M. 1987.** Seasonal hypogeous sporocarp production in a western Oregon Douglas-fir stand. *Canadian Journal of Botany*. 65:438-445.
- Huntley, B.; Webb, T. III. 1989.** Migration: species' response to climatic variations caused by changes in the Earth's orbit. *Journal of Biogeography*. 16:5-19.
- Hutto, R.L. 1989.** The effect of habitat alteration on migratory land birds in a west Mexican tropical deciduous forest: a conservation perspective, *Conservation Biology*. 3(2):138-148.
- Hutto, R.L.; Pletschet, S.M.; Hendricks, P. 1986.** A fixed-radius point count method for nonbreeding and breeding season use. *Auk*. 103:593-602.
- Ingles, L.G. 1965.** Mammals of the Pacific States. Palo Alto, CA: Stanford University Press. 506 p.
- Irwin, W.P. 1960.** Geologic reconnaissance of the northern Coast Ranges and Klamath Mountains, California. California Division of Mines Bulletin 179. 80 p.
- Isaac, L.A. 1940.** Vegetation succession following logging in the Douglas-fir region with special reference to fire. *Journal of Forestry*. 38:716-721.
- Isaac, L.A. 1943.** Reproductive habits of Douglas-fir. Washington, DC: Charles Lathrop Pack Forestry Foundation. 107 p.
- Jaccard, P. 1912.** The distribution of the flora in the alpine zone. *New Phytology*. 11:37-50.
- Jackson, J.A. 1977.** Red-cockaded woodpeckers and pine red-heart disease. *Auk*. 94:160-163.
- James, F.C. 1971.** Ordinations of habitat relationships among breeding birds. *Wilson Bulletin*. 83(3):215-236.
- Janzen, D.H. 1986.** The eternal external threat. In: Soule M.E. Conservation biology: the science of scarcity and diversity. Sunderland, MS: Sinauer Associates: 286-303.
- Jarvinen, O.; Vaisanen, R.A. 1978.** Recent changes in forest bird populations in northern Finland. *Annales Zoologici Fennica*. 15:279-289.
- Jewett, S.G.; Taylor, W.P.; Shaw, W.T.; Aldrich, J.W. 1953.** Birds of Washington State. Seattle: University of Washington Press. 767 p.
- Johnson, A.S.; Landers, J.L. 1982.** Habitat relationships of summer resident birds on slash pine flatwoods. *Journal of Wildlife Management*. 46:416-428.
- Johnson, D.H. 1981.** How to measure habitat-a statistical perspective. In: Capen, D.E., ed. Use of multivariate statistics in studies of wildlife habitat. Gen. Tech. Rep. RM-87. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 53-57.
- Johnson, S.G. 1979.** The land-use history of the Coast Range Preserve, Mendocino County, California. San Francisco: San Francisco State University. 258 p. M.S. thesis.
- Jones, J.K., Jr.; Carter, D.C.; Genoways, H.H. [and others]. 1986.** Revised checklist of North American mammals north of Mexico, 1986. Lubbock, TX: Texas Tech University Press. 22 p.
- Jones, K.B. 1986.** Amphibians and reptiles. In: Cooperrider, A.Y.; Boyd, R.J.; Stuart, H.R., eds. Inventory and monitoring wildlife habitat. Denver, CO: U.S. Department of the Interior, Bureau of Land Management, Service Center: 267-290.
- Jones, L.L.C.; Aubry, K.B. 1984.** *Dicamptodon copei* (Cope's giant salamander). Geographic distribution. *Herpetological Review*. 15(4):114.
- Jones, L.L.C.; Raphael, M.G. 1989.** *Aneides ferreus* (clouded salamander). Geographic distribution. *Herpetological Review*. 20(1): 11.
- Jones, L.L.C.; Ruggiero, L.F.; Swingie, J.K. This volume.** Ecology of marten in the Pacific Northwest: technique evaluation (abstract). Appendix B.

- Juday, G.P. 1976.** The location, composition, and structure of old-growth forests of the Oregon Coast Range. Corvallis: Oregon State University. 206 p. Ph.D. dissertation.
- Kahrl, W.L., ed. 1979.** The California water atlas. Los Altos, CA: William Kaufmann, Inc. 118 p.
- Kantrud, H.A.; Kologiski. 1982.** Ordination and classification of North Dakota grasslands. North Dakota Academy of Sciences Proceedings. 36:35.
- Karlsson, J.; Nilsson, S.G. 1977.** The influence of nest-box area on clutch size in some hole-nesting passerines. *Ibis*. 119:207-211.
- Karr, J.R.; Roth, R.R. 1971.** Vegetation structure and avian diversity in several New World areas. *American Naturalist*. 105:423-435.
- Karr, J.R. 1982a.** Avian extinction on Barro Colorado Island, Panama: a reassessment. *American Naturalist*. 119:220-239.
- Karr, J.R. 1982b.** Population variability and extinctions in the avifauna of a tropical land-bridge island. *Ecology*. 63:1975-1978.
- Kendeigh, S.C. 1944.** Measurement of bird populations. *Ecological Monographs*. 14:67-106.
- Kennedy, J.J. 1983.** Analyzing qualitative data. New York: Praeger Publishers. 262 p.
- Kepler, C.B.; Scott, J.M. 1981.** Reducing bird count variability by training. In: Ralph, C.J.; Scott, J.M., eds. Estimating numbers of terrestrial birds. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:366-374.
- Kerrick, M.A.; Johnson, K.; Pedersen, R.J. 1984.** What information is necessary for planning the management of old-growth forest for wildlife? In: Proceedings of the 1983 national convention; 1983 October 16-20; Portland, OR. Washington, DC: Society of American Foresters: 383-386.
- Kertis, J. 1986.** Vegetation dynamics and disturbance history of Oak Patch Natural Area Preserve, Mason County, Washington. Seattle: University of Washington. 95 p. M.S. thesis.
- Kessler, W.G.; Kogut, T.E. 1985.** Habitat orientations of forest birds in southeastern Alaska. *Northwest Science*. 59:58-65.
- Kilgore, B.M. 1971.** The role of fire in managing red fir forests. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 36:405-416.
- Kilham, L. 1971.** Reproductive behavior of yellow-bellied sapsuckers I. Preference for nesting in *Fomes* infected aspens and hole interactions with flying squirrels, raccoons, and other animals. *Wilson Bulletin*. 83:310-321.
- Kim, J.; Kohout, F.J. 1975.** Multiple regression analysis: subprogram REGRESSION. In: Nie, N.H.; Hull, C.H.; Jenkins, J.G. [and others], eds. SPSS: statistical package for the social sciences. 2d ed. San Francisco: McGraw-Hill: 320-367.
- Kimney, J.W.; Furniss, R.L. 1943.** Deterioration of fire-killed Douglas-fir. *Tech. Bull.* 851. Washington, DC: U.S. Department of Agriculture, Forest Service. 61 p.
- Kleinbaum, D.G.; Kupper, L.L. 1978.** Applied regression analysis and other multivariate methods. Boston: Duxbury Press. 556 p.
- Klockars, A.J.; Sax, G. 1986.** Multiple comparisons. In: Sullivan, J.L.; Niemi, R.G., eds. Series: Quantitative applications in the social sciences. Beverly Hills, CA: Sage Publications, Inc. 87 p.
- Krebs, C.J. 1985.** Ecology: the experimental analysis of distribution and abundance. 3d ed. New York: Harper and Row. 800 p.
- Krebs, J.R. 1971.** Territory and breeding density in the great tit, *Parus major* L. *Ecology*. 52:1-22.
- Kunz, T.H. 1973.** Resource utilization: temporal and spatial components of bat activity in central Iowa. *Journal of Mammalogy*. 54: 14-32.
- Kurta, A.; Kunz, T.H. 1988.** Roosting metabolic rate and body temperature of male little brown bats (*Myotis lucifugus*) in summer. *Journal of Mammalogy*. 69:645-651.
- Kutzbach, J.T.; Guetter, T.J. 1986.** The influence of changing orbital parameters and surface boundary conditions on climatic simulations for the past 18,000 years. *Journal of Atmospheric Sciences*. 43:1726-1759.
- Lachenbruch, P.A. 1975.** Discriminant analysis. New York: Hafner Press. 128 p.
- Lachenbruch, P.A.; Mickey, M.R. 1968.** Estimation of error rates in discriminant analysis. *Technometrics*. 10:1-11.

- Lande, R. 1988.** Genetics and demography in biological conservation. *Science*. 241:16-241.
- Lande, R.; Barrowclough, G.F. 1987.** Effective population size, genetic variation, and their use in population management. In: Soule M.E., ed. *Viable populations for conservation*. New York: Cambridge University Press: 87-124.
- Lang, F.J. 1980.** Old-growth forests of the Douglas-fir region of western Oregon and western Washington: characteristics and management. Sacramento, CA: Jones and Stokes Associates, Inc. 62 p.
- Laudenslayer, W.F., Jr. 1985.** Candidate old growth on National Forest System administered lands in California. San Francisco, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Region.
- Laudenslayer, W.F., Jr. 1986.** Summary: predicting effects of habitat patchiness and fragmentation-the manager's viewpoint. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 331-333.
- Legendre, L.; Legendre, P. 1983.** Numerical ecology. New York: Elsevier Scientific Publishing Co. 419 p.
- Lehmkuhi, J.F. Personal communication.** U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Olympia, WA 98502.
- Lehmkuhl, J.F. 1984.** Determining the size and dispersion of minimum viable populations for land management planning and species conservation. *Environmental Management*. 8:167-175.
- Lehmkuhl, J.F.; Ruggiero, L.F. This volume.** Forest fragmentation in the Pacific Northwest and its potential effects on wildlife.
- Lehmkuhl, J.F.; Ruggiero, L.F.; Hail, P.A. This volume.** Landscape-scale patterns of forest fragmentation and wildlife richness and abundance in the Southern Washington Cascade Range.
- Leopold, A. 1933.** Game management. New York Charles Scribners. 481 p.
- Leopold, E.B.; Nickman, J.I.; Hedges, J.I.; Ertel, J.R. 1982.** Pollen and lignin records of Late-Quaternary vegetation, Lake Washington. *Science*. 218:1305-1307.
- Levins, R. 1970.** Extinction. In: Gerstenhaber, M. Some mathematical questions in biology. Providence, RI: American Mathematical Society. 277-107.
- Lidicker, W.Z. 1975.** The role of dispersal in the demography of small mammals. In: Gohey, F.B.; Petruszewicz, K.; Ryszkowski, L., eds. *Small mammals: their productivity and population dynamics*. New York: Cambridge University Press: 103-128.
- Liu, T.T. 1954.** Hybridization between *Peromyscus maniculatus oreas* and *P. m. gracilis*. *Journal of Mammalogy*. 35:448-449.
- Long, J.N. 1977.** Trends in plant species diversity associated with development *in* a series of *Pseudotsuga menziesii/Gaultheria shallon* stands. *Northwest Science*. 51(2):119-130.
- Long, J.N.; Turner, J. 1974.** Aboveground biomass of understory and overstory in an age sequence of four Douglas-fir stands. *Journal of Applied Ecology*. 12:179-188.
- Lovejoy, S. 1982.** Area-perimeter relation for rain and cloud areas. *Science*. 216:185-187.
- Lowery, D.P.; Hillstrom, W.A.; Eiert, E.E. 1977.** Chipping and pulping dead trees of four Rocky Mountain timber species. Res. Paper INT-193. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 11 p.
- Lumen, I.D.; Nietro, W.A. 1980.** Preservation of mature forest seral stages to provide wildlife habitat diversity. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 45:271-277.
- Lundquist, R.W. 1988.** Habitat use by cavity-nesting birds in the southern Washington Cascades. Seattle: University of Washington. 168 p. M.S. thesis.
- Lundquist, R.W.; Manuwal, D.A. 1990.** Seasonal differences in foraging habitat of cavity-nesting birds in the southern Washington Cascades. In: Morrison, M.L.; Ralph, C.J.; Verner, J.; Jehl, J.R., Jr., eds. *Avian foraging: theory, methodology, and applications*. Proceedings of an international symposium; 1988 March 18-19; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 13:218-225.
- Lundquist, R.W.; Mariani, J.M. This volume.** Nesting habitat and abundance of snag-dependent birds in the Southern Washington Cascade Range.

- Luoma, D.L.** 1988. Biomass and community structure of sporocarps formed by hypogeous ectomycorrhizal fungi within selected forest habitats of the H.J. Andrews Experimental Forest, Oregon. Corvallis: Oregon State University. 173 p. Ph.D. dissertation.
- Luoma, D.L.; Frenkel, R.E.; Trappe, J.M.** In press. Fruiting of hypogeous fungi in Oregon Douglas-fir forests: seasonal and habitat variation. *Mycologia*.
- Lynch, J.F.** 1981. Patterns of ontogenetic and geographic variation in the black salamander *Aneides flavipunctatus* (Caudata: Plethodontidae). *Smithsonian Contributions to Zoology*. 324:1-53.
- Lynch, J.F.** 1985. *The* feeding ecology of *Aneides flavipunctatus* and sympatric plethodontid salamanders in northwestern California. *Journal of Herpetology*. 19:328-352.
- MacArthur, R.H.; MacArthur, J.W.; Preer, J.** 1962. On bird species diversity. II: Prediction of bird census from habitat measurements. *American Naturalist*. 100:319-332.
- MacArthur, R.H.; Recher, H.; Cody, M.** 1966. On the relation between habitat selection and species diversity. *American Naturalist*. 100:310-332.
- MacArthur, R.H.; Wilson, E.O.** 1967. The theory of island biogeography. Princeton, NJ: Princeton University Press. 203 p.
- Madsen, S.J.** 1985. Habitat use by cavity-nesting birds in the Okanogan National Forest, Washington. Seattle: University of Washington. 113 p. M.S. thesis.
- Magurran, A.E.** 1988. Ecological diversity and its measurement. Princeton, NJ: Princeton University Press. 179 p.
- Mannan, R.W.** 1984a. Habitat use by Hammond's flycatchers in old-growth forests, northeastern Oregon. *Mm-relet*. 65:84-86.
- Mannan, R.W.** 1984b. Summer area requirements of pileated woodpeckers in western Oregon. *Wildlife Society Bulletin*. 12:265-268.
- Mannan, R.W.; Meslow, E.C.** 1984. Bird populations and vegetation characteristics in managed and old-growth forests, northeastern Oregon. *Journal of Wildlife Management*. 48(4):1219-1238.
- Mannan, R.W.; Meslow, E.C.; Wight, H.M.** 1980. Use of snags by birds in Douglas-fir forests, western Oregon. *Journal of Wildlife Management*. 44:787-797.
- Mannan, R.W.; Morrison, M.L.; Meslow, E.C.** 1984. Comment: the use of guilds in forest bird management. *Wildlife Society Bulletin*. 12:426-430.
- Manuwal, D.A.** Personal communication. College of Forest Resources AR-10, University of Washington, Seattle, WA 98195.
- Manuwal, D.A.** This volume. Spring bird communities in the Southern Washington Cascade Range.
- Manuwal, D.A.; Carey, A.B.** In press. Methods for measuring populations of small, diurnal forest birds. Gen. Tech. Rep. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.
- Manuwal, D.A.; Huff, M.** 1987. Spring and winter bird populations in a Douglas-fir forest sere. *Journal of Wildlife Management*. 51(3):586-595.
- Manuwal, D.A.; Huff, M.; Bauer, M. [and others].** 1987. Summer birds of the upper subalpine zone of Mount Adams, Mount Rainier, and Mount St. Helens, Washington. *Northwest Science*. 61(2):82-92.
- Manuwal, D.A.; Lundquist, R.; Mariani, J.** 1986. Distribution and abundance of bird populations of different-aged Douglas-fir forests in the southern Washington Cascades. Unpublished Final Report. On file at U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Olympia, WA 98502. 96 p.
- Marcot, B.C.** 1983. Snag use by birds in Douglas-fir clearcuts. In: Davis, J.W.; Goodwin, G.A.; Ockenfels, R.A., tech. coords. Snag habitat management. Proceedings of a symposium; 1983 June 7-9; Flagstaff, AZ. Gen. Tech. Rep. RM-99. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 134-139.
- Marcot, B.G.** 1984. Habitat relationships of birds in young-growth Douglas-fir in northwestern California. Corvallis: Oregon State University. 282 p. Ph.D. dissertation.
- Marcot, B.G.** 1986. Use of expert systems in wildlife-habitat modeling. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Madison, WI: University of Wisconsin Press: 145-150.
- Marcot, B.G.** 1987. Testing your knowledge base. *AI Expert*. 2:42-47.

- Marcot, B.G.; Holthausen, R.S.; Teply, J.; Carrier, W.D.** This volume. Old-growth inventories: status, definitions, and visions for the future.
- Marcot, B.G.; McNay, R.S.; Page, R.E. 1988.** Use of micro-computers for planning and managing silviculture-habitat relationships. Gen. Tech. Rep. PNW-228. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 19 p.
- Margules, C.; Higgs, A.J.; Rafe, R.W. 1982.** Modern biogeographic theory: are there any lessons for nature reserve design? *Biological Conservation*. 24: 115-128.
- Mariani, J.M. 1987.** Brown creeper (*Certhia americana*) abundance patterns and habitat use in the southern Washington Cascades. Seattle: University of Washington. 72 p. M.S. thesis.
- Mariani, J.M.; Manuwal, D.A. 1990.** Factors influencing brown creeper (*Certhia americana*) abundance patterns in the southern Washington Cascade Range. In: Morrison, M.L.; Ralph, C.J.; Verner, J.; Jehl, J.R., eds. Avian foraging: theory, methodology, and applications. Proceedings of an international symposium; 1988 March 18-19; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 13:53-57.
- Martell, A.M.; Radvanyi, A. 1977.** Changes in small mammal populations after clear-cutting of northern Ontario black spruce forest. *Canadian Field-Naturalist*. 91:41-46.
- Martin, T.E. 1981.** Limitation in small habitat islands: chance or competition? *Auk*. 98(4):715-734.
- Martin, T.E.; Karr, J.R. 1986.** Patch utilization by migrating birds: resource oriented? *Ornis Scandinavica*. 17(1):165-174.
- Maser, C. 1966.** Life histories and ecology of *Phenacomys albipes*, *Phenacomys longicaudus*, *Phenacomys silvicola*. Corvallis: Oregon State University. 221 p. M.S. thesis.
- Maser, C.; Anderson, R.G.; Cromack, K., Jr. [and others]. 1979.** Dead and down woody material. In: Thomas, J.W., tech. ed. Wildlife habitats in managed forests: the Blue Mountains of Oregon and Washington. *Agricultural Handbook* 553. Washington, DC: U.S. Department of Agriculture, Forest Service: 78-95.
- Maser, C.; Maser, Z. 1988.** Interactions among squirrels, mycorrhizal fungi, and coniferous forests in Oregon. *Great Basin Naturalist*. 48:358-368.
- Maser, C.; Mate, B.R.; Franklin, J.F.; Dyrness C.T. 1981.** Natural history of Oregon coast mammals. Gen. Tech. Rep. PNW-133. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 496 p.
- Maser, C.; Tarrant, R.F.; Trappe, J.M.; Franklin, J.F., tech. eds. 1988.** From the forest to the sea: a story of fallen trees. Gen. Tech. Rep. PNW-229. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 153 p.
- Maser, C.; Trappe, J.M.; Nussbaum, R.A. 1978.** Fungal-small mammal inter-relationships with emphasis on Oregon coniferous forests. *Ecology*. 59:799-809.
- Mathewes, R.W.; Rouse, G.E. 1975.** Palynology and paleoecology of postglacial sediments from the lower Fraser River Canyon of British Columbia. *Canadian Journal of Earth Sciences*. 12:745-756.
- Maurer, B.A.; McArthur, L.B.; Whitmore, R.C. 1981.** Effects of logging on guild structure of a forest bird community in West Virginia. *American Birds*. 35(1):11-13.
- Mayer, K. Personal communication.** California Department of Fish and Game, 1416 9th St., Sacramento, CA 95814.
- Mayo, J. Personal communication.** U.S. Department of Agriculture, Forest Service, Willamette National Forest Supervisor's Office, P.O. Box 10607, Eugene, OR 97440.
- McClelland, B.R. 1977.** Relationships between hole-nesting birds, forest snags, and decay in western larch-Douglas-fir forests of the northern Rocky Mountains. Missoula, MT: University of Montana. 438 p. Ph.D. dissertation.
- McCloskey, R.T. 1975.** Habitat succession and rodent distribution. *Journal of Mammalogy*. 56:950-955.
- McCoy, E.D. 1982.** The application of island-biogeographic theory to forest tracts: problems in the determination of turnover rates. *Biological Conservation*. 22:217-227.
- McCune, B.; Allen, T.F.H. 1985.** Forest dynamics in the Bitterroot Canyons, Montana. *Canadian Journal of Botany*. 63:377-383.
- McIntire, C.D. 1978.** The distribution of estuarine diatoms along environmental gradients: a canonical correlation. *Estuarine and Coastal Marine Science*. 6:447-457.

- McKee, A.; Stonedahl, G.M.; Franklin, J.F.; Swanson, F.J., comps. 1987.** Research publications of the H.J. Andrews Experimental Forest, Cascade Range, Oregon, 1948 to 1986. Gen. Tech. Rep. PNW-201. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 74 p.
- McLellan, C.H.; Dobson, A.P.; Wilcove, D.S.; Lynch, J.F. 1986.** Effects of forest fragmentation on new- and old-world bird communities: empirical observations and theoretical implications. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Madison: University of Wisconsin Press: 305314.
- McNay, R.S.; Page, R.E.; Campbell, A. 1987.** Application of expert-based decision models to promote integrated management of forests. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 52:82-91.
- McNeil, R.C.; Zobel, D.B. 1980.** Vegetation and fire history of a ponderosa pine-white fir forest in Crater Lake National Park. *Northwest Science*. 54:30-46.
- Means, J.E. 1982.** Developmental history of dry coniferous forests in the western Oregon Cascades. In: Means, J.E., ed. *Forest succession and stand development research in the Northwest*. Corvallis, OR: Forest Research Laboratory, Oregon State University: 142-158.
- Means, J.E. Unpublished data.** On file at: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR 97331.
- Meehan, W.R.; Merrell, T.R., Jr.; Hanley, T.A., eds. 1984.** Fish and wildlife relationships in old-growth forests. Proceedings of a symposium; 1982 April 12-15; Juneau, AK. Morehead City, NC: American Institute of Fishery Research Biologists. 425 p.
- Meehan, W.R.; Swanson, F.J.; Sedell, J.R. 1977.** Influences of riparian vegetation on aquatic ecosystems with particular references to salmonid fishes and their food supply. In: Johnson, R.R.; Jones, D.A., eds. *Importance, preservation and management of riparian habitat*. Proceedings of a symposium; 1977 July 9; Tucson, AZ. Gen. Tech. Rep. RM-43. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 137-145.
- Meents, J.K.; Rice, J.; Anderson, B.W.; Ohmart, R.D. 1983.** Nonlinear relationships between birds and vegetation. *Ecology*. 64(4):1022-1027.
- Meiselman, N.; Doyle, A.T. In press.** Habitat and micro-habitat selection by the red tree vole (*Arborimus longicaudus*). *American Midland Naturalist*.
- Mellen, T.K. 1987.** Home range and habitat use by pileated woodpeckers. Corvallis: Oregon State University. 96 p. M.S. thesis.
- Meslow, E.C.; Keith, L.B. 1971.** A correlational analysis of weather versus snowshoe hare population parameters. *Journal of Wildlife Management*. 35(1):1-15.
- Meslow, E.C.; Maser, C.; Verner, J. 1981.** Old-growth forests as wildlife habitat. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. **46:329-335.**
- Meslow, E.C.; Wight, H.M. 1975.** Avifauna and succession in Douglas-fir forests of the Pacific Northwest. In: Smith, D.R., tech. coord. *Management of forest and range habitats for nongame birds*. Proceedings of a symposium; 1975 May 6-9; Tucson, AZ. Gen. Tech. Rep. WO-1. Washington, DC: U.S. Department of Agriculture, Forest Service: 266-271.
- Metter, D.E. 1964.** A morphological and ecological comparison of two populations of the tailed frog, *Ascaphus truei* Stejneger. *Copeia*. 1964:181-195.
- Metter, D.E. 1967.** Variation in the ribbed frog, *Ascaphus truei*. *Copeia*. 1967:634-649.
- Meyer, J.S.; Ingersoll, C.G.; McDonald, L.L.; Boyce, M.S. 1986.** Estimating uncertainty in population growth rates: jackknife vs. bootstrap techniques. *Ecology*. 67: 1156-1166.
- Miller, L.A.; Andersen, B.B. 1984.** Studying bat echolocation signals using ultrasonic detectors. *Zeitschrift für Säugetierkunde*. 49:6-13.
- Miller, R.S. 1967.** Pattern and process in competition. *Advances in Ecological Research*. 4:1-74.
- Milne, K.; Hejl, S. 1989.** Nest-site characteristics of white-headed woodpeckers. *Journal of Wildlife Management*. 53(1):50-55.
- Mohler, C.L. 1987.** COMPOSE: a program for formatting and editing data matrices. Ithaca, NY: Microcomputer Power. 58 p.

- Moir, W.H.; Hobson, F.D.; Hemstrom, M.; Franklin, J.F. 1979.** Forest ecosystems of Mount Rainier National Park. In: Linn, R.M., ed. Proceedings of the first conference on scientific research in the National Parks; New Orleans, LA. Washington, DC: U.S. Department of the Interior, National Park Service, Transactions and Proceedings Series. 1(5):201-208.
- Moldenke, A.R.; Lattin, J.D. This volume.** Arthropods in old growth: sensitive environmental indicators (abstract). Appendix B.
- Monthey, R.W. 1984.** Wildlife considerations in the management of fragmented older forests: the Coast Ranges of northwest Oregon. In: Meehan, W.R.; Merrell, T.R., Jr.; Hanley, T.A., eds. Fish and wildlife relationships in old-growth forests. Proceedings of a symposium; 1982 April 12-15; Juneau, AK. Morehead City, NC: American Institute of Fishery Research Biologists: 367-371.
- Monthey, R.W.; Soutiere, E.C. 1985.** Responses of small mammals to forest harvesting in northern Maine. Canadian Field-Naturalist. 99: 13-18.
- Morris, D.W. 1984.** Microhabitat separation and coexistence of two temperate-zone rodents. Canadian Field-Naturalist. 98:215-218.
- Morris, W.G. 1932.** A preliminary report, giving some of the results obtained in a study of lightning storm occurrence and behavior on the National Forests of Oregon and Washington. Forest Research Note 10. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 11 p.
- Morris, W.G. 1934.** Forest fires in Oregon and Washington. Oregon Historical Quarterly. 35:313-339.
- Morrison, M.L.; Dedon, M.F.; Raphael, M.G.; Yoder-Williams, M.P. 1986.** Snag requirements of cavity-nesting birds: are U.S. Department of Agriculture Forest Service guidelines being met? Western Journal of Applied Forestry. 1:38-40.
- Morrison, M.L.; Timossi, I.C.; With, K.A. 1987.** Development and testing of linear regression models predicting bird-habitat relationships. Journal of Wildlife Management. 51:247-253.
- Morrison, M.L.; Timossi, I.C.; With, K.A.; Manley, P.N. 1985.** Use of tree species by forest birds during winter and summer. Journal of Wildlife Management. 49:1098-1102.
- Morrison, P.M. 1988.** Old growth in the Pacific Northwest: a status report. Washington, DC: The Wilderness Society. 46 p.
- Morrison, P.H.; Swanson, F. 1990.** Fire history and pattern in a Cascade Range landscape. Gen. Tech. Rep. PNW-254. Portland, Oregon: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 77 p.
- Mueller-Dombois, D.; Ellenberg, H. 1974.** Aims and methods of vegetation ecology. New York: John Wiley and Sons. 547 p.
- Munger, T.T. 1925.** Rainfall probability during the fire season in western Washington and Oregon. Monthly Weather Review. 53:394-397.
- Murphy, D.D. 1989.** Conservation and confusion: wrong species, wrong scale, wrong conclusions. Conservation Biology. 3:82-84.
- Murphy, M.L.; Hall, J.D. 1981.** Varied effects of clear-cut logging on predators and their habitat in small streams of the Cascade Mountains, Oregon. Canadian Journal of Fisheries and Aquatic Sciences. 38: 137-145.
- Murphy, M.L.; Hawkins, C.P.; Anderson, N.H. 1981.** Effects of canopy modification and accumulated sediment on stream communities. Transactions of the American Fisheries Society. 110:469-478.
- National Atmospheric and Oceanographic Administration. 1960-1985.** Monthly climatological summaries for Washington.
- National Geographic Society. 1987.** Field guide to the birds of North America. Washington, DC. 464 p.
- Neitro, W.A.; Mannan, R.W.; Taylor, D. [and others]. 1985.** Snags. In: Brown, E.R., tech. ed. Management of wildlife and fish habitats in forests of western Oregon and Washington. Part I-Chapter Narratives. R6-F&WL-192-1985. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region: 129-169.
- Nel, J.A.J. 1978.** Habitat heterogeneity and changes in small mammal community structure and resource utilization in the southern Kalahari. Bulletin of the Carnegie Museum of Natural History. 6:118-131.
- Nelson, R.D.; Black, H.; Radtke, R.E.; Mumma, J. 1983.** Wildlife and fish management in the Forest Service: a goal oriented approach. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 48:87-95.

- Nelson, R.D.; Salwasser, H.** 1982. The Forest Service wildlife and fish habitat relationship program. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 47:174-183.
- Nelson, S.K.** 1989. Habitat use and densities of cavity-nesting birds in the Oregon Coast Ranges. Corvallis: Oregon State University. 157 p. M.S. thesis.
- Nelson, S.K. This volume.** The marbled murrelet in western Oregon: a summary of current knowledge (abstract). Appendix B.
- Nelson, S.K.; McAllister, M.L.C.; Stern, M.A. [and others].** In press. Status of marbled murrelets in Oregon. Western Foundation for Vertebrate Zoology.
- Neter, J.; Wasserman, W.; Kutner, M.H.** 1989. Applied linear regression models. Homewood, IL: Richard D. Irwin, Inc. 665 p.
- Newbold, J.D.; Erman, D.C.; Roby, K.B.** 1980. Effects of logging on macroinvertebrates in streams with and without buffer strips. Canadian Journal of Fisheries and Aquatic Sciences. 37: 1076-1085.
- Newmark, W.D.** 1987. A land-bridge island perspective on mammalian extinctions in western North American parks. Nature. 325:430-432.
- Nicolai, V.** 1986. The bark of trees: thermal properties, microclimate and fauna. Oecologia. 69: 148-160.
- Noon, B.R. Personal communication.** U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station, Arcata, CA 95521.
- Noon, B.R.; Dawson, D.K.; Inkley, D.B. [and others].** 1980. Consistency in habitat preference of forest bird species. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 45:226-244.
- Norse, E.A.** 1990. Ancient forests of the Pacific Northwest. Washington, DC: Island Press. 327 p.
- Norse, E.A.; Rosenbaum, K.L.; Wilcove, D.S. [and others].** 1986. Conserving biological diversity in our *National* Forests. Washington, DC: The Wilderness Society. 166 p.
- Norton, H.H.** 1979. The association between anthropogenic prairies and important food plants in western Washington. Northwest Anthropological Research Notes. 13(2): 175-200.
- Norusis, M.J.** 1988a. SPSS/PC+. Statistical package for the social sciences. Chicago, IL: SPSS Inc.
- Norusis, M.J.** 1988b. SPSS/PC+ V3.0 update manual. Chicago, IL: SPSS Inc.
- Ness, R.F.** 1983. A regional landscape approach to maintain diversity. BioScience. 33:700-706.
- Noss, R.F.** 1987. Corridors in real landscapes: a reply to Simberloff and Cox. Conservation Biology. 1:159-164.
- Ness, R.F.; Harris, L.D.** 1986. Nodes, networks, and MUMS: preserving diversity at all scales. Environmental Management. 10:299-309.
- Noy-Meir, I.** 1973. Divisive polythetic classification of vegetation data by optimized division on ordination components. Journal of Ecology. 61:753-760.
- Nussbaum, R.A.** 1970. *Dicamptodon copei*, n. sp., from the Pacific Northwest, U.S.A. (Amphibia: Caudata: Ambystomatidae). Copeia. 1970:506-514.
- Nussbaum, R.A.; Brodie, E.D., Jr.; Storm, R.M.** 1983. Amphibians and reptiles of the Pacific Northwest. Moscow: University Press of Idaho. 332 p.
- Nussbaum, R.A.; Tait, C.K.** 1977. Aspects of the life history and ecology of the Olympic salamander, *Rhyacotriton olympicus* (Gauge). American Midland Naturalist. 98: 176-199.
- Nyberg, J.B.; Bunnell, L.; Harestad, A.S.** 1987. Old-growth by design: managing young forest for old-growth wildlife. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 52:70-81.
- O'Connor, R.J.** 1981. Habitat correlates of bird distribution in British census plots. In: Ralph, C.J.; Scott, J.M., eds. Estimating numbers of terrestrial birds. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. Studies in Avian Biology. 6:533-537.
- O'Connor, R.J.** 1986. Dynamical aspects of avian habitat use. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. Wildlife 2000: modeling habitat relationships of terrestrial vertebrates. Proceedings of an international symposium; 1984 October 7- 11; Fallen Leaf Lake, California. Madison: University of Wisconsin Press: 235-240.

- O'Farrell, M J.; Bradley, W.G. 1970.** Activity patterns of bats over a desert spring. *Journal of Mammalogy*. 51:18-26.
- O'Halloran, K.A.; Gunderson, A.G.; Holthausen, R.S. This volume.** Spotted owl monitoring in Washington and Oregon (abstract). Appendix B.
- O'Neil, J.L.; Carey, A.B. 1986.** Introduction: when habitats fail as predictors. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 207-208.
- O'Neill, R.V.; Krummel, J.R.; Gardner, R.H. [and others]. 1988.** Indices of landscape pattern. *Landscape Ecology*. 1:153-166.
- Odum, E.P. 1969.** The strategy of ecosystem development. *Science*. 164:262-270.
- Odum, E.P. 1971.** *Fundamentals of ecology*. 3d ed. Philadelphia: W.B. Saunders Company. 574 p.
- Ohmann, J.L.; Carleson, D.; Lee, P.L.; Oakley, A.L. 1988.** Status of forest-related wildlife and fish resources in Oregon. In: Lettman, G.J., ed. *Assessment of Oregon's forests*. Portland, OR: Oregon State Department of Forestry: 17-32.
- Old-Growth Definition Task Group. 1986.** Interim definitions for old-growth Douglas-fir and mixed-conifer forests in the Pacific Northwest and California. Res. Note PNW-447. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 7 p.
- Oliver, C.D. 1982.** Stand development-its uses and methods of study. In: Means, J.E., ed. *Forest succession and stand development research in the Northwest*. Corvallis: Oregon State University, Forestry Research Laboratory: 100-112.
- Orians, G.H.; Willson, M.F. 1964.** Interspecific territories of birds. *Ecology*. 45:736-745.
- Osgood, W.H., 1909.** Revision of the mice of the American genus *Peromyscus*. U.S. Department of Agriculture, Biological Survey of North American Fauna 28. 285 p.
- Ovaska, K.; Gregory, P.T. 1989.** Population structure, growth, and reproduction in a Vancouver Island population of the salamander *Plethodon vehiculum*. *Herpetologica*. 45:133-143.
- Paine, R.T. 1969.** A note on trophic complexity and community stability. *American Naturalist*. 103:91-93.
- Paton, P.W.C.; Ralph, C J. This volume.** Geographic distribution of the marbled murrelet in California at inland sites (abstract). Appendix B.
- Pattie, D.L. 1973.** *Sorex bendirii*. *Mammalian Species*. 27: 1-2.
- Patton, D.R. 1975.** A diversity index for quantifying habitat "edge." *Wildlife Society Bulletin*. 3:171-173.
- Patton, D.R. 1978.** Run wild-a storage and retrieval system for wildlife habitat information. Gen. Tech. Rep. RM-51. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 8 p.
- Perkins, J.M. 1983.** Bat survey of western Coos, Lane, Douglas Counties in relation to habitat type and age class. Contract #83-0-08. Unpublished report on file at Oregon Department of Fish and Wildlife, P.O. Box 59, Portland, OR 97207. 73 p.
- Perry, D.A.; Thomas, B.; Meurisse, R. [and others]. 1988.** Maintaining the long-term productivity of Pacific Northwest forest ecosystems. Proceedings of a symposium; 1987 March 31 to April 2; Corvallis, OR. Portland, OR: Timber Press.
- Pickett, S.T.A.; White, P.S. 1985.** *The ecology of natural disturbance and patch dynamics*. New York: Academic Press. 472 p.
- Pickford, S.P.; Fahnestock, G.R.; Ottmar, R. 1980.** Weather, fuel, and lightning fires in Olympic National Park. *Northwest Science*. 54(2):92-105.
- Pielou, E.C. 1966.** Species diversity and pattern diversity in the study of ecological succession. *Journal of Theoretical Biology*. 10:370-383.
- Pielou, E.C. 1977.** *Mathematical ecology*. New York: John Wiley and Sons. 385 p.
- Pielou, E.C. 1984.** *The interpretation of ecological data: a primer on classification and ordination*. New York: John Wiley and Sons. 263 p.
- Pike, L.H.; Denison, W.C.; Tracy, D.M. [and others]. 1975.** Floristic survey of epiphytic lichens and bryophytes growing on old-growth conifers in western Oregon. *The Bryologist*. 78:389-402.

- Pike, L.H.; Rydell, R.A.; Denison, W.C. 1977.** A 400-year-old Douglas-fir tree and its epiphytes: biomass, surface area, and their distributions. *Canadian Journal of Forest Research*. 7(4):680-699.
- Pimental, R.A. 1979.** Morphometrics: the multivariate analysis of biological data. Dubuque, IA: Kendall/Hunt Pub. Co. 276 p.
- Pimm, S.L.; Jones, H.L.; Diamond, J.M. 1988.** On the risk of extinction. *American Naturalist*. 132:757-785.
- Platts, W.S.; McHenry, M.L. 1988.** Density and biomass of trout and char in western streams. Gen. Tech. Rep. INT-241. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 17 p.
- Platts, W.S.; Megahan, W.F.; Minshall, G.W. 1983.** Methods for evaluating stream, riparian, and biotic conditions. Gen. Tech. Rep. INT-138. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 70 p.
- Porter, K.R. 1972.** Herpetology. Philadelphia, PA: W.B. Saunders Co. 524 p.
- Porter, S.C. Personal communication.** Quaternary Research Center, University of Washington, Seattle 98195.
- Porter, S.C.; Pierce, K.L.; Hamilton, T.D. 1983.** Late Wisconsin mountain glaciation in the Western United States. In: Porter, S.C., ed. Late-Quaternary environments of the United States. The Late Pleistocene. Minneapolis: University of Minnesota. 1:71-111.
- Pough, H.F. 1980.** The advantages of ectothermy for tetrapods. *American Naturalist*. 115:92-112.
- Pough, H.F. 1983.** Amphibians and reptiles as low-energy systems. In: Aspey, W.P.; Lustick, S.I., eds. Behavioral energetics: the cost of survival in vertebrates. Columbus: Ohio State University Press: 141-188.
- Pough, H.F.; Smith, E.M.; Rhodes, D.H.; Collazo, A. 1987.** The abundance of salamanders in forest stands with different histories of disturbance. *Forest Ecology and Management*. 20:1-9.
- Powell, G.V.N.; Rappole, J.H. 1986.** The hooded warbler. In: Audubon Wildlife Report: 827-854.
- Press, S.; Wilson, S. 1978.** Choosing between logistic regression and discriminant analysis. *Journal of the American Statistical Association*. 73:699-705.
- Pulliam, H.R. 1988.** Sources, sinks, and population regulation. *American Naturalist*. 132:652-669.
- Pyne, S.J. 1982.** Fire in America: a cultural history of wildland and rural fire. Princeton, NJ: Princeton University Press. 654 p.
- Racey, P.A. 1973.** Environmental factors affecting the length of gestation in heterothermic bats. *Journal of Reproduction and Fertility supplement*. 19: 175-189.
- Racey, P.A.; Swift, S.M. 1981.** Variations in gestation length in a colony of pipistrelle bats (*Pipistrellus*) from year to year. *Journal of Reproduction and Fertility*. 61: 123-129.
- Racey, P.A.; Swift, S.M. 1985.** Feeding ecology of *Pipistrellus pipistrellus* (Chiroptera: Vespertilionidae) during pregnancy and lactation. I. Foraging behaviour. *Journal of Animal Ecology*. 54:205-215.
- Raedeke, K.J., ed. 1988.** Streamside management: riparian wildlife and forestry interactions. Proceedings of a symposium; 1987 February 11-13; University of Washington, Seattle. Contribution 59. Seattle: Institute of Forest Resources, University of Washington. 277 p.
- Raedeke, K.J.; Lehmkuhl, J.F. 1986.** A simulation procedure for modeling the relationships between wildlife and forest management. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. Wildlife 2000: modeling habitat relationships of terrestrial vertebrates. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 377-382.
- Ralph, C.J.; Paton, P.W.C.; Taylor, C.A. This volume.** Habitat association patterns of breeding birds and small mammals in Douglas-fir/hardwood stands in northwestern California and southwestern Oregon.
- Ralph, C.J.; Scott, J.M., eds. 1981.** Estimating numbers of terrestrial birds. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology* 6. 630 p.
- Ramotnik, C.A.; Scott, N.J., Jr. 1988.** Habitat requirements of New Mexico's endangered salamanders. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. Management of amphibians, reptiles, and small mammals in North America. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 54-63.

- Ramsey, F.L.; Wildman, V.; Engbring, J. 1987.** Covariate adjustment to effective area in variable-area wildlife surveys. *Biometrics*. 43:1-11.
- Randall, J.A.; Johnson, R.E. 1979.** Population densities and habitat occupancy by *Microtus longicaudus* and *M. montanus*. *Journal of Mammalogy*. 60:217-219.
- Ranney, J.W.; Bruner, M.C; Levenson, J.B. 1981.** The importance of edge in the structure and dynamics of forest islands. In: Burgess, R.L.; Sharpe, D.M., eds. *Forest island dynamics in man-dominated landscapes*. New York: Springer-Verlag: 67-95.
- Raphael, M.G. 1980.** Utilization of standing dead trees by breeding birds at Sagehen Creek, California. Berkeley: University of California. 195 p. Ph.D. dissertation.
- Raphael, M.G. 1984.** Wildlife diversity and abundance in relation to stand age and area in Douglas-fir forests of northwestern California. In: Meehan, W.R.; Merrell, T.R., Jr.; Hanley, T.A., eds. 1984. *Fish and wildlife relationships in old-growth forests*. Proceedings of a symposium; 1982 April 12-15; Juneau, AK. Morehead City, NC: The American Institute of Fishery Research Biologists: 259-274.
- Raphael, M.G. 1987a.** Estimating relative abundance of forest birds: simple versus adjusted counts. *Wilson Bulletin*. 99:125-131.
- Raphael, M.G. 1987b.** Wildlife-tanoak associations in Douglas-fir forests in northwestern California. In: Plumb, T.R.; Pillsbury, N.H., eds. *Multiple-use management of California's hardwood resources*. Proceedings of a symposium; 1986 November 12-14; San Luis Obispo, CA. Gen. Tech. Rep. PSW-100. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and Range Experiment Station: 183-189.
- Raphael, M.G. 1988a.** Douglas-fir. In: Mayer, K.E.; Laudenslayer, W.F., eds. *A guide to wildlife habitats of California*. California State Department of Forestry: 52-53.
- Raphael, M.G. 1988b.** Habitat associations of small mammals in a subalpine forest, Wyoming. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. *Management of amphibians, reptiles, and small mammals in North America*. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 359-367.
- Raphael, M.G. 1988c.** Long-term trends in abundance of amphibians, reptiles, and mammals in Douglas-fir forests of northwestern California. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. *Management of amphibians, reptiles, and small mammals in North America*. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 23-31.
- Raphael, M.G. This volume.** Vertebrate species richness within and among seral stages of Douglas-fir/hardwood forest in northwestern California.
- Raphael, M.G.; Barrett, R.H. 1981.** Methodologies for a comprehensive wildlife survey and habitat analysis in old-growth Douglas-fir forests. *Cal-Neva Wildlife*. 1981:106-121.
- Raphael, M.G.; Barrett, R.H. 1984.** Diversity and abundance of wildlife in late successional Douglas-fir forests. In: *Proceedings of the 1983 national convention*; 1983 October 16-20; Portland, OR. Washington, DC: Society of American Foresters: 352-360.
- Raphael, M.G.; Marcot, B.G. 1986.** Validation of a wildlife-habitat-relationships model: vertebrates in Douglas-fir sere. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 129-138.
- Raphael, M.G.; Rosenberg, K.V. 1983.** An integrated approach to wildlife inventories in forested habitats. In: Bell, J.F.; Atterbury, T., eds. *Renewable resource inventories for monitoring changes and trends*. Proceedings of an international symposium; 1983 August 15-19; Oregon State University, Corvallis. SAF 83-14. Corvallis, OR: Society of American Foresters: 219-222.
- Raphael, M.G.; Rosenberg, K.V.; Marcot, B.C. 1988.** Large-scale changes in bird populations of Douglas-fir forests, northwestern California. In: Jackson, J.A., ed. *Bird conservation*. Madison: University of Wisconsin Press: 63-83.
- Raphael, M.G.; Taylor, C.A.; Barrett, R.H. 1986.** Sooted aluminum track stations record flying squirrel occurrence. *Research Note PSW-384*. Berkeley, CA; U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and Range Experiment Station. 3 p.

- Raphael, M.G.; White, M. 1984.** Use of snags by cavity-nesting birds in the Sierra Nevada. *Wildlife Monographs*. 86: 1-66.
- Ratermann, M.M.; Brode, J.M. 1983.** Annotated bibliography of amphibian and reptile field study methods. Sacramento, CA: State of California, The Resources Agency, Department of Fish and Game, Inland Fisheries Administrative Report 83-3.45 p.
- Reese, K.P.; Ratti, J.T. 1988.** Edge effect: a concept under scrutiny. *Transactions of the North American Wildlife and Natural Resources Conference*. Washington, DC: Wildlife Management Institute. 53: 127-136.
- Rexstad, E.A.; Miller, D.D.; Flather, C.H. [and others]. 1988.** Questionable multivariate statistical inference in wildlife habitat and community studies. *Journal of Wildlife Management*. 52:794-798.
- Reynolds, R.T.; Scott, J.M.; Nussbaum, R.A. 1980.** A variable circular-plot method for estimating bird densities. *Condor*. 82:309-313.
- Rice, R.M.; Tilley, F.B.; Datzman, P.A. 1979.** A watershed's response to logging and roads: South Fork of Caspar Creek, California, 1967-1976. Res. Paper PSW-146. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and Range Experiment Station. 12 p.
- Richards, D.G. 1981.** Environmental acoustics and censuses of singing birds. In: Ralph, C.J.; Scott, J.M., eds. Estimating numbers of terrestrial birds. *Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA*. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:297-300.
- Robbins, C.S. 1980.** Effects of forest fragmentation on breeding bird populations in the Piedmont of the mid-Atlantic region. *Atlantic Naturalist*. 33(1):31-36.
- Robbins, C.S.; Dawson, D.K.; Dowell, B.A. 1989.** Habitat area requirements of breeding forest birds of the middle Atlantic States. *Wildlife Monographs*. 103:1-34.
- Robbins, C.S.; Stallcup, R.W. 1981.** Problems in separating species with similar habits and vocalizations. In: Ralph, C.J.; Scott, J.M., eds. Estimating numbers of terrestrial birds. *Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA*. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:360-365.
- Rosenberg, K.V.; Raphael, M.G. 1986.** Effects of forest fragmentation on vertebrates in Douglas-fir forests. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. *Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA*. Madison: University of Wisconsin Press: 263-272.
- Rosenzweig, J.L.; Winakur, J. 1969.** Population ecology of desert rodent communities: habitats and environmental complexity. *Ecology*. 50:558-572.
- Rotenberry, J.T. 1986.** Habitat relationships of shrubsteppe birds: even "good" models cannot predict the future. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. *Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA*. Madison: University of Wisconsin Press: 217-222.
- Rotenberry, J.T.; Wiens, J.A. 1981.** A synthetic approach to principal components analysis of bird/habitat relationships. In: Capen, D.E., ed. *The use of multivariate statistics in studies of wildlife habitat*. Gen. Tech. Rep. RM-87. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experimental Station: 197-208.
- Rowe, J.S. 1981.** Concepts of fire effects on plant individuals and species. In: Wein, R.W.; MacLean, D.A., eds. *The role of fire in northern circumpolar ecosystems*. New York: John Wiley and Sons. 322 p.
- Ruggiero, L.F. This volume.** Wildlife habitat relationships in unmanaged Douglas-fir forests: a program of research.
- Ruggiero, L.F.; Carey, A.B. 1984.** A programmatic approach to the study of old-growth forest-wildlife relationships. In: *Proceedings of the 1983 national convention; 1983 October 16-20; Portland, OR*. Washington, DC: Society of American Foresters: 340-345.
- Ruggiero, L.F.; Holthausen, R.S.; Marcot, B.G. [and others]. 1988.** Ecological dependency: the concept and its implications for research and management. *Transactions of the North American Wildlife and Natural Resources Conference*. Washington, DC: Wildlife Management Institute. 53:115-126.
- Ruggiero, L.F.; Jones, L.L.C.; Aubry, K.B. This volume.** Plant and animal habitat associations in Douglas-fir forests of the Pacific Northwest: an overview.

- Runkle, J.R. 1981.** Gap regeneration in some old-growth forests of the Eastern United States. *Ecology*. 62:1041-1051.
- Russell, K.; Johnsey, R.; Edmonds, R. 1986.** Disease and insect management for Douglas-fir. In: Oliver, C.D.; Hanley, D.P.; Johnson, J.A., eds. Douglas-fir: stand management for the future. Contribution 55. Seattle: University of Washington, College of Forest Resources, Institute of Forest Resources: 189-197.
- Ruth, R.H.; Yoder, R.A. 1953.** Reducing wind damage in the forests of the Oregon Coast Range. Res. Pap. 7. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 30 p.
- Salo, E.O.; Cundy, T.W., eds. 1987.** Streamside management: forestry and fishery interactions. Proceedings of a symposium; 1987 February 12-14; University of Washington, Seattle. Contribution 57. Seattle: Institute of Forest Resources, University of Washington. 471 p.
- Salwasser, H. 1987.** Spotted owls: turning a battleground into a blueprint. *Ecology*. 68:776-779.
- Salwasser, H.; Mealey, S.P.; Johnson, K. 1984.** Wildlife population viability: a question of risk. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 49:421-439.
- Salwasser, H.; Samson, F.B. 1985.** Cumulative effects analysis: an advance in wildlife planning and management. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 50:313-321.
- Salwasser, H.; Tappeiner, J.C. II. 1981.** An ecosystem approach to integrated timber and wildlife habitat management. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 46:473-487.
- Samson, F.B.; Knopf, F.L. 1982.** In search of a diversity ethic for wildlife management. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 47:421-431.
- Samson, F.B.; Marcot, B.G.; Raphael, M.G. [and others]. Unpublished manuscript.** Management of old-growth forests: issues and alternatives. Presented July 1986, Habitat Futures Conference, Lake Cowichan, Vancouver Island, British Columbia, On file at: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR 97208.
- SAS Institute, Inc. 1985.** SAS user's guide: statistics. Version 5 edition. Cary, NC: SAS Institute, Inc. 956 p.
- SAS Institute, Inc. 1987.** SAS/STAT guide for personal computers. Version 6 edition. Cary, NC: SAS Institute, Inc. 1028 p.
- Sawyer, J.O. 1980.** Douglas-fir-tanoak-pacific madrone. In: Eyre, F.H., ed. Forest cover types of the United States and Canada. Society of American Foresters: 111-112.
- Sawyer, J.O.; Thornburgh, D.A. 1977.** Montane and sub-alpine vegetation of the Klamath Mountains. In: Barbour, M.G.; Major, J., eds. Terrestrial vegetation of California. New York: John Wiley and Sons: 699-732.
- Sawyer, J.O.; Thornburgh, D.A.; Griffin, J.R. 1977.** Mixed evergreen forest. In: Barbour, M.G.; Major, J., eds. Terrestrial vegetation of California. New York: John Wiley and Sons: 359-379.
- Scharpf, R.W.; Dobler, F.C. 1985.** Caves, cliffs, and talus. In: Brown, E.R., tech. ed. Management of wildlife and fish habitats in forests of western Oregon and Washington. Part I-Chapter narratives. Publ. R6-F&WL-192-1985. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region: 187-197.
- Schlesinger, M.E.; Zhao, Z.C. 1988.** Seasonal climatic changes induced by doubled CO₂ as simulated by the OSU atmospheric GCM/mixed layer ocean model. Climatic Research Institute, Report 70. Corvallis, OR: Oregon State University. 73 p.
- Schoen, J.W.; Kirchoff, M.D.; Wallmo, O.C. 1984.** Sitka black-tailed deer/old-growth relationships in southeast Alaska: implications for management. In: Meehan, W.R.; Merrell, T.R.; Hanley, T.A., eds. Fish and wildlife relationships in old-growth forests. Proceedings of a symposium; 1982 April 12-15; Juneau, AK. Morehead City, NC: American Institute of Fishery Research Biologists: 315-321.
- Schoen, J.W.; Wallmo, O.C.; Kirchoff, M.D. 1981.** Wildlife-forest relationships: Is a reevaluation of old growth necessary? Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 46:531-544.

- Schonewald-Cox, C.M.; Chambers, S.M.; MacBryde, B.; Thomas, L., eds. 1983.** Genetics and conservation: a reference for managing wild animal and plant populations. Menlo Park, CA: Benjamin/Cummings. 500 p.
- Schoonmaker, P.; McKee, A. 1988.** Species composition and diversity during secondary succession of coniferous forests in the western Cascade Mountains of Oregon. *Forest Science*. 34:960-979.
- Schowalter, T.D. 1989.** Canopy arthropod community structure and herbivory in old-growth and regenerating forests in western Oregon. *Canadian Journal of Forest Research*. 19:318-322.
- Scott, D.R.M. 1980.** The Pacific Northwest Region. In: Barrett, J.W., ed. *Regional silviculture of the United States*. New York: John Wiley and Sons. 610 p. Chapter 11.
- Scott, J.M.; Csuti, B.; Jacobi, J.D.; Estes, J.E. 1987.** Species richness—a geographic approach to protecting future biological diversity. *Bioscience*. 37:782-788.
- Scott, J.M.; Csuti, B.; Smith, K. [and others]. 1988.** Beyond endangered species: an integrated conservation strategy for the preservation of biological diversity. *Endangered Species Update*. 5:43-48.
- Scott, N.J., Jr. Personal communication.** U.S. Department of the Interior, Fish and Wildlife Service, National Ecology Research Center, Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM 87131.
- Scott, N.J., Jr., ed. 1982.** Herpetological communities. *Wildlife Res. Rep.* 13. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service. 239 p.
- Scott, N.J., Jr. Unpublished manuscript.** The effects of forest disturbance on terrestrial salamanders, family Plethodontidae. On file at: U.S. Department of the Interior, Fish and Wildlife Service, National Ecology Research Center, Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM 87131.
- Scott, N.J., Jr.; Campbell, H.W. 1982.** A chronological bibliography, the history and status of studies of herpetological communities, and suggestions for future research. In: Scott, N.J., Jr., ed. *Herpetological communities*. *Wildlife Res. Rep.* 13. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service: 221-239.
- Scrivener, J.C.; Andersen, B.C. 1984.** Logging impacts and some mechanisms that determine the size of spring and summer populations of coho salmon fry (*Oncorhynchus kisutch*) in Carnation Creek, British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences*. 41: 1097-1105.
- Scrivner, J.H.; Smith, H.D. 1984.** Relative abundance of small mammals in four successional stages of spruce-fir forest in Idaho. *Northwest Science*. 58: 171-176.
- Sedell, J.R.; Swanson, F.J. 1984.** Ecological characteristics of streams in old-growth forests of the Pacific Northwest. In: Meehan, W.R.; Merrell, T.R., Jr.; Hanley, T.A., eds. *Fish and wildlife relationships in old-growth forests*. Proceedings of a symposium; 1982 April 12-15; Juneau, AK. Morehead City, NC: American Institute of Fishery Research Biologists: 9-16.
- Shaffer, M.L. 1981.** Minimum population sizes for species conservation. *Bioscience*. 31:131-134.
- Shaffer, M.L.; Samson, F.B. 1985.** Population size and extinction: a note on determining critical population sizes. *American Naturalist*. 125: 144-152.
- Sheppard, P.R.; Cook, E.R. 1988.** Scientific value of trees in old-growth natural areas. *Natural Areas Journal*. 8:7-12.
- Sheppe, W., Jr. 1961.** Systematic and ecological relations of *Peromyscus oreas* and *P. maniculatus*. *Proceedings of the American Philosophical Society*. 105:421-446.
- Shigo, A.L.; Kilham, L. 1968.** Sapsuckers and *Fomes ignarius* var. *populinus*. *Res. Note NE-84*. Washington, DC: U.S. Department of Agriculture, Forest Service. 2 p.
- Short, L.L. 1979.** Burdens of the picid hole-nesting habit. *Wilson Bulletin*. 91:16-28.
- Show, S.B.; Stuart, R.Y. 1932.** Timber growing and logging practice in the coast redwood region of California. *Tech. Bull.* 283. Washington, DC: U.S. Department of Agriculture. 22 p.
- Siderits, K.; Radke, R.E. 1977.** Enhancing forest wildlife habitat through diversity. *Transactions of the North American Wildlife and Natural Resources Conference*. Washington, DC: Wildlife Management Institute. 42:425-434.
- Siegel, S. 1956.** *Nonparametric statistics for the behavioral sciences*. New York, NY: McGraw-Hill Book Company. 312 p.

- Simberloff, D.** 1974. Equilibrium theory of island biogeography and ecology. *Annual Review of Ecology and Systematics*. 5:161-182.
- Simberloff, D.** 1983. What a species needs to survive. *Nature Conservancy News*. 33:18-22.
- Simberloff, D.; Abele, L.G.** 1982. Refuge design and island biogeographic theory: effects of fragmentation. *American Naturalist*. 120:41-50.
- Simberloff, D.; Cox, J.** 1987. Consequences and costs of corridors. *Conservation Biology*. 1:63-71.
- Simmons, J.A.; Fenton, M.B.; Ferguson, W.R. [and others].** 1979. Apparatus for research on animal ultrasonic signals. Toronto, ON: Life Sciences Contribution, Royal Ontario Museum. 31 p.
- Simpson, G.G.** 1964. Species density of North American Recent mammals. *Systematic Zoology*. 13:57-73.
- Sirmon, J.M.** 1985. A regional forester speaks out on old growth. *American Forests*. October: 29-30,70-71.
- Slobodkin, L.B.; Sanders, W.E.** 1969. On the contribution of environmental predictability to species diversity. *Brookhaven Symposium of Biology*. 22:88-95.
- Smith, D.M.** 1982a. Patterns of development of forest stands. In: Means, J.E., ed. *Forest succession and stand development research in the Northwest*. Proceedings of a symposium; 1981 March 26; Oregon State University, Corvallis, OR. Corvallis, OR: Forest Research Laboratory, Oregon State University. 170 p.
- Smith, K.G.** 1977. Distribution of summer birds along a forest moisture gradient in an Ozark watershed. *Ecology*. 58:810-819.
- Smith, K.G.** 1981. Canonical correlation analysis and its use in wildlife habitat studies. In: Capen, D.E., ed. *The use of multivariate statistics in studies of wildlife habitat*. Gen. Tech. Rep. RM-87. Fort Collins, CO: U.S. Department of -Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 80-92.
- Smith, K.G.** 1982b. Drought-induced changes in avian community structure along a montane sere. *Ecology*. 63:952-961.
- Smith, K.G.; MacMahon, J.A.** 1981. Bird communities along a montane sere: community structure and energetics. *Auk*. 98:8-28.
- Sneath, P.H.A.; Sokal, R.** 1973. *Numerical taxonomy*. San Francisco: W.H. Freeman Company. 573 p.
- Snellgrove, T.A. 1977. White pine yields decrease as time since death increases. *Forest Industry*. 104(4):26-28.
- Snellgrove, T.A.; Fahey, T.D.** 1977. Market values and problems associated with utilization of dead timber. *Forest Products Journal*. 27:74-79.
- Snyder, D.P., ed.** 1978. *Populations of small mammals under natural conditions*. Pymatuning Laboratory of Ecology Special Publication Series, Vol. 5.2317 p.
- Society of American Foresters Task Force.** 1983. Report of the SAF task force on scheduling the harvest of old-growth timber. Bethesda, MD: Society of American Foresters. 38 p.
- Society of American Foresters.** 1984. *Scheduling the harvest of old growth*. Bethesda, MD: Society of American Foresters. 44 p.
- Sokal, R.R.; Michener, C.D.** 1958. A statistical method for evaluating systematic relationships. *University of Kansas Scientific Bulletin*. 38: 1409-1438.
- Sokal, R.R.; Rohlf, F.J.** 1981. *Biometry*. New York: W.H. Freeman Company. 859 p.
- Sollins, P.** 1982. Input and decay of coarse woody debris in coniferous stands in western Oregon and Washington. *Canadian Journal of Forest Research*. 12:18-28.
- Sollins, P.; Grier, C.C.; McCarrison, F.M. [and others].** 1980. The internal element cycles of an old-growth Douglas-fir ecosystem in western Oregon. *Ecological Monographs*. 50:261-285.
- Solow, A.R. 1989. Bootstrapping sparsely sampled spatial point patterns. *Ecology*. 70:379-382.
- Soule M.E.** 1980. Thresholds for survival: maintaining fitness and evolutionary potential. In: Soule M.E.; Wilcox, B.A., eds. *Conservation biology: an evolutionary-ecological approach*. Sunderland, MA: Sinauer Associates: 151-169.
- Sonle, M.E. 1986. The effects of fragmentation. In: Soule M.E., ed. *Conservation biology: the science of scarcity and diversity*. Sunderland, MA: Sinauer Associates: 233-236.

- Soule, M.E.; Bolger, D.T.; Alberts, A.C. [and others]. 1988.** Reconstructed dynamics of rapid extinctions of chaparral-requiring birds in urban habitat islands. *Conservation Biology*. 2:75-92.
- Soule M.E.; Wilcox, B.A., eds.** 1980. *Conservation biology: an evolutionary-ecological approach*. Sunderland, MA: Sinauer Associates. 395 p.
- Spies, T.A. Personal communication.** U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR 97331.
- Spies, T.A. This volume.** Plant species diversity and occurrence in young, mature, and old-growth Douglas-fir stands in western Oregon and Washington.
- Spies, T.A.; Barnes, B.V. 1985.** Ecological species groups of upland northern hardwood-hemlock forest ecosystems of the Sylvania Recreation Area, Upper Peninsula, Michigan. *Canadian Journal of Forest Research*. 15:961-972.
- Spies, T.A.; Cline, S.P. 1988.** Coarse woody debris in forests and plantations of coastal Oregon. In: Maser, C.; Tarrant, R.F.; Trappe, J.M.; Franklin, J.F., tech. eds. *From the forest to the sea: a story of fallen trees*. Gen. Tech. Rep. PNW-GTR-229. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station: 5-24.
- Spies, T.A.; Franklin, J.F. 1988.** Old growth and forest dynamics in the Douglas-fir region of western Oregon and Washington. *Natural Areas Journal*. 8: 190-201.
- Spies, T.A.; Franklin, J.F. 1989.** Gap characteristics and vegetation response in coniferous forests of the Pacific Northwest. *Ecology*. 70(3):543-545.
- Spies, T.A.; Franklin, J.F. This volume.** The structure of natural young, mature, and old-growth Douglas-fir forests in Oregon and Washington.
- Spies, T.A.; Franklin, J.F.; Klopsch, M. 1990.** Characteristics of canopy gaps in Douglas-fir forests. *Canadian Journal of Forest Research*. 20:649-658.
- Spies, T.A.; Franklin, J.F.; Spycher, G. Unpublished manuscript.** Biomass of Douglas-fir stands in relation to age and site conditions in western Oregon and Washington. On file at: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR 97331.
- Spies, T.A.; Franklin, J.F.; Thomas, T.B. 1988.** Coarse woody debris in Douglas-fir forests of western Oregon and Washington. *Ecology*. 69(6):1689-1702.
- Spies, T.A.; Tappener, J.; Pojar, J.; Coates, D. In press.** Trends in ecosystem management at the stand level. *Transactions of the 56th North American Wildlife and Natural Resources Conference*. Washington, DC: Wildlife Management Institute.
- SPSS, Inc. 1986.** *SPSSX user's guide*. 2d ed. Chicago, IL: SPSS, Inc. 988 p.
- Starker, T.J. 1934.** Fire resistance in the forest. *Journal of Forestry*. 32:462-467.
- States, J. 1985.** Hypogeous, mycorrhizal fungi associated with ponderosa pine: sporocarp phenology. In: Molina, R., ed. *Proceedings of the 6th North American conference on mycorrhizae*; 1984 June 25-29; Bend, OR. Corvallis, OR: Forest Research Laboratory, Oregon State University: 271.
- Stebbins, R.C. 1951.** *Amphibians of western North America*. Berkeley, CA: University of California Press: 539 p.
- Stebbins, R.C. 1954.** Natural history of the salamanders of the plethodontid genus *Ensatina*. *University of California Publications in Zoology*. 54:47-123.
- Stebbins, R.C. 1985.** *A field guide to Western reptiles and amphibians*. Boston: Houghton Mifflin Company. 336 p.
- Stewart, G.H. 1986a.** Forest development in canopy openings in old-growth *Pseudotsuga* forests of the western Cascade Range, Oregon. *Canadian Journal of Forest Research*. 16(3):558-568.
- Stewart, G.H. 1986b.** Population dynamics of a montane conifer forest, western Cascade Range, Oregon, USA. *Ecology*. 67(2):534-544.
- Stewart, G.H. 1988.** The influence of canopy cover on understory development in forests of the western Cascade Range, Oregon, USA. *Vegetatio*. 76:79-88.
- Stjernberg, T. 1979.** Breeding biology and population dynamics of the scarlet rosefinch *Carpodacus erythrinus*. *Acta Zoologica Fennica*. 157:1-88.
- Strahler, A.N. 1952.** Hypsometric (area-altitude) analysis of erosion topography. *Bulletin of the Geological Society of America*. 63:1117-1142.
- Stuart, J.D. 1987.** Fire history of an old-growth forest of *Sequoia sempervirens* (Taxodiaceae) in Humboldt Redwoods State Park, California. *Madrono*. 34: 128-141.

- Stuiver, M.; Quay, P.D. 1980.** Changes in atmospheric carbon-14 attributed to a variable sun. *Science*. 207:11-19.
- Sullivan, T.P. 1979.** Demography of populations of deer mice in coastal forest and clear-cut (logged) habitats. *Canadian Journal of Zoology*. 57: 1636-1648.
- Sullivan, T.P.; Krebs, C.J. 1980.** Comparative demography of *Peromyscus maniculatus* and *Microtus oregoni* populations after logging and burning of coastal forest habitats. *Canadian Journal of Zoology*. 58:2252-2259.
- Swanson, F.J.; Fredriksen, R.L.; McCarrison, F.M. 1982.** Material transfer in a western Oregon forested watershed. In: Edmonds, R.L., ed. *Analysis of coniferous forest ecosystems in the Western United States*. US/IBP Synthesis Ser. 14. Stroudsburg, PA: Hutchinson Ross Publishing Co.: chapter 8.
- Swanson, F.J.; Lienkaemper, G.W. 1978.** Physical consequences of large organic debris in Pacific Northwest streams. Gen. Tech. Rep. PNW-69. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 12 p.
- Tabachnick, B.G.; Fidell L.S. 1983.** Using multivariate statistics. New York: Harper and Row. 509 p.
- Takekawa, J.; Garton, E.O.; Langelier, L.A. 1982.** Biological control of forest insect outbreaks: the use of avian predators. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 47:393-410.
- Taylor, C.A.; Ralph, C.J.; Doyle, A.T. 1988.** Differences in the ability of vegetation models to predict small mammal abundance in different aged Douglas-fir forests. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., eds. *Management of amphibians, reptiles, and small mammals in North America*. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 368-374.
- Taylor, C.A.; Raphael, M.G. 1988.** Identification of mammal tracks from sooted track stations in the Pacific Northwest. *California Fish and Game*. 74:4-11.
- Teensma, P.D.A. 1987.** Fire history and fire regimes of the central western Cascades of Oregon. Eugene, OR: University of Oregon. 188 p. Ph.D. dissertation.
- Temple, S.A. 1986.** Predicting impacts of habitat fragmentation on forest birds: a comparison of two models. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11, Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 301-304.
- Terborgh, J.W. 1974.** Preservation of natural diversity: the problem of extinction prone species. *Bioscience*. 24:715-722.
- Terborgh, J.W. 1988.** The big things that run the world—a sequel to E.O. Wilson. *Conservation Biology*. 2:402-403.
- Terborgh, J.W.; Winter, B. 1980.** Some causes of extinction. In: Soule M.E. ed. *Conservation biology: the science of scarcity and diversity*. Sunderland, MS: Sinauer Associates: 119-133.
- Terry, C.J. 1974.** Ecological differentiation of three species of *Sorex* and *Neurotrichus gibbsi* in western Washington. Seattle: University of Washington. 101 p. M.S. thesis.
- Terry, C.J. 1978.** Food habits of three sympatric species of Insectivora in western Washington. *Canadian Field-Naturalist*. 92:38-44.
- Terry, C.J. 1981.** Habitat differentiation among three species of *Sorex* and *Neurotrichus gibbsi* in Washington. *American Midland Naturalist*. 106: 119-125.
- Tevis, L., Jr. 1956.** Responses of small mammal populations to logging of Douglas-fir. *Journal of Mammalogy*. 37:189-196.
- Thilenius, J.F. 1968.** The *Quercus garryana* forests of the Willamette Valley, Oregon. *Ecology*. 49: 1124-1133.
- Thomas, D.W. 1988.** The distribution of bats in different ages of Douglas-fir forests. *Journal of Wildlife Management*. 52:619-626.
- Thomas, D.W.; Bell, G.P.; Fenton, M.B. 1987.** Variation in echolocation call frequencies recorded from North American vespertilionid bats: a cautionary note. *Journal of Mammalogy*. 68:842-847.
- Thomas, D.W.; LaVal, R.K. 1988.** Survey and census methods. In: Kunz, T.H., ed. *Ecological and behavioral methods for the study of bats*. Washington, DC: Smithsonian Institution Press: 77-90.
- Thomas, D.W.; West, S.D. 1989.** Sampling methods for bats. Gen. Tech. Rep. PNW-243. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 20 p.

- Thomas, J.W., ed. 1979.** Wildlife habitats in managed forests: the Blue Mountains of Oregon and Washington. Agriculture Handbook 553. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Thomas, J.W. 1982.** Needs for and approaches to wildlife habitat assessment. Transactions of the North American Wildlife and Natural Resources Conference. Washington, DC: Wildlife Management Institute. 47:35-46.
- Thomas, J.W. This volume.** Research on wildlife in old-growth forests: setting the stage.
- Thomas, J.W.; Anderson, R.G.; Maser, C.; Bull, E.L. 1979.** Snags. In: Thomas, J.W., ed. Wildlife habitats in managed forests: the Blue Mountains of Oregon and Washington. Agricultural Handbook 553. Washington, DC: U.S. Department of Agriculture, Forest Service: 60-77.
- Thomas, J.W.; Miller, R.J.; Black, H. [and others]. 1976.** Guidelines for maintaining and enhancing wildlife habitat in forest management in the Blue Mountains of Oregon and Washington. Transactions of the North American Wildlife and Natural Resources Conference: 41:452-476.
- Thomas, J.W.; Ruggiero, L.F.; Mannan, R.W. [and others]. 1988.** Management and conservation of old-growth forests in the United States. Wildlife Society Bulletin. 16:252-262.
- Thornburgh, D.A. 1981.** Succession in the mixed evergreen forests of northwestern California. In: Forest succession and stand development research in the Northwest. Proceedings of a symposium; 1981 March 26; Oregon State University, Corvallis, OR. Corvallis: Forest Research Laboratory, Oregon State University: 87-91.
- Thorson, R.M. 1980.** Ice sheet glaciation of the Puget Lowland of Washington, during the Vashon Stage (Late Pleistocene), Quaternary Research. 13:303-321.
- Tomoff, C.S. 1974.** Avian species diversity in desert scrub. Ecology. 55:396-403.
- Torrence, J.F. 1986.** Statement before the Subcommittee on General Oversight, Northwest Power, and Forest Management; Committee on Interior and Insular Affairs; United States House of Representatives, concerning management of old-growth forests in the Pacific Northwest. April 28. Cited in Anderson, H.M. 1988. Old-growth forests: a conservationist's perspective. Natural Areas Journal. 8(1):13-16.
- Trappe, J.M. Personal observation.** U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Corvallis, OR 97331.
- Trappe, J.M. 1962.** Fungus associates of ectotrophic mycorrhizae. Botanical Review. 28:538-606.
- Trappe, J.M. 1971.** Mycorrhiza-forming ascomycetes. In: HacsKaylo, E., ed. Mycorrhizae. Miscellaneous Publication 1189. Washington, DC: U.S. Department of Agriculture, Forest Service: 19-37.
- Trappe, J.M.; Fogel, R. 1978.** Ecosystematic functions of mycorrhizae. In: Marshall, J.K., ed. The belowground symposium: a synthesis of plant-associated processes. Range Science Department Science Serial. Fort Collins: Colorado State University. 26:205-214.
- Travis, J. 1977.** Seasonal foraging in a downy woodpecker population. Condor. 79:371-375.
- Tsukada, M. 1982.** *Pseudotsuga menziesii* (Mirb.) Franco; its pollen dispersal and Late Quaternary history in the Pacific Northwest. Japanese Journal of Ecology. 32:159-187.
- Tsukada, M.; Sugita, S.; Hibbert, D.M. 1981.** Paleoeecology in the Pacific Northwest. I. Late Quaternary vegetation and climate. Internationale Vereinigung fur theoretische and angewandte Limnologie. 21:703-737.
- Twitty, V.C. 1966.** Of scientists and salamanders. San Francisco: W.H. Freeman and Company. 178 p.
- U.S. Department of Agriculture, Forest Service. 1976.** The feasibility of utilizing forest residues for energy and chemicals. Report to the National Science Foundation and the Federal Energy Administration. Washington, DC: RANN. 193 p.
- U.S. Department of Agriculture, Forest Service. 1983.** The principal laws relating to Forest Service activities. Agric. Handb. 453. Washington, DC: U.S. Department of Agriculture, Forest Service. 591 p.
- U.S. Department of Agriculture, Forest Service. 1985.** For. Serv. Manual, R-6 Supplement 35, Title 2600-Wildlife Management, 2630.3 policy.
- U.S. Department of Agriculture, Forest Service. 1986.** Land areas of the National Forest System. FS-383. Washington, DC: U.S. Department of Agriculture, Forest Service.

- U.S. Department of Agriculture, Forest Service. 1988a.** Final supplement to the environmental impact statement for an amendment to the Pacific Northwest Regional Guide. Vol. 1: Spotted owl guidelines. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region.
- U.S. Department of Agriculture, Forest Service. 1988b.** Forest plan aggregate outputs and effects. Staff paper for the Regional Forester. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region. October 1, 1988, draft.
- U.S. Department of Agriculture, Forest Service. 1988c.** Old-growth briefing paper. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region, Oct. 10, 1988. 6 p.
- U.S. Department of Commerce. 1983-84.** Environmental Data Service; Climatological Data, Washington. National Climatic Center; Asheville, NC. Washington, DC: National Oceanic and Atmospheric Administration.
- Udvardy, M.D.F. 1975.** A classification of the biogeographical provinces of the world. Occasional Papers, International Union for Conservation of Nature and Natural Resources. 18:1-49.
- Ugolini, F.C.; Schlichte, A.K. 1973.** The effect of Holocene environmental changes on selected western Washington soils. *Soil Science*. 116(1):218-227.
- Urban, D.L., O'Neill, R.V.; Shugart, H.H. 1987.** Landscape ecology. *Bioscience*. 37: 119-127.
- Ure, D.C.; Maser, C. 1982.** Mycophagy of red-backed voles in Oregon and Washington. *Canadian Journal of Zoology*. 60:3307-3315.
- Usher, M.B. 1985.** Implications of species-area relationships for wildlife conservation. *Journal of Environmental Management*. 21:181-191.
- van Dorp, D.; Opdam, P.F.M. 1987.** Effects of patch size, isolation and regional abundance on forest bird communities. *Landscape Ecology*. 1:59-73.
- Van Horn, F. Personal communication.** U.S. Department of the Interior, National Park Service, Crater Lake National Park, OR 97604.
- Van Horne, B. 1981.** Demography of *Peromyscus maniculatus* populations in seral stages of coastal coniferous forest in southeast Alaska. *Canadian Journal of Zoology*. 59:1045-1061.
- Van Horne, B. 1983.** Density as a misleading indicator of habitat quality. *Journal of Wildlife Management*. 47:893-901.
- Van Horne, B. 1986.** Summary: when habitats fail as predictors-the researcher's viewpoint. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 257-258.
- van Zyll de Jong, C.G. 1983.** Handbook of Canadian mammals. I. Marsupials and insectivores. Ottawa, ON: National Museum of Natural Sciences. 210 p.
- Verner, J. 1981.** Introductory remarks: sample design. In: Ralph, C.J.; Scott, J.M., eds. *Estimating number of terrestrial birds*. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:391.
- Verner, J. 1985.** Assessment of counting techniques. In: Johnson, R.F., ed. *Current ornithology*. New York: Plenum Press. 2:247-302.
- Verner, J. 1986.** Summary: predicting effects of habitat patchiness and fragmentation-a researcher's viewpoint. In: Verner, J.; Morrison, M.L.; Ralph, C.J., eds. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11; Fallen Leaf Lake, CA. Madison: University of Wisconsin Press: 327-330.
- Verner, J.; Boss, A.S., tech. coords. 1980.** California wildlife and their habitats: western Sierra Nevada. Gen. Tech. Rep. PSW-37. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and Range Experiment Station. 439 p.
- Verner, J.; Larson, T.A. 1989.** Richness of bird species in mixed-conifer forests of the Sierra Nevada, California. *Auk*. 106(3):447-463.
- Verner, J.; Milne, K.A. 1989.** Coping with sources of variability when monitoring population trends. *Annales Zoologici Fennici*. 26:191-199.
- Verner, J.; Morrison, M.L.; Ralph, C.J., eds. 1986.** *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. Proceedings of an international symposium; 1984 October 7-11, Fallen Leaf Lake, CA. Madison: University of Wisconsin Press. 470 p.

- Verner, J.; Ritter, L.V. 1985.** A comparison of transects and point counts in oak-pine woodlands of California. *Condor*. 87:47-68.
- Volz, K. 1986.** Habitat requirements of northern flying squirrels in west-central Oregon. Pullman: Washington State University. 21 p. M.S. thesis.
- Wainwright, T.C.; Barbour, M.G. 1984.** Characteristics of mixed evergreen forests in the Sonoma mountains of California. *Madrono*. 31:219-230.
- Waite, R.B., Jr.; Thorson, R.M. 1983.** The Cordilleran ice sheet in Washington, Idaho, and Montana. In: Porter, S.C., ed. *Late-Quaternary environments of the United States. The Late Pleistocene*. Minneapolis: University of Minnesota Press. 1:53-70.
- Wake, D.B. 1966.** Comparative osteology and evolution of the lungless salamanders, family Plethodontidae. *Memoirs of the Southern California Academy of Sciences*. 4:1-111.
- Wallmo, O.C.; Schoen, J.W. 1980.** Response of deer to secondary forest succession in southeast Alaska. *Forest Science*. 26:448-462.
- Weisbrod, A.R. 1976.** Insularity and mammal species number in two National Parks. In: Linn, R.M., ed. *Proceedings of the first conference of scientific research in National Parks. Transactions and Proceedings Series*. Washington, DC: U.S. National Park Service. 5:83-87.
- Welsh, H.H., Jr. 1985.** *Ascaphus truei* (tailed frog). Geographic distribution. *Herpetological Review*. 16(2):59.
- Welsh, H.H., Jr. 1987.** Monitoring herpetofauna in woodland habitats of northwestern California and southwestern Oregon: a comprehensive strategy. In: Plumb, T.R.; Pillsbury, N.H., eds. *Multiple-use management of California's hardwood resources. Proceedings of a symposium; 1986 November 12-14; San Luis Obispo, CA*. Gen. Tech. Rep. PSW-100. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and Range Experiment Station: 203-213.
- Welsh, H.H., Jr. 1990.** Relictual amphibians and old-growth forests. *Conservation Biology*. 4(3):309-319.
- Welsh, H.H., Jr.; Lind, A.J. 1988.** Old growth forests and the distribution of the terrestrial herpetofauna. In: Szaro, R.C.; Severson, K.E.; Patton, D.R., tech. coords. *Management of amphibians, reptiles, and small mammals in North America. Proceedings of a symposium; 1988 July 19-21; Flagstaff, AZ*. Gen. Tech. Rep. RM-166. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 439-458.
- Welsh, H.H., Jr.; Lind, A.J. This volume.** The structure of the herpetofaunal assemblage in the Douglas-fir/hardwood forests of northwestern California and southwestern Oregon.
- West, S.D. 1985.** Differential capture between old and new models of the Museum Special snap trap. *Journal of Mammalogy*. 66:789-800.
- West, S.D. In press.** Sampling forest floor small mammals. Gen. Tech. Rep.. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.
- West, S.D. This volume.** Small mammal communities in the Southern Washington Cascade Range.
- Wetherald, R.T.; Manahe, S. 1988.** An investigation of cloud cover change in response to thermal forcing. *Climate Change*. 8:5-23.
- Wetmore, S.P.; Keller, R.A.; Smith, G.E.J. 1985.** Effects of logging on bird populations in British Columbia as determined by a modified point-count method. *Canadian Field-Naturalist*. 99:224:233.
- Whitaker, J.O., Jr.; Maser, C. 1976.** Food habits of five western Oregon shrews. *Northwest Science*. 50:102-107.
- Whitaker, J.O., Jr.; Maser, C.; Storm, R.M.; Beatty, J.J. 1986.** Food habits of clouded salamanders (*Aneides ferreus*) in Curry County, Oregon (Amphibia: Caudata: Plethodontidae). *Great Basin Naturalist*. 46:228-240.
- Whitcomb, R.F. 1977.** Island biogeography and "habitat islands" of Eastern forest. *American Birds*. 31:3-5.
- Whitcomb, R.F.; Lynch, J.F.; Klimkiewicz, M.K. [and others]. 1981.** Effects of forest fragmentation on avifauna of the Eastern deciduous forest. In: Burgess, R.L.; Sharpe, D.M., eds. *Forest island dynamics in man-dominated landscapes*. New York: Springer-Verlag: 124-205.
- White, P.S. 1979.** Pattern, process, and natural disturbance in vegetation. *Botanical Review*. 45:229-299.
- White, R. 1980.** Land use, environment, and social change: the shaping of Island County, Washington. Seattle: University of Washington Press. 227 p.

- Whitford, W.G. 1976.** Temporal fluctuations in density and diversity of desert rodent populations. *Journal of Mammalogy*. 57:351-359.
- Whitmore, R.C. 1977.** Habitat partitioning in a community of passerine birds. *Wilson Bulletin*. 89(2):253-265.
- Whitmore, T.C. 1978.** Gaps in forest canopy. In: Tomlinson, P.B.; Zimmerman, M.H., eds. *Tropical trees as living systems*. New York: Cambridge University Press: 639-655.
- Whittaker, R.H. 1965.** Dominance and diversity in plant communities. *Science*. 147:250-260.
- Whittaker, R.H. 1975.** *Communities and ecosystems*. New York: MacMillan Publishing Co. 387 p.
- Whittaker, R.J. 1987.** An application of detrended correspondence analysis and non-metric multidimensional scaling to the identification and analysis of environmental factor complexes and vegetation structures. *Journal of Ecology*. 75:363-376.
- Wiens, J.A. 1975.** Avian communities, energetics, and functions in coniferous forest habitats. In: Smith, D.R., ed. *Management of forest and range habitats for nongame birds*. Proceedings of a symposium; 1975 May 6-9; Tucson, AZ. Gen. Tech. Rep. WO-1. Washington, DC: U.S. Department of Agriculture, Forest Service: 226-235.
- Wiens, J.A. 1976.** Population responses to patchy environments. *Annual Review of Ecological Systems*. 7:81-120.
- Wiens, J.A. 1981a.** Scale problems in avian censusing. In: Ralph, C.J.; Scott, J.M., eds. *Estimating numbers of terrestrial birds*. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:513-521.
- Wiens, J.A. 1981b.** Single-sample surveys of communities: are the revealed patterns real? *American Naturalist*. 117:90-98.
- Wiens, J.A.; Rotenberry, J.T. 1981a.** Censusing and the evaluation of habitat occupancy. In: Ralph, C.J.; Scott, J.M., eds. *Estimating numbers of terrestrial birds*. Proceedings of an international symposium; 1980 October 26-31; Asilomar, CA. Lawrence, KS: Cooper Ornithological Society. *Studies in Avian Biology*. 6:522-532.
- Wiens, J.A.; Rotenberry, J.T. 1981b.** Habitat associations and community structure of birds in shrubsteppe environments. *Ecological Monographs*. 51:21-41.
- Wiest, J.A., Jr. 1982.** Anuran succession at temporary ponds in a post oak-savanna region of Texas. In: Scott, N.J., Jr., ed. *Herpetological communities*. *Wildlife Res. Rep.* 13. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service: 39-47.
- Wilcove, D.S. 1987.** Public lands management and the fate of the spotted owl. *American Birds*. 41:361-367.
- Wilcove, D.S. 1988.** Protecting biological diversity. In: *National forests: policies for the future, Volume 2*. Washington, DC: The Wilderness Society: 1-50.
- Wilcove, D.S.; McLellan, C.H.; Dobson, A.P. 1986.** Habitat fragmentation in the temperate zone. In: Soule M.E., ed. *Conservation biology: the science of scarcity and diversity*. Sunderland, MA: Sinauer Associates: 237-256.
- Wilcox, B.A. 1978.** Supersaturated island faunas: a species-age relationship for lizards on post-Pleistocene land-bridge islands. *Science*. 199:996-998.
- Wilcox, B.A. 1980.** Insular ecology and conservation. In: Soule M.E.; Wilcox, B.A., eds. *Conservation biology, an evolutionary-ecological approach*. Sunderland, MA: Sinauer Associates: 95-117.
- Wilcox, B.A.; Murphy, D.D. 1985.** Conservation strategy: the effects of fragmentation on extinction. *American Naturalist*. 125:879-887.
- Wilderness Society, The. 1988.** *End of the ancient forests*. Washington, DC: The Wilderness Society. 57 p.
- Wilkinson, L. 1979.** Tests of significance in stepwise regression. *Psychology Bulletin*. 86:168-174.
- Wilkinson, L. 1988.** *SYSTAT: the system for statistics*. Evanston, IL: Systat, Inc. 822 p.
- Williams, B.K. 1981.** Discriminant analysis in wildlife research: theory and applications. In: Capen, D.E., ed. *The use of multivariate statistics in studies of wildlife habitat*. Gen. Tech. Rep. RM-87. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 59-71.
- Williams, B.K. 1983.** Some observations on the use of discriminant analysis in ecology. *Ecology*. 64:1283-1291.
- Williams, D.A. 1976.** Improved likelihood ratio tests for complete contingency tables. *Biometrika*. 63:33-37.

- Williams, D.F.; Braun, S.E. 1983.** Comparison of pitfall and conventional traps for sampling small mammal populations. *Journal of Wildlife Management*. 47:841-845.
- Williamson, M. 1981.** Island populations. Oxford, England: Oxford University Press. 286 p.
- Williamson, R.L.; Price, F.E. 1971.** Initial thinning effects in 70- to 150-year-old Douglas-fir-western Oregon and Washington. Res. Paper PNW-117. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 15 p.
- Wilson, M.V.. 1981.** A statistical test of the accuracy and consistency of ordinations. *Ecology*. 62:8-12.
- Willson, M.F. 1974.** Avian community organization and habitat structure. *Ecology*. 55:1017-1029.
- Willson, M.F.; Porter, E.A.; Condit, R.S. 1982.** Avian *frugivore* activity in relation to forest light gaps. *Caribbean Journal of Science*. 18(1):1-6.
- Wolda, H. 1981.** Similarity indices, sample size and diversity. *Oecologia*. 50:296-302.
- Wright, H.A.; Bailey, A.W. 1982.** Fire ecology: United States and southern Canada. New York: John Wiley and Sons. 501 p.
- Wright, K.H.; Harvey, G.M. 1967.** The deterioration of beetle-killed Douglas-fir in western Oregon and Washington. Res. Paper PNW-50. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 20 p.
- Yahner, R.H. 1989.** Changes in wildlife communities near edges. *Conservation Biology*. 2:333-339.
- Yamaguchi, D.K. 1986.** The development of old-growth Douglas-fir forests northeast of Mount St. Helens, Washington, following an A.D. 1480 eruption. Seattle: University of Washington. 100 p. Ph.D. dissertation.
- Zar, J.H. 1984.** Biostatistical analysis. 2d ed. Englewood Cliffs, NJ: Prentice-Hall. 718 p.
- Zarnowitz, J.E.; Manuwal, D.A. 1985.** The effects of forest management on cavity-nesting birds in northwestern Washington. *Journal of Wildlife Management*. 49:255-263.
- Zobel, D-B.; McKee, A.; Hawk, G.M.; Dyrness, C.T. 1976.** Relationships of environment to composition, structure, and diversity of forest communities of the central western Cascades of Oregon. *Ecological Monographs*. 46:135-156.