

## References





**A**

Abbe, T. B., and D. R. Montgomery. 1996. Large woody debris jams, channel hydraulics and habitat formation in large rivers. *Regulated Rivers: Research and Management* 12: 201-221.

Abbe, T. B., D. R. Montgomery, K. Fetherston, and E. M. McClure. 1993. A process-based classification of woody debris in a fluvial network: preliminary analysis of the Queets River, Washington. *EOS, Transactions of the American Geophysicists Union* 73: 296.

Abbott, L. L. 1987. The effect of fire on subsequent growth of surviving trees in an old growth redwood forest in Redwood National Park, California. Master's thesis, Humboldt State University, Arcata, CA.

Adams, M. J. 1993. Summer nest of the tailed frog (*Ascaphus truei*) from the Oregon Coast Range. *Northwestern Naturalist* 74: 15-18.

Adams, M. J. 1999. Correlated factors in amphibian decline: exotic species and habitat change in western Washington. *Journal of Wildlife Management* 63: 1162-1171.

Adams, M. J., and R. B. Bury. 2000. Association of stream amphibians with climate gradients and the characteristics of headwater streams. Pages 25-31 in R. B. Bury and M. J. Adams, editors. *Inventory and monitoring of amphibians in North Cascades and Olympic National Parks, 1995-1998. Final report.* Prepared for Forest and Rangeland Ecosystem Science Center, U. S. Department of the Interior and U. S. Geological Survey.

AEP (Association of Environmental Professionals). AEP website contains a link to the 2007 CEQA Statutes and Guidelines. <http://ceres.ca.gov/ceqa/>

Agee, J. K. 1993. *Fire ecology of Pacific Northwest forests.* Island Press, Washington, D. C.

Agee, J. K. 1997. Fire management for the 21st century. Pages 191-201 in K. A. Kohm and J. F. Franklin, editors. *Creating a forestry for the 21st century.* Island Press, Washington, D. C.

Agee, J. K., and R. L. Edmonds. 1992. Appendix F, forest protection guidelines for the northern spotted owl. Pages 419-480 in *Recovery plan for the northern spotted owl – draft.* United States Department of Interior.

Agler, B. A., S. J. Kendall, and D. B. Irons. 1998. Abundance and distribution of marbled and Kittlitz's murrelets in southcentral and southeast Alaska. *The Condor* 100: 254-265.

Ainley, D.G., Allen, S.G., and L.B. Spear. 1995. Offshore occurrence patterns of marbled murrelets in central California. Pages 361-369 in C. J. Ralph, G. L. Hunt, Jr., M. G. Raphael and J. F. Piatt, editors. *Ecology and conservation of the marbled murrelet.* General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.

Aitken, S. N., and W. J. Libby. 1994. Evolution of the pygmy-forest edaphic subspecies of *Pinus contorta* across an ecological staircase. *Evolution* 48: 1009-1019.

Alabaster, J. S., and R. Lloyd. 1982. Finely divided solids. Pages 1-20 in J. S. Alabaster and R. Lloyd, editors. *Water quality criteria for freshwater fish.* Butterworth, London.

- Alderdice, D. F., and J. R. Brett. 1957. Some effects of kraft mill effluent on young Pacific salmon. *Journal of the Fisheries Research Board of Canada* 14: 783-795.
- Alderdice, D. F., and F. P. J. Velsen. 1978. Relation between temperature and incubation time for eggs of Chinook salmon (*Oncorhynchus tshawytscha*). *Journal of the Fisheries Research Board of Canada* 35: 69-75.
- Alderdice, D. F., W. P. Wickett, and J. R. Brett. 1958. Some effects of temporary exposure to low dissolved oxygen levels on Pacific salmon eggs. *Journal of the Fisheries Research Board of Canada* 15: 229-250.
- Alfaro, R. I., and R. F. Shepard. 1991. Tree-ring growth of interior Douglas-fir after one year's defoliation by Douglas-fir tussock moth. *Forest Sciences* 37: 959-964.
- Allaye Chan-McLeod, A. C. 2003. Factors affecting the permeability of clearcuts to red-legged frogs. *Journal of Wildlife Management* 67: 663-671.
- Alexander, L. F., B. J. Verts, and T. P. Farrell. 1994. Diet of ringtails (*Bassariscus astutus*) in Oregon. *Northwestern Naturalist* 75: 97-101.
- Allen, G. H. 1958. Notes on the fecundity of silver salmon (*Oncorhynchus kisutch*). *The Progressive Fish-Culturist* 21: 163-169.
- Allen, K. R. 1969. Limitations on production in salmonid populations in streams. T. G. Northcote, editor. *Symposium on salmon and trout in streams*. H. R. MacMillan Lectures in Fisheries, University of British Columbia, Vancouver.
- Allen, M. A., and T. J. Hassler. 1986. Species profiles: life histories and environmental requirements of coastal fishes and invertebrates (Pacific Southwest)—Chinook salmon. U. S. Fish and Wildlife Service Biological Report 82 (11.49). U. S. Army Corps of Engineers.
- Allen-Diaz, B, R. Standiford, and R. D. Jackson. 2007. Oak Woodlands and Forests. Pages 313-338 in Barbour, M.G., T. Keeler-Wolf, and A.A. Schoenherr. *Terrestrial Vegetation of California*. University of California Press, Berkeley.
- Altig, R., and E. D. Brodie, Jr. 1972. Laboratory behavior of *Ascaphus truei* tadpoles. *Journal of Herpetology* 6: 21-24.
- Ambrose, J. 1998. Letter to Ken Hoffman of the United States Fish and Wildlife Service detailing marbled murrelet detections. Located at: United States Fish and Wildlife Service Office, 1125 16th Street, Arcata, California 95521.
- Amphibian Working Group. 1996. Meeting notes from 9-10 September 1996 at offices of Oregon Department of Fish and Wildlife, Roseburg. Prepared for North Umpqua Cooperative Watershed Analysis by Stillwater Sciences, Berkeley, California.
- Andersen, B. C., and D. W. Narver. 1975. Fish populations of Carnation Creek and other Barkley Sound streams - 1974: data record and progress report. *Fisheries Research Board of Canada*. MS report series: 1351-1373.

- Anderson, J. D. 1968. *Rhyacotriton* and *R. olympicus*. Catalogue of American Amphibians and Reptiles 68.1-68.2.
- Andrus, C. W., B. A. Long, and H. A. Froehlich. 1988. Woody debris and its contribution to pool formation in a coastal stream 50 years after logging. Canadian Journal of Fisheries and Aquatic Sciences 45: 2080-2086.
- Anon. 1999. Instructions for WLPZ Canopy/Surface Cover Sampling. California Department of Forestry & Fire Protection – Forest Practices. Sacramento, CA.
- Anthony, R. G., and F. B. Isaacs. 1981. Characteristics of bald eagle nest sites in Oregon. Report to Crown Zellerbach Corporation and U. S. Fish and Wildlife Service, contract No. 14-16-001-77028. 28pp.
- Anthony, R. G., R. W. Frenzel, F. B. Isaacs, and M. G. Garrett. 1994. Probable causes of nesting failures in Oregon's bald eagle population. Wildlife Society Bulletin 22: 576-582.
- Anthony, R. G., R. L. Knight, G. T. Allen, B. R. McClelland, and J. I. Hodges. 1982. Habitat use by nesting and roosting bald eagles in the Pacific Northwest. Transactions of the North American Wildlife Natural Resource Conference 47: 332-342.
- Anthony, R.G. Forsman, Franklin, Anderson, Burnham, White, Schwarz, Nichols, Hines, Olson, Ackers, Andrews, Biswell, Carlson, Diller, Dugger, Fehring, Fleming, Gerhardt, Gremel, Gutiérrez, Happe, Herter, Higley, Horn, Irwin, Loschl, Reid, Sovern. Draft 2004. Status and Trends in Demography of Northern Spotted Owls. A Draft Report to: Interagency Regional Monitoring Program, Portland, OR. April 30, 2004. 180 pp.
- AOU (American Ornithologists' Union). 1998. Check-list of North American birds. Seventh edition. American Ornithologists' Union, Washington, D. C.
- Arbib, R. 1979. The blue list for 1980. American Birds 33: 830-835.
- Armstrong, R. H. 1970. Age, food and migration of Dolly Varden smolts in southeastern Alaska. Journal of the Fisheries Research Board of Canada 27: 991-1004.
- Arnold, R. A., M. Boland, and K. H. Osborne. 1994. Lotis blue butterfly. Pages 428-429 in C. G. Thelander, editor. Life on the edge. BioSystems Books, Santa Cruz, California.
- Arora, D. 1986. Mushrooms demystified. Ten Speed Press, Berkeley, California.
- Arthur, S. M., W. B. Krohn, and J. R. Gilbert. 1989a. Habitat use and diet of fishers. Journal of Wildlife Management 53: 680-688.
- Arthur, S. M., W. B. Krohn, and J. R. Gilbert. 1989b. Home range characteristics of adult fishers. Journal of Wildlife Management 53: 674-679.
- Ashton, D. T., A. J. Lind, and K. E. Schlick. 1997. Western pond turtle (*Clemmys marmorata*) natural history. USDA Forest Service, Pacific Southwest Research Station, Redwood Sciences Laboratory, Arcata, California.

- Ashton, D. T., A. J. Lind, and K. E. Schlick. 1999. *Rana boylii* – foothill yellow-legged frog. Natural History Review. USDA Forest Service, Pacific Southwest Research Station, Redwood Sciences Laboratory, Arcata, California.
- Atkinson, A. J., P. C. Trenham, R. N. Fisher, S. A. Hathaway, B. S. Johnson, S. G. Torres, and Y. C. Moore. 2004. Designing monitoring programs in an adaptive management context for regional multiple species conservation plans. U. S. Geological Survey Technical Report. USGS Western Ecological Research Center, Sacramento.
- Aubry, K. B. 1996. Ecological characteristics of fishers in southwestern Oregon. Study plan. USDA Forest Service, Pacific Northwest Research Station, Olympia, Washington.
- Aubry, K. B. 2000. Amphibians in managed, second-growth Douglas-fir forests. *Journal of Wildlife Management* 64: 1041-1052.
- Aubry, K. B., and P. A. Hall. 1991. Terrestrial amphibian communities in the southern Washington Cascade Range. Pages 327-339 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. *Wildlife and vegetation of unmanaged Douglas-fir forests*. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Aubry, K. B., and C. M. Raley. 1993. Wildlife habitat relationships in Washington and Oregon: annual report, fiscal year 1993. Pacific Northwest Research Station, Olympia, Washington.
- Aubry, K. B., S. D. West, D. A. Manuwal, A. B. Stringer, J. L. Erickson, and S. Pearson. 1997. Wildlife use of managed forests: a landscape perspective. Volume 2: West-side studies research results. Timber/Fish/Wildlife Report No. TFW-WL4-98-002. Washington Department of Natural Resources, Olympia.
- Avery, Thomas E, and Harold E. Burkhart. 1994. *Forest Measurements*. Fourth edition. McGraw-Hill Inc., New York.
- B**
- Badura, G. J., H. A. Legard, and L. C. Meyer. 1974. Siuslaw National Forest, soil resource inventory. Doctoral dissertation. Oregon State University, Corvallis.
- Baicich, P. J., and C. J. O. Harrison. 1997. *A guide to the nests, eggs, and nestlings of North American birds*. Second edition. Natural World Academic Press, San Diego, California.
- Bailey, E.H., W. P. Irwin, and D. L. Jones. 1964. Franciscan and related rocks and their significance in the geology of western California. Bulletin No. 183. California Division of Mines and Geology.
- Baird, S. F. 1854. Descriptions of new genera and species of North American frogs. *Proceedings of the Academy of Natural Sciences of Philadelphia* 7(2):59-62.

- Baker, P., and F. Reynolds. 1986. Life history, habitat requirements, and status of coho salmon in California. California Department of Fish and Game Report to the California Fish and Game Commission.
- Baker, L. M., M. Z. Peery, E. E. Burkett, S. W. Singer, D. L. Suddjian, and S. R. Beissinger. 2006. Nesting habitat characteristics of the marbled murrelet in central California redwood forests. *Journal of Wildlife Management* 70(4): 939-946.
- Baldwin, P. H., and N. K. Zaczowski. 1963. Breeding biology of the Vaux's swift. *Condor* 65: 400-406.
- Bams, R. A. 1969. Adaptations of sockeye salmon associated with incubation in stream gravels. Pages 71-87 in T. G. Northcote, editor. *Symposium on salmon and trout in streams*. H. R. MacMillan Lectures in Fisheries, University of British Columbia, Vancouver.
- Bams, R. A. 1970. Evaluation of a revised hatchery method tested on pink and chum salmon fry. *Journal of the Fisheries Research Board of Canada* 27: 1429-1452.
- Banks, J. L., L. G. Fowler, and J. W. Elliott. 1971. Effects of rearing temperature on growth, body form, and hematology of fall chinook fingerlings. *The Progressive Fish-Culturist* 33: 20-26.
- Barbour, M.G. 2007. Closed-Cone Pine and Cypress Forests. Pages 296-312 in Barbour, M.G., T. Keeler-Wolf, and A.A. Schoenherr. *Terrestrial Vegetation of California*. University of California Press, Berkeley.
- Barbour, M. G., and J. Major, editors. 1977. *Terrestrial vegetation of California*. John Wiley & Sons, New York.
- Barbour, M. G., and J. Major, editors. 1988. *Terrestrial vegetation of California*. Special Publication No. 9. California Native Plant Society, Sacramento.
- Barnard, K., and S. McBain. 1994. Standpipe to determine permeability, dissolved oxygen, and vertical particle size distribution in salmonid spawning gravels. *Fish Habitat Relationships Technical Bulletin No. 15*. U. S. Forest Service.
- Barneby, R.C. 1957. *Astragalus agnicidus*, A new locoweed from Humboldt County, California. *Madrono* 14: 37-40.
- Barnhart, R. A. 1991. Steelhead *Oncorhynchus mykiss*. Pages 324-336 in J. Stolz and J. Schnell, editors. *The Wildlife Series: Trout*. Stackpole Books. Harrisburg, Pennsylvania.
- Barnhart, S. J., J. R. McBride, and P. Warner. 1996. Invasion of northern oak woodlands by *Pseudotsuga menziesii* (Mirb.) Franco in the Sonoma Mountains of California. *Madroño* 43:28-45.
- Barrett, J. W. 1995. *Regional silviculture of the United States*. John Wiley and Sons, New York.
- Barrett, R. T., J. U. Skaare, G. Norheim, W. Vader, and A. Frosli. 1985. Persistent organochlorines and mercury in eggs of Norwegian seabirds - 1983. *Environmental Pollution (Series A)* 39: 79-93.

- Barrows, C. W. 1981. Roost selection by spotted owls: an adaptation to heat stress. *The Condor* 83: 302-309.
- Barrows, C., and K. Barrows. 1978. Roost characteristics and behavioral thermoregulation in the spotted owl. *Western Birds* 9: 1-8.
- Barrowclough, G. F., J. G. Grouth, A. Mertz, and J. Gutierrez. 2005. Genetic structure, introgression, and a narrow hybrid zone between northern and California spotted owls (*Strix occidentalis*). *Molecular Ecology* 14: 1109-1120.
- Bartels, R., J. D. Dell, R. L. Knight, and G. Schaefer. 1985. Dead and down woody material. Pages 171-186 in E. R. Brown, editor. *Management of wildlife and fish habitats in forests of western Oregon and Washington. Part 1 in Publication No. R6 F&WL-192. USDA Forest Service.*
- Bartley, D. M., B. Bentley, P. G. Olin, and G. A. E. Gall. 1992. Population genetic structure of coho salmon (*Oncorhynchus kisutch*) in California. *California Fish and Game* 78: 88-104.
- Bartolome, James W., Mitchel P. McClaran, Barbara H. Allen-Diaz, Jim Dunne, Lawrence D. Ford, Richard B. Standiford, Neil K. McDougald, and Larry C. Forero. 2001. Effects of Fire and Browsing on Regeneration of Blue Oak . Pages 281-286 in Standiford, Richard B.; McCreary, Douglas; Purcell, Kathryn L.; technical coordinators. *Proceedings of the fifth symposium on oak woodlands: oaks in California's changing landscape. 2001 October 22-25; San Diego, CA. USDA Forest Service Gen. Tech. Rep. PSW-GTR-184. 2002.*
- Bash, J., C. Berman, and S. Bolton. 2001. Effects of Turbidity and Suspended Solids on Salmonids. Center for Streamside Studies, University of Washington.
- Bawcom, J. 2003. Clearcutting and slope stability, preliminary findings, Jackson Demonstration State Forest, Mendocino County, California. S. L. Coope, compiler. *Proceedings of the 24th Annual Forest Vegetation Management Conference: moving forward by looking back. January 14-16, 2003. University of California, Shasta County Cooperative Extension, Redding, California.*
- Beacham, T. D. 1982. Fecundity of coho salmon (*Oncorhynchus kisutch*) and chum salmon (*O. keta*) in the northeast Pacific Ocean. *Canadian Journal of Zoology* 60: 1463-1469.
- Beacham, T. D. 1986. Type, quantity, and size of food of Pacific salmon (*Oncorhynchus*) in the Strait of Juan de Fuca, British Columbia. *Fishery Bulletin* 84: 77-89.
- Beacham, T. D., and C. B. Murray. 1990. Temperature, egg size, and development of embryos and alevins of five species of Pacific salmon: a comparative analysis. *Transactions of the American Fisheries Society* 119: 927-945.
- Beacham, T. D., and C. B. Murray. 1993. Fecundity and egg size variation in North American Pacific salmon (*Oncorhynchus*). *Journal of Fish Biology* 42: 485-508.
- Beauchamp, W. D., F. Cooke, C. Loughheed, L. W. Loughheed, C. J. Ralph, and S. Courteney. 1999. Seasonal movements of marbled murrelets: evidence from banded birds. *The Condor* 101: 671-674.



- Becker, C. D. 1973. Food and growth parameters of juvenile chinook salmon, *Oncorhynchus tshawytscha*, in central Columbia River. Fishery Bulletin 71: 387-400.
- Becker, B. H. and S. R. Beissinger. 2006. Centennial decline in the tropic level of an endangered seabird after fisheries decline. Conservation Biology 20(2) 470-479.
- Bee, J. W., G. E. Glass, R. S. Hoffmann, and R. R. Patterson. 1981. Mammals in Kansas. Museum of Natural History Publication Education Series, University of Kansas Publications 7: 1-300.
- Beechie, T. J. 1998. Rates and pathways of recovery for sediment supply and woody debris recruitment in northwestern Washington streams, and implications for salmonid habitat restoration. Ph.D., University of Washington.
- Beechie, T. J., and T. H. Sibley. 1997. Relationships between channel characteristics, woody debris, and fish habitat in northwestern Washington streams. Transactions of the American Fisheries Society 126: 217-229.
- Behnke, R. J. 1992. Native trout of western North America. American Fisheries Society, Bethesda, Maryland.
- Bell, M. C., editor. 1973. Fisheries handbook of engineering requirements and biological criteria. Contract DACW57-68-C-0086. Fisheries-Engineering Research Program, U. S. Army Corps of Engineers, North Pacific Division, Portland, Oregon.
- Bell, M. C., editor. 1986. Fisheries handbook of engineering requirements and biological criteria. Fisheries-Engineering Research Program, U. S. Army Corps of Engineers, North Pacific Division, Portland, Oregon, NTIS AD/A167-877.
- Bell, M. C., editor. 1991. Fisheries handbook of engineering requirements and biological criteria. Fish Passage Development and Evaluation Program, U. S. Army Corps of Engineers, North Pacific Division, Portland, Oregon.
- Bellrose, F. C. 1980. Ducks, geese, and swans of North America. Third edition. Stackpole Books, Harrisburg, Pennsylvania.
- Belluomini, L. 1980. Status of the ringtail in California. California Fish and Game, Nongame Wildlife Investigations 3.
- Benda, L., C. Veldhuisen, D., Miller, and L. R. Miller. 1998. Slope instability and forest land managers, a primer and field guide. Earth Systems Institute, Seattle, WA.
- Benda, L., and T. Dunne. 1997. Stochastic forcing of sediment supply to channel networks by landsliding and debris flow. Water Resources Research 33: 2849-2864.
- Benda, L. E., P. Bigelow, and T. M. Worsley. 2002. Recruitment of wood to streams in old-growth and second-growth redwood forests, northern California, U.S.A. Canadian Journal of Forestry 32: 1460-1477.

- Bencie, R. 1997. Genetic variation and inbreeding depression in the rare California endemic, *Astragalus agnicidus* (Leguminosae). Master's thesis. Humboldt State University, Arcata, California.
- Bent, A. C. 1940. Life histories of North American cuckoos, goatsuckers, hummingbirds, and their allies. U. S. National Museum Bulletin 191.
- Berbach, M., P. Cafferata, T. Robards, and B. Valentine. 1999. Forest canopy measurements in Watercourse and Lake Protection Zones: a literature review. Final report. California Department of Forestry and Fire Protection, Sacramento.
- Berg, K. and R. Bittman. 1988. Rediscovery of the Humboldt milk-vetch. *Fremontia* 16(1): 13-14.
- Berg, N. H., K. B. Roby, and B. J. McGurk. 1996. Cumulative watershed effects: applicability of available methodologies to the Sierra Nevada. Pages 39-78 in Sierra Nevada Ecosystem Project: final report to congress. Volume III: Assessments, commissioned reports, and background information. University of California, Center for Water and Wildland Resources, Davis.
- Berrill, M., S. Bertram, L. McGillivray, M. Kolohon, and B. Pauli. 1994. Effects of low concentrations of forest-use pesticides on frog embryos and tadpoles. *Environmental Toxicology and Chemistry* 13: 657-664.
- Berrill, M., S. Bertram, and B. Pauli. 1997. Effects of pesticides on amphibian embryos and larvae. Pages 233-245 in D. M. Green, editor. *Amphibians in decline: Canadian studies of a global program*. Herpetological Conservation No. 1.
- Beschta, R. L., and W. S. Platts. 1986. Morphological features of small streams: significance and function. *Water Resources Bulletin* 22: 369-379.
- Beschta, R. L., R. E. Bilby, G. W. Brown, L. B. Holtby, and T. D. Hofstra. 1987. Stream temperature and aquatic habitat: fisheries and forestry interactions. Pages 191-232 in E. O. Salo and T. W. Cundy, editors. *Streamside management: forestry and fishery interactions*. Contribution No. 57. College of Forest Resources, University of Washington, Seattle.
- Beschta, R. L., J. R. Boyle, C. C. Chambers, W. P. Gibson, S. V. Gregory, J. Grizzel, J. C. Hagar, J. L. Li, W. C. McComb, T. W. Parzybok, M. L. Reiter, G. H. Taylor, and J. E. Warila. 1995. Cumulative effects of forest practices in Oregon: literature and synthesis. Prepared by Oregon State University, Corvallis for the Oregon Department of Forestry, Salem.
- Beschta, R. L., M. Pyles, A. Skaugset, and C. Surfleet. 2000. Peak flow responses to forest practices in the western cascades of Oregon. *Journal of Hydrology* 233: 102-120.
- Best, C., J. T. Howell, W. Knight, I. Knight, and M. Wells. 1996. *A flora of Sonoma County*. California Native Plant Society, Sacramento, California.

Best, D. W., H. M. Kelsey, D. K. Hagans, and M. Alpert. 1995. Role of fluvial hillslope erosion and road construction in the sediment budget of Garrett Creek, Humboldt County, California. Pages M1-M9 in K. M. Nolan, H. M. Kelsey and D. C. Marron, editors. Geomorphic processes and aquatic habitat in the Redwood Creek basin, northwestern California. U. S. Geological Survey Professional Paper 1454. Washington, D. C.

Bettaso, J. B., H. H. Welsh, and B. D. Palmer. 2000. Test of an environmental model: red-legged frogs as bioindicators of endocrine-disrupting contaminants. Abstract for The Wildlife Society, California North Coast Chapter program, 16 November 2000, Humboldt State University, Arcata, California.

Bilby, R. E. 1981. Role of organic debris dams in regulating the export of dissolved and particulate matter from a forested watershed. *Ecology* 62: 1234-1243.

Bilby, R. E. 1984. Removal of woody debris may affect stream channel stability. *Journal of Forestry* 82: 609-613.

Bilby, R. E. 1985. Influence of stream size on the function and characteristics of large organic debris. Pages 1-14 in Proceedings of the west coast meeting of the National Council for Air and Stream Improvement. Technical Bulletin No. 466. National Council of the Paper Industry for Air and Stream Improvement, Portland, Oregon.

Bilby, R. E., and P. A. Bisson. 1992. Allochthonous versus autochthonous organic matter contributions to the trophic support of fish populations in clear-cut and old-growth forested streams. *Canadian Journal of Fisheries and Aquatic Sciences* 49: 540-551.

Bilby, R. E., and G. E. Likens. 1980. Importance of organic debris dams in the structure and function of stream ecosystems. *Ecology* 61: 1107-1113.

Bilby, R. E., and J. W. Ward. 1989. Changes in characteristics and function of woody debris with increasing size of streams in western Washington. *Transactions of the American Fisheries Society* 118: 368-378.

Bilby, R. E., and J. W. Ward. 1991. Characteristics and function of large woody debris in streams draining old-growth, clear-cut, and second-growth forests in southwestern Washington. *Canadian Journal of Fisheries and Aquatic Sciences* 48: 2499-2508.

Bilton, H. T., D. F. Alderdice, and J. T. Schnute. 1982. Influence of time and size at release of juvenile coho salmon (*Oncorhynchus kisutch*) on returns at maturity. *Canadian Journal of Fisheries and Aquatic Sciences* 39: 426-447.

Binford, L. C., B. G. Elliot, and S. W. Singer. 1975. Discovery of a nest and downy young of the marbled murrelet. *Wilson Bulletin* 87: 303-319.

Bingham, B. B., and Jr. J. O. Sawyer. 1992. Canopy structure and tree condition of young, mature and old-growth Douglas-fir/hardwood forests. Pages 141-149 in R. R. Harris and D. E. Erman, technical editors and H. M. Kerner, editor. Proceedings of Symposium on Biodiversity of Northwestern California. Santa Rosa, California. 28-30 October 1991. Wildland Resources Center Report No. 29. University of California, , Berkeley, California.

- Bishop, D.M. and M.E. Stevens. 1964. Landslides on logged areas in southeast Alaska. U.S. Dept. of Agriculture, Forest Service, Res. Paper NOR-1, Juneau, Alaska, 18 p.
- Bisson, P. A., and J. R. Sedell. 1984. Salmonid populations in streams in clear-cut vs. old-growth forests of western Washington. Pages 121-129 in W. R. Meehan, T. R. Merrell, Jr., and T. A. Hanley, editors. Fish and wildlife relationships in old-growth forests. American Institute of Fishery Research Biologists, Juneau, Alaska.
- Bisson, P. A., B. A. Rieman, C. Luce, P. F. Hessburg, D. C. Lee, J. Kershner, G. H. Reeves, and R. E. Gresswell. 2003. Fire and aquatic ecosystems: current knowledge and key questions. *Forest Ecology and Management* 178 213-229.
- Bisson, P. A., R. E. Bilby, M. D. Bryant, C. A. Dolloff, G. B. Grette, R. A. House, M. L. Murphy, K. V. Koski, and J. R. Sedell. 1987. Large woody debris in forested streams in the Pacific Northwest: past, present, and future. Pages 143-190 in E. O. Salo and T. W. Cundy, editors. *Streamside management: forestry and fishery interactions*. College of Forest Resources, University of Washington.
- Bisson, P., J. L. Nielsen, R. A. Palmason, and L. E. Grove. 1982. A system of naming habitat types in small streams, with examples of habitat utilization by salmonids during low streamflows. Pages 62-73 in N. B. Armantrout, editor. *Proceedings of the symposium on acquisition and utilization of aquatic habitat inventory information*. American Fisheries Society, Western Division, Bethesda, Maryland.
- Bisson, P. A., J. L. Nielson, and J. W. Ward. 1985. Experimental release of coho salmon (*Oncorhynchus kisutch*) into a stream impacted by Mount Saint Helens volcano. *Proceedings of the Western Association of Fish and Wildlife Agencies* 1984: 422-435.
- Bisson, P. A., K. Sullivan, and J. L. Nielsen. 1988. Channel hydraulics, habitat use, and body form of juvenile coho salmon, steelhead trout, and cutthroat trout in streams. *Transactions of the American Fisheries Society* 117: 262-273.
- Biswell, H. 1989. *Prescribed burning in California wildlands vegetation management*. University of California Press, Berkeley.
- Bittman, R. 2001. The California Natural Diversity Database: a natural heritage program for rare species and vegetation. *Fremontia* 29: 57-63.
- Bjorkstedt E. P. 2005. DARR 2.0: updated software for estimating abundance from stratified mark-recapture data.. U.S. Department Commerce, NOAA Technical Memorandum NMFSSWFSC-368, 13 p.
- Bjornn, T. C. 1971. Trout and salmon movements in two Idaho streams as related to temperature, food, stream flow, cover, and population density. *Transactions of the American Fisheries Society* 100: 423-438.
- Bjornn, T. C., M. A. Brusven, M. P. Molnau, J. H. Milligan, R. A. Klamt, E. Chacho, and C. Schaye. 1977. Transport of granitic sediment in streams and its effects on insects and fish. Research Technical Completion Report, Project B-036-IDA. Prepared by University of Idaho (Moscow) for Office of Water Research and Technology, U. S. Department of the Interior, Washington, D.C.

- Bjornn, T. C., and D. W. Reiser. 1991. Habitat requirements of salmonids in streams. Pages 83-138 in W. R. Meehan, editor. Influences of forest and rangeland management on salmonid fishes and their habitats. American Fisheries Society Special Publication No. 19, Bethesda, Maryland.
- Blakesley, J. A., A. B. Franklin, and R. J. Gutiérrez. 1992. Spotted owl roost and nest site selection in northwestern California. *Journal of Wildlife Management* 56(2): 388-392.
- Blanchfield, P. J., and M. S. Ridgway. 1996. Use of seepage meters to measure groundwater flow at brook trout redds. *Transactions of the American Fisheries Society* 125: 813-818.
- Blaustein, A. R., J. J. Beatty, D. H. Olson, and R. M. Storm. 1995. The biology of amphibians and reptiles in old-growth forests in the Pacific Northwest. General Technical Report PNW-GTR-337. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Blaustein, A. R., P. D. Hoffman, D. G. Hokit, J. M. Kiesecker, S. C. Walls, and J. B. Hays. 1994. UV repair and resistance to solar UV-B in amphibian eggs: a link to population declines? *Proceedings of the National Academy of Sciences* 91: 1791-1795.
- BLM (U.S. Department of the Interior, Bureau of Land Management). 1996. Red tree vole – interim survey protocol. Accessed on the internet March 2002 at <http://www.or.blm.gov/surveyandmanage/SP/RedTreeVole/sp-redtr.htm>
- BLM. 2001. North fork Coquille watershed analysis. Chapter 10: Species and habitat: botany. Coos Bay District, North Bend, Oregon. Accessed on the internet at [http://www.or.blm.gov/coosbay/nfca10\\_bot.pdf](http://www.or.blm.gov/coosbay/nfca10_bot.pdf)
- Boe, K. N. 1966. Windfall after experimental cuttings in old-growth redwood. *Proceedings of the Society of American Foresters National Convention* 59-62.
- Bogart, J. P., E. K. Balon, and M. N. Bruton. 1994. The chromosomes of the living coelacanth and their remarkable similarity to those of one of the most ancient frogs. *Journal of Heredity* 85: 322-325.
- Bolsinger, C. L., and K. L. Waddell. 1993. Area of old-growth forests in California, Oregon, and Washington. U.S. Forest Service Research Bulletin PNW-RB-197. Pacific Northwest Research Station, Portland, Oreg. 26 pp.
- Borisenko, A.N. and M.P. Hayes. 1999. Status of the foothill yellow-legged frog (*Rana boylei*) in Oregon. Final report prepared for The Nature Conservancy under contract to the U.S. Fish and Wildlife Service.
- Bormann, F. H., and G. E. Likens. 1979. Pattern and process in a forested ecosystem. Springer-Verlag, New York.
- Born, J. W. 1968. Osmoregulatory capacities of two Caridean shrimps, *Syncaris pacifica* (Aided) and *Palaemon macrodactylus* (Paleomonida). *Biological Bulletin* 134: 235-244.
- Bossard, C.C., J.M. Randall, and M. Hoshovsky (eds.). 2000. Invasive Plants of California's Wildlands. University of California Press, Berkeley, CA.

- Bottom, D. L., T. E. Nickelson, and S. L. Johnson. 1986. Research and development of Oregon's coastal salmon stocks: coho salmon model. Annual Progress Report AFC-127. Oregon Department of Fish and Wildlife, Portland, Oregon.
- Bowlby, C. E. 1981. Feeding behavior of pinnipeds in the Klamath River, Northern California. Master's thesis. Humboldt State University, Arcata, California.
- Boyce, W., C. Kreuder, R. Anderson, and C. Barker. 2004. Potential impacts of West Nile virus on wildlife in California. Unpublished report. University of California Wildlife Health Center. <http://www.vetmed.ucdavis.edu/whc/pdfs/wnvreport.pdf>. Accessed on 14 July 2004.
- Brattstrom, B. H. 1963. A preliminary review of the thermal requirements of amphibians. *Ecology* 44: 238-255.
- Braudrick, C. A., and G. E. Grant. 2000. When do logs move in rivers? *Water Resources Research* 36: 571-583.
- Braudrick, C. A., G. E. Grant, Y. Ishikawa, and H. Ikeda. 1997. Dynamics of wood transport in streams: a flume experiment. *Earth Surface Processes and Landforms* 22: 669-683.
- Brawn, J.D., and R.P. Balda. 1988. Population biology of cavity nesters in northern Arizona: Do nest sites limit breeding densities? *Condor* 90: 61-71.
- Brett, J. R. 1952. Temperature tolerance in young Pacific salmon, genus *Oncorhynchus*. *Journal of the Fisheries Research Board of Canada* 9: 265-323.
- Brett, J. R., W. C. Clarke, and J. E. Shelbourn. 1982. Experiments on thermal requirements for growth and food conversion efficiency of juvenile chinook salmon *Oncorhynchus tshawytscha*. Canadian Technical Report of Fisheries and Aquatic Sciences 1127. Department of Fisheries and Oceans, Fisheries Research Branch, Pacific Biological Station, Nanaimo, British Columbia.
- Briggs, J. C. 1953. The behavior and reproduction of salmonid fishes in a coastal stream. *Fish Bulletin* 94. California Department of Fish and Game.
- Brill, J. 1998. History teaches that tsunamis are a threat to Alaska, Pacific Northwest. Accessed on the internet at <http://www.disasterrelief.org/Disasters/980805Pacific/>
- Broderson, J. M. 1973. Sizing buffer strips to maintain water quality. Master's thesis. University of Washington, Seattle.
- Brodeur, R. D. 1991. Ontogenetic variation in the type and size of prey consumed by juvenile coho, *Oncorhynchus kisutch*, and chinook, *O. tshawytscha*, salmon. *Environmental Biology of Fish* 30: 303-316.
- Brodeur, R. D. 1992. Factors related to variability in feeding intensity of juvenile coho salmon and chinook salmon. 104-114. *Transactions of the American Fisheries Society*.
- Brodeur, R. D., and W. G. Pearcy. 1990. Trophic relations of juvenile Pacific salmon off the Oregon and Washington coast. *Fishery Bulletin* 88: 617-636.

- Brodo, I. M., S. D. Sharnoff, and S. Sharnoff. 2001. Lichens of North America. Yale University Press, New Haven, Connecticut.
- Brosofske, K. D., J. Chen, R. J. Naiman, and J. F. Franklin. 1997. Harvesting effects on microclimatic gradients from small streams to uplands in western Washington. *Ecological Applications* 7: 1188-1200.
- Brown, B. T., and L. E. Stevens. 1997. Winter bald eagle distribution is inversely correlated with human activity along the Colorado River, Arizona. *Journal of Raptor Research* 31: 7-10.
- Brown, B. Power Calculator. Accessed on the internet 4 April 2006 at: <http://calculators.stat.ucla.edu/powercalc/>
- Brown, C. R. 1981. The impact of starlings on purple martin populations in unmanaged colonies. *American Birds* 35: 266-268.
- Brown, C. R. 1997. Purple martin *Progne subis*. Page 287 in A. Poole and F. Gill, editors. *The birds of North America*. The Academy of Natural Sciences, Philadelphia, Pennsylvania and The American Ornithologists' Union, Washington, D. C.
- Brown, E. R. 1985. Management of wildlife and fish habitats in forests of western Oregon and Washington. Part 2: Appendices. Publication No. R6-F&WL-192-1985. USDA Forest Service, Pacific Northwest Region 6, Portland, Oregon.
- Brown, G. W., and J. T. Krygier. 1970. Effects of clear-cutting on stream temperature. *Water Resources Research* 6: 1133-1139.
- Brown, G. W., and J. T. Krygier. 1971. Clear-cut logging and sediment production in the Oregon Coast Range. *Water Resources Research* 7: 1189-1198.
- Brown, H. A. 1975a. Temperature and development of the tailed frog, *Ascaphus truei*. *Comparative Biochemistry and Physiology* 50A: 397-405.
- Brown, H. A. 1975b. Reproduction and development of the red-legged frog, *Rana aurora*, in northwestern Washington. *Northwest Science* 49: 241-252. [as cited in Jennings and Hayes 1994]
- Brown, H. A. 1977. Oxygen consumption of a large, cold-adapted frog egg (*Ascaphus truei*, Amphibia: Ascaphidae). *Canadian Journal of Zoology* 55: 343-348.
- Brown, H. A. 1989. Developmental anatomy of the tailed frog (*Ascaphus truei*): a primitive frog with large eggs and slow development. *Journal of Zoology (London)* 217: 525-537.
- Brown, H. A. 1990. Morphological variation and age-class determination in overwintering tadpoles of the tailed frog, *Ascaphus truei*. *Journal of Zoology (London)* 220: 171-184.
- Brown, L. R., and P. B. Moyle. 1981. The impact of squawfish on salmonid populations: a review. *North American Journal of Fisheries Management* 1: 104-111.
- Brown, L. R., P. B. Moyle, and R. M. Yoshiyama. 1994. Historical decline and current status of coho salmon in California. *North American Journal of Fisheries Management* 14: 237-261.

- Brown, P. M., and W. T. Baxter. 2003. Fire history in coast redwood forests of the Mendocino Coast, California. *Northwest Science* 77: 147-158.
- Brownell, N. F., W. M. Kier, and M. L. Reber. 1999. Historical and current presence and absence of coho salmon, *Oncorhynchus kisutch*, in the northern California portion of the Southern Oregon-Northern California evolutionary [sic] significant unit. Prepared for National Marine Fisheries Service, Southwest Fisheries Science Center by Kier Associates, Sausalito, California.
- Brungs, W. A., and B. R. Jones. 1977. Temperature criteria for freshwater fish: protocol and procedures. EPA-600/3-77-061. U. S. Environmental Protection Agency, Duluth, Minnesota.
- Brush, T. 1983. Cavity use by secondary cavity-nesting birds and response to manipulations. *Condor* 85: 461-466.
- Bryant, G. J. 1994. Status review of coho salmon populations in Scott and Waddell creeks, Santa Cruz County, California. National Marine Fisheries Service, Southwest Region, Protected Species Management Division, Santa Rosa, California.
- Bryant, M. D. 1980. Evolution of large, organic debris after timber harvest: Maybeso Creek, 1949 to 1978. General Technical Report PNW-101. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station.
- Bryant, M. D. 1982. Organic debris in salmonid habitat in southeast Alaska: measurement and effects. Pages 259-265 in Acquisition and utilization of aquatic habitat inventory information. American Fisheries Society, Western Division.
- Buchanan, J. B. 1991. Spotted owl nest site characteristics in mixed conifer forests of the eastern Cascades, Washington. Master's thesis. University of Washington, Seattle.
- Buchanan, J. B., L. L. Irwin, and E. L. McCutchen. 1993. Characteristics of spotted owl nest trees in the Wenatchee National Forest. *Journal of Raptor Research* 27: 1-7.
- Buck, S. G. 1982. Habitat utilization by fisher (*Martes pennanti*) near Big Bar, California. Master's thesis. Humboldt State University, Arcata, California.
- Buck, S. G., C. Mullis, and A. S. Mossman. 1983. Final report: Corral Bottom-Hayfork Bally fisher study. USDA Forest Service, Pacific Southwest Region, San Francisco, California.
- Buck, S. G., C. Mullis, A. S. Mossman, I. Show, and C. Collahan. 1994. Habitat use by fishers in adjoining heavily and lightly harvested forest. Pages 368-376 in S. W. Buskirk, A. S. Harestad, M. G. Raphael and R. A. Powell, editors. *Martens, sables, and fishers: biology and conservation*. Cornell University Press, Ithaca, New York.
- Bugert, R. M. 1985. Microhabitat selection of juvenile salmonids in response to stream cover alteration and predation. Master's thesis. University of Idaho, Moscow.
- Bugert, R. M., and T. C. Bjornn. 1991. Habitat use by steelhead and coho salmon and their responses to predators and cover in laboratory streams. *Transactions of the American Fisheries Society* 120: 486-493.



- Bugert, R. M., T. C. Bjornn, and W. R. Meehan. 1991. Summer habitat use by young salmonids and their responses to cover and predators in a small southeast Alaska stream. *Transactions of the American Fisheries Society* 120: 474-485.
- Buhl, K. J., and S. J. Hamilton. 2000. Acute toxicity of fire-control chemicals, nitrogenous chemicals, and surfactants to rainbow trout. *Transactions of the American Fisheries Society* 129: 408-418.
- Bulger, J. B., N. J. Scott Jr., and R. B. Seymour. 2003. Terrestrial activity and conservation of adult California red-legged frogs *Rana aurora draytonii* in coastal forests and grasslands. *Biological Conservation* 110: 85-95.
- Bull, E. L. 1981. How woodpeckers select and partition their habitat in northeastern Oregon. Doctoral dissertation. University of Idaho, Moscow.
- Bull, E. L. 1987. Ecology of pileated woodpecker in northeastern Oregon. *Journal of Wildlife Management* 51: 472-481.
- Bull, E. L. 1991. Summer roosts and roosting behavior of Vaux's swifts in old-growth forests. *Northwest Naturalist* 72: 78-82.
- Bull, E. L. and R. C. Beckwith. 1993. Diet and foraging behavior of Vaux's swifts in northeastern Oregon. *Condor* 95: 1016-1023.
- Bull, E. L., and A. K. Blumton. 1997. Roosting behavior of postfledging Vaux's swifts in northeastern Oregon. *Journal of Field Ornithology* 68: 302-305.
- Bull, E. L., and B. E. Carter. 1996. Tailed frogs: distribution, ecology, and association with timber harvest in northeastern Oregon. Research Paper PNW-497. USDA Forest Service, Pacific Northwest Research Station, La Grande, Oregon.
- Bull, E. L., and C. T. Collins. 1993. Vaux's swift *Chaetura vauxi*. Pages No. 77 in A. Poole and F. Gill, editors. *The birds of North America*. The Academy of Natural Sciences, Philadelphia, Pennsylvania and The American Ornithologists' Union, Washington, D. C.
- Bull, E. L., and E. C. Meslow. 1977. Habitat requirements of the pileated woodpecker in northeastern Oregon. *Journal of Forestry* 1977: 335-337.
- Bull, E. L., and E. C. Meslow. 1988. Breeding biology of the pileated woodpecker: management implications. Research Note PNW-RN-474. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Bull, E. L., and H. D. Cooper. 1991. Vaux's swift nests in hollow trees. *Western Birds* 22: 85-91.
- Bull, E. L., and J. E. Hohmann. 1993. The association between Vaux's swifts and old growth forests in northeastern Oregon. *Western Birds* 24: 38-42.
- Bull, E. L., and R. S. Holthausen. 1993. Habitat use and management of pileated woodpeckers in northeastern Oregon. *Journal of Wildlife Management* 57: 335-345.

- Bull, E. L., and J. A. Jackson. 1995. Pileated woodpecker (*Dryocopus pileatus*). Page No. 148 in A. Poole and F. Gill, editors. The birds of North America. The Academy of Natural Sciences, Philadelphia, Pennsylvania and The American Ornithologists' Union, Washington, D. C.
- Bull, E. L., R. S. Holthausen, and M. G. Henjum. 1992. Roost trees used by pileated woodpeckers in northeastern Oregon. *Journal of Wildlife Management* 56: 786-793.
- Bull, E. L., C. G. Parks, and T. R. Torgersen. 1997. Trees and logs important to wildlife in the interior Columbia River basin. General Technical Report PNW-GTR-391. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Bunnell, F. L. and A. C. Chan-McCleod. 1997. Terrestrial vertebrates. Pages 103-130 in P. K. Schoonmaker, B. von Hagen, and E. C. Wolf, editors. The rainforests of home: profile of a North American bioregion. Island Press, Washington D.C.
- Burger, A. E. 1995. Inland habitat associations of marbled murrelets in British Columbia. Pages 151-161 in Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152, C. J. Ralph, G. L. H. Jr., M. G. Raphael and J. F. Piatt, editors. USDA Forest Service, Pacific Southwest Research Station, Albany, California.
- Burgner, R. L. 1991. Life history of sockeye salmon (*Oncorhynchus nerka*). Pages 3-117 in C. Groot and L. Margolis, editors. Pacific salmon life histories. University of British Columbia Press, Vancouver, British Columbia.
- Burner, C. J. 1951. Characteristics of spawning nests of Columbia River salmon. *U. S. Fish and Wildlife Service Fishery Bulletin* 52: 97-110.
- Burns, J. H. 1971. The carrying capacity for juvenile salmonids in some northern California streams. *California Fish and Game* 57: 44-57.
- Burns, J. W. 1972. Some effects of logging and associated road construction on northern California streams. *Transactions of the American Fisheries Society* 101(1): 1-17.
- Burns, R. M., technical compiler. 1983. Silvicultural systems for the major forest types in the United States. *Agricultural Handbook* 445. U. S. Department of Agriculture, Washington, D. C.
- Burridge, B., editor. 1995. Sonoma County breeding bird atlas: detailed maps and accounts for our nesting birds. Madrone Audubon Society, Santa Rosa, California.
- Bury, R. B. 1968. The distribution of *Ascaphus truei* in California. *Herpetologica* 24: 39-46.
- Bury, R. B. 1970. Food similarities in the tailed frog, *Ascaphus truei*, and the Olympic salamander, *Rhyacotriton olympicus*. *Copeia* 1970: 170-171.
- 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. Pages 61-76 in K. J. Raedeke, editor. *Streamside management: riparian wildlife and forestry interactions*. Institute of Forest Resources Contribution No. 59. University of Washington, College of Forest Resources, Seattle.

Bury, R.B. and D.J. Major. 2000. Amphibian survey protocol for headwater streams. Pages 15-17 in Bury, R. B. and M. J. Adams, editors. Inventory and monitoring of amphibians in North Cascades and Olympic National Parks, 1995-1998. U.S. Department of the Interior, U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center.

Bury, R. B., and M. J. Adams. 1999. Variation in age at metamorphosis across a latitudinal gradient for the tailed frog, *Ascaphus truei*. *Herpetologica* 55: 283-291.

Bury, R. B. and M. J. Adams, editors. 2000. Inventory and monitoring of amphibians in North Cascades and Olympic National Parks, 1995-1998. U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center.

Bury, R. B., and M. Martin. 1967. The food of the salamander *Rhyacotriton olympicus*. *Copeia* 1967: 487.

Bury, R. B., and P. S. Corn. 1988. Responses of aquatic and streamside amphibians to timber harvest: a review. Pages 165-181 in K. J. Raedeke, editor. Streamside management, riparian wildlife and forestry interactions. Institute of Forest Resources Contribution No. 59. University of Washington, College of Forest Resources, Seattle.

Bury, R. B., and P. S. Corn. 1991. Sampling methods for amphibians in streams in the Pacific Northwest. General Technical Report PNW-GTR-275. USDA Forest Service, Pacific Northwest Research Station, Oregon.

Bury, R. B., P. S. Corn, K. B. Aubry, F. F. Gilbert, and L. L. C. Jones. 1991a. Aquatic amphibian communities in Oregon and Washington. Pages 353-362 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.

Bury, R. B., P. S. Corn, and K. B. Aubry. 1991b. Regional patterns of terrestrial amphibian communities in Oregon and Washington. Pages 341-350 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.

Bush, G., C. Mc Connel, C. Cloyd, K. Musser, and R. Metzger. 1997. Assessment of the effects of the 1996 flood on the Siuslaw National Forest. USDA, Siuslaw National Forest, Corvallis, Oregon.

Buskirk, S. W., and R. A. Powell. 1994. Habitat ecology of fishers and American martens. Pages 283-296 in S. W. Buskirk, A. S. Harestad, M. G. Raphael and R. A. Powell, editors. Martens, sables, and fishers: biology and conservation. Cornell University Press, Ithaca, New York.

Buskirk, S. W., and L. F. Ruggiero. 1994. American marten. Pages 7-37 in L. F. Ruggiero, K. B. Aubry, S. W. Buskirk, L. J. Lyon and W. J. Zielinski, editors. The scientific basis for conserving forest carnivores: American marten, fisher, lynx, and wolverine in the western United States. General Technical Report RM-254. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado.

Bustard, D. R., and D. W. Narver. 1975a. Aspects of the winter ecology of juvenile coho salmon (*Oncorhynchus kisutch*) and steelhead trout (*Salmo gairdneri*). *Journal of the Fisheries Research Board of Canada* 32: 667-680.

Bustard, D. R., and D. W. Narver. 1975b. Preferences of juvenile coho salmon (*Oncorhynchus kisutch*) and cutthroat trout (*Salmo clarki*) relative to simulated alteration of winter habitat. *Journal of the Fisheries Research Board of Canada* 32: 681-687.

## C

Cafferata, P. 1990. Temperature regimes of small streams along the Mendocino coast. *Jackson Demonstration State Forest Newsletter* 39: 1-4. California Department of Forestry and Fire Protection, Fort Bragg.

Cafferata, P. 1991. South Fork Noyo River temperature study--1991. Above and below Noyo 1985 clearcut (effective WLPZ shading reduced 14 percent). *Jackson Demonstration State Forest*, California Department of Forestry and Fire Protection, Fort Bragg.

Cafferata, P. 1992. Soil compaction research. Pages 8-22 in A. Skaugset, editor. *Forest soils and riparian zone management: the contributions of Dr. Henry A. Froelich to forestry*. Oregon State University, Corvallis.

Cafferata, P., and F. Yee. 1991. A comparison of techniques to control sprouting hardwoods on harsh sites in western Mendocino County. *California Forestry Note* No. 105.

Cafferata, P. H., and T. E. Spittler. 1998. Logging impacts of the 1970's vs. the 1990's in the Caspar Creek watershed. Pages 103-115 in R. R. Ziemer, editor. *Proceedings of the conference on coastal watersheds: the Caspar Creek story*. General Technical Report PSW-GTR-168. USDA Forest Service, Pacific Southwest Research Station, Albany, California.

Cafferata, P., T. Spittler, M. Wopat, G. Bundros, and S. Flanagan. 2004. Designing watercourse crossings for passage of 100-year floods flows, wood and sediment. *California Forestry Report* No. 1. California Department of Forestry and Fire Protection, Sacramento.

Calef, G. W. 1973. Natural mortality of tadpoles in a population of *Rana aurora*. *Ecology* 54: 741-758.

CalFlora: Information on California plants for education, research, conservation. 2005. The CalFlora Database, Berkeley, California. Accessed on the internet at: <http://www.calflora.org/>

California Department of Fish and Game. 2003. *The Vegetation Classification and Mapping Program. List of Terrestrial Natural Communities Recognized by The California Natural Diversity Database (September 2003 Edition)*. Prepared by the Wildlife and Habitat Data Analysis Branch.

California Department of Fish and Game. 2007. *The Vegetation Classification and Mapping Program. List of California Vegetation Alliances. (October 22, 2007 Edition)*. Prepared by the Wildlife and Habitat Data Analysis Branch.

- California Department of Food and Agriculture. 2004. List of noxious weeds. <http://pi.cdfa.ca.gov/weedinfo>.
- Cal-IPC (California Invasive Plant Council). 2006. California invasive plant inventory.
- Call, M. W. 1978. Nesting habits and survey techniques for common western raptors. Technical Note No. 316. U. S. Bureau of Land Management, Portland, Oregon.
- Callas, R. 1987. Ringtail (*Bassariscus astutus*) den and habitat use in northwestern California. Master's thesis. Humboldt State University, Arcata, California.
- CalPIF (California Partners in Flight). 2000. The draft coastal scrub and chaparral bird conservation plan: a strategy for protecting and managing coastal scrub and chaparral habitats and associated birds in California (J. Lovio, lead author). Version 1.0. Accessed on the internet at <http://www.prbo.org/CPIF/Consplan.html>. Point Reyes Bird Observatory, Stinson Beach, California.
- CalPIF (California Partners in Flight). 2002. Version 2.0. The oak woodland bird conservation plan: a strategy for protecting and managing oak woodland habitats and associated birds in California (S. Zack, lead author). Point Reyes Bird Observatory, Stinson Beach, California. <http://www.prbo.org/calpif/plans.html>
- Camp, C. 1918. Excavations of burrows of the rodent *Aplodontia* with observations on the habits of the animal. University of California Publication in Zoology 17: 517-535.
- Campbell, R. W., N. K. Dawe, I. McTaggart-Cowan, J. M. Cooper, G. W. Kaiser, and M. C. E. McNall. 1990. The birds of British Columbia. Volume 1. Royal British Columbia Museum and Canadian Wildlife Service.
- Canaris, A., and D. Bowers. 1992. Metazoan parasites of the mountain beaver, *Aplodontia rufa* (Rodentia: Aplodontidae), from Washington and Oregon, with a checklist of parasites. Journal of Parasitology 78: 904-906.
- Cannatella, D. C., and D. M. Hillis. 1993. Amphibian relationships: phylogenetic analysis of morphology and molecules. Herpetological Monographs 7: 1-7.
- Capula, M. 1989. Simon & Schuster's guide to reptiles and amphibians of the world. Simon & Schuster, New York.
- Carey, A. B. 1989. Wildlife associated with old-growth forests in the Pacific Northwest. Natural Areas Journal 9: 151-162.
- Carey, A. B. 1991. The biology of arboreal rodents in Douglas-fir forests. M. H. Huff, R. S. Holthausen and K. B. Aubry, editors. Biology and management of old-growth forests. General Technical Report PNW-GTR-276. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Carey, A. B. 1995. Sciurids in Pacific Northwest managed and old-growth forests. Ecological Applications 5: 648-661.

Carey, A. B., and M. L. Johnson. 1995. Small mammals in managed, naturally young, and old-growth forests. *Ecological Applications* 5: 336-352.

Carey, A. B., M. M. Hardt, S. P. Horton, and B. L. Biswell. 1991. Spring bird communities in the Oregon Coast Ranges. Pages 123-144 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. *Wildlife and vegetation of unmanaged Douglas-fir forests*. General Technical Report PNW-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.

Carey, A. B., S. P. Courtney, J. F. Franklin, J. M. Marzluff, M. G. Raphael, J. C. Tappeiner, and D. A. Thornburgh. 2003. Managing second-growth forests in the redwood region to enhance marbled murrelet habitat. Scientific panel on restoration of marbled murrelet habitat. Sustainable Ecosystems Institute. 60 pp.

Carey, A. B., S. P. Horton, and B. L. Biswell. 1992. Northern spotted owls: influence of prey base and landscape character. *Ecological Monographs* 62: 223-250.

Carroll, C., W. J. Zielinski, and R. F. Noss. 1999. Using presence-absence data to build and test spatial habitat models for the fisher in the Klamath Region, U.S.A. *Conservation Biology* 13: 1344-1359.

Carter, H. R., and R. A. Erickson. 1988. Population status and conservation problems of the marbled murrelet in California, 1892-1987. Final Report. Prepared by Point Reyes Bird Observatory, Stinson Beach, California for Nongame Bird and Mammal Section, California Department of Fish and Game, Sacramento.

Carter, H. R., and R. A. Erickson. 1992. Status and conservation of the marbled murrelet in California, 1892-1987. In H. R. Carter and M. L. Morrison, editors. *Status and conservation of the marbled murrelet in North America*. Proceedings of the Western Foundation of Vertebrate Zoology 5: 92-108.

Carter, H.R., J. D. L. McChesney, C. S. Strong, M. W. Parker, J. E. Takekawa, D. L. Jory, and D.L. Whitworth. 1992. A Breeding populations of seabirds in California, 1989-1991. Final draft report. U. S. Fish and Wildlife Service, Northern Prairie Wildlife Research Center, Dixon, California.

Cato, P. 2002. *Neotoma* species. San Diego Natural History Museum field guide (online edition). Accessed on the internet at <http://www.sdnhm.org/fieldguide/mammals/neot-lep.html>

CBC (Center for Biological Diversity). 2000. Status review of the southern Sierra Nevada population of the fisher (*Martes pennanti*). Accessed on the internet April 2002 at <http://www.biologicaldiversity.org/swcbd/papers/fisher.html>

CDC (Centers for Disease Control and Prevention). 2003a. Epidemic/epizootic West Nile virus in the United States; guidelines for surveillance, prevention, and control. CDC, National Center for Infectious Diseases, Fort Collins, Colorado.

CDC (Centers for Disease Control and Prevention). 2003b. West Nile virus vertebrate ecology. CDC website <http://www.cdc.gov/ncidod/dvbid/westnile/birds&mammals.htm>

CDF (California Department of Forestry and Fire Protection). 2006. California forest practice rules. Title 14, California Code of Regulations, Chapters 4, 4.5 and 10. Prepared for California

Licensed Timber Operators and California Registered Professional Foresters by California Department of Forestry and Fire Protection, Resource Management, Forest Practice Program, Sacramento.

CDF (California Department of Forestry and Fire Protection). 2007. California forest practice rules. Title 14, California Code of Regulations. Subchapter 1, Article 1. Prepared for California Licensed Timber Operators and California Registered Professional Foresters by California Department of Forestry and Fire Protection, Resource Management, Forest Practice Program, Sacramento.

CDF (California Department of Forestry and Fire Protection). 2001. Jackson Demonstration State Forest management plan. Draft report. CDF, The Resources Agency, Sacramento, California. [http://www.fire.ca.gov/ResourceManagement/pdf/jdsf\\_mgtplan\\_master.PDF](http://www.fire.ca.gov/ResourceManagement/pdf/jdsf_mgtplan_master.PDF).

CDF, IFR., and NFWF (California Department of Forestry and Fire Protection, Institute for Fisheries Resources, and National Fish and Wildlife Foundation). 2000. KRIS Noyo, Sacramento, California. Accessed on the internet at: <http://www.krisweb.com/index.htm>

CDFG (California Department of Fish and Game). 1965. California fish and wildlife plan. California Department of Fish and Game, Sacramento, California.

CDFG. 1991. Sport fishing for anadromous salmonid fishes. California Department of Fish and Game draft environmental/satellite document. August 1991.

CDFG. 1992a. Letter to U. S. Fish and Wildlife Service, dated 2 March. As cited in: USFWS (U. S. Fish and Wildlife Service). 1995. Draft recovery plan for the threatened marbled murrelet (*Brachyramphus marmoratus*) in Washington, Oregon, and California. Portland, Oregon.

CDFG. 1992b. Annual report on the status of California state listed threatened and endangered animals and plants. Sacramento.

CDFG. 1994. Petition to the Board of Forestry to list coho salmon (*Oncorhynchus kisutch*) as a sensitive species. Presented to the California Board of Forestry on January 4, 1994.

CDFG. 1996a. California Natural Diversity Database. Natural Heritage Division, Sacramento

CDFG. 1996b. Electrofishing survey conducted by Scott Harris, under the direction of Weldon Jones for the following streams: Little North Fork Big River, Berry Gulch and Railroad Gulch, Caspar Creek, Chamberlain Creek, James Creek, Hare Creek, South Fork Noyo River, North Fork and Parlin Creek. Partial fulfillment of Contract No. 8CA94027.

CDFG. 1996c. 1996 Wildlife monitoring on Jackson Demonstration State Forest. Prepared by CDFG, Yountville for California Department of Forestry and Fire Protection, Fort Bragg.

CDFG. 1996d. The status of rare, threatened, and endangered animals and plants of California. Combined Annual Report for 1993, 1994, and 1995 (an addendum to the 1992 Annual Report).

CDFG. 1996e. California Wildlife Habitat Relationships database. Version 6.0. CDFG, Sacramento.

CDFG. 1997a. Unpublished stream survey data. CDFG, Yountville.

- CDFG. 1997b. Annual report on the status of endangered, threatened, and candidate species. California Fish and Game Commission, Sacramento.
- CDFG. 1997c. 1997 Wildlife monitoring on Jackson Demonstration State Forest. Prepared by CDFG, Yountville for California Department of Forestry and Fire Protection, Fort Bragg.
- CDFG. 1998a. 1998 Wildlife monitoring on Jackson Demonstration State Forest. Prepared by CDFG, Yountville for California Department of Forestry and Fire Protection, Fort Bragg.
- CDFG. 1998b. California Stream Restoration Manual. Third Edition. Sacramento, CA.
- CDFG. 2000a. Guidelines for assessing the effects of proposed projects on rare, threatened and endangered plants and natural communities. May 8, 2000. Accessed on the internet at: <http://www.dfg.ca.gov/whdab/pdfs/guideplt.pdf>.
- CDFG. 2000b. The status of rare, threatened, and endangered animals and plants in California: American peregrine falcon. Accessed on the internet May 2002 at [http://www.dfg.ca.gov/hcpb/species/jsp/ssc\\_result.jsp?specy=birds&query=Falco%20peregrine.html](http://www.dfg.ca.gov/hcpb/species/jsp/ssc_result.jsp?specy=birds&query=Falco%20peregrine.html). CDFG, Habitat Conservation Planning Branch, Sacramento.
- CDFG. 2001. Annual report on the status of endangered, threatened, and candidate species. California Fish and Game Commission, Sacramento.
- CDFG. 2002. Report on the status of north coast semaphore grass *Pleuropogon hooverianus* (L. Benson) J.T. Howell. California Fish and Game Commission, Sacramento.
- CDFG. 2005. Special vascular plants, bryophytes and lichens list. California Natural Diversity Database. Accessed at: [www.dfg.ca.gov/whdab/pdfs/spplants.pdf](http://www.dfg.ca.gov/whdab/pdfs/spplants.pdf). October 2005
- CDFG. 2006. Special vascular plants, bryophytes and lichens list. California Natural Diversity Database. Accessed at: [www.dfg.ca.gov/whdab/pdfs/spplants.pdf](http://www.dfg.ca.gov/whdab/pdfs/spplants.pdf). January 2006.
- CDFG. 2009. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities. November 24, 2009. Accessed on the internet [http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/Protocols\\_for\\_Surveying\\_and\\_Evaluating\\_Impacts](http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/Protocols_for_Surveying_and_Evaluating_Impacts)
- CDFG. 2010. Special Vascular Plants, Bryophytes, and Lichens List. April 2011. <http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/SPPlants.pdf>
- CDWR. 2002a. Background – droughts in California. Accessed on the internet at <http://watersupplyconditions.water.ca.gov/background.htm>
- CDWR (California Department of Water Resources). 2002b. California water plan – update 2003. Access at on the internet at <http://www.waterplan.water.ca.gov/b160/indexb160.html>
- Cederholm, C. J. 1994. A suggested landscape approach for salmon and wildlife habitat protection in western Washington riparian ecosystems. Pages 78-90 in A. B. Carey and C. Elliott, editors. Washington Forest Landscape Management Project--Progress Report No. 1. Washington Department of Natural Resources, Olympia.



- Cederholm, C. J., and W. J. Scarlett. 1982. Seasonal immigrations of juvenile salmonids into four small tributaries of the Clearwater River, Washington, 1977-1981. Pages 98-110 in E. L. Brannon and E. O. Salo, editors. Proceedings of the salmon and trout migratory behavior symposium. School of Fisheries, University of Washington, Seattle.
- Cederholm, C. J., and N. P. Peterson. 1985. The retention of coho salmon (*Oncorhynchus kisutch*) carcasses by organic debris in small streams. Canadian Journal of Fisheries and Aquatic Sciences 42: 1222-1225.
- Cederholm, C. J., L. M. Reid, and E. O. Salo. 1981. Cumulative effects of logging road sediment on salmonid populations in the Clearwater River, Jefferson County, Washington. Pages 38-74 in Salmon-spawning gravel: A renewable resource in the Pacific Northwest? Report No. 39. State of Washington Water Research Center, Washington State University, Pullman, and the University of Washington, Seattle.
- Cederholm, C. J., W. J. Scarlett, and N. P. Peterson. 1988. Low-cost enhancement technique for winter habitat of juvenile coho salmon. North American Journal of Fisheries Management 8: 438-441.
- Center, G. S., B. R. Casler, and A. B. Carey. 1991. Woodrat abundance in forests of the southern Oregon Coast Range. Page 528 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Chamberlin, T. W., R. D. Harr, and F. H. Everest. 1991. Timber harvesting, silviculture, and watershed processes. Pages 181-205 in W. R. Meehan, editor. Influences of forest and rangeland management on salmonid fishes and their habitats. Special Publication No. 19. American Fisheries Society, Bethesda, Maryland.
- Chambers, C. L., T. Carrigan, and W. C. McComb. 1997. Use of artificially created Douglas-fir snags by cavity-nesting birds. Western Journal of Applied Forestry 12: 93-97.
- Chambers, J. S., R. T. Pressey, J. R. Donaldson, and W. R. McKinley. 1954. Research relating to study of spawning grounds in natural areas. Annual Report, Contract No. DA 35026-Eng-20572. Prepared by Washington State Department of Fisheries (Olympia) for U. S. Army Corps of Engineers, Fisheries-Engineering Research Program, North Pacific Division (Portland, OR).
- Chan, S. 1993. Regeneration of coastal riparian areas: second year tree performance. Coastal Oregon Productivity Enhancement Program 6: 4-6.
- Chang, M. 2003. Forest hydrology: an introduction to water and forests. CRC Press LLC. Boca Raton, Florida.
- Channell, R., and M. V. Lomolino. 2000. Dynamic biogeography and conservation of endangered species. Nature 403: 84-86.
- Chapman, D.W. 1958. Studies on the life history of Alsea River steelhead. Journal of Wildlife Management 22(2): 123-134.
- Chapman, D. W. 1962. Aggressive behavior in juvenile coho salmon as a cause of emigration. Journal of the Fisheries Research Board of Canada 19: 1047-1080.

- Chapman, D. W. 1965. Net production of juvenile coho salmon in three Oregon streams. *Transactions of the American Fisheries Society* 94: 40-52.
- Chapman, D. W. 1966. Food and space as regulators of salmonid populations in streams. *The American Naturalist* 100: 345-357.
- Chapman, D. W. 1988. Critical review of variables used to define effects of fines in redds of large salmonids. *Transactions of the American Fisheries Society* 117: 1-21.
- Chapman, D. W., and T. C. Bjornn. 1969. Distribution of salmonids in streams with special reference to food and feeding. Pages 153-176 in T. G. Northcote, editor. *Symposium on salmon and trout in streams*. H. R. MacMillan Lectures in Fisheries, University of British Columbia, Vancouver.
- Chapman, D. W., and E. Knudsen. 1980. Channelization and livestock impacts on salmonid habitat and biomass in western Washington. *Transactions of the American Fisheries Society* 109: 357-363.
- Chapman, D. W., and K. P. McLeod. 1987. Development of criteria for fine sediment in the Northern Rockies ecoregion. Final Report EPA 919/587-162. U. S. Environmental Protection Agency, Water Division.
- Chatwin, S. C., D. E. Howes, J. W. Schwab, and D. N. Swanson. 1994. A guide for management of landslide-prone terrain in the Pacific Northwest. Second edition. British Columbia Ministry of Forests, Research Branch, Victoria, British Columbia.
- Cheatham, N. H. and J. R., Haller. 1975. An annotated list of California habitat types. University of California Natural Land and Water Reserves System. Unpublished manuscript.
- Chen, J., J. F. Franklin, and T. S. Spies. 1995. Growing-season microclimate gradients from clearcut edges into old-growth Douglas-fir forests. *Ecological Applications* 5: 74-86.
- Chen, J., S. C. Saunders, T. R. Crow, R. J. Naiman, K. D. Brososke, G. D. Mroz, B. L. Brookshire, and J. F. Franklin. 1999. Microclimate in forest ecosystem and landscape ecology. *BioScience* 49: 288-297.
- Cherr and Griffin. 1979. Stream inventory: Mendocino County. California Department of Fish and Game.
- Chilcote, M. W., S. A. Leider, and J. J. Loch. 1986. Differential reproductive success of hatchery and wild summer-run steelhead under natural conditions. *Transactions of the American Fisheries Society* 115: 726-735.
- Chilton, G., and S. G. Sealy. 1987. Species roles in mixed-species feeding flocks of seabirds. *Journal of Field Ornithology* 58: 456-463.
- Christy, R. E., and S. D. West. 1993. Biology of bats in Douglas-fir forests. General Technical Report PNW-308. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.

- Clarke, W. C., and J. E. Shelbourn. 1981. Growth and smolting of underyearling coho salmon in relation to photoperiod and temperature. Proceedings of the North Pacific aquaculture symposium. Anchorage, Alaska.
- Clarke, W. C., and J. E. Shelbourn. 1985. Growth and development of seawater adaptability by juvenile fall chinook salmon (*Oncorhynchus tshawytscha*) in relation to temperature. Aquaculture 45: 21-31.
- Clarke, W. C., J. E. Shelbourn, and J. R. Brett. 1978. Growth and adaptation to sea water in "underyearling" sockeye (*Oncorhynchus nerka*) and coho (*O. kisutch*) salmon subjected to regimes of constant or changing temperature and day length. Canadian Journal of Zoology 56: 2413-2421.
- Clarke, W. C., J. E. Shelbourn, and J. R. Brett. 1981. Effect of artificial photoperiod cycles, temperature, and salinity on growth and smolting in underyearling coho (*Oncorhynchus kisutch*), chinook (*O. tshawytscha*), and sockeye (*O. nerka*) salmon. Aquaculture 22: 105-116.
- Claussen, D. L. 1973. The thermal relations of the tailed frog, *Ascaphus truei*, and the Pacific treefrog, *Hyla regilla*. Comparative Biochemistry and Physiology 44A: 137-153.
- Clayton, J. L., J. G. King, and R. F. Thurow. 1996. Evaluation of an ion adsorption method to estimate intragravel flow velocity in salmonid spawning gravel. North American Journal of Fisheries Management 16: 167-174.
- Clem, M. K. 1977. Food habits, weight changes, and habitat selection of fisher during winter. Master's thesis. University of Guelph, Ontario, Canada.
- CLFA (California Licensed Foresters Association). 1999. Watershed assessment workshop. CLFA, Pioneer, California.
- Cline, S. P., A. B. Berg, and H. M. Wight. 1980. Snag characteristics and dynamics in Douglas-fir forests, western Oregon. Journal of Wildlife Management 44: 773-786.
- Cloern, J. E. 1976. The survival of coho salmon (*Oncorhynchus kisutch*) eggs in two Wisconsin tributaries of Lake Michigan. The American Midland Naturalist 96: 451-461.
- CNDDDB (California Natural Diversity Database). 1997. List of California terrestrial natural communities. RareFind. California Department of Fish Game, Sacramento, California.
- CNDDDB. 2002. RareFind 2. Version 2.1.2. (September 2002 update) California Department of Fish Game, Sacramento, California.
- CNDDDB. 2004. Special Plants List. Available by mail and accessed on the internet at: <http://www.dfg.ca.gov/whdabs/pdfs/>
- CNDDDB. 2005. RareFind3. Version 3.0.5. Electronic database. California Department of Fish Game, Sacramento, California.
- CNDDDB. 2006. RareFind3. Version 3.0.5. Electronic database. California Department of Fish Game, Sacramento, California

CNPS (California Native Plant Society). 2001. Electronic inventory of rare and endangered vascular plants of California. D. P. Tibor, convening editor. Sixth edition. Rare Plant Scientific Advisory Committee, CNPS, Sacramento, California.

CNPS. 2002. Electronic inventory of rare and endangered vascular plants of California. D. P. Tibor, convening editor. Online version, sixth edition. Rare Plant Scientific Advisory Committee, California Native Plant Society, Sacramento, California. Accessed at [www.cnps.org](http://www.cnps.org)

CNPS. 2004. Electronic inventory of rare and endangered plants of California. Version 6.3, online edition. CNPS, Sacramento, California. Available at: <http://www.cnps.org/inventory>.

CNPS. 2005. Electronic inventory of rare and endangered plants of California. Version 6.3, online edition. CNPS, Sacramento, California. Available at: <http://www.cnps.org/inventory>.

CNPS. 2006. Inventory of rare and endangered plants of California. Version 6.3 online edition. CNPS, Sacramento California. Available at: <http://www.cnps.org/inventory>.

Coble, D. W. 1961. Influence of water exchange and dissolved oxygen in redds on survival of steelhead trout embryos. Transactions of the American Fisheries Society 90: 469-474.

Cochram, D. M., and C. J. Goin. 1970. The new field book of reptiles and amphibians. G. P. Putnam's Sons, New York. [as cited in USFWS 1980]

Coder, K. D. 1999. Drought damage to trees. Accessed on the internet at <http://www.forestry.uga.edu/warnell/service/library/for99-010/index.html>

Colborn, T., and C. Clement, editors. 1992. Chemically induced alterations in sexual and functional development: the wildlife/human collection. Princeton Scientific Publishing, Princeton, New Jersey.

Colborn, T., F. S. Vom Saal, and A. M. Soto. 1993. Developmental effects of endocrine-disrupting chemicals in wildlife and humans. Environmental Health Perspectives 101: 378-384.

Cole, E. C., W. C. McComb, M. Newton, C. L. Chambers, and J. P. Leeming. 1997. Response of amphibians to clearcutting, burning, and glyphosate application in the Oregon Coast Range. Journal of Wildlife Management 61: 656-664.

Combs, B. D. 1965. Effect of temperature on the development of salmon eggs. The Progressive Fish-Culturist 27: 134-137.

Combs, B. D., and R. E. Burrows. 1957. Threshold temperatures for the normal development of chinook salmon eggs. The Progressive Fish-Culturist 19: 3-6.

Conner, R. N., R. G. Hooper, H. S. Crawford, and H. S. Mosby. 1975. Woodpecker nesting habitat in cut and uncut woodlands in Virginia. Journal of Wildlife Management 39: 144-150.

Consortium of California Herbaria. 2010. *Juncus supinformis*. Accessed on April 14, 2010 at [http://ucjeps.berkeley.edu/cgi-bin/get\\_consor.pl?county=Mendocino&taxon\\_name=Juncus+supinformis&](http://ucjeps.berkeley.edu/cgi-bin/get_consor.pl?county=Mendocino&taxon_name=Juncus+supinformis&).

- Conte, F. P., H. H. Wagner, J. Fessler, and C. Gnose. 1966. Development of osmotic and ionic regulation in juvenile coho salmon (*Oncorhynchus kisutch*). *Comparative Biochemistry and Physiology* 18: 1-15.
- Cook, J. G., T. W. Stutzman, C. W. Bowers, K. A. Brenner, and L. L. Irwin. 1995. Spherical densiometers produce biased estimates of forest canopy cover. *Wildlife Society Bulletin* 23:111-117.
- Cook, R. D. and J. O. Jacobson. 1979. A design for estimating visibility bias in aerial surveys. *Biometrics* 35:735-742.
- Cooper, A. C. 1965. The effect of transported stream sediments on the survival of sockeye and pink salmon eggs and alevin. *Bulletin 18. International Pacific Salmon Fisheries Commission, New Westminster, British Columbia, Canada.*
- Cooperrider, A., R. F. Noss, H. H. Welsh, J. R. C. Carroll, W. Zielinski, D. Olson, S. K. Nelson, and B. G. Marcot. 2000. Chapter 5. Terrestrial fauna of redwood forests. R. F. Noss, editor. *The redwood forest. Island Press, Washington D. C.*
- Coots, M. 1973. A study of juvenile steelhead, *Salmo gairdneri* Richardson, in San Gregorio Creek and lagoon, San Mateo County, 1971. *Anadromous Fisheries Branch Administrative Report 73-4. California Department of Fish and Game, Region 3.*
- Corn, P. S., and R. B. Bury. 1986. Habitat use and terrestrial activity by red tree voles (*Arborimus longicaudus*) in Oregon. *Journal of Mammalogy* 67: 404-406.
- Corn, P. S., and R. B. Bury. 1989. Logging in western Oregon: responses of headwater habitats and stream amphibians. *Forest Ecology and Management* 29: 35-57.
- Corn, P. S., and R. B. Bury. 1991a. Terrestrial amphibian communities in the Oregon Coast Range. Pages 305-317 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. *Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.*
- Corn, P. S., and R. B. Bury. 1991b. Small mammal communities in the Oregon Coast Range. Pages 241-254 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. *Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.*
- Cota, D., and C. Papke. 1994. Marbled murrelet surveys in Mendocino County. Final report. Prepared by Resource Management Associates, Napa for Jackson Demonstration State Forest, California Department of Forestry and Fire Protection, Fort Bragg, California.
- Coulter, M. W. 1966. Ecology and management of fishers in Maine. Doctoral dissertation. Syracuse University, Syracuse, New York.
- Courtney, S. P., T. Grubba, W. Beattie, and D. M. Brosnan. 1996. Seabird surveys in Puget Sound, 1995. Report of Sustainable Ecosystems Institute, Portland, Oregon.

Courtney, S.P., J.A. Blakesley, R.E. Bigley, M.L. Cody, J.P. Dumbacher, R.C. Fleischer, A.B. Franklin, J.F. Franklin, R.J. Gutiérrez, J.M. Marzluff, and L. Sztukowski. 2004. Scientific evaluation of the status of the northern spotted owl. Sustainable Ecosystems Institute, Portland, Oregon.

Cox, W. 2000. California freshwater shrimp (*Syncaris pacifica*). Prepared for workshop on freshwater shrimp. California Department of Fish and Game, Yountville.

Cox, B., K. H. Osborne, and L. Serpa. 1994. California freshwater shrimp. Pages 408-409 in C. G. Thelander and M. Crabtree, editors. Life on the edge: a guide to California's endangered natural resources: wildlife. Biosystems Books, Santa Cruz, California.

Cramer, S. P., D. W. Alley, J. E. Baldrige, K. Barnard, D. B. Demko, D. H. Dettman, B. Farrell, J. Hagar, T. P. Keegan, A. Laird, W. T. Mitchell, R. C. Nuzum, R. Orton, J. J. Smith, T. L. Taylor, P. A. Unger, and E. S. Van Dyke. 1995. The status of steelhead populations in California in regards to the Endangered Species Act. Special report submitted to National Marine Fisheries Service on behalf of Association of California Water Agencies. S. P. Cramer & Associates, Gresham, Oregon.

Crisafulli, C. M., and C. P. Hawkins. 1998. Ecosystem recovery following catastrophic disturbance: lessons learned from Mount St. Helens. M. J. Mac, P. A. Opler, C. E. Puckett-Haecker and P. D. Doran, editors. Status and trends of the nation's biological resources. U. S. Geological Survey, Reston, Virginia.

Crone, R. A., and C. E. Bond. 1976. Life history of coho salmon, *Oncorhynchus kisutch*, in Sashin Creek, southeastern Alaska. Fishery Bulletin 74: 897-923.

Crouse, M. R., C. A. Callahan, K. W. Malueg, and S. E. Dominguez. 1981. Effects of fine sediments on growth of juvenile coho salmon in laboratory streams. Transactions of the American Fisheries Society 110: 281-286.

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

Cruden, D. M., and D. J. Varnes. 1996. Landslide types and processes. Pages 36-75 in Landslides investigation and mitigation. Special Report 247. Transportation Research Board, Washington, D. C.

Cury, P. 1994. Obstinate nature: an ecology of individuals. Thoughts on reproductive behavior and biodiversity. Canadian Journal of Fisheries and Aquatic Sciences 51: 1664-1673.

## D

Dahlgren, R. A. 1998. Effects of forest harvest on stream-water quality and nitrogen cycling in the Caspar Creek watershed. Pages 45-53 in R. R. Ziemer, editor. Proceedings of the conference on coastal watersheds: the Caspar Creek story. General Technical Report PSW-GTR-168. USDA Forest Service, Pacific Southwest Research Station, Albany, California.

- Dambacher, J. M. 1991. Distribution, abundance, and emigration of juvenile steelhead (*Oncorhynchus mykiss*), and analysis of stream habitat in the Steamboat Creek basin, Oregon. Master's thesis. Oregon State University, Corvallis.
- Darcy, H. 1856. *Les Fontaines publiques de la ville de Dijon*. V. Dalmont. Paris.
- Dark, S. J. 1997. A landscape-scale analysis of mammalian carnivore distribution and habitat use by fisher. Master's thesis. Humboldt State University, Arcata, California.
- Dark, S. J., R. J. Gutiérrez, and G. I. Gould, Jr. 1998. The barred owl (*Strix varia*) invasion in California. *The Auk* 115: 50-56.
- Daugherty, C. H., and A. L. Sheldon. 1982a. Age-specific movement patterns of the frog *Ascaphus truei*. *Herpetologica* 38: 468-474.
- Daugherty, C. H., and A. L. Sheldon. 1982b. Age-determination, growth, and life history of a Montana population of the tailed frog (*Ascaphus truei*). *Herpetologica* 38: 461-468.
- Davidson, C. 1993. *Rana aurora* - red-legged frog. University of California, Davis. Accessed at <http://ice.ucdavis.edu/Toads/aurora.html>.
- Davidson, C., H. B. Shaffer, and M. R. Jennings. 2001. Declines of the California red-legged frog: climate, UV-B, habitat, and pesticides hypotheses. *Ecological Applications* 11: 464-479.
- Davidson, F. A., and S. J. Hutchinson. 1938. The geographic and environmental limitations of the Pacific salmon (genus *Oncorhynchus*). *Bulletin of the Bureau of Fisheries (U. S.)* 48: 667-692.
- Davis, J. C. 1975. Minimal dissolved oxygen requirements of aquatic life with emphasis on Canadian species: a review. *Journal of the Fisheries Research Board of Canada* 32: 2295-2332.
- Davis, G. E., J. Foster, C. E. Warren, and P. Doudoroff. 1963. The influence of oxygen concentration on the swimming performance of juvenile Pacific salmon at various temperatures. *Transactions of the American Fisheries Society* 92: 111-124.
- Dawson, T. E. 1996. The use of fog precipitation by plants in coastal redwood forests. Pages 90-93 in J. LeBlanc, editor. *Proceedings of the conference on coast redwood forest ecology and management*. University of California, Cooperative Extension, Forestry.
- Dawson, W. L. 1923. *The birds of California*. South Moulton Company, San Diego, California.
- Delaney, D. K., T. G. Grubb, and P. Beier. 1999. Activity patterns of nesting Mexican spotted owls. *The Condor* 101: 42-49.
- Department of Conservation. 1998. Review of report "Sediment source investigation and sediment reduction plan for the Bear Creek Watershed, Humboldt County, California". California Department of Conservation, Division of Mines and Geology Memorandum. 9 September 1992.
- De Santo, T.L., and S.K. Nelson. 1995. Comparative reproductive ecology of the Auks (Family Alcidae) with emphasis on the marbled murrelet. Pages 33-47 in C. J. Ralph, G. L. Hunt, Jr., M.

- G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.
- DeSilva, K. H. G. M. 1988. Studies on atyidae (Decapoda, Caridea) of Sri Lanka. Aspects of the population ecology of *Carotene simony* Bouvier, 1904. *Crustaceana* 54: 85-103.
- Detrich, P. J. 1986. The status and distribution of the bald eagle in California. Master's thesis. California State University, Chico.
- de Vlaming, V. L., and R. B. Bury. 1970. Thermal selection in tadpoles of the tailed frog, *Ascaphus truei*. *Journal of Herpetology* 4: 179-189.
- deVos, A. 1952. Ecology and management of fisher and marten in Ontario, Ontario Department of Lands and Forests, Technical Bulletin, Wildlife Service 1.
- DeVries, P. E. 2000. Scour in low gradient streams: patterns, processes, and implications for the survival of salmonid embryos. Doctoral dissertation. University of Washington, Seattle.
- Dietrich, W. E., and D. R. Montgomery. 1998. SHALSTAB: a digital terrain model for mapping shallow landslide potential. Prepared for publication as a technical report by NCASI.
- Dietrich, W. E., R. Real de Asua, J. Coyle, B. K. Orr, and M. Trso. 1998. A validation study of the shallow slope stability model, SHALSTAB, in forested lands of northern California. Prepared for Louisiana-Pacific Corporation by Department of Geology and Geophysics, University of California, Berkeley and Stillwater Ecosystem, Watershed & Riverine Sciences, Berkeley, California.
- Dietrich, W. E., C. J. Wilson, and S. L. Reneau. 1986. Hollows, colluvium and landslides in soil-mantled landscapes. Pages 361-388 in A. Abrahams, editor. Hillslope processes. Sixteenth Annual Geomorphology Symposium, Allen and Unwin, Ltd.
- Diller, L. V. 1996. Wildlife of the redwood region. Pages 46-47 in J. LeBlanc, editor. Proceedings of the conference on coast redwood forest ecology and management. University of California, Cooperative Extension, Forestry.
- Diller, L. V. and D. M. Thome. 1999. Population density of northern spotted owls in managed young-growth forests in coastal northern California. *Journal of Raptor Research* 33(4): 275-286.
- Diller, L. V., and R. L. Wallace. 1996. Distribution and habitat of *Rhyacotriton variegatus* in managed, young growth forests in north coastal California. *Journal of Herpetology* 30: 184-191.
- Diller, L. V., and R. L. Wallace. 1999. Distribution and habitat of *Ascaphus truei* in streams on managed, young growth forests in north coastal California. *Journal of Herpetology*. 33 (1):71-79.
- Dodd, C. K. 2003. Monitoring amphibians in Great Smoky Mountains National Park. U.S. Geological Survey Circular 1258.
- Doell, J. 2004. The saga of *Usnea longissima* in California. *Bulletin of the California Lichen Society* 11: 37-44.



- Dolloff, C. A. 1983. The relationships of wood debris to juvenile salmonid production and microhabitat selection in small southeast Alaska streams. Doctoral dissertation. Montana State University, Bozeman.
- Dolloff, C. A. 1986. Effects of stream cleaning on juvenile coho salmon and Dolly Varden in southeast Alaska. *Transactions of the American Fisheries Society* 115: 743-755.
- Dolloff, C. A., and G. H. Reeves. 1990. Microhabitat partitioning among stream-dwelling juvenile coho salmon, *Oncorhynchus kisutch*, and Dolly Varden, *Salvelinus malma*. *Canadian Journal of Fisheries and Aquatic Sciences* 47: 2297-2306.
- Dominguez, L. G., and C. J. Cederholm. 2000. Rehabilitating stream channels using large woody debris with considerations for salmonid life history and fluvial geomorphic processes. Pages 545-563 in E. E. Knudsen, C. R. Steward, D. D. MacDonald, J. E. Williams and D. W. Reiser, editors. *Sustainable fisheries management: Pacific salmon*. Lewis Publishers, New York.
- Donaldson, J. R. 1955. Experimental studies on the survival of the early stages of chinook salmon after varying exposures to upper lethal temperatures. Master's thesis. University of Washington, Seattle.
- Doubledee, R. A., E. B. Muller, and R. M. Nisbet. 2003. Bullfrogs, disturbance regimes, and the persistence of California red-legged frogs. *Journal of Wildlife Management* 67: 424-438.
- Drost, C. A., and G. M. Fellers. 1996. Collapse of a regional frog fauna in the Yosemite area of the California Sierra Nevada, USA. *Conservation Biology* 10: 414-425.
- Doudoroff, P., and C.E. Warren. 1965. Environmental requirements of fishes and wildlife--dissolved oxygen requirements of fishes. Pages 145-155 in *Biological problems in water pollution*, 3rd seminar 1962. PHS Publ. 999-WP-23, Special Report 141. Oregon Agricultural Experiment Station, Oregon State University, Corvallis.
- Douglas, C. W., and M. A. Strickland. 1987. Fisher. Pages 511-529 in Novak, M., J. A. Baker, M. E. Obbard, and B. Malloch, editors. *Wild furbearer management and conservation in North America*. Ontario Ministry of Natural Resources and the Ontario Trappers Association.
- Driscoll, J. 2000. Owls found in unlikely habitat. *The Times Standard*, Eureka, California. 5 August 2000. Accessed July 30, 2002 at [www.simpson.com/info.cfm?act=display&article=33](http://www.simpson.com/info.cfm?act=display&article=33)
- Drucker, B. 1972. Some life history characteristics of coho salmon of the Karluk River system, Kodiak Island, Alaska. *Fisheries Bulletin* 70: 79-94.
- Duellman, W. E. and L. Trueb. 1986. *Biology of the amphibians*. McGraw-Hill Publishing Company. New York, NY. 670 pp.
- Dugger, K. M., F. Wagner, R. G. Anthony, and G. S. Olson. 2005. The relationship between habitat characteristics and demographic performance of northern spotted owls in southern Oregon. *The Condor* 107: 863-878.
- Duncan, S. H. 1986. Peak stream discharge during thirty years of sustained yield timber management in two fifth order watersheds in Washington state. *Northwest Science* 60: 258-264.

- Dunlap, D. G. 1955. Inter- and intraspecific variation in Oregon frogs of the genus *Rana*. The American Midland Naturalist 54: 314-331.
- Dunne, T., and L. B. Leopold. 1978. Water in environmental planning. W. H. Freeman and Company, San Francisco.
- Dunne, T., J. Agee, S. Beissinger, W. Dietrich, D. Gray, M. Power, V. Resh, and K. Rodrigues. 2001. A scientific basis for the prediction of cumulative watershed effects. Report No. 46. Wildland Resources Center, Division of Agriculture and Natural Resources, University of California, Berkeley.
- Dupuis, L. A. 1999. Status report on the tailed frog, *Ascaphus truei*, in Canada. COSEWIC report.
- Dupuis, L. A., and P. A. Friele. 1996. Riparian management and the tailed frog. Interim report. Prince Rupert Forest Region, Ministry of Forests, British Columbia, Victoria.
- Dupuis, L., and D. Steventon. 1999. Riparian management and the tailed frog in northern coastal forests. Forest Ecology and Management 124: 35-43.
- Dupuis, L., and K. Wilson. 1999. Status, distribution, and management needs of the tailed frog in the east Kootenays. Unpublished report. British Columbia Ministry of Environment, Lands, and Parks, Nelson.
- Dupuis, L. A., F. L. Bunnell, and P. A. Friele. 2000. Determinants of the tailed frog's range in British Columbia, Canada. Northwest Science 74: 109-115.
- Dzieciolowski, R.M, C. M. H. Clarke, and C. M. Framptom. 1992. Reproductive characteristics of feral pigs in New Zealand. Acta Theologica. 37: 259-270.

## E

- Earle, R. D. 1978. The fisher-porcupine relationship in upper Michigan. Master's thesis. Michigan Technical University, Houghton.
- Eddy, R. M. 1972. The influence of dissolved oxygen concentration and temperature on survival and growth of chinook salmon embryos and fry. Master's thesis. Oregon State University, Corvallis.
- Edmonds, R. L., editor. 1982. Analysis of coniferous forest ecosystems in the western United States. Hutchinson Ross.
- Ehrlich, P. R., D. S. Dobkin, and D. Wheye. 1988. The birder's handbook: a field guide to the natural history of North American birds. Simon and Schuster, New York.
- Einstein, H. A. 1968. Deposition of suspended particles in a gravel bed. Journal of the Hydraulics Division, Proceedings of the American Society of Civil Engineers 94: 1197-1205.
- Elliott, S. T. 1986. Reduction of a Dolly Varden population and macrobenthos after removal of logging debris. Transactions of the American Fisheries Society 115: 392-400.

- Ellis, Angela E., Daniel G. Mead, Andrew B. Allison, David E. Stallknecht and Elizabeth W. Howerth. 2007. Pathology and Epidemiology of Natural West Nile Viral Infection of Raptors in Georgia.
- Elphick, C., J. B. Dunning, Jr., and D. A. Sibley. 2001. The Sibley guide to bird life and behavior. Chanticleer Press Inc., New York.
- Elzinga, C. L., D. W. Salzer, and J. W. Willoughby. 1998. Measuring and monitoring plant populations. BLM Technical Reference 1730-1. Prepared by Alderspring Ecological Consulting, Tendoy, Idaho, The Nature Conservancy of Oregon, Portland, and USDI Bureau of Land Management, California State Office, Sacramento.
- Emlen, J. M., R. R. Reisenbichler, A. M. McGie, and T. E. Nickelson. 1990. Density-dependence at sea for coho salmon (*Oncorhynchus kisutch*). Canadian Journal of Fisheries and Aquatic Sciences 47: 1765-1772.
- Eng, L. L. 1981. Distribution, life history and status of the California freshwater shrimp, *Syncaris pacifica*. Special Publication 81-1. California Department of Fish and Game, Inland Fisheries Division, Endangered Species Program, Sacramento.
- Eng, L. L. 1984. Rare, threatened and endangered invertebrates in California riparian systems. R. E. Warner and K. M. Hendrix, editors. California riparian systems: ecology, conservation, and productive management. University of California Press, Berkeley.
- Erman, D. C., J. D. Newbold, and K. B. Roby. 1977. Evaluation of streamside buffer strips for protecting aquatic organisms. Contribution 165. Water Resources Center, University of California, Davis.
- Erskine, A. J., and W. D. McLaren. 1972. Sapsuckers nest holes and their use by other species. Canadian Field-Naturalist 86: 357-361.
- Esser, L. L. 1994. *Cupressus goveniana*. In: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (2003 January), Fire Effects Information System (online version). Accessed at [www.fs.fed.us/database/feis/](http://www.fs.fed.us/database/feis/) [February 2003].
- Evans Mack, D., W. P. Ritchie, S. K. Nelson, E. Kuo-Harrison, P. Harrison, and T. E. Hamer. 2003. Methods for surveying marbled murrelets in forests: a revised protocol for land management and research. Pacific Seabird Group Technical Publication Number 2. Prepared for the Pacific Seabird Group, Marbled Murrelet Technical Committee. 6 January. <http://www.pacificseabirdgroup.org>.
- Everest, F. H. 1973. Ecology and management of summer steelhead in the Rogue River. Fishery Research Report 7. Oregon State Game Commission, Corvallis.
- Everest, F. H., and D. W. Chapman. 1972. Habitat selection and spatial interaction by juvenile chinook salmon and steelhead trout in two Idaho streams. Journal of the Fisheries Research Board of Canada 29: 91-100.
- Everest, F. H., and W. R. Meehan. 1981. Forest management and anadromous fish habitat productivity. Transactions of the North American Wildlife and Natural Resources Conference 46: 521-530.

- Everest, F. H., F. B. Lotspeich, and W. R. Meehan. 1981. New perspectives on sampling, analysis, and interpretation of spawning gravel quality. Pages 325-331 in N. B. Armantrout, editor. Acquisition and utilization of aquatic habitat information.
- Everest, F. H., N. B. Armantrout, S. M. Keller, W. D. Parante, J. R. Sedell, T. E. Nickelson, J. M. Johnston, and G. N. Haugen. 1985. Salmonids. Pages 199-230 in Management of wildlife and fish habitats in forests of western Oregon and Washington. Part 1—Chapter narratives, E. R. Brown, editor. USDA Forest Service, Portland, Oregon.
- Everest, F. H., G. H. Reeves, J. R. Sedell, and D. B. Hohler. 1987. The effects of habitat enhancement on steelhead trout and coho salmon smolt production, habitat utilization, and habitat availability in Fish Creek, Oregon, 1983-86. Annual Report 1986, Contract DE-A179-BP16726, Project 84-11. Prepared for Bonneville Power Administration, Portland, Oregon.
- Everest, F. H., G. H. Reeves, J. R. Sedell, J. Wolfe, D. Hohler, and D. A. Heller. 1986. Abundance, behavior, and habitat utilization by coho salmon and steelhead trout in Fish Creek, Oregon, as influenced by habitat enhancement. Annual Report 1985 Project No. 84-11. Prepared by U. S. Forest Service for Bonneville Power Administration, Portland, Oregon.
- Everest, F. H., G. H. Reeves, and J. R. Sedell. 1988. Changes in habitat and populations of steelhead trout, coho salmon, and chinook salmon in Fish Creek, Oregon, 1983-1987, as related to habitat improvement. Annual Report. Prepared by U. S. Forest Service for Bonneville Power Administration, Portland, Oregon.
- Ewins, P. J. 1997. Osprey (*Pandion haliaetus*) populations in forested areas of North America: changes, their causes, and management recommendations. Journal of Raptor Research 31: 138-150.
- F**
- Facchin, A., and P. A. Slaney. 1977. Management implications of substrate utilization during summer by juvenile steelhead (*Salmo gairdneri*) in the South Alouette River. Fisheries Technical Circular 32. British Columbia Fish and Wildlife Bureau.
- Falk, D. A., and K. E. Holsinger. 1991. Genetics and conservation of rare plants. Oxford University Press, New York.
- Falk, D. A., C. I. Millar, and M. Olwell, editors. 1996. Restoring diversity. Island Press, Washington, D. C.
- Fast, D. E., Q. J. Stober, S. C. Crumley, and E. S. Killebrew. 1982. Survival and movements of chinook and coho salmon alevins in hypoxic environments. Pages 51-60 in E. L. Brannon and E. O. Salo, editors. Proceedings of the salmon and trout migratory behavior symposium. School of Fisheries, University of Washington, Seattle.
- Fausch, K. D. 1984. Profitable stream positions for salmonids: relating specific growth rate to net energy gain. Canadian Journal of Zoology 62: 441-451.
- Fausch, K. D. 1991. Food and feeding behavior. Pages 65-82 in J. Stolz and J. Schnell, editors. Trout. Stackpole, Harrisburg, Pennsylvania.

- Fausch, K. D. 1993. Experimental analysis of microhabitat selection by juvenile steelhead (*Oncorhynchus mykiss*) and coho salmon (*O. kisutch*) in a British Columbia stream. *Canadian Journal of Fisheries and Aquatic Sciences* 50: 1198-1207.
- Fausch, K. D., and T. G. Northcote. 1992. Large woody debris and salmonid habitat in a small coastal British Columbia stream. *Canadian Journal of Fisheries and Aquatic Sciences* 49: 682-693.
- Fausch, K. D., and R. J. White. 1986. Competition among juveniles of coho salmon, brook trout, and brown trout in a laboratory stream, and implications for Great Lakes Tributaries. *Transactions of the American Fisheries Society* 115: 363-381.
- Fehring, K. E., D. Stralberg, L. Y. Pomara, N. N. Nur, D. Hatch, D. Adams, and S. Allen. 2004. Modeling landscape characteristics of northern spotted owl nest sites in coastal California. Abstract of presentation at: The Wildlife Society Western Section 2004 Annual Conference. Held at: Rohnert Park. February 24th – 28th.
- Fellers, G.M., and P. M. Kleeman. 2007. California red-legged frog (*Rana draytonii*) movement and habitat use: Implications for conservation. *Journal of Herpetology* 41(2):276-286.
- Fellers, G. M., A. E. Launer, G. Rathbun, S. Bobzien, J. Alvarez, D. Sterner, R. B. Seymour, and M. Westphal. 2001. Overwintering tadpoles in the California red-legged frog (*Rana aurora draytonii*). *Herpetological Review* 32: 156-157.
- FEMAT (Forest Ecosystem Management Assessment Team). 1993. Forest ecosystem management: an ecological, economic, and social assessment. USDA Forest Service, U. S. Fish and Wildlife Service, National Marine Fisheries Service, National Park Service, Bureau of Land Management, and Environmental Protection Agency.
- Feminella, J. W., and C. P. Hawkins. 1994. Tailed frog tadpoles differentially alter their feeding behavior in response to non-visual cues from four predators. *Journal of the North American Benthological Society* 13: 310-320.
- FERC (Federal Energy Regulatory Commission). 1993. Proposed modifications to the Lower Mokelumne River Project, California: FERC Project No. 2916-004 (Licensee: East Bay Municipal Utility District). Final Environmental Impact Statement. FERC, Division of Project Compliance and Administration, Washington, D. C.
- Fiedler, P. L. 1991. Mitigation-related transplantation, relocation and reintroduction projects involving endangered, threatened and rare plant species in California. Unpublished report. California Department of Fish and Game, Natural Heritage Division, Endangered Plant Program, Sacramento, California.
- Fiedler, P. L. 1995. Rarity in the California flora: new thoughts on old ideas. *Madrono* 42: 127-141.
- Fiksdal, A. J. 1974. A landslide survey of the Stequaleho Creek watershed. Supplement to final report FRI-UW-7404, Fisheries Research Institute, University of Washington, Seattle.

Finney, M. A. 1996. Development of fire scar cavities on old-growth coast redwood. Pages 96-98 in J. LeBlanc, editor. Proceedings of the conference on coast redwood forest ecology and management. University of California, Cooperative Extension, Forestry.

Finney, M. A., and R. E. Martin. 1991. Prescribed burning and some initial effects in youth – growth coast redwood forests of California. Pages 358-334 in Andrews, P. L., and D. F. Potts, editors. Proceedings, 11<sup>th</sup> annual conference on fire and forest meteorology; 1991 April 16-19; Missoula, MT. SAF Publication 91-04. Bethesda, MD: Society of American Foresters.

Finney, M. A., and R. E. Martin. 1992. Short fire intervals recorded by redwoods at Annadel State Park, California. *Madrono* 39: 251-262.

Fisher, R. N., and H. B. Shaffer. 1996. The decline of amphibians in California's great Central Valley. *Conservation Biology* 10: 1387-1397.

Fitch, H. S. 1936. Amphibians and reptiles of the Rogue River basin, Oregon. *American Midland Naturalist* 17: 634-652.

Fitch, H. S. 1938. *Rana boylei* in Oregon. *Copeia* 1938: 148.

Fitch, H. S. 1941. The feeding habits of California garter snakes. *California Fish and Game* 27: 2-32.

Fitts, K. 1996. Observations on use of two non-native plants by the Point Arena mountain beaver. *California Fish and Game* 82: 59-60.

Fitts, K. 2002. Introducing Point Arena mountain beaver (PAMB) *Aplodontia rufa nigra*. Unpublished report. Bioconsultant LLC, Santa Rosa, California.

Fitts, K. M., and P. T. Northen. 1991. Small mammal populations in clearcut areas of the Jackson Demonstration State Forest, Mendocino County, California. Technical Report. Prepared by Sonoma State University, Rohnert Park, California for California Department of Fish and Game, Yountville.

Flanagan, S. A., J. Ory, T. S. Ledwith, K. Moore, M. Love, and M. J. Furniss. 1998. Environmental risk assessment of road drainage structures. Final report submitted to California Department of Forestry and Fire Protection under contract agreement No. 8CA27894 with the Humboldt State University Foundation, Arcata, California.

Fleming, I. A., and M. R. Gross. 1990. Latitudinal clines: a trade-off between egg number and size in Pacific salmon. *Ecology* 71: 1-11.

Fleming, W. J., D. R. Clark Jr., and C. J. Henny. 1983. Organochlorine pesticides and PCBs: a continuing problem for the 1980s. Transactions of the 48th North American Wildlife and Natural Resources Conference 48: 187-199.

Flosi, G., S. Downie, J. Hopelain, M. Bird, R. Coey, and B. Collins. 1998. California salmonid stream habitat restoration manual. Third edition. California Department of Fish and Game, Sacramento.

- Flowers, S. 1997. Letter to Wayne S. White, U.S. Fish and Wildlife Service, Sacramento, California, commenting on draft Point Arena mountain beaver recovery plan.
- FNAEC (Flora of North America Editorial Committee). 1993. Flora of North America north of Mexico. Oxford University Press, Oxford, England.
- Fogel, R. 1995. Truffles, trees, and biodiversity. Pages 193 in E. T. LaRoe, G. S. Farris, C. E. Puckett, P. D. Doran and M. J. Mac, editors. Our living resources: a report to the nation on the distribution, abundance, and health of U. S. plants, animals, and ecosystems. U. S. Department of the Interior, National Biological Service, Washington, D. C.
- Folliard, L. B., K. P. Reese, and L. V. Diller. 2000. Landscape characteristics of northern spotted owl nest sites in managed forests of northwestern California. *Journal of Raptor Research* 34: 75-84.
- Fontaine, B.L. 1988. An evaluation of the effectiveness of instream structures for steelhead trout rearing habitat in the Steamboat Creek basin. Master's thesis. Oregon State University, Corvallis.
- Forest Stewardship Council-U.S. 2005. Revised final Pacific Coast (USA) regional forest stewardship standard. Version 9.0. Washington, D. C. Accessed on the internet at: [http://www.fscus.org/images/documents/2006\\_standards/pcwg\\_9.0\\_NTC.pdf](http://www.fscus.org/images/documents/2006_standards/pcwg_9.0_NTC.pdf).
- Ford, L. S., and D. C. Cannatella. 1993. The major clades of frogs. *Herpetological Monographs* 7: 94-117.
- Forsman, E. D. 1976. A preliminary investigation of the spotted owl in Oregon. Master's thesis. Oregon State University, Corvallis.
- Forsman, E. D., and C. Maser. 1970. Saw-whet owl preys on red tree mice. *The Murrelet* 51: 10.
- Forsman, E. D. 1983. Methods and materials for locating and studying spotted owls. General Technical Report PNW-162. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.
- Forsman, E. D., E. C. Meslow, and H. M. Wight. 1984. Distribution and biology of the spotted owl in Oregon. *Wildlife Monographs* 87: 1-64.
- Forsman, E. D., R. G. Anthony, J. A. Reid, P. J. Loschl, S. G. Sovern, M. Taylor, B. L. Biswell, A. Ellingson, E. C. Meslow, G. S. Miller, K. A. Swindle, J. A. Thraikill, F. F. Wagner, D. E. Seaman. 2002. Natal and breeding dispersal of northern spotted owls. *Wildlife Monographs* 149: 1-35.
- Fouts, D. R. 1996. Ten years helping purple martins in the Pacific Northwest. *Purple Martin Update* 7: 7-11.
- Fox, L., III. 1996. Current status and distribution of coast redwood. Pages 18-20 in J. LeBlanc, editor. Proceedings of the conference on coast redwood forest ecology and management. University of California, Cooperative Extension, Forestry.

- Franklin, A. B., D. R. Anderson, R. J. Gutiérrez, and K. P. Burnham. 2000. Climate, habitat quality, and fitness in northern spotted owl populations in northwestern California. *Ecological Monographs* 70: 539-590.
- Franklin, A. B., J. P. Ward, R. J. Gutiérrez, and G. I. Gould. 1990. Density of northern spotted owls in northwestern California. *Journal of Wildlife Management*, 54(1): 1-10.
- Franklin, A. B., R. J. Gutiérrez, B. R. Noon, and J. P. Ward, Jr. 1996. Demographic characteristics and trends of northern spotted owl populations in northwestern California. *Studies in Avian Biology* 17: 83-91.
- Franklin, A. B., R. J. Gutierrez, P. C. Carlson, and D. Pavlacky. 2002. Population ecology of the northern spotted owl (*Strix occidentalis caurina*) in Northwestern California: annual results, 2001. Contract FS/53-91S8-00-EC14. University of Minnesota.
- Franklin, A. B., P. C. Carlson, J. T. Rockeveit, K. Lewicki, M. Inmel, A. Van Lanen, H. Hereza, R. Wise, V. S. Chipani, and K. Wilson. 2010. Population ecology of the northern spotted owl (*Strix occidentalis caurina*) in Northwestern California: annual results, 2009. Contract #06-CR-11052007-173. Region 5, USDA Forest Service. Colorado State University. 22 pages.
- Franklin, J. F., F. J. Swanson, M. E. Harmon, D. A. Perry, T. A. Spies, V. H. Dale, A. McKee, W. K. Ferrell, J. E. Means, S. V. Gregory, J. D. Lattin, T. D. Schowalter, and D. Larsen. 1991. Effects of global climatic change on forests in northwestern North America. *The Northwest Environmental Journal* 7: 233-254.
- Franklin, J. F., K. Cromack Jr., W. Denison, A. McKee, C. Maser, J. Sedell, F. Swanson, and G. Juday. 1981. Ecological characteristics of old-growth Douglas-fir forests. General Technical Report PNW-118. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.
- Franklin, J. F., and R. T. T. Forman. 1987. Creating landscape patterns by forest cutting: ecological consequences and principles. *Landscape Ecology* 1: 5-18.
- Franz, R. 1970a. Egg development of the tailed frog under natural conditions. *Bulletin of the Maryland Herpetological Society* 6: 27-30.
- Franz, R. 1970b. Food of larval tailed frogs. *Bulletin of the Maryland Herpetological Society* 6: 49-51.
- Fraser, F. J., E. A. Perry, and D. T. Lightly. 1983. Big Qualicum River salmon development project. Volume 1: a biological assessment 1959-1972. Canadian Technical Report of Fisheries and Aquatic Sciences 1189. Department of Fisheries and Oceans, Fisheries Research Branch, Pacific Biological Station, Nanaimo, British Columbia.
- Fraser, J. D. 1985. The impact of human activities on bald eagle populations - a review. Pages 68-84 in J. M. Gerrard and T. M. Ingram, editors. *The bald eagle in Canada: proceedings of the 1983 Bald Eagle Days, August 18-20, 1985, Winnipeg, Manitoba.*
- Freel, M. 1991. A literature review for management of marten and fisher on national forests in California. Unpublished document. USDA Forest Service, San Francisco, California.



Freeland, H. J. 1990. Sea surface temperatures along the coast of British Columbia: regional evidence for a warming trend. *Canadian Journal of Fisheries and Aquatic Sciences* 47: 346-350.

Freisen, V. L., T. P. Birt, J. F. Piatt, R. T. Golightly, S. H. Newman, P. N. Hebert, B. C. Congdon, and G. Gissing. 2005. Population genetic structure and conservation of marbled murrelets (*Brachyramphus marmoratus*). 2005. *Conservation Genetics* 6: 607-614.

Frest, T. J., and E. J. Johannes. 1996. Additional information on certain mollusk species of special concern occurring within the range of the northern spotted owl. Deixis Consultants, Seattle, Washington.

Fritz, E. 1932. The role of fire in the redwood region. *Journal of Forestry* 29: 939-950.

Fryer, J. L., and K. S. Pilcher. 1974. Effects of temperature on diseases of salmonid fishes. Ecological Research Series EPA-660/3-73-020. Environmental Protection Agency.

Furniss, M. J., T. D. Roelofs, and C. S. Yee. 1991. Road construction and maintenance. Pages 297-323 in W. R. Meehan, editor. Influences of forest and rangeland management on salmonid fishes and their habitats. Special Publication No. 19. American Fisheries Society, Bethesda, Maryland.

Furniss, M. J., T. S. Ledwith, M. A. Love, B. C. McFadin, and S. A. Flanagan. 1998. Response of road-stream crossings to large flood events in Washington, Oregon, and northern California. USDA Forest Service, San Dimas Technology and Development Center, San Dimas, California.

## G

Gaige, H. T. 1920. Observations upon the habits of *Ascaphus truei* Stejneger. Occasional Papers of the Museum of Zoology, University of Michigan 84: 1-9.

Gangmark, H. A., and R. G. Bakkala. 1960. A comparative study of unstable and stable (artificial channel) spawning streams for incubating king salmon at Mill Creek. *California Fish and Game* 46: 151-164.

Gannett, H. 1899. Nineteenth annual report of the United States Geological Survey, 1897-1898. Part V: forest reserves. Government Printing Office, Washington, D. C.

Garcelon, D. K., and N. J. Thomas. 1997. DDE poisoning in an adult bald eagle. *Journal of Wildlife Diseases* 33: 299-303.

Garling, D. L., and M. Masterson. 1985. Survival of Lake Michigan chinook salmon eggs and fry incubated at three temperatures. *The Progressive Fish-Culturist* 47: 63-66.

Garrett, K., and J. Dunn. 1981. Birds of southern California: status and distribution. Los Angeles Audubon Society, Los Angeles, California.

Gertsch, M., D. Van DeWater, and B. Walton. 1994. American peregrine falcon. C. G. Thelander and M. Crabtree, editors. Life on the edge: a guide to California's endangered natural resources: wildlife. Biosystems Books, Santa Cruz, California.

- Gibbons, D. R., and E. O. Salo. 1973. An annotated bibliography of the effects of logging on fish of the western United States and Canada. General Technical Report PNW-10. U. S. Forest Service, Pacific Northwest Forest and Range Experiment Station.
- Gibilisco, C. J. 1994. Distributional dynamics of American martens and fishers in North America. Pages 59-71 in Buskirk, S. W., A. S. Harestad, M. G. Raphael, and R. A. Powell, editors. Martens, sables, and fishers: biology and conservation. Cornell University Press, Ithaca, New York.
- Giger, R. D. 1972. Ecology and management of coastal cutthroat trout in Oregon. Fisheries Research Report 6. Oregon State Game Commission, Corvallis.
- Gilbert, F. F., and R. Allwine. 1991a. Terrestrial amphibian communities in the Oregon Cascade Range. Pages 319-324 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Gilbert, F. F., and R. Allwine. 1991b. Small mammal communities in the Oregon Cascade Range. Pages 257-267 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Gilbert, F. F., and R. Allwine. 1991c. Spring bird communities in the Oregon Cascade Range. Pages 141-158 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Gillesberg, A. M., and A. B. Carey. 1991. Arboreal nests of *Phenacomys longicaudus* in Oregon. Journal of Mammalogy 72: 784-787.
- Gilpin, M., and M. E. Soule. 1986. Minimum viable populations: processes of species extinctions. Pages 19-34 in M. E. Soule, editor. Conservation biology: the science of scarcity and diversity. Sinaur Associates.
- Giusti, G. A. 2007. Structural characteristics of an old-growth coast redwood stand in Mendocino County, California. Pages 161-169 in Standiford R. B., G. A. Giusti, and Y. Valachovic, W. Z. Zielinski, and M. J. Furniss, editors. Proceedings of the Redwood Region Forest Science Symposium: What does the Future Hold?. General Technical Report PSW-GTR-194. USDA Forest Service, Pacific Southwest Research Station, Albany California.
- Giusti, G. A., and P. J. Tinnin, editors. 1993. A planner's guide for oak woodlands. Publication of the Integrated Hardwood Range Management Program. University of California, Department of Forestry and Resource Management, Berkeley.
- Glova, G. J. 1986. Interaction for food and space between experimental populations of juvenile coho salmon (*Oncorhynchus kisutch*) and coastal cutthroat trout (*Salmo clarki*) in a laboratory stream. Hydrobiologia 132: 155-168.
- Gluns, D. R., and D. A. A. Toews. 1989. Effect of a major wildfire on water quality in southeastern British Columbia. Pages 487-499 in W. W. Woessner and D. F. Potts, editors.

- Proceedings of the symposium on headwaters hydrology. American Water Resources Association, Bethesda, Maryland.
- Godfrey, H. 1965. Coho salmon in offshore waters. In Salmon of the North Pacific Ocean. Part IX. Coho, chinook and masu salmon in offshore waters. International North Pacific Fisheries Commission Bulletin 16 16: 1-39.
- Godin, J.-G. J. 1980. Temporal aspects of juvenile pink salmon (*Oncorhynchus gorbuscha* Walbaum) emergence from a simulated gravel redd. Canadian Journal of Zoology 58: 735-744.
- Goldberg, J. 2003. *Bassariscus astutus* (ringtail). Animal Diversity Web. Accessed on the internet at:  
[http://animaldiversity.ummz.umich.edu/site/accounts/information/Bassariscus\\_astutus.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Bassariscus_astutus.html).
- Goldsworthy, M.O. 2007. *Ascaphus truei* (tailed frog) nest site. Herpetological Review 38(1): 68-69.
- Golightly, R. T., Jr. 1997. Fisher (*Martes pennanti*): ecology, conservation, and management. Pages 7-16 in J. E. Harris and C. V. Ogan, editors. Mesocarnivores of northern California: biology, management, and survey techniques. Workshop manual. The Wildlife Society, California North Coast Chapter, Arcata.
- Gomez, D. M., and R. G. Anthony. 1996. Amphibian and reptile abundance in riparian and upslope areas of five forest types in western Oregon. Northwest Science 70: 109-119.
- Gonsior, M. J., and R. B. Gardner. 1971. Investigation of slope failures in the Idaho batholith. Research Paper INT-97. USDA Forest Service, Intermountain Forest and Range Experimental Station, Ogden, Utah.
- Good, D. A., and D. B. Wake. 1992. Geographic variation and speciation in the torrent salamanders of the genus *Rhyacotriton* (Caudata: Rhyacotritonidae). University of California Publications in Zoology 126: 1-91.
- Good, D. A., G. Z. Wurst, and D. B. Wake. 1987. Patterns of geographic variation in allozymes of the Olympic salamander, *Rhyacotriton olympicus* (Caudata: Dicamptodontidae). Fieldiana Zoology New Series No. 32: 1-15.
- Good, T. P., R. S. Waples and P. B. Adams. 2005. Updated status of federally listed ESUs of West Coast salmon and steelhead. U.S. Department of Commerce, NOAA Technical Memorandum, NMFS-NWFSC-66.
- Goodridge, J. D. 1978. Climate summaries of California airports. Sacramento, CA: California Department of Water Resources.
- Gould, G. I., Jr. 1977. Distribution of the spotted owl in California. Western Birds 8: 131-146.
- G-P (Georgia-Pacific Corporation). 1997. Georgia-Pacific Fort Bragg Timberlands sustained yield plan. Prepared Jones and Stokes Associates, Inc. for Georgia-Pacific Corporation, Fort Bragg, California.

- Gradwell, N. 1973. On the functional morphology of suction and gill irrigation in the tadpole of *Ascaphus* and notes on hibernation. *Herpetologica* 29(1):84-93.
- Graham, R. W., and M. A. Graham. 1994. The late quaternary distribution of *Martes* in North America. Pages 26-58 in Buskirk, S. W., A. S. Harestad, M. G. Raphael, and R. A. Powell, editors. *Martens, sables, and fishers: biology and conservation*. Cornell University Press, Ithaca, New York.
- Graham Matthews and Associates. 2001. Gravel quality monitoring in the mainstem Trinity River. Report prepared for: Trinity County Board of Supervisors, Weaverville, CA.
- Grant, G. E., F. J. Swanson, and M. G. Wolman. 1990. Pattern and origin of stepped-bed morphology in high-gradient streams, western Cascades, Oregon. *Geological Society of America Bulletin* 102: 340-352.
- Gray, D. H. 1970. Effects of forest clear-cutting on the stability of natural slopes. *Bulletin of the Association of Engineering Geologists* 7: 45-66.
- Gray, D. H., and W. F. Megahan. 1981. Forest vegetation removal and slope stability in the Idaho batholith. Research Paper INT-271. USDA Forest Service, Intermountain Forest and Range Experiment Station, Ogden, Utah.
- Gray, L. A. 1992. Larval growth and age at completion of metamorphosis of the tailed frog, *Ascaphus truei*. Master's thesis. Central Washington University, Pullman.
- Green Diamond Resource Company. 2006. Appendix D: effectiveness monitoring protocols. Aquatic Habitat Conservation Plan and candidate conservation agreement with assurances. Unpublished document. Volume II, Final report. Prepared by Green Diamond Resource Company, Korb, California for National Marine Fisheries Service and U. S. Fish and Wildlife Service. October 2006.
- Green, D. M. 1985. Differentiation in amount of centromeric heterochromatin between subspecies of the red-legged frog, *Rana aurora*. *Copeia* 4: 1071-1074.
- Green, D. M., and D. C. Cannatella. 1994. Phylogenetic significance of the amphicoelous frogs, Ascaphidae and Leiopelmatidae. *Ecology, Ethology, and Evolution* 5: 66-74.
- Green, M. 1990. Purple martin *Progne subis*. Pages 434-435 in D. C. Zeiner, W. F. Laudenslayer, Jr., K. E. Mayer and M. White, editors. *California's wildlife. Volume II. Birds*. California Statewide Habitat Relationships System. California Department of Fish and Game, Sacramento.
- Greenlee, J. M. 1983. Vegetation, fire history, and fire potential of Big Basin Redwoods State Park, California. Doctoral dissertation. University of California, Santa Cruz.
- Greenley, J. C. 1985. Locations of local and regional salmonid stocks. Pages 153-159 in R. H. Stroud, editor. *Proceedings of the tenth annual marine recreational fisheries symposium*. National Coalition for Marine Conservation, Inc., Savannah, Georgia.

- Greenwood, E.A., L. Klein, J.D. Beresford, G.D. Watson. and K.D. Wright. 1985. Evaporation from the understory in the Jarrah Forest, Southwestern Australia. *Journal of Hydrology*, Vol. 80(3/4). pp 337-349.
- Gregory, K. J., and R. J. Davis. 1992. Coarse woody debris in stream channels in relation to river channel management in woodland areas. *Regulated Rivers: Research and Management* 7: 117-136.
- Gregory, P. T. 1979. Predator avoidance behavior of the red-legged frog (*Rana aurora*). *Herpetologica* 35: 175-184.
- Gregory, S. V., F. J. Swanson, W. A. McKee, and K. W. Cummins. 1991. An ecosystem perspective of riparian zones. *BioScience* 41: 540-551.
- Grenfell, W. E., Jr. 1979. Winter food habits of fishers, *Martes pennanti*, in northwestern California. *California Fish and Game* 65: 186-189.
- Grette, G. B. 1985. The abundance and role of large organic debris in juvenile salmonid rearing habitat in small streams. Master's thesis. University of Washington, Seattle.
- Gribanov, V. I. 1948. The coho salmon (*Oncorhynchus kisutch* Walb.) - a biological sketch. *Izv. Tikhookean. Nauschno-Issled. Inst. Rybn. Khoz. Okeanogr.* 28: 43-101. (Translated from Russian; Fisheries Research Board of Canada Translation Series No. 370).
- Grier, J. W. 1969. Bald eagle behavior and productivity responses to climbing to nests. *Journal of Wildlife Management* 33: 961-966.
- Griffin, J. R. and W.B. Critchfield. 1972. The distribution of forest trees in California. Research Paper PSW-82. USDA, Forest Service, Pacific Southwest Research Station, Berkeley, CA (Reprinted with supplement 1976.)
- Griffin, J. R. 1988. Oak woodland. Pages 383-415 in Barbour, Michael G., and Jack Major (eds.). *Terrestrial Vegetation of California*. California Native Plant Society, Special Publication Number 9.
- Griffiths, J. S., and D. F. Alderdice. 1972. Effects of acclimation and acute temperature experience on the swimming speed of juvenile coho salmon. *Journal of the Fisheries Research Board of Canada* 29: 251-264.
- Grinnell, J., and A. H. Miller. 1944. The distribution of the birds of California. *Pacific Coast Avifauna* No. 27.
- Grinnell, J., and T. I. Storer. 1924. *Animal life in the Yosemite*. University of California Press, Berkeley.
- Grinnell, J., and M. W. Whythe. 1927. *Directory to the bird-life of the San Francisco Bay region*.
- Grinnell, J., J. S. Dixon, and J. Linsdale. 1937. *Fur-bearing mammals of California: their natural history, systematic status, and relation to man*. University of California Press, Berkeley.

- Groberg, W. J., Jr., R. H. McCoy, K. S. Pilcher, and J. L. Fryer. 1978. Relation of water temperature to infections of coho salmon (*Oncorhynchus kisutch*), chinook salmon (*O. tshawytscha*), and steelhead trout (*Salmo gairdneri*) with *Aeromonas salmonicida* and *A. hydrophila*. *Journal of the Fisheries Research Board of Canada* 35: 1-7.
- Gross, M. R. 1984. Sunfish, salmon, and the evolution of alternative reproductive strategies and tactics in fishes. Pages 55-75 in G. Potts and R. J. Wootton, editors. *Fish reproduction: strategies and tactics*. Academic Press, London.
- Gross, M. R. 1985. Disruptive selection for alternative life histories in salmon. *Nature* 313: 47-48.
- Gross, M. R. 1991. Salmon breeding behavior and life history evolution in changing environments. *Ecology* 72: 1180-1186.
- Grossman, D. H., D. Faber-Langendoen, A. S. Weakley, M. Anderson, P. Bourgeron, R. Crawford, K. Goodin, S. Landaal, K. Metzler, K. D. Patterson, M. Pyne, M. Reid, and L. Sneddon. 1998. International classification of ecological communities: terrestrial vegetation of the United States. Volume I. *The National Vegetation Classification System: development, status, and applications*. The Nature Conservancy, Arlington, Virginia.
- Grost, R. T., W. A. Hubert, and T. A. Wesche. 1991. Field comparison of three devices used to sample substrate in small streams. *North American Journal of Fisheries Management* 11: 347-351.
- Grost, R. T., T. A. Wesche, M. K. Young, W. A. Hubert, and V. R. Hasfurther. 1989. Evaluation of procedures to measure intragravel water velocity in streambeds. Unpublished report. Wyoming Water Research Center, University of Wyoming, Laramie.
- Gumbel, E. J. 1958. *Statistics of extremes*. Columbia University Press, New York.
- Gutiérrez, R. J. 1985. An overview of recent research on the spotted owl. Pages 39-49 in R. J. Gutiérrez and A. B. Carey, editors. *Ecology and management of the spotted owl in the Pacific Northwest*. General Technical Report PNW-185. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.
- Gutiérrez, R. J., A. B. Franklin, W. Lahaye, V. J. Meretsky, and J. P. Ward. 1985. Juvenile spotted owl dispersal in northwestern California: preliminary results. Pages 60-65 in R. J.
- Gutiérrez, R. J., A. B. Franklin, and W. L. Lahaye. 1995. Spotted owl (*Strix occidentalis*). Pages No. 179 in A. Poole and F. Gill, editors. *The birds of North America*. The Academy of Natural Sciences, Philadelphia, Pennsylvania and The American Ornithologists' Union, Washington, D. C.
- Gutiérrez, R. J., J. E. Hunter, G. Chavez-Leon, and J. Price. 1998. Characteristics of spotted owl habitat in landscapes disturbed by timber harvest in northwestern California. *Journal of Raptor Research* 32: 104-110.

Gyug, L. W. 1997. 1997 Forest development plan, red- and blue-listed species inventory for: mountain beaver, Cascade mantled ground squirrel, sagebrush northern bog lemming, and tailed frog. Prepared for B. C. Ministry of Environment.

## H

Hacker, A. L., and B. E. Coblenz. 1993. Habitat selection of mountain beavers recolonizing Oregon Coast Range clearcuts. *Journal of Wildlife Management* 57(4): 847-853.

Hagans, D. K., W. E. Weaver, and M. A. Madej. 1986. Long term on-site and off-site effects of logging and erosion in the Redwood Creek Basin in northern California. In Papers presented at the American Geophysical Union meeting on cumulative effects. Technical Bulletin No. 490. National Council of the Paper Industry on Air and Stream Improvement, New York.

Hagar, D. C. 1960. The interrelationships of logging, birds, and timber regeneration in the Douglas-fir region of northwestern California. *Ecology* 41: 116-125.

Hager, R. G., and R. E. Noble. 1976. Relation of size at release of hatchery-reared coho salmon to age, size, and sex composition of returning adults. *The progressive Fish-Culturist* 38: 144-147.

Haggard, J.A.G. 2000. A Radio Telemetric Study of the Movement Patterns of Adult Northern Red-legged Frog (*Rana aurora aurora*) at Freshwater Lagoon, Humboldt County California. M.A. Thesis. Humboldt State University, Arcata, CA.

Hagmeier, E. M. 1956. Distribution of marten and fisher in North America. *Canadian Field Naturalist* 70: 149-168.

Hailman, J. P. 1982. Extremely low ambient light levels of *Ascaphus truei*. *Journal of Herpetology* 16: 83-84.

Hairston-Strang, A. B., and P. W. Adams. 1998. Potential large woody debris sources in riparian buffers after harvesting in Oregon, U. S. A. *Forest Ecology and Management* 112: 67-77.

Hall, E. R. 1942. Gestation period in the fisher with recommendations for the animal's protection in California. *California Fish and Game* 28: 143-147.

Hall, E. R. 1981. *The mammals of North America*. Second edition. Wiley, New York.

Hall, J. D., and R. L. Lantz. 1969. Effects of logging on the habitat of coho salmon and cutthroat trout in coastal streams. Pages 355-375 in T. G. Northcote, editor. *Symposium on salmon and trout in streams*. H. R. MacMillan Lectures in Fisheries, University of British Columbia, Vancouver.

Hall, R. J., and P. F. Henry. 1992. Review: Assessing effects of pesticides on amphibians and reptiles: status and needs. *Herpetological Journal* 2: 65-71.

Hamer, T. E. 1988. Home range size of the northern barred owl, and northern spotted owl in western Washington. Master's thesis. Western Washington University, Bellingham.

- Hamer, T. E., and W. T. Everett. 1996. RE: Assessment of marbled murrelet nesting habitat. Letter to M. Spear, Director, U. S. Fish and Wildlife Service, Portland, Oregon. From Pacific Seabird Group, 15 July.
- Hamer, T. E., and S. K. Nelson. 1995. Characteristics of marbled murrelet nest trees and nesting stands. Pages 69-82 in C. J. Ralph, G. L. H. Jr., M. G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. USDA Forest Service, Pacific Southwest Research Station, Albany, California.
- Hamer, T. E., E. D. Forsman, A. D. Fuchs, and M. L. Walters. 1994. Hybridization between barred and spotted owls. *The Auk* 111: 487-492.
- Hamm, K. 1995. Abundance of dusky-footed woodrats in managed forests of north coastal California. Master's thesis. Humboldt State University, Arcata, California.
- Hanson, C. H. 1990. Laboratory information on the effect of water temperature on juvenile chinook salmon in the Sacramento and San Joaquin rivers: a literature review. San Francisco Bay/Sacramento-San Joaquin Delta, Water Quality Control Plan Hearings, WQCP-SWC Exhibit 605. Prepared by Tenera, Berkeley, for State Water Contractors, Sacramento, California.
- Hanson, D. L. 1977. Habitat selection and spatial interaction in allopatric and sympatric populations of cutthroat and steelhead trout. Doctoral dissertation. University of Idaho, Moscow.
- Harmon, M. E., J. F. Franklin, F. J. Swanson, P. Sollins, S. V. Gregory, J. D. Lattin, N. H. Anderson, S. P. Cline, N. G. Aumen, J. R. Sedell, G. W. Lienkaemper, K. Cromack, Jr., and K. W. Cummins. 1986. Ecology of coarse woody debris in temperate ecosystems. *Advances in Ecological Research* 15: 133-302.
- Harr, R. D. 1981. Some characteristics and consequences of snowmelt during rainfall in western Oregon. *Journal of Hydrology* 53: 277-304.
- Harr, D. 1982. Higher peak flows associated with cumulative timber harvest in the transient snow zone of western Oregon. NCASI Technical Bulletin No. 388. National Council for Air and Stream Improvement of the Paper Industry (NCASI).
- Harr, R. D., R. L. Fredricksen, and J. Rothacher. 1979. Changes in streamflow following timber harvest in southwestern Oregon. Research Paper PNW-249. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.
- Harris, L. D. 1984. *The fragmented forest: island biogeography theory and the preservation of biodiversity*. University of Chicago Press, Chicago, IL.
- Harris, L. D. 1988. Edge effects and conservation of biotic diversity. *Conservation Biology* 2(4): 330-339.
- Harris, P. B. 1990. California Wildlife Habitat Relationships System - California red tree vole (*Arborimus pomus*). California Department of Fish and Game. Accessed on the internet April 2002 at <http://www.dfg.ca.gov/whdab/M132.html>
- Harris, R. D. 1982. The nesting ecology of the pileated woodpecker in California. Master's thesis. University of California, Berkeley.



- Harris, R. D. 1983. Decay characteristics of pileated woodpecker nest trees. Pages 125-129 in J. W. Davis, G. A. Goodwin and R. A. Ockenfeis, technical coordinators. Snag habitat management: proceedings of the symposium. General Technical Report RM-99. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado.
- Harris, S. W. 1993. Northwestern California birds. Humboldt State University Press, Arcata, California.
- Harris, S. W. 1996. Northwestern California birds. 2<sup>nd</sup> edition. Humboldt State University Press, Arcata, California.
- Harrison, C. W. 1923. Planting eyed salmon and trout eggs. Transactions of the American Fisheries Society 52: 191-200.
- Hartman, G. F. 1965. The role of behavior in the ecology and interaction of underyearling coho salmon (*Oncorhynchus kisutch*) and steelhead trout (*Salmo gairdneri*). Journal of the Fisheries Research Board of Canada 22: 1035-1081.
- Hartman, G. F., and T. G. Brown. 1987. Use of small, temporary, floodplain tributaries by juvenile salmonids in a west coast rain-forest drainage basin, Carnation Creek, British Columbia. Canadian Journal of Fisheries and Aquatic Sciences 44: 262-270.
- Hartman, G. F., and J. C. Scrivener. 1990. Impacts of forestry practices on a coastal stream ecosystem, Carnation Creek, British Columbia. Canadian Bulletin of Fisheries and Aquatic Sciences 223: 148 pp.
- Hartman, G. F., B. C. Andersen, and J. C. Scrivener. 1982. Seaward movement of coho salmon (*Oncorhynchus kisutch*) fry in Carnation Creek, an unstable coastal stream in British Columbia. Canadian Journal of Fisheries and Aquatic Sciences 39: 588-597.
- Hartman, G. F., J. C. Scrivener, L. B. Holtby, and L. Powell. 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. Pages 330-372 in E. O. Salo and T. W. Cundy, editors. Streamside management: forestry and fishery interactions. College of Forest Resources, University of Washington.
- Hartman, W. L., and R. F. Raleigh. 1964. Tributary homing of sockeye salmon at Brooks and Karluk lakes, Alaska. Journal of the Fisheries Research Board of Canada 21: 485-504.
- Harvey, B. C., J. L. White, and R. J. Nakamoto. 2002. Habitat relationships and larval drift of native and nonindigenous fishes in neighboring tributaries of a coastal California river. Transactions of the American Fisheries Society 131: 159-170.
- Hassler, T. J. 1987. Species profiles: life histories and environmental requirements of coastal fishes and invertebrates (Pacific Southwest): coho salmon. Biological Report 82 (11.70). Prepared by California Cooperative Fishery Research Unit, Humboldt State University, Arcata, California for U. S. Army Corps of Engineers, Coastal Ecology Group, Vicksburg, Mississippi and U. S. Fish and Wildlife Service, National Wetlands Research Center, Washington, D. C.
- Hassler, T. J., C. M. Sullivan, and G. R. Stern. 1991. Distribution of coho salmon in California. Final Report, Contract No. FG7292. Prepared by U. S. Fish and Wildlife Service, California

Cooperative Fishery Research Unit, Humboldt State University, Arcata for California Department of Fish and Game.

Hausle, D. A., and D. W. Coble. 1976. Influence of sand in redds on survival and emergence of brook trout (*Salvelinus fontinalis*). Transactions of the American Fisheries Society 105: 57-63.

Hawkins, C. P., J. Feminella, and C. M. Crisafulli. 1997. Responses and recovery of stream-dwelling tailed frog and giant salamander populations following the 1980 eruption of Mt. St. Helens. J. S. Richardson and T. R. Wahbe, editors. Proceedings of the tailed frog workshop. University of British Columbia, Vancouver.

Hawkins, C. P., L. J. Gottschalk, and S. S. Brown. 1988. Densities and habitat of tailed frog tadpoles in small streams near Mt. St. Helens following the 1980 eruption. Journal of the North American Benthological Society 7: 246-252.

Hawkins, C. P., M. L. Murphy, and N. H. Anderson. 1982. Effects of canopy, substrate composition, and gradient on the structure of macroinvertebrate communities in Cascades Range streams of Oregon. Ecology 63:1840-1856.

Hawkins, C. P., M. L. Murphy, N. H. Anderson, and M. A. Wilzbach. 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, M. P. 1996. Wildlife issues pertaining to amphibians and the western pond turtle (*Clemmys marmorata*) on the North Umpqua Hydroelectric Project area. Prepared for USDA Forest Service, Umpqua National Forest, Roseburg, Oregon under subcontract to Resources Northwest, Inc.

Hayes, M. P., and D. M. Krempels. 1986. Vocal sac variation among frogs of the genus *Rana* from western North America. Copeia 1986: 927-936.

Hayes, M. P., and M. M. Miyamoto. 1984. Biochemical, behavioral, and body size differences between *Rana aurora aurora* and *Rana aurora draytonii*. Copeia 1984: 1018-1022.

Hayes, M. P., and M. R. Jennings. 1986. Decline of ranid frog species in western North America: are bullfrogs (*Rana catesbeiana*) responsible? Journal of Herpetology 20: 490-509.

Hayes, M. P., and M. R. Jennings. 1988. Habitat correlates of distribution of the California red-legged frog (*Rana aurora draytonii*) and the foothill yellow-legged frog (*Rana boylei*): implications for management. Pages 144-158 in R. E. Szaro, K. E. Severson and D. R. Patton, editors. Proceedings of the symposium on the management of amphibians, reptiles, and small mammals in North America. General Technical Report RM-166. USDA Forest Service.

Hayes, M. P., and M. R. Tennant. 1985. Diet and feeding behavior of the California red-legged frog *Rana aurora draytonii* (Ranidae). The Southwestern Naturalist 30: 601-605.

Hayes, M. P., C. A. Pearl, and C. J. Rombrough. 2001. *Rana aurora aurora* (northern red-legged frog) movement. Herpetological Review 32: 35-36.

Hazzard, A. S. 1932. Some phases of the life history of the eastern brook trout, *Salvelinus fontinalis* Mitchill. Transactions of the American Fisheries Society 62: 344-350.

- Healey, T. P. 1979. The effect of high temperature on the survival of Sacramento River chinook (king) salmon, *Oncorhynchus tshawytscha*, eggs and fry. Anadromous Fisheries Branch, Administrative Report 79-10. California Department of Fish and Game.
- Healey, M. C. 1980. Utilization of the Nanaimo River estuary by juvenile chinook salmon, *Oncorhynchus tshawytscha*. Fishery Bulletin 77: 653-668.
- Healey, M. C. 1991. Life history of chinook salmon (*Oncorhynchus tshawytscha*). Pages 311-393 in C. Groot and L. Margolis, editors. Pacific salmon life histories. University of British Columbia Press, Vancouver, British Columbia.
- Heard, W. R. 1991. Life history of pink salmon (*Oncorhynchus gorbuscha*). Pages 121-230 in C. Groot and L. Margolis, editors. Pacific salmon life histories. University of British Columbia Press, Vancouver, British Columbia.
- Hedgpeth, J. W. 1968. The Atyid shrimp of the genus *Syncaris* in California. Hydrobiologia 53: 511-524.
- Heifetz, J., M. L. Murphy, and K. V. Koski. 1986. Effects of logging on winter habitat of juvenile salmonids in Alaskan streams. North American Journal of Fisheries Management 6: 52-58.
- Heming, T. A. 1982. Effects of temperature on utilization of yolk by chinook salmon (*Oncorhynchus tshawytscha*) eggs and alevins. Canadian Journal of Fisheries and Aquatic Sciences 39: 184-190.
- Hendrix, P. F. 1996. Nearctic earthworm fauna in the southern USA: biodiversity and effects on ecosystem processes. Biodiversity and Conservation 5: 223-234.
- Hetherington, E. D. 1988. Hydrology and logging in the Carnation Creek watershed--what have we learned? Pages 11-15 in T. W. Chamberlin, editor. Proceedings of the workshop: applying 15 years of Carnation Creek results. Pacific Biological Station, Carnation Creek Steering Committee, Nanaimo, British Columbia.
- Hewlett, J.D. 1969. Principles of forest hydrology. University of Georgia Press, Athens, Georgia. 183 p.
- Hibbert, A. R. 1967. Forest treatment effects on water yield. Pages 527-543 in W. E. Sopper and H. W. Lull, editors. Forest hydrology: proceedings of a National Science Foundation advanced science seminar. Pergamon Press, New York.
- Hickman, J. C. (ed.). 1993. The Jepson Manual. Berkeley, CA: University of California Press.
- Hicks, B. J., J. D. Hall, P. A. Bisson, and J. R. Sedell. 1991a. Responses of salmonids to habitat changes. Pages 483-518 in W. R. Meehan, editor. Influences of forest and rangeland management on salmonid fishes and their habitats. American Fisheries Society Special Publication No. 19. American Fisheries Society, Bethesda, Maryland.
- Hicks, B. J., R. L. Beschta, and R. D. Harr. 1991b. Long-term changes in streamflows following logging in western Oregon and implications for salmonid survival. Water Resources Bulletin Volume 27, No. 2. American Water Resources Association.

Higgins, P., S. Dobush, and D. Fuller. 1992. Factors in northern California threatening stocks with extinction. Humboldt Chapter American Fisheries Society.

Hillman, T. W., J. S. Griffith, and W. S. Platts. 1987. Summer and winter habitat selection by juvenile chinook salmon in a highly sedimented Idaho stream. *Transactions of the American Fisheries Society* 116: 185-195.

Hilton, S., and T. E. Lisle. 1993. Measuring the fraction of pool volume filled with fine sediment. Research Note PSW-RN-414. USDA Forest Service, Pacific Southwest Research Station, Berkeley, California.

Hindar, K., N. Ryman, and F. Utter. 1991. Genetic effects of cultured fish on natural populations. *Canadian Journal of Fisheries and Aquatic Sciences* 48: 945-957.

Hines, D. H., and J. M. Ambrose. 1998. Evaluation of stream temperature thresholds based on coho salmon presence and absence in managed forestlands. Georgia-Pacific West, Inc., Fort Bragg, California.

Hibbert, A.R. 1967. Forest treatment effects on water yield. In: *Proceedings of the International Symposium on Forest Hydrology*, edited by W. Sopper and H. Lull. Pergamon, NY. pp 527-543

Hiss, A. and A. Pickart. 1992. An update on the rediscovered Humboldt milk-vetch. *Fremontia* 20(4): 21-22.

Hoar, W. S. 1951. The behavior of chum, pink, and coho salmon in relation to their seaward migration. *Journal of the Fisheries Research Board of Canada* 8: 241-263.

Hoar, W. S. 1965. The endocrine system as a chemical link between the organism and its environment. *Transactions of the Royal Society of Canada Serv. IV* 3: 175-200.

Hobbs, D. F. 1937. Natural reproduction of quinnat salmon, brown trout and rainbow trout in certain New Zealand waters. *Fisheries Bulletin* 6. New Zealand Marine Department.

Hodgson, R. G. 1937. Fisher farming. *Fur Trader Journal of Canada*

Hofstra, T. D. 1983. Management alternatives for Redwood Creek Estuary. Redwood National Park, Arcata, California.

Holland, R. F. 1986. Preliminary description of the terrestrial plant communities of California. Department of Fish and Game. Sacramento, California.

Holland, V. L., and D. J. Keil. 1995. California vegetation. Kendall/Hunt Publishing Company, Dubuque, Iowa.

Holman, G., and W. A. Evans. 1964. Stream clearance project completion report, Noyo River, Mendocino County. Inland Fisheries Administrative Report. No. 64-10. California Department of Fish and Game, Region 3.

- Holt, R. A., J. E. Sanders, J. L. Zinn, J. L. Fryer, and K. S. Pilcher. 1975. Relation of water temperature to *Flexibacter columnaris* infection in steelhead trout (*Salmo gairdneri*), coho (*Oncorhynchus kisutch*) and chinook (*O. tshawytscha*) salmon. *Journal of the Fisheries Research Board of Canada* 32: 1553-1559.
- Holtby, L. B., and M. C. Healey. 1986. Selection for adult size in female coho salmon. *Canadian Journal of Fisheries and Aquatic Sciences* 43: 1946-1959.
- Holtby, L. B., and C. P. Newcombe. 1982. A preliminary analysis of logging-related temperature changes in Carnation Creek, British Columbia. Pages 24-26 in G. F. Hartman, editor. *Proceedings of the Carnation Creek workshop: a ten-year review*. Pacific Biological Station, Nanaimo, British Columbia.
- Holtby, L. B., B. C. Andersen, and R. K. Kadowaki. 1990. Importance of smolt size and early ocean growth to interannual variability in marine survival of coho salmon (*Oncorhynchus kisutch*). *Canadian Journal of Fisheries and Aquatic Sciences* 47: 2181-2194.
- Holtby, L. B., T. B. McMahon, and J. C. Scrivener. 1989. Stream temperatures and inter-annual variability in the emigration timing of coho salmon (*Oncorhynchus kisutch*) smolts and fry and chum salmon (*O. keta*) fry from Carnation Creek, British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences* 46: 1396-1405.
- Hooven, E. F. 1973. Effects of vegetational changes on small forest mammals. Pages 75-97 in R. K. Hermann and D. P. Lavender, editors. *Proceedings of a symposium: even-age management*. 1 August 1972. School of Forestry, Oregon State University, Corvallis, Oregon.
- Hoover, R. L., and D. L. Wills, editors. 1987. *Managing forested lands for wildlife*. Colorado Division of Wildlife, Denver, Colorado, USA.
- Hornbeck, J. W., C. W. Martin, R. S. Pierce, F. H. Bormann, G. E. Likens, and J. S. Eaton. 1987. The northern hardwood forest ecosystem: ten years of recovery from clearcutting. Research Paper NE-RP-596. USDA Forest Service, Northeastern Forest Experiment Station, Broomall, Pennsylvania.
- Hostetler, S. W. 1991. Analysis and modeling of long-term stream temperatures on the Steamboat Creek basin, Oregon: implications for land use and fish habitat. *Water Resources Bulletin* 27: 637-647.
- House, R. A., and P. L. Boehne. 1985. Evaluation of instream enhancement structures for salmonid spawning and rearing in a coastal Oregon stream. *North American Journal of Fisheries Management* 5: 283-295.
- House, R. A., and P. L. Boehne. 1986. Effects of instream structures on salmonid habitat and populations in Tobe Creek, Oregon. *North American Journal of Fisheries Management* 6: 38-46.
- House, R. A., and P. L. Boehne. 1987. The effect of stream cleaning on salmonid habitat and populations in a coastal Oregon drainage. *Western Journal of Applied Forestry* 2: 84-87.
- House, R., V. Crispin, and J. M. Suther. 1991. Habitat and channel changes after rehabilitation of two coastal streams in Oregon. *American Fisheries Society Symposium* 10: 150-159.

- Houston, D. B. 1983. Anadromous fish in Olympic National Park: a status report. Olympic National Park, Port Angeles, Washington.
- Howald, A. M. 1996. Translocation as a mitigation strategy: lessons from California. D. A. Falk, C. I. Millar and M. Olwell, editors. Restoring diversity. Island Press, Washington, D. C.
- Howell, A. B. 1926. Voles of the genus *Phenacomys*. II. Life history of the red tree mouse *Phenacomys longicaudus*. North America Fauna 48: 39-64.
- Hubbard, C. 1922. Some data upon the rodent *Aplodontia*. Murrelet 3: 14-18.
- Huff, M. H., R. S. Holthausen, and K. B. Aubry. 1992. Habitat management for red tree voles in Douglas-fir forests. General Technical Report PNW-GTR-302. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Hughes, R. M., and G. E. Davis. 1986. Production of coexisting juvenile coho salmon and steelhead trout in heated model stream communities. ASTM (American Society for Testing and Materials) Special Technical Publications 920: 322-337.
- Hull, C. L., G. W. Kaiser, C. Loughheed, L. Loughheed, S. Boyd, and F. Cooke. 2001. Intraspecific variation in commuting distance of marbled murrelets (*Brachyramphus marmoratus*): Ecological and energetic consequences of nesting further inland. The Auk 118(4): 1036-1046.
- Hulse-Stephens, G. 2005. Field survey forms for *Trifolium buckwestiorum* and *Lathyrus palustris*. Submitted to the California Natural Diversity Database. May
- Hunt, G. L. 1995. Monospecific and mixed species foraging associations of marbled murrelets. Pages 255-256 in C. J. Ralph, G. L. Hunt, Jr., M. G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.
- Hunt, W. G., B. S. Johnson, and R. E. Jackman. 1992. Carrying capacity for bald eagles wintering along a northwestern river. Journal of Raptor Research 26: 49-60.
- Hunter, J. E., and K. Fitts. 2005. Draft guidelines for Project-related habitat assessments and surveys for Point Arena mountain beaver (*Aplodontia rufa nigra*). Unpublished document on file, Arcata Fish and Wildlife Office, Arcata, California.
- Hunter, J. E., and M. J. Mazurek. 2003. Characteristics of nest trees used by nesting and roosting Vaux's swifts in northwestern California. Western Birds, 34:225-229.
- Hunter, J. E., D. Fix, G. A. Schmidt, J. C. Power. 2005. Atlas of the breeding birds of Humboldt County, California. Redwood Region Audubon Society, Eureka, California.
- Hunter, J. E., K. N. Schmidt, H. B. Stauffer, S. L. Miller, C. J. Ralph, and L. Roberts. 1998. Status of the marbled murrelet in the inner north Coast Ranges of California. Northwestern Naturalist 79:92-103.
- Hunter, J. G. 1959. Survival and production of pink and chum salmon in a coastal stream. Journal of the Fisheries Research Board of Canada 16: 835-886.

Hunter, J. W. 1973. A discussion of game fish in the State of Washington as related to water requirements. Report. Prepared by Washington State Department of Game, Fishery Management Division for Washington State Department of Ecology, Olympia.

Hunter, M. G. 1998. Watershed-level patterns among stream amphibians in the Blue River watershed, west-central Cascades of Oregon. Master's thesis. Oregon State University, Corvallis.

Hunter, M. A. 1992. Hydropower flow fluctuations and salmonids: a review of the biological effects, mechanical causes, and options for mitigation. Technical Report No. 119. State of Washington Department of Fisheries, Olympia.

Hunter, M. L., Jr. 2005. A mesofilter conservation strategy to complement fine and coarse filters. *Conservation Biology*: 1025–1029.

Huschke, R. E, editor. 1959. Glossary of meteorology. American Meteorological Society, Boston, Massachusetts.

## I

Imster, E. 2001. Rock outcrop. Radio series transcript. December 23. Accessed on the internet at: <http://www.earthsky.org/2001/es011223.html>

Ingles, L. 1959. Quantitative study of mountain beaver activity. *American Midland Naturalist* 61: 419-423.

Ingles, L. G. 1965. Mammals of the Pacific states. Stanford University Press, Stanford, California.

Ingraham, N. L. 1995. The importance of fog-drip water to vegetation: Point Reyes Peninsula, California. *Journal of Hydrology* 164:269-285.

Ingwersen, J. B. 1985. Fog drip, water yield, and timber harvesting in the Bull Run municipal watershed. *Water Resources Research* 21: 469-473.

Ilse, L. M., and E. C. Hellgren. 1995. Resource partitioning in sympatric populations of collared peccaries and feral hogs in southern Texas. *Journal of Mammalogy* 76: 784-799.

Irwin, L. L., D. F. Rock, and G. P. Miller. 2000. Stand structures used by northern spotted owls in managed forests. *Journal of Raptor Research* 34: 175-186.

Irwin, L. L., D. Rock, and S. Rock. 2004. Adaptive management monitoring of spotted owls. Annual progress report. National Council for Air and Stream Improvement, Inc., Vancouver, Washington.

Ivankov, V. W., and N. L. Andreyev. 1969. Fecundity of the Pacific salmon. *Prob. Ichthiol.* 9: 59-66.

Iwamoto, R. N., B. A. Alexander, and W. K. Hershberger. 1983. Salmonid reproduction. University of Washington, School of Fisheries, Seattle.

**J**

Jacobson, P. J., K. M. Jacobson, P. L. Angermeier, and D. S. Cherry. 1999. Transport, retention, and ecological significance of woody debris within a large ephemeral river. *Journal of the North American Benthological Society* 18: 429-444.

Jaffee, N. B. 1980. Nest site selection and foraging behavior of the bald eagle in Virginia. Master's thesis. William and Mary College, Williamsburg, Virginia.

Jameson, E. W., Jr., and H. J. Peeters. 1988. *California mammals*. University of California Press, Berkeley.

Jarman, W. 1994. Levels and trends of DDE in California peregrines. NOAA Damage Assessment Report. U. S. Department of Commerce, National Oceanic and Atmospheric Administration.

Jennings, M. R., and M. P. Hayes. 1985. Pre-1900 overharvest of California red-legged frogs (*Rana aurora draytonii*): the inducement for bullfrog (*Rana catesbiana*) introduction. *Herpetologica* 41: 94-103.

Jennings, M. R., and M. P. Hayes. 1989. Final report of the status of the California red-legged frog (*Rana aurora draytonii*) in the Pescadero Marsh Natural Preserve. Contract No. 48239018. California Academy of Sciences, San Francisco.

Jennings, M. R., and M. P. Hayes. 1994. Amphibian and reptile species of special concern in California. Final Report. Prepared by California Academy of Sciences, Department of Herpetology, San Francisco and Portland State University, Department of Biology, Portland, Oregon for California Department of Fish and Game, Inland Fisheries Division, Rancho Cordova.

Jennings, M., M. Hayes, and D. Holland. 1993. A petition to the USFWS to place the California red-legged frog (*Rana aurora draytonii*) and the western pond turtle (*Clemmys marmorata*) on the list of endangered and threatened wildlife and plants.

Jepson Online Interchange, <http://ucjeps.berkeley.edu/interchange.html> (an online database for the identification, taxonomy, distribution, ecology, relationships, and diversity of California vascular plants, accessed 2004-2006).

Jimerson, T. M., and S. K. Carothers. 2002. Northwest California oak woodlands: environment, species composition, and ecological status. USDA Forest Service Gen. Tech Report PSW-GTR-184.

Jirak, G. A. 2001. Impact of timber harvesting on rare, threatened, and endangered native plants. *Fremontia* 29(3-4): 38-50.

Johnson, D. W., D. C. West, D. E. Todd, and L. K. Mann. 1982. Effects of sawlog vs. whole-tree harvesting on the nitrogen, phosphorus, potassium, and calcium budgets of an upland mixed oak forest. *Soil Science Society of America Journal* 46: 1304-1309.



- Johnson, A. W., and D. R. Ryba. 1992. A literature review of recommended buffer widths to maintain various functions of stream riparian areas. Report to King County Surface Water Management Division, Washington.
- Johnson, D. W., J. M. Kelly, W. T. Swank, D. W. Cole, H. Van Miegroet, J. W. Hornbeck, R. S. Pierce, and D. Van Lear. 1988. The effects of leaching and whole-tree harvesting on cation budgets of several forests. *Journal of Environmental Quality* 17: 418-424.
- Johnson, J. H., and N. H. Ringler. 1980. Diets of juvenile coho salmon (*Oncorhynchus kisutch*) and steelhead trout (*Salmo gairdneri*) relative to prey availability. *Canadian Journal of Zoology* 58: 553-558.
- Johnson, M. L., and S. B. George. 1991. Species limits within the *Arborimus longicaudus* species-complex (Mammalia: Rodentia) with a description of a new species from California. *Contributions in Science (Natural History Museum of Los Angeles County)* 429: 1-16.
- Johnson, S. A. 1984. Home range, movements, and habitat use of fishers in Wisconsin. Master's thesis. University of Wisconsin, Stevens Point.
- Johnson, S. L. 1988. The effects of the 1983 El Niño on Oregon's coho (*Oncorhynchus kisutch*) and chinook (*O. tshawytscha*) salmon. *Fisheries Research* 6: 105-123.
- Johnston, D. W. 1958. Sex and age characters and salivary glands of the chimney swift. *Condor* 60: 73-84.
- Johnston, R. F., and J. W. Hardy. 1962. Behavior of the purple martin. *Wilson Bulletin* 74: 243-262.
- Johnstone, James A., and Todd E. Dawson. 2010. Climatic context and ecological implications of summer fog decline in the coast redwood region. *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*. Accessed on the internet 11/4/2010 at: <http://www.pnas.org/content/107/10/4533.full>.
- Johnstone, R. M., G. S. Court, A. C. Fesser, D. M. Bradley, L. W. Oliphant, and J. D. MacNeil. 1996. Long-term trends and sources of organochlorine contamination in Canadian tundra peregrine falcons, *Falco peregrinus tundrius*. *Environmental Pollution* 93: 109-120.
- Jones, J. A., and G. E. Grant. 1996. Peak flow responses to clear-cutting and roads in small and large basins, western Cascades, Oregon. *Water Resources Research* 32: 959-974.
- Jones, J. A., F. J. Swanson, B. C. Wemple, and K.U. Snyder. 2000. Effects of roads on hydrology, geomorphology, and disturbance patches in stream networks. *Conservation Biology* 14 (1): 76-85.
- Jones, J. L. 1991. Habitat use of fishers in north-central Idaho. Master's thesis. University of Idaho, Moscow. Pages 377-387 in Buskirk, S. W., A. S. Harestad, M. G. Raphael, and R. A. Powell, editors. *Martens, sables, and fishers: biology and conservation*. Cornell University Press, Ithaca, New York.

Jones, J. L., and E. O. Garton. 1994. Selection of successional stages by fishers in north-central Idaho.

Jones, L. L. C., and M. Raphael. 1998. Natural history notes: *Ascaphus truei*. Predation. Herpetological Review 29: 39.

Jones and Stokes Associates, Inc. 1997. Georgia-Pacific Fort Bragg Timberlands sustained yield plan. Prepared for Georgia-Pacific Corporation, Fort Bragg, California.

Jones & Stokes 2006. East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan. October. Prepared for the East Contra Costa County Habitat Conservation Plan Association, Martinez, CA.

Jung, R. E., G. H. Dayton, S. J. Williamson, J. R. Sauer, and S. Droege. 2002. An evaluation of population index and estimation techniques for tadpoles in desert pools. Journal of Herpetology 36:465-472.

Jurgensen, M. F., A. E. Harvey, R. T. Graham, and D. S. Page-Dumroese. 1997. Impacts of timber harvesting on soil organic matter, nitrogen, productivity, and health of inland Northwest forests. Forest Science 43: 234-251.

## **K**

Karr, J. R., and I. J. Schlosser. 1978. Water resources and the land-water interface. Science 201: 229-234.

Karr, J. R., J. J. Rhodes, G. W. Minshall, F. R. Hauer, R. L. Bescheta, C. A. Frissel, and D. A. Perry. 2004. The Effects of Postfire Salvage Logging on Aquatic Ecosystems in the American West. Bioscience 54: 1029-1033

Karraker, N. E. 1999. *Rhyacotriton variegatus* (southern torrent salamander) nest site. Herpetological Review 30: 160-161.

Karraker, N. E., and G. S. Beyersdorf. 1997. A tailed-frog (*Ascaphus truei*) nest site in northwestern California. Northwestern Naturalist 78: 110-111.

Kastadalen, A. 1982. Changes in the biology of Santa Cruz Island between 1935 and 1965. Noticias de Galapagos 35: 7-12.

- Kattleman R. 1996. Hydrology and water resources. Pages 855-920 in SNEP Science Team, et al. Sierra Nevada Ecosystem Project Final Report to Congress: Status of the Sierra Nevada, vol. 2. Davis Centers for Water and Wildland Resources, University of California. Wildland Resources Center Report no. 39.
- Keon, D. B. and P. S. Muir. 2002. Growth of *Usnea longissima* across a variety of habitats in the Oregon Coast Range. *The Bryologist* 105: 233-242.
- Keaton, J. R., and J. V. DeGraff. 1996. Surface observation and geologic mapping. Pages 178-230 in Landslides investigation and mitigation. Special Report 247. Transportation Research Board, Washington D.C.
- Keator, G. 1994. Plants of the East Bay parks. Mount Diablo Interpretive Association, Roberts Rinehart Publishers, Niwot, Colorado.
- Keller, E. A., and F. J. Swanson. 1979. Effects of large organic material on channel form and fluvial processes. *Earth Surface Processes* 4: 361-380.
- Keller, E. A., A. MacDonald, and T. Tally. 1981. Streams in the coastal redwood environment: the role of large organic debris. Pages 161-176 in R. N. Coats, editor. Proceedings of a symposium: watershed rehabilitation in Redwood National Park and other Pacific coastal areas. Center for Natural Resource Studies, John Muir Institute, Napa, California.
- Keller, E. A., A. MacDonald, T. Tally, and N. J. Merritt. 1995. Effects of large organic debris on channel morphology and sediment storage in selected tributaries of Redwood Creek, northwestern California. Pages P1-P29 in K. M. Nolan, H. M. Kelsey and D. C. Marron, editors. Geomorphic processes and aquatic habitat in the Redwood Creek basin, northwestern California. U. S. Geological Survey Professional Paper 1454. Washington, D. C.
- Kelly, G. M. 1977. Fisher (*Martes pennanti*) biology in the White Mountain National Forest and adjacent areas. Doctoral dissertation. University of Massachusetts, Amherst.
- Kelly, P. A. 1990. Population ecology and social organization of dusky-footed woodrats, *Neotoma fuscipes*. PhD Dissertation, University of California, Berkeley.
- Kelly, T. 1996. Birds of prey. *Rock and Ice*. 71: 31-33.
- Kelly, E. G. and E. D. Forsman. 2004. Recent records of hybridization between barred owls (*Strix varia*) and northern spotted owls (*Strix occidentalis caurina*). *The Auk* 121(3): 806-810.
- Kelly, E. G., E. D. Forsman, and R. G. Anthony. 2003. Are barred owls displacing spotted owls? *The Condor*. 105: 45-53.
- Kelsey, H. M., M. Coghlan, J. Pitlick, and D. Best. 1995. Geomorphic analysis of streamside landslides in the Redwood Creek basin, northwestern California. Pages J1-J12 in K. M. Nolan, H. M. Kelsey and D. C. Marron, editors. Geomorphic processes and aquatic habitat in the Redwood Creek basin, northwestern California. U. S. Geological Survey Professional Paper 1454. Washington, D. C.
- Kelsey, K. A. 1995. Responses of headwater stream amphibians to forest practices in western Washington. Doctoral dissertation. University of Washington, Seattle.

Keon, D. B., and P. S. Muir. 2002. Growth of *Usnea longissima* across a variety of habitats in the Oregon Coast Range. *The Bryologist* 105: 233-242.

Keppeler, E. T. 1996. Caspar Creek large organic debris revisited. Preliminary draft report.

Keppeler, E. T. 1998. The summer flow and water yield response to timber harvest. In: Proceedings of the Conference on Coastal Watersheds: The Caspar Creek Story. USDA, United States Forest Service Pacific Southwest Research Station Gen. Tech. Rep. PSW-GTR-168. pp 35-44.

Keppeler, E. T., and R. R. Ziemer. 1990. Logging effects on streamflow: water yield and summer low flows at Caspar Creek in northwestern California. *Water Resources Research* 26: 1669-1679.

Keppeler, E. T., J. Lewis, and T. Lisle. 2003. Effects of forest management on streamflow, sediment yield, and erosion, Caspar Creek Experimental Watersheds. The First Interagency Conference on Research in the Watersheds, 27-30 October 2003, Benson, Arizona. Accessed on the internet at: <http://www.tucson.ars.ag.gov/icrw/proceedings.htm>

Kerpez, T, and N.S. Smith. 1990. Competition between European starlings and native woodpeckers for nest cavities in saguaros. *Auk* 107: 367-375.

Ketcheson, G. L., and H. A. Froelich. 1978. Hydrology factors and environmental impacts of mass soil movements in the Oregon Coast Range. Water Resources Research Institute, Oregon State University, Corvallis.

Ketcheson, G. L., and W. F. Megahan. 1996. Sediment production and downslope sediment transport from forest roads in granitic watersheds. Research Report INT-486. USDA Forest Service, Intermountain Forest and Range Experiment Station, Ogden, Utah.

Kiesecker, J. M., and A. R. Blaustein. 1998. Effects of introduced bullfrogs and smallmouth bass on microhabitat use, growth, and survival of native red-legged frogs (*Rana aurora*). *Conservation Biology* 12: 776-787.

Kiffney, P. M., and J. S. Richardson. 2001. Interactions among nutrients, periphyton, and invertebrates and vertebrate (*Ascaphus truei*) grazers in experimental channels. *Copeia* 2001 (2): 422-429.

Kilham, L. 1959. Behavior and methods of communication of pileated woodpeckers. *The Condor* 61: 377-387.

Kim, M. A. 1999. The influence of light and nutrients on interactions between a tadpole grazer and periphyton in two coastal streams. Master's thesis. Department of Forest Sciences, University of British Columbia, Vancouver.

King, J. G., and G. A. Sanger. 1979. Oil vulnerability index for marine oriented birds. J. C. Bartonek and D. N. Nettleship, editors. Conservation of marine birds of North America. Wildlife Research Report No. 11. U. S. Fish and Wildlife Service, Washington, D. C.

King, G., K. Bevis, E. Hanson, and J. R. Vitello. 1997. Northern Spotted Owl Management: Mixing Landscape and Site-based Approaches. *Journal of Forestry*. August issue. Pp 21-25.

- Kitchen, D. W. 1992. Baseline surveys of birds, mammals, amphibians, and reptiles and basic WHR analysis of wildlife on the Jackson Demonstration State Forest. Humboldt State University, Department of Wildlife, Arcata, California.
- Klug, R. R., Jr. 1996. Pacific fisher occurrence in the redwood zone. Pages 112-114 in J. LeBlanc, editor. Proceedings of the conference on coast redwood forest ecology and management. University of California, Cooperative Extension, Forestry.
- Knick, S. 1984. Food habits of bobcats (*Lynx rufus*) in Washington. Report W-84-R-7-II-S. U. S. Fish and Wildlife Service.
- Koch, D., and A. Brody. 1981. Investigations of the ringtail (*Bassariscus astutus*) in a portion of the Geysers- Calistoga Known Geothermal Resource Area. Contract No. 700-80-030. California Energy Commission, Sacramento, California.
- Komar, N., S. Langevin, S. Hinten, N. Nemeth, E. Edwards, D. Hettler, B. Davis, R. Bowen, and M. Bunning. 2003. Experimental infection of North American birds with New York 1999 strain of West Nile virus. *Emerging Infectious Diseases* 9: 311-322.
- Kondolf, G. M. 2000. Assessing salmonid spawning gravel quality. *Transactions of the American Fisheries Society* 129: 262-281.
- Kondolf, G. M., and M. G. Wolman. 1993. The sizes of salmonid spawning gravels. *Water Resources Research* 29: 2275-2285.
- Kondolf, G. M., D. R. Montgomery, H. Piegay, and L. Schmitt. 2003. Geomorphic classification of rivers and streams. Pages 171-204 in G. M. Kondolf and H. Piegay, editors. *Tools in fluvial geomorphology*. John Wiley and Sons, Chichester.
- Kondolf, G. M., M. J. Sale, and M. G. Wolman. 1993. Modification of fluvial gravel size by spawning salmonids. *Water Resources Research* 29: 2265-2274.
- Kondolf, G. M., R. Kattelman, M. Embury, and D. C. Erman. 1996. Status of riparian habitat. Pages 1009-1030 in Sierra Nevada Ecosystem Project, Final Report to Congress. Volume II: Assessments and scientific basis for management options. Wildland Resources Center Report No. 37. Centers for Water and Wildland Resources, University of California, Davis.
- Kopperdahl, F. R., J. W. Burns, and G. E. Smith. 1971. Water quality of some logged and unlogged California streams. *Inland Fisheries Administrative Report No. 71-12*. California Department of Fish and Game.
- Koski, K. V. 1966. The survival of coho salmon (*Oncorhynchus kisutch*) from egg deposition to emergence in three Oregon coastal streams. Master's thesis. Oregon State University, Corvallis.
- Koski, K. V. 1975. The survival and fitness of two stocks of chum salmon (*Oncorhynchus keta*) from egg deposition to emergence in a controlled stream environment at Big Beef Creek. Doctoral dissertation. University of Washington, Seattle.
- Koski, K. V. 1981. The survival and quality of two stocks of chum salmon (*Oncorhynchus keta*) from egg deposition to emergence. *Rapports et Proces-Verbaux des Reunions, Conseil International pour L'Exploration de la Mer* 178: 330-333.

Koski, K. V., J. Heifetz, S. Johnson, M. Murphy, and J. Thedinga. 1984. Evaluation of buffer strips for protection of salmonid rearing habitat and implications for enhancement. Pages 138-155 in T. J. Hassler, editor. Pacific Northwest stream habitat management workshop. California Cooperative Fisheries Unit, Humboldt State University, Arcata, California.

Kostow, K., editor. 1995. Biennial report on the status of wild fish in Oregon. Oregon Department of Fish and Wildlife.

Krohn, W. B., K. D. Elowe, and R. B. Boone. 1995. Relations among fishers, snow, and martens: development and evaluation of two hypotheses. *Forestry Chronicle* 71: 97-105.

Kucera, T. E., and W. J. Zielinski. 1995. The case of forest carnivores: small packages, big worries. *Endangered Species Update* 12: 1-7.

Kuletz, K. J., and S. J. Kendall. 1998. A productivity index for marbled murrelets in Alaska based on surveys at sea. *Journal of Wildlife Management* 62: 446-460.

Kunz, T. H., and R. A. Martin. 1982. *Plecotus townsendii*. *Mammalian Species* 174: 6 pp.

Kupferberg, S. J. 1996a. Hydrologic and geomorphic factors affecting conservation of a river-breeding frog (*Rana boylei*). *Ecological Applications* 6: 1332-1344.

Kupferberg, S. J. 1996b. The ecology of native tadpoles (*Rana boylei* and *Hyla regilla*) and the impact of invading bullfrogs (*Rana catesbeiana*) in a northern California river. Doctoral dissertation. University of California, Berkeley.

Kupferberg, S. J. 1997. Bullfrog (*Rana catesbeiana*) invasion of a California river: the role of larval competition. *Ecology* 78: 1736-1751.

Kuuluvainen, T. 1994. Gap disturbance, ground microtopography, and the regeneration dynamics of boreal coniferous forests in Finland: a review. *Annales Zoologici Fennici* 31: 35-51.

## L

Labelle, M. 1992. Straying patterns of coho salmon (*Oncorhynchus kisutch*) stocks from southeast Vancouver Island, British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences* 49: 1843-1855.

Lacki, M. J., and R. A. Lanci. 1983. Changes in soil properties of forests rooted by wild boar. *Proceedings of the Annual Conference of the Southeastern Association of Fish and Wildlife Agencies* 37: 228-236.

LaHaye, W.S. 1988. Nest site selection and nesting habitat of the northern spotted owl (*Strix occidentalis caurina*) in northwestern California. Master's thesis. Humboldt State University, Arcata, California.

LaHaye, W. S., and R. J. Gutiérrez. 1999. Nest sites and nesting habitat of the northern spotted owl in northwestern California. *The Condor* 101: 324-330.

- Lamberson, R. H., R. L. Truex, W. J. Zielinski, and D. MacFarlane. 2000. Preliminary analysis of fisher population viability in the southern Sierra Nevada. Arcata, CA: Humboldt State University. (as cited in: Center for Biological Diversity. (no date). Status review of the southern Sierra Nevada population of the fisher (*Martes pennanti*). Accessed on the internet at <http://www.biologicaldiversity.org/swcbd/papers/fisher.html>)
- Lammi, A., P. Siikamaki, and K. Mustajarvi. 1999. Genetic diversity, population size, and fitness in central and peripheral populations of a rare plant *Lychnis viscaria*. *Conservation Biology* 13: 1069-1078.
- Landres, P. B., P. Morgan, and F. J. Swanson. 1999. Overview of the use of natural variability concepts in managing ecological systems. *Ecological Applications* 9: 1179–1188.
- Landreth, H. F., and D. E. Ferguson. 1967. Movements and orientation of the tailed frog, *Ascaphus truei*. *Herpetologica* 23: 81-93.
- Lane, L.J., Nichols, M.H., Paige, G.B. 1995. Modelling erosion on hillslopes: Concepts, theory, and data. Proc. Internat'l. Conf. on Modelling and Simulation (MODSIM'95), P. Binning, H. Bridgman and B. Williams (eds.), Nov. 27-30, Univ. of Newcastle, Newcastle, NSW, Australia, Uniprint, Perth, Australia, pp. 1-7.
- Lanier, J. W., and R. A. Joseph. 1989. Managing human recreational impacts on hacked or free-nesting peregrines. Pages 149-153 in B. G. Pendelton, editor. Proceedings of the northeast raptor management symposium and workshop. National Wildlife Federation, Washington, D. C.
- Larkin, P. A. 1988. Pacific salmon. Pages 153-183 in J. A. Gulland, editor. Fish population dynamics. John Wiley and Sons.
- Larsen, C. J. 1991. Report to the Fish and Game Commission: a status review of the marbled murrelet (*Brachyramphus marmoratus*) in California. Candidate Species Status Report 91-1. California Department of Fish and Game, Wildlife Management Division, Sacramento.
- Lassette, N. S., and R. R. Harris. 2001. The geomorphic and ecological influence of large woody debris in streams and rivers. University of California, Berkeley.
- Lawson, P. W. 1993. Cycles in ocean productivity, trends in habitat quality, and the restoration of salmon runs in Oregon. *Fisheries* (Bethesda) 18: 6-10.
- Lattin, J. D., and A. R. Moldenke. 1992. Ecologically sensitive invertebrate taxa of Pacific Northwest old-growth coniferous forest. Prepared for the Northern Spotted Owl Recovery Team. Other Species and Ecosystems Committee.
- Leck, M. A., V. T. Parker, and R. L. Simpson. 1989. Ecology of soil seed banks. Academic Press, San Diego, California.
- Ledwith, T. 1996. The effects of buffer strip width on air temperature and relative humidity in a stream riparian zone. *Watershed Management Council Networker* 6: 6-7.
- Leet, W. S., C. M. Dewees, and C. W. Haugen, editors. 1992. California's living marine resources and their utilization. Sea Grant Extension Publication UCSGEP-92-12. Sea Grant Extension Program, Department of Wildlife and Fisheries Biology, University of California, Davis.

- LeFranc, M. N., and B. A. Millsap. 1984 A summary of state and federal agency raptor management programs. *Wildlife Society Bulletin* 12: 274-282.
- Lehman, R. 1979. A survey of selected habitat features of 95 bald eagle nest sites in California. Administrative Report 79-1. California Department of Fish and Game, Wildlife Management Branch, Sacramento.
- Lehman, R. N., D. E. Craigie, P. L. Collins, and R. S. Griffen. 1980. An analysis of habitat requirements and site selection for nesting bald eagles in California. Report No. 43-9158-9-1871. Prepared for USDA Forest Service.
- Lehman, R. N., Allendorf, John W. 1989. The effects of fire, fire exclusion and fire management on raptor habitats in the western United States. Proceedings of the western raptor management symposium and workshop, October 26-28, 1987. Boise, Idaho Scientific and Technical Series, No. 12.
- Lehmkuhl, J. F., P. F. Hessburg, and R. L. Everett. 1994. Historical and current forest landscapes of eastern Oregon and Washington. Part I. Vegetation pattern and insect and disease hazards. General Technical Report PNW-GTR-328. USDA Forest Service. Portland, OR.
- Leider, S. A., M. W. Chilcote, and J. J. Loch. 1986. Comparative life history characteristics of hatchery and wild steelhead trout (*Salmo gairdneri*) of summer and winter races in the Kalama River, Washington. *Canadian Journal of Fisheries and Aquatic Sciences* 43: 1398-1409.
- Leonard, R D. 1980. Winter activity and movements, winter diet and breeding biology of the fisher (*Martes pennanti*) in southeastern Manitoba. Master's Thesis, University of Manitoba, Winnipeg.
- Leonard, W. P., H. A. Brown, L. L. C. Jones, K. R. McAllister, and R. M. Storm. 1993. Amphibians of Washington and Oregon. Seattle Audubon Society, Seattle, Washington.
- Leppig, G. 2004 (in press). Rare plants of Northern California coastal peatlands: patterns of endemism and phytogeography.
- Lesica, P., and F. W. Allendorf. 1995. When are peripheral populations valuable for conservation? *Conservation Biology* 9: 753-760.
- Leskiw, T., and R. J. Gutiérrez. 1998. Possible predation of a spotted owl by a barred owl. *Western Birds* 29: 225-226.
- Lestelle, L. C., and C. J. Cederholm. 1984. Short-term effects of organic debris removal on resident cutthroat trout. Pages 131-140 in W. R. Meehan, T. R. Merrell, Jr., and T. A. Hanley, editors. Fish and wildlife relationships in old-growth forests. American Institute of Fishery Research Biologists, Juneau, Alaska.
- Levy, S. 1997. The owl and the squirrel: of branches and burrows, forests and fairways. *Pacific Discovery Winter*: 14-21.
- Lewellen, G. T. 2003. Unpublished mammalogy lab notes - Fall 2003. K. Gallagher and J. Bailey, editors. West Texas A & M University, Canyon, Texas.



- Lewis, J. 1998. Evaluating the impacts of logging activities on erosion and suspended sediment transport in the Caspar Creek watersheds. Pages 55-69 in R. R. Ziemer, editor. Proceedings of the conference on coastal watersheds: the Caspar Creek story. General Technical Report PSW-GTR-168. USDA Forest Service, Pacific Southwest Research Station, Albany, California.
- Lewis, J. C., and B. C. Wales. 1993. Northern spotted owl pair successfully re-nests. *Journal of Field Ornithology* 64: 323-325.
- Lewis, J. C., and D. W. Stinson. 1998. Washington state status report for the fisher. Washington Department of Fish and Wildlife, Wildlife Management Program, Olympia, Washington.
- Lewis, J. C., and W. J. Zielinski. 1996. Historical harvest and incidental capture of fishers in California. *Northwest Science* 70: 291-297.
- Lewis, T. E., D. W. Lamphear, D. R. McCanne, A. S. Webb, J. P. Krieter, and W. D. Conroy. 2000. Regional assessment of stream temperatures across northern California and their relationship to various landscape-level and site-specific attributes. Forest Science Project, Humboldt State University Foundation, Arcata, California.
- Lewis, J., S. Mori, E. Keppeler, and R. Ziemer. 2001. Impacts of logging on storm peak flows, flow volumes and suspended sediment loads in Caspar Creek, California. Pages 85-125 in: M. S. Wigmosta and Steven J. Burges editors. *Land Use and Watersheds: Human Influence on Hydrology and Geomorphology in Urban and Forest Areas*. Water Science and Application Volume 2, American Geophysical Union, Washington, D.C.
- Li, S. K. 1981. Survey of the California freshwater shrimp, *Syncaris pacifica*, in Lagunitas Creek, Marin County, California, August 1981. Prepared for Marin Municipal Water District.
- Lichatowich, J. A. 1989. Habitat alteration and changes in abundance of coho (*Oncorhynchus kisutch*) and chinook (*O. tshawytscha*) salmon in Oregon's coastal streams. Pages 92-99 in C. D. Levings, L. B. Holtby and M. A. Henderson, editors. Proceedings of the national workshop on effects of habitat alteration on salmonid stocks. Canadian Special Publication of Fisheries and Aquatic Sciences No. 105.
- Licht, L. E. 1969. Comparative breeding biology of the red-legged frog (*Rana aurora aurora*) and the western spotted frog (*Rana pretiosa pretiosa*) in southwestern British Columbia. *Canadian Journal of Zoology* 47: 1287-1299.
- Licht, L. E. 1971. Breeding habits and embryonic thermal requirements of the frog, *Rana aurora aurora* and *Rana pretiosa pretiosa*, in the Pacific Northwest. *Ecology* 52: 116-124.
- Licht, L. E. 1974. Survival of embryos, tadpoles, and adult frogs, *Rana aurora aurora* and *Rana pretiosa pretiosa*, sympatric in southwestern British Columbia. *Canadian Journal of Zoology* 52: 613-627.
- Licht, L. E. 1986. Comparative escape behavior of sympatric *Rana aurora* and *Rana pretiosa*. *The American Midland Naturalist* 115: 239-247.
- Lienkaemper, G. W., and F. J. Swanson. 1987. Dynamics of large woody debris in streams in old-growth Douglas-fir forests. *Canadian Journal of Forest Research* 17: 150-156.

- Light, J. T., S. Fowler, and M. L. Dahlberg. 1988. High seas distribution of North American steelhead as evidenced by recoveries of marked or tagged fish. FRI-UW-8816. Fisheries Research Institute, University of Washington, Seattle.
- Ligon, F. K., A. A. Rich, G. Ryneanson, D. Thornburgh, and W. Trush. 1999. Report of the Scientific Review Panel on California's Forest Practice Rules and salmonid habitat. Prepared for The Resources Agency of California and the National Marine Fisheries Service, Sacramento, California.
- Likens, G. E., F. H. Bormann, N. M. Johnson, D. W. Fisher, and R. S. Pierce. 1970. Effects of forest cutting and herbicide treatment on nutrient budgets in the Hubbard Brook watershed-ecosystem. *Ecological Monographs* 40: 23-47.
- Lindsay, R. B., W. J. Knox, M. W. Flesher, B. J. Smith, E. A. Olsen, and L. S. Lutz. 1986. Study of wild spring chinook salmon in the John Day River system. 1985 Final Report, Contract DE-AI79-83BP39796, Project 79-4. Prepared by Oregon Department of Fish and Wildlife, Portland for Bonneville Power Administration, Portland, Oregon.
- Lindquist, J. L., and M. N. Palley. 1963. Empirical yield tables for young-growth redwood. California Agricultural Experiment Station Bulletin No. 796.
- Lisle, T. E. 1981. Roughness elements: a key resource to improve anadromous fish habitat. Pages 93-98 in T. J. Hassler, editor. Propagation, enhancement, and rehabilitation of anadromous salmonid populations and habitat in the Pacific Northwest symposium. California Cooperative Fishery Research Unit, Humboldt State University, Arcata.
- Lisle, T. E., and R. E. Eads. 1991. Methods to measure sedimentation of spawning gravels. Research Note PSW-411. U. S. Forest Service, Pacific Southwest Research Station, Berkeley, California.
- Lisle, T. E., and S. Hilton. 1991. Fine sediment in pools: an index of how sediment is affecting a stream channel. FHR Currents, Fish Habitat Relationship Technical Bulletin No. 6. U. S. Forest Service, Pacific Southwest Region, Redwood Sciences Laboratory, Arcata, California.
- Lisle, T. and M. Napolitano. 1998. Effects of recent logging on the main channel of North Fork Caspar Creek. In: Proceedings of the Conference on Coastal Watersheds: The Caspar Creek Story. USDA, United States Forest Service Pacific Southwest Research Station Gen. Tech. Rep. PSW-GTR-168. pp 81-86.
- Lisle, T. E., J. M. Nelson, J. Pitlick, M. A. Madej, and B. L. Barkett. 2000. Variability of bed mobility in natural, gravel-bed channels and adjustments to sediment load at local and reach scales. *Water Resources Research* 36: 3743-3755.
- Lister, D. B., and H. S. Genoe. 1970. Stream habitat utilization of cohabiting underyearlings of Chinook (*Oncorhynchus tshawytscha*) and coho (*O. kisutch*) salmon in the Big Qualicum River, British Columbia. *Journal of the Fisheries Research Board of Canada* 27: 1215-1224.
- Littell, R. C., G. A. Milliken, W. W. Stroup, and R. D. Wolfinger. 1996. SAS System for Mixed Models. SAS Institute Inc., Cary, North Carolina:
- Little, E. L., Jr. 1979. Checklist of United States trees (native and naturalized). *Agricultural Handbook* 541. USDA Department of Agriculture, Washington, D. C.

Long, L. E., S. S. Lorelei, and M. E. Soule. 1995. A pH/UV-B synergism in amphibians. *Conservation Biology* 9: 1301-1303.

Lonzarich, D. G., and T. P. Quinn. 1994. Experimental studies of the roles of brushy debris for stream fishes. Part B. Experimental evidence for the relationship of depth and structure to the distribution, growth and survival of stream fishes. Pages 87-98 in T. P. Quinn and N. P. Peterson, editors. The effects of forest practices on fish populations. Timber/Fish/Wildlife Report No. TFW-F4-94-001. Washington Department of Natural Resources, Olympia.

Lotspeich, F. B., and F. H. Everest. 1981. A new method for reporting and interpreting textural composition of spawning gravel. Research Note PNW-369. U. S. Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.

Lovejoy, B., and H. Black. 1974. Growth and weight of the mountain beaver, *Aplodontia rufa pacifica*. *Journal of Mammology* 55: 364-369.

Lovejoy, B. and H. Black. 1979. Population analysis of the mountain beaver, *Aplodontia rufa pacifica* in Western Oregon. *Northwest Science* 53: 82-89.

Louisiana-Pacific Corporation. 1997. Sustained yield plan for coastal Mendocino County. Calpella, California.

## M

Maahs, M., and J. Gilleard. 1994. Anadromous salmonid resources of Mendocino County coastal and inland rivers 1990-91 through 1991-92. An evaluation of rehabilitation efforts based on carcass recovery and spawning activity. Contract No. FG-9364. Salmon Trollers Marketing Association as funded by California Department of Fish and Game, Inland Fisheries Division, Fisheries Restoration Program.

MacDonald, L.H. 2000. Evaluating and managing cumulative effects: process and constraints. *Environmental Management* 26: 299-315.

MacDonald, J. S., I. K. Birtwell, and G. M. Kruzynski. 1987. Food and habitat utilization by juvenile salmonids in the Campbell River estuary. *Canadian Journal of Fisheries and Aquatic Sciences* 44: 1233-1246.

MacDonald, L. H., A. W. Smart, and R. C. Wissmar. 1991. Monitoring guidelines to evaluate effects of forestry activities on streams in the Pacific Northwest and Alaska. Report No. 910/9-91-001. U. S. Environmental Protection Agency, Region 10, Seattle, Washington and Center for Streamside Studies, University of Washington, Seattle.

MacKenzie, D. I., J. D. Nichols, G. B. Lachman, S. Droege, J. A. Royle, and C. A. Langtimm. 2002. Estimating site occupancy rates when detection probabilities are less than one. *Ecology* 83:2248-2255.

MacKenzie, D. I., J. D. Nichols, J. E. Hines, M. G. Knutson, and A. B. Franklin. 2003. Estimating site occupancy, colonization, and local extinction when a species is detected imperfectly. *Ecology* 84: 2200-2207.

- Mace, P. M. 1983. Predator-prey functional responses and predation by staghorn sculpins (*Leptocottus armatus*) on chum salmon fry (*Oncorhynchus keta*). Doctoral dissertation. University of British Columbia, Vancouver.
- Madej, M. A. 1982. Sediment transport and channel changes in an aggrading stream in the Puget Lowland, Washington. Pages 97-108 in F. J. Swanson, R. J. Janda, T. Dunne and D. N. Swanston, editors. Workshop on sediment budgets and routing in forested drainage basins: proceedings. General Technical Report PNW-141. U. S. Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.
- Malcom, J. R., and L. F. Pitelka. 2000. Prepared for the PEW Center on Global Climate Change.
- Manley, P. N., B. Van Horne, J. K. Roth, W. J. Zielinski, M. M. McKenzie, T. J. Weller, F. W. Weckerly, and C. Hargis. 2004. Multiple species inventory and monitoring technical guide. Unpublished report. USDA Forest Service
- Manly, B. J. F., L. L. McDonald, D. L. Thomas, T. L. McDonald, and W. P. Erickson. 2002. Resource selection by animals. Kluwer Academic Publishers, Dordrecht, The Netherlands.
- Mannan, R. W., E. C. Meslow, and H. M. Wight. 1980. Use of snags by birds in Douglas-fir forests, western Oregon. *Journal of Wildlife Management* 44: 787-797.
- Manning, T., and C. C. Maguire. 1999. A new elevation record for the red tree vole in Oregon: implications for National Forest management. *American Midland Management* 142: 421-423.
- Manuwal, D.A. 1991. Spring bird communities in the southern Washington Cascade Range. In *Wildlife and Vegetation of Unmanaged Douglas-Fir Forests*. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, OR.
- Marco, A., D. Cash, L. K. Belden, and A. R. Blaustein. 2001. Sensitivity to urea fertilization in three amphibian species. *Archives of Environmental Contamination and Toxicology* 40: 406-409.
- Marion, D. A. 1981. Landslide occurrence in the Blue River drainage, Oregon. Master's thesis. Oregon State University, Corvallis.
- Marshall, D. B. 1988. Status of the marbled murrelet in North America: with special emphasis on populations in California, Oregon, and Washington. *Biological Report* 88(30). U. S. Fish and Wildlife Service, Washington, D. C. 19pp.
- Marshall, D. B., M. W. Chilcote, and H. Weeks. 1996. *Species at risk: sensitive, threatened and endangered vertebrates of Oregon*. Second edition. Oregon Department of Fish and Wildlife, Portland.
- Marshall, D. E., and E. W. Britton. 1990. Carrying capacity of coho salmon streams. *Canadian Manuscript Report of Fisheries and Aquatic Sciences* 2058: 32 p.
- Marshall, J. 1999. Pre-harvest inspection report for THP 1-99-494 MEN, Howard Forest, Mendocino County, California. California Department of Forestry and Fire Protection, Santa Rosa, California.

- Marston, D. 1992. June-July 1992 stream survey report of lower Scott Creek, Santa Cruz County. California Department of Fish and Game.
- Martin, D. J., L. J. Wasserman, and V. H. Dale. 1986. Influence of riparian vegetation on post-eruption survival of coho salmon fingerlings on the westside streams of Mount St. Helens. *North American Journal of Fisheries Management* 6: 1-8.
- Martin, P. 1971. Movements and activities of the mountain beaver (*Aplodontia rufa*). *Journal of Mammology* 52: 717-723.
- Marzluff, J. M., J. Luginbuhl, E. Neatherlin, M. G. Raphael, D. M. Evans, D. E. Varland, L. S. Young, S. P. Horton, M. Phillipart, J. Carlson, J. Bradley, and T. Hirzel. 1997. Marbled murrelet predation risk on the Olympic Peninsula. Fiscal year reports of 1995 and 1996. Sustainable Ecosystems Institute; USDA Forest Service, Pacific Northwest Research Station, Olympia, Washington; and Washington Department of Natural Resources, Olympia.
- Maser, C. 1965. Life histories and ecology of *Phenacomys albipes*, *Phenacomys longicaudus*, and *Phenacomys silvicola*. Master's thesis. Oregon State University, Corvallis.
- Maser, C., R. G. Anderson, and K. Cormack, Jr. 1979. Dead and down woody material. Pages 78-95 in J. W. Thomas, editor. *Wildlife habitats in managed forests: the Blue Mountains of Oregon and Washington*. Agricultural Handbook No. 553. United States Department of Agriculture, Washington, D.C.
- Maser, C., B. R. Mate, J. F. Franklin, and C. T. Dyrness. 1981. Natural history of Oregon coast mammals. General Technical Report PNW-133. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Maser, C., J. M. Trappe, and R. A. Nussbaum. 1978. Fungal-small mammal inter-relationships with emphasis on Oregon coniferous forests. *Ecology* 59: 799-809.
- Maser, C., R. F. Tarrant, J. M. Trappe, and J. F. Franklin, technical editors. 1988. *From the forest to the sea: a story of fallen trees*. Gen. Tech. Rep. PNW-GTR-229. 153pp.
- Mason, J. C. 1974. A further appraisal of the response to supplemental feeding of juvenile coho (*O. kisutch*) in an experimental stream. Technical Report 470. Fisheries and Marine Service, Pacific Biological Station, Nanaimo, British Columbia.
- Mason, J. C. 1976a. Some features of coho salmon, *Oncorhynchus kisutch*, fry emerging from simulated redds and concurrent changes in photobehavior. *Fishery Bulletin* 74: 167-175.
- Mason, J. C. 1976b. Response of underyearling coho salmon to supplemental feeding in a natural stream. *Journal of Wildlife Management* 40: 775-788.
- Mason, J. C., and D. W. Chapman. 1965. Significance of early emergence, environmental rearing capacity and behavioral ecology of juvenile coho salmon in stream channels. *Journal of the Fisheries Research Board of Canada* 22: 173-190.
- Mason, J. E. 1966. The migrant dipper: a trap for downstream-migrating fish. *The Progressive Fish-Culturist* 28: 96-102.

- Mathisen, J. E. 1968. Effects of human disturbance on nesting of bald eagles. *Journal of Wildlife Management* 32: 1-6.
- Mattson, D. J., S. Herrero, R. G. Wright, and C. M. Pease. 1996. Science and management of Rocky Mountain grizzly bears. *Conservation Biology* 10: 1013-1025.
- Mattson, W.J., and N. D. Addy. 1975. Phytophagous insects as regulators of forest primary production. *Science* 190: 515-522.
- May, C. L. 2002. Debris flows through different forest age classes in the central Oregon coast range. *Journal of American Water Resource Association*. 38: 1097-1113.
- May, C. L., and R. E. Gresswell. 2003. Processes and rates of sediment and wood accumulation in headwater streams of the Oregon Coast Range, USA. *Earth Surface Processes and Landforms* 28: 409-424.
- Mayer, J. M., and I. L. Brisbin 1991. *Wild pigs in the United States: their history, comparative morphology, and current status*. University of Georgia Press, Athens, Georgia, USA.
- Mayer, K.E., and W.F. Laudenslayer, editors. 1988. *A guide to wildlife habitats of California*. California Department of Forestry and Fire Protection. 166 pp.
- Mazurek, M. J., and W. J. Zielinski. 2004. Individual legacy trees influence vertebrate wildlife diversity in commercial forests. *Forest Ecology and Management* 193: 321-334.
- McAllister, T. 1988. Cormorants harassed to save smolts. *The Portland Oregonian*. 15 May.
- McBain and Trush. 2000. Spawning gravel composition and permeability within the Garcia River watershed, California. Report prepared for: Mendocino Resource Conservation District, Ukiah, California.
- McCabe, G. T., Jr., W. D. Muir, R. L. Emmett, and J. T. Durkin. 1983. Interrelationships between juvenile salmonids and nonsalmonid fish in the Columbia River estuary. *Fishery Bulletin* 81: 815-826.
- McCalpin, J. 1984. Preliminary age classification of landslides for inventory mapping: 21st annual symposium on engineering geology and soils engineering. Pocatello, Idaho. 5-6 April 1984.
- McCain, M. E. 1992. Comparison of habitat use and availability for juvenile fall chinook salmon in a tributary of the Smith River, California. *FHR Currents* No. 7. USDA Forest Service, Region 5.
- McCarthy, B. C., and R. R. Bailey. 1994. Distribution and abundance of coarse woody debris in a managed forest landscape of the central Appalachians. *Canadian Journal of Forest Research* 24: 1317-1329.
- McClelland, B. R. 1979. The pileated woodpecker in managed forests of the northern Rocky Mountains. Pages 283-299 in J. G. Dickson, R. N. Conner, R. R. Fleet, J. C. Kroll, and J. A. Jackson, editors. *The role of insectivorous birds in forest ecosystems*. Academic Press, New York.

- McClelland, D. E., Foltz, R. B., Wilson, W. D., Cundy, T. W., Heinemann, R., Saurbier, J.A., and Schuster, R.L. 1997. Assessment of the 1995 & 1996 floods and landslides on the Clearwater National Forest, Part I: Landslide assessment. USDA Forest Service, Northern Region, Missoula, Montana.
- McComb, W. C., K. McGarigal, and R. G. Anthony. 1993. Small mammal and amphibian abundance in streamside and upslope habitats of mature Douglas-fir stands, western Oregon. *Northwest Science* 67: 7-15.
- McCuddin, M. E. 1977. Survival of salmon and trout embryos and fry in gravel-sand mixtures. Master's thesis. University of Idaho, Moscow.
- McCullough, D. A., S. Spalding, D. Sturdevant, and M. Hicks. 2001. Summary of technical literature examining the physiological effects of temperature on salmonids. Issue Paper 5, EPA-910-D-01-005. U. S. Environmental Protection Agency, Washington, D. C.
- McCune, B. 1997. *Macrolichens of the Pacific Northwest*. Oregon State University Press, Corvallis, Oregon.
- McDade, M. H., F. J. Swanson, W. A. McKee, J. F. Franklin, and J. Van Sickle. 1990. Source distances for coarse woody debris entering small streams in western Oregon and Washington. *Canadian Journal of Forest Research* 20: 326-330.
- McDonald, T. L. 2003. Review of environmental monitoring methods: survey designs. *Environmental Monitoring and Assessment* 85: 277-292.
- McEwan, D., and T. A. Jackson. 1996. Steelhead restoration and management plan for California. Management Report. California Department of Fish and Game, Inland Fisheries Division, Sacramento.
- McFadden, J. T. 1969. Dynamics and regulation of salmonid populations in streams. Pages 313-329 in T. G. Northcote, editor. *Symposium on salmon and trout in streams*. H. R. MacMillan Lectures in Fisheries, University of British Columbia, Vancouver.
- McGie, A. M. 1984. Commentary: evidence for density-dependence among coho salmon stocks in the Oregon Production Index Area. Pages 37-49 in W. G. Pearcy, editor. *The influence of ocean conditions on the production of salmonids in the North Pacific*. Oregon State University Sea Grant Publication, Corvallis.
- McIver, J. D., A. R. Moldenke, and G. L. Parsons. 1990. Litter spiders as bioindicators after clearcutting in a western coniferous forest. *Northwest. Env. Jnl.* 6: 410-412.
- McMahon, T. E. 1983. Habitat suitability index models: coho salmon. Report FWS/OBS-82/10.49. U. S. Fish and Wildlife Service, Western Energy and Land Use Team, Washington, D. C.
- McMahon, T. E., and G. F. Hartman. 1989. Influence of cover complexity and current velocity on winter habitat use by juvenile coho salmon (*Oncorhynchus kisutch*). *Canadian Journal of Fisheries and Aquatic Sciences* 46: 1551-1557.

- McMahon, T. E., and L. B. Holtby. 1992. Behavior, habitat use, and movements of coho salmon (*Oncorhynchus kisutch*) smolts during seaward migration. *Canadian Journal of Fisheries and Aquatic Sciences* 49: 1478-1485.
- McMahon, T., and G. Reeves. 1989. Large woody debris and fish. Paper presented at the COPE workshop "Silvicultural management of riparian areas for multiple resources" held at Salishan Lodge, Glenden Beach, Oregon on 12-13 December 1989. U. S. Forest Service Pacific Northwest Research Station, Portland and Oregon State University College of Forestry, Corvallis.
- McNeil, W. J. 1962a. Variations in the dissolved oxygen content of intragravel water in four spawning streams of southeastern Alaska. *Special Scientific Report - Fisheries* 402. U. S. Fish and Wildlife Service.
- McNeil, W. J. 1962b. Mortality of pink and chum salmon eggs and larvae in southeast Alaska streams. Doctoral dissertation. University of Washington, Seattle.
- McNeil, W. J. 1966. Effect of the spawning bed environment on reproduction of pink and chum salmon. *U. S. Fish and Wildlife Service Fishery Bulletin* 65: 495-523.
- McNeil, W. J., and W. H. Ahnell. 1964. Success of pink salmon spawning relative to size of spawning bed materials. *Special Scientific Report - Fisheries* 469. U. S. Fish and Wildlife Service.
- McPhee, C., and M. A. Brusven. 1976. The effect of river fluctuations resulting from hydroelectric peaking on selected aquatic invertebrates and fish. Submitted to U. S. Department of the Interior, Office of Water Research and Technology by Idaho Water Resources Research Institute, University of Idaho, Moscow.
- McShane, C., T. Hamer, H. Carter, G. Swartzman, V. Friesen, D. Ainley, R. Tressler, K. Nelson, A. Burger, L. Spear, T. Mohagen, R. Martin, L. Henkel, K. Pindle, C. Strong, and J. Keany. 2004. Evaluation report for the 5-year status review of the marbled murrelet in Washington, Oregon, and California. Unpublished report. EDAW, Inc. Seattle, Washington. Prepared for the U. S. Fish and Wildlife Service, Region 1. Portland, Oregon.
- Meehan, W. R., T. R. Merrell Jr., and T. A. Hanley, editors. 1984. Fish and wildlife relationships in old-growth forests. *American Institute of Fishery Research Biologists*.
- Meehan, W. R. 1991. Introduction and Overview. Page 6 in W. R. Meehan, editor. *Influences of forest and rangeland management on salmonid fishes and their habitats*. American Fisheries Society Special Publication No. 19, Bethesda, Maryland.
- Meehan, W. R., and T. C. Bjornn. 1991. Salmonid distributions and life histories. Pages 47-82 in W. R. Meehan, editor. *Influences of forest and rangeland management on salmonid fishes and their habitats*. American Fisheries Society Special Publication No. 19, Bethesda, Maryland.
- Meehan, W. R., and D. B. Siniff. 1962. A study of the downstream migrations of anadromous fishes in the Taku River, Alaska. *Transactions of the American Fisheries Society* 91: 399-407.
- Megahan, W. F., N. F. Day, and T. M. Bliss. 1978. Landslide occurrence in the western and central Northern Rocky Mountain physiographic province in Idaho. Pages 116-139 in *Proceedings of the 5th North American Forest Soils Conference*, Colorado State University, Fort Collins.



- Meineke, E. P. 1929. A report upon the effect of excessive tourist travel on the California Redwood Parks. California State Printing Office, Sacramento.
- Meiselman, N. 1987. Red tree vole habitat and microhabitat utilization in Douglas-fir forests of northern California. Final Report. California Department of Fish and Game, Wildlife Management Division.
- Meiselman, N., and A. T. Doyle. 1996. Habitat and microhabitat use by the red tree vole *Phenacomys longicaudus*. The American Midland Naturalist 135: 33-42.
- Mellen, T. K. 1987. Home range and habitat use by pileated woodpeckers. Master's thesis. Oregon State University, Corvallis.
- Mellen, T. K., E. C. Meslow, and R. W. Mannan. 1992. Summertime home range and habitat use of pileated woodpeckers in western Oregon. Journal of Wildlife Management 56: 96-103.
- Menges, E. S., and D. R. Gordon. 1996. Three levels of monitoring intensity for rare plant species. Natural Areas Journal 16(3): 227-237.
- Messer, R. J., and J. H. Brumbaugh. 1989. The distribution and status of the California freshwater shrimp, *Syncaris pacifica*, (Holmes). Final report. Prepared for California Department of Fish and Game.
- Metter, D. E. 1963. Stomach contents of Idaho larval *Dicamptodon*. Copeia 1963: 435-435.
- Metter, D. E. 1964a. A morphological and ecological comparison of two populations of the tailed frog *Ascaphus truei* Stejneger. Copeia 1964: 181-195.
- Metter, D. E. 1964b. On breeding and sperm retention in *Ascaphus*. Copeia 1964: 710-711.
- Metter, D. E. 1967. Variation in the ribbed frog *Ascaphus truei* Stejneger. Copeia 1967: 634-649.
- Metter, D. E. 1968. The influence of floods on population structure of *Ascaphus truei* Stejneger. Journal of Herpetology 1: 105-106.
- Metter, D. E., and R. J. Pauken. 1969. An analysis of the reduction of gene flow in *Ascaphus truei* in the northwest U. S. since the Pleistocene. Copeia 1969: 301-307.
- Milhous, R. T. 1982. Effect of sediment transport and flow regulation on the ecology of gravel-bed rivers. Pages 819-841 in R. D. Hey, J. C. Bathurst and C. R. Thorne, editors. Gravel bed rivers. John Wiley and Sons, New York: 819-841.
- Miller, D. J., and R. N. Lea. 1972. Guide to the coastal marine fishes of California. Fish Bulletin No. 157. California Department of Fish and Game.
- Miller, G. S. 1989. Dispersal of juvenile northern spotted owls in western Oregon. Master's thesis. Oregon State University, Corvallis.
- Miller, G. S., S. R. Beissinger, H. R. Carter, B. Csuti, T. E. Hamer, and D. A. Perry. 1995. Draft recovery plan for the threatened marbled murrelet (*Brachyramphus marmoratus*) in Washington, Oregon, and California. U. S. Fish and Wildlife Service, Region 1, Portland, Oregon.

- Miller, S. L., and C. J. Ralph. 1996. Relationship of marbled murrelets with habitat characteristics in redwood forests in northwestern California. Pages 127-129 in J. LeBlanc, editor. Proceedings of the conference on coast redwood forest ecology and management. University of California, Cooperative Extension, Forestry.
- Mills, L. S. 1995. Edge effects and isolation: red-backed voles on forest remnants. *Conservation Biology* 9: 395-403.
- Mills, T. J., and C. E. Wilson. 1991. Chapter III -- Job III. Life history, distribution, run size and angler harvest of steelhead in the South Fork Trinity River Basin. R. Carpenter and K. Urquhart, editors. Annual report of the Trinity River Basin salmon and steelhead monitoring project: 1988-1989 season. CDFG, Inland Fisheries Division, Sacramento, California.
- Mills, T. J., D. R. McEwan, and M. R. Jennings. 1997. California salmon and steelhead: beyond the crossroads. Pages 91-111 in D. J. Stouder, P. A. Bisson and R. J. Naiman, editors. Pacific salmon and their ecosystems: status and future options. Chapman and Hall, New York.
- Minakawa, N., and G. F. Kraft. 1999. Fall and winter diets of juvenile coho salmon in a small stream and an adjacent pond in Washington State. *Journal of Freshwater Ecology* 14: 249-254.
- Minshall, G. W. 1984. Aquatic insect-substratum relationships. Pages 358-400 in V. H. Resh and D. M. Rosenberg, editors. The ecology of aquatic insects. Praeger, New York.
- Moldenke, A.R. 1990. One hundred twenty thousand little legs. *Wings* 15: 11-14.
- Moller, A. P., and J. Erritzoe. 1996. Parasite virulence and host immune defense: host immune response is related to nest reuse in birds. *Evolution* 50: 2066-2072.
- Montgomery, D. R., and J. M. Buffington. 1993. Channel classification, prediction of channel response, and assessment of channel condition. Report No. TFW-SH10-93-002. Prepared by Department of Geological Sciences and Quaternary Research Center, University of Washington, Seattle for SHAMW Committee of the Timber/Fish/Wildlife Agreement, Washington Department of Natural Resources, Olympia.
- Montgomery, D. R., J. M. Buffington, R. D. Smith, K. M. Schmidt, and G. Pess. 1995. Pool spacing in forest channels. *Water Resources Research* 31: 1097-1105.
- Montgomery, D. R., K. M. Schmidt, H. M. Greenberg, and W. E. Dietrich. 2000. Forest clearing and regional landsliding. *Geology* 28: 311-314.
- Mora, M. A. 1997. Transboundary pollution: persistent organochlorine pesticides in migrant birds of the southwestern United States and Mexico. *Environmental Toxicology and Chemistry* 16: 3-11.
- Morey, S. 1988. Foothill yellow-legged frog *Rana boylei*. Pages 86-87 in D. C. Zeiner, W. F. L. Jr., K. E. Mayer and M. White, editors. California's wildlife. Volume I. Amphibians and reptiles. California Statewide Habitat Relationships System. California Department of Fish and Game, Sacramento.

- Moring, J. R. 1975. The Alsea watershed study: effects of logging on the aquatic resources of three headwater streams of the Alsea River, Oregon. Part 2 - Changes in environmental conditions. Fishery Research Report 9. Oregon Department of Fish and Wildlife, Corvallis.
- Moring, J. R. 1982. Decrease in stream gravel permeability after clear-cut logging: an indication of intragravel conditions for developing salmonid eggs and alevins. *Hydrobiologica* 88: 295-298.
- Moring, J. R., and R. L. Lantz. 1974. Immediate effects of logging on the freshwater environment of salmonids. Report 58. Oregon Wildlife Commission, Research Division, Portland.
- Moring, J. R., and R. L. Lantz. 1975. The Alsea watershed study: effects of logging on the aquatic resources of three headwater streams of the Alsea River, Oregon. Part 1--Biological studies. Fishery Research Report 9. Oregon Department of Fish and Wildlife, Portland, Oregon.
- Morrison, P. H. 1975. Ecological and geomorphological consequences of mass movement in the Alder Creek watershed and implications for forest land management. Bachelor thesis. University of Oregon, Eugene.
- Morrison, P.H. 1988. Old growth in the Pacific Northwest: a status report. The Wilderness Society, Seattle, WA.
- Morrison, P.H. 1991. Ancient forests in the Pacific Northwest: analysis and maps of twelve national forests. In Ancient forests existing in 1989 and northern spotted owl habitat conservation areas. The Wilderness Society, Washington D.C.
- Morrison, P. H., and F. J. Swanson. 1990. Fire history and pattern in a Cascade Mountain landscape. General Technical Report PNW-GTR-254. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Moser, M. L., A. F. Olson, and T. P. Quinn. 1991. Riverine and estuarine migratory behavior of coho salmon (*Oncorhynchus kisutch*) smolts. *Canadian Journal of Fisheries and Aquatic Sciences* 48: 1670-1678.
- Moyle, P. B. 1973. Effects of introduced bullfrogs, *Rana catesbeiana*, on the native frogs of San Joaquin Valley, California. *Copeia* 1973: 18-22.
- Moyle, P. B. 1976. Inland fishes of California. First edition. University of California Press, Berkeley.
- Moyle, P. B. 2002. Inland fishes of California. Revised edition. University of California Press, Berkeley.
- Moyle, P. B., J. E. Williams, and E. D. Wikramanayake. 1989. Fish species of special concern of California. Final Report. Prepared by Department of Wildlife and Fisheries Biology, University of California, Davis for California Department of Fish and Game, Inland Fisheries Division, Rancho Cordova.

Moyle, P. B., R. M. Yoshiyama, J. E. Williams, and E. D. Wikramanayake. 1995. Fish species of special concern in California. Final Report. Prepared by Department of Wildlife and Fisheries Biology, University of California, Davis for California Department of Fish and Game, Inland Fisheries Division, Rancho Cordova.

MRC. 1999. Summary of fish index site monitoring in watersheds within Mendocino Redwood Company's ownership in Mendocino and Sonoma counties: 1987–1996. MRC, Fort Bragg, California.

MRC. 2001. Murrelet survey database. MRC, Fort Bragg, California.

MRC. 2002 (December). Water drafting tests for summer 2002 for select water holes of the Mendocino Redwood Company forest lands.

MRC. 2002a. Aquatic species distribution on Mendocino Redwood Company forestlands 1994-1996, 2000-2002. MRC, Fort Bragg, California.

MRC. 2002b. Hollow Tree Creek juvenile salmonid out-migrant trapping program update. Unpublished report. MRC, Fort Bragg, California.

MRC. 2002c. Mendocino Redwood Company incidental sighting database. MRC, Fort Bragg, California.

MRC. 2002d. Unpublished amphibian data from surveys conducted in 2001. MRC, Fort Bragg, California.

MRC. 2007. Elk Creek watershed analysis. Internal report. Fort Bragg, California.  
<http://www.mrc.com/monitoring/watershed.html>.

MRC. 2007. Unpublished Point Arena mountain beaver data. MRC, Fort Bragg, California.

MRC. 2008. Distribution of Coastal Tailed Frogs (*Ascaphus truei*), Red-Legged Frogs (*Rana aurora spp.* ), and Southern Torrent Salamanders (*Rhyacotriton variegatus*) on Mendocino Redwood Company Forestlands. 129 pp.

MRC. 2009. Planning agreement between the Mendocino Redwood Company and the California Department of Fish and Game regarding the Mendocino Redwood Company Natural Communities Conservation Plan. Original 2003. 21 pp.

Mundie, J. H. 1969. Ecological implications of the diet of juvenile coho in streams. Pages 135-152 in T. G. Northcote, editor. Symposium on salmon and trout in streams. H. R. MacMillan Lectures in Fisheries, University of British Columbia, Vancouver.

Munz, P.A. and D.D. Keck. 1959. A California Flora. University of California Press. Berkeley, CA. 1681 pp.

Munz, P. A and D. D Keck. 1968. A California Fauna. University of California Press, Berkeley, CA.

- Murphy, J. R. 1965. Nest site selection by the bald eagle in Yellowstone National Park. Utah Academic Proceedings 42: 261-264.
- Murphy, M. L. 1995. Forestry impacts on freshwater habitat of anadromous salmonids in the Pacific Northwest and Alaska--requirements for protection and restoration. NOAA Coastal Ocean Program, Decision Analysis Series No. 7. National Oceanic and Atmospheric Administration, Coastal Ocean Office, Silver Spring, Maryland.
- Murphy, M. L., and J. D. Hall. 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., and K. V. Koski. 1989. Input and depletion of woody debris in Alaska streams and implications for streamside management. North American Journal of Fisheries Management 9: 427-436.
- Murphy, M. L., and W. R. Meehan. 1991. Stream ecosystems. Pages 17-46 in W. R. Meehan, editor. Influences of forest and rangeland management on salmonid fishes and their habitats. American Fisheries Society Special Publication No. 19.
- Murphy, M. L., C. P. Hawkins, and N. H. Anderson. 1981. Effects of canopy modification and accumulated sediment on stream communities. Transactions of the American Fisheries Society 110:469-478.
- Murphy, M. L., J. F. Thedinga, K. V. Koski, and G. B. Grette. 1984. A stream ecosystem in an old-growth forest in southeast Alaska. Part V. Seasonal changes in habitat utilization by juvenile salmonids. Pages 89-98 in W. R. Meehan, T. R. Merrell, Jr., and T. A. Hanley, editors. Fish and wildlife relationships in old-growth forests. American Institute of Fishery Research Biologists, Juneau, Alaska.
- Murphy, M. L., J. Heifetz, S. W. Johnson, K. V. Koski, and J. F. Thedinga. 1986. Effects of clear-cut logging with and without buffer strips on juvenile salmonids in Alaskan streams. Canadian Journal of Fisheries and Aquatic Sciences 43: 1521-1533.
- Murphy, M. L., J. Heifetz, J. F. Thedinga, S. W. Johnson, and K. V. Koski. 1989. Habitat utilization by juvenile Pacific salmon (*Oncorhynchus*) in the glacial Taku River, southeast Alaska. Canadian Journal of Fisheries and Aquatic Sciences 46: 1677-1685.
- Murphy, M. L., K. V. Koski, J. Heifetz, S. W. Johnson, D. Kirchhofer, and J. F. Thedinga. 1985. Role of large organic debris as winter habitat for juvenile salmonids in Alaska streams. Proceedings of the Western Association of Fish and Wildlife Agencies 64: 251-262.
- Myers, K. W., and H. F. Horton. 1982. Temporal use of an Oregon estuary by hatchery and wild juvenile salmon. Pages 377-392 in V. S. Kennedy, editor. Estuarine comparisons. Academic Press, New York.
- Myers, J. M., R. G. Kope, G. J. Bryant, D. Teel, L. J. Lierheimer, T. C. Wainwright, W. S. Grant, F. W. Waknitz, K. Neely, S. T. Lindley, and R. S. Waples. 1998. Status review of chinook salmon from Washington, Idaho, Oregon, and California. U. S. Dept. Commerce, NOAA Tech. Memo. NMFS – NMFS – 35, 443 p.

**N**

- Naiman, R. J., T. J. Beechie, L. E. Benda, D. R. Berg, P. A. Bisson, L. H. MacDonald, M. D. O'Connor, P. L. Olson, and E. A. Steel. 1992. Fundamental elements of ecologically healthy watersheds in the Pacific Northwest coastal ecoregion. Pages 127-188 in R. J. Naiman, editor. *Watershed management: balancing sustainability and environmental change*. Springer-Verlag, New York.
- Naiman, R. J., R. E. Bilby, and P. A. Bisson. 2000. Riparian ecology and management in the Pacific coastal rain forest. *BioScience* 50: 996-1011.
- Nakamoto, R. 1998. Effects of timber harvest on aquatic vertebrates and habitat in the North Fork Caspar Creek. In: *Proceedings of the Conference on Coastal Watersheds: The Caspar Creek Story*. USDA, United States Forest Service Pacific Southwest Research Station Gen. Tech. Rep. PSW-GTR-168. pp 87-96.
- Nakamoto, R. J., and B. C. Harvey. 2002. Spatial, seasonal, and size-dependent variation in the diet of Sacramento pikeminnow in the Eel River, northwestern California. Unpublished data. USDA Forest Service, Pacific Southwest Research Station, Arcata, California.
- Nakamura, F., and F. J. Swanson. 1993. Effects of coarse woody debris on morphology and sediment storage of a mountain stream system in western Oregon. *Earth Surface Processes and Landforms* 18: 43-61.
- Nakamura, F., and F. J. Swanson. 1994. Distribution of coarse woody debris in a mountain stream, western Cascade Range, Oregon. *Canadian Journal of Forest Research* 24: 2395-2403.
- Nakamura, G., and J. K. Nelson, editors. 2001. *Illustrated guide to selected rare plants of northern California*. Publication 3395. University of California, Agriculture and Natural Resources, Oakland, California.
- Napolitano, M. B. 1998. Persistence of historical logging impacts on channel form in mainstem North Fork Caspar Creek. Pages 97-101 in R. R. Ziemer, editor. *Proceedings of the conference on coastal watersheds: the Caspar Creek story*. General Technical Report PSW-GTR-168. USDA Forest Service, Pacific Southwest Research Station, Albany, California.
- Naslund, N. L. 1993. Why do marbled murrelets attend old-growth forest nesting areas year-round? *The Auk* 110: 594-602.
- NatureServe. 2004. Natural heritage methodology: supporting interoperability within the NatureServe network. Accessed on the internet at: <http://www.natureserve.org/prodServices/heritagemethodology.jsp>
- NatureServe. 2007. NatureServe Conservation Status. NatureServe Explorer: An online encyclopedia of life [web application]. Version 6.2. NatureServe, Arlington, Virginia. Accessed on the internet November 2007: <http://www.natureserve.org/explorer/ranking.htm>.

Nature Conservancy, The. 1999. Pileated woodpecker (*Dryocopus pileatus*). Wings Info Resources, Species Information and Management Abstracts. Accessed on the internet April 2002 at <http://www.tnc.org/wings/wingsresource/piwo.html>

Nawa, R. K., C. A. Frissell, and W. J. Liss. 1990. Life history and persistence of anadromous fish stocks in relation to stream habitats and watershed classification. Annual Progress Report, Project No. F-122-R. Prepared by Oak Creek Laboratory of Biology, Department of Fisheries and Wildlife, Oregon State University, Corvallis for Oregon Department of Fish and Wildlife, Portland.

NCASI (National Council of the Paper Industry for Air and Stream Improvement). 2001. Forest Roads and Aquatic Ecosystems: A Review of Causes, Effects, and Management Practices. NCASI Forest Watershed Task Group, Corvallis, Oregon.

NCRWQCB (North Coast Regional Water Quality Control Board). 1996. Water quality control plan for the North Coast region, Santa Rosa, California.

NCRWQCB (North Coast Regional Water Quality Control Board). 1997. Garcia River water quality attainment strategy. Santa Rosa, CA.

NCRWQCB (North Coast Regional Water Quality Control Board). 1998. Water quality attainment strategy for the Garcia River. Santa Rosa, CA.

NCWAP (North Coast Watershed Assessment Program). 2002. Gualala watershed synthesis report. Public review draft. California Resources Agency and California Environmental Protection Agency.

Neal, F., and J. Borrecco. 1981. Distribution and relationship of mountain beaver to openings in sapling stands. Northwest Science 55: 79–82.

Neary, Daniel G.; Ryan, Kevin C.; DeBano, Leonard F., eds. 2005. (revised 2008). Wildland fire in ecosystems: effects of fire on soils and water. Gen. Tech. Rep. RMRS-GTR-42-vol.4. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 250 p.

Neave, F. 1943. Diurnal fluctuations in the upstream migration of coho and spring salmon. Journal of the Fisheries Research Board of Canada 6: 158-163.

Neave, F. 1948. Fecundity and mortality in Pacific salmon. Proceedings of the Transactions of the Royal Society of Canada Series 3 42: 99-105.

Neave, F. 1949. Game fish populations of the Cowichan River. Bulletin of the Fisheries Research Board of Canada 84: 1-32.

Neave, F., and W. P. Wickett. 1953. Factors affecting the freshwater development of Pacific salmon in British Columbia. Proceedings of the 7th Pacific Science Congress 1949: 548-556.

Needham, P. R., and A. C. Taft. 1934. Observations on the spawning of steelhead trout. Transactions of the American Fisheries Society 64: 332-338.

Nehlsen, W., J. E. Williams, and J. A. Lichatowich. 1991. Pacific salmon at the crossroads: stocks at risk from California, Oregon, Idaho, and Washington. Fisheries 16: 4-21.

- Neitro, W. A., V. W. Binkley, S. P. Cline, R. W. Mannan, B. G. Marcot, D. Taylor, and F. F. Wagner. 1985. Snags (wildlife trees). Pages 129-169 in E. R. Brown, editor. Management of wildlife and fish habitats in forests of western Oregon and Washington. USDA Forest Service, Pacific Northwest Region, Portland, Oregon.
- Nelson, S. K. 1988. Habitat use and densities of cavity nesting birds in the Oregon coast ranges. Master's thesis. Oregon State University, Corvallis.
- Nelson, S. K. 1997. Marbled murrelet (*Brachyramphus marmoratus*). Pages No. 276 in A. Poole and F. Gill, editors. The birds of North America. The Academy of Natural Sciences, Philadelphia, Pennsylvania and The American Ornithologists' Union, Washington, D. C.
- Nelson, S. K., and A. K. Wilson. 2002. Marbled murrelet habitat characteristics of state lands in western Oregon. Final report. Submitted to Oregon Department of Forestry, Salem, Oregon and Oregon Department of Fish and Wildlife, Portland, Oregon.
- Nelson, S. K., and T. E. Hamer. 1995a. Nesting biology and behavior of the marbled murrelet. Pages 57-67 in C. J. Ralph, G. L. Hunt, Jr., M. G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.
- Nelson, S. K., and T. E. Hamer. 1995b. Nest success and the effects of predation on marbled murrelets. Pages 89-97 in C. J. Ralph, G. L. H. Jr., M. G. Raphael and J. F. Piatt, editor. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. USDA Forest Service, Pacific Southwest Research Station, Albany, California.
- Nelson, S. K., and S. Singer. 1994. Marbled murrelet. Pages 188-190 in C. G. Thelander and M. Crabtree, editors. Life on the edge: a guide to California's endangered natural resources: wildlife. Biosystems Books, Santa Cruz, California.
- Neter, J., M. H. Kutner, C. J. Nachtsheim, and W. Wasserman. 1996. Applied linear statistical models. Fourth edition. IRWIN, Chicago.
- Nice, M. M. 1941. The role of territory in bird life. American Midland Naturalist. 26: 441-4
- Nicholas, J. 1988. Comprehensive plan for production and management of Oregon's anadromous salmon and trout. Part IV. Coastal chinook salmon plan. Draft Report. Oregon Department of Fish and Wildlife, Research and Development Section, Corvallis.
- Nicholas, J. W., and D. G. Hankin. 1989. Chinook salmon populations in Oregon coastal river basins: descriptions of life histories and assessment of recent trends in run strengths. Report EM 8402. Oregon Department of Fish and Wildlife, Research and Development Section, Corvallis.
- Nichols, J. D., J. E. Hines, J. R Sauer, F. W. Fallon, J. E. Fallon, and P. J. Heglund. 2000. A double-observer approach for estimating detection probability and abundance from point counts. The Auk 117: 393-408
- Nickelson, T. E. 1986. Influences of upwelling, ocean temperature, and smolt abundance on marine survival of coho salmon (*Oncorhynchus kisutch*) in the Oregon Production Area. Canadian Journal of Fisheries and Aquatic Sciences 43: 527-535.



Nickelson, T. E., W. M. Beidler, M. Willard, and M. J. Willis. 1979. Streamflow requirements of salmonids. Final Report, Federal Air Project, AFS-62. Oregon Department of Fish and Wildlife, Portland.

Nickelson, T. E., and R. R. Reisenbichler. 1977. Streamflow requirements of salmonids. Research Section Annual Progress Report, Project AFS-62. Oregon Department of Fish and Wildlife, Portland.

Nickelson, T. E., J. D. Rodgers, S. L. Johnson, and M. F. Solazzi. 1992. Seasonal changes in habitat use by juvenile coho salmon (*Oncorhynchus kisutch*) in Oregon coastal streams. Canadian Journal of Fisheries and Aquatic Sciences 49: 783-789.

Nielsen, J. L. 1992. Microhabitat-specific foraging behavior, diet, and growth of juvenile coho salmon. Transactions of the American Fisheries Society 121: 617-634.

Nielsen, J. L., J. M. Scott, and J. L. Aycrigg. 2001. Endangered species and peripheral populations. Endangered Species Update 18: 194-197.

Nielsen, J. L., T. E. Lisle, and V. Ozaki. 1994. Thermally stratified pools and their use by steelhead in northern California streams. Transactions of the American Fisheries Society 123: 613-626.

Nielsen, J. L., M. Maas, and G. Balding. 1991. Anadromous salmonid resources of Mendocino coastal and inland rivers, 1989-1990. An evaluation of rehabilitation efforts based on carcass recovery and spawning activity. Draft Report, Inland Habitat Surveys, Standard Agreement FG9364. California Department of Fish and Game, Sacramento.

NMFS (National Marine Fisheries Service). 1995. Endangered and threatened species; proposed threatened status for three contiguous ESUs of coho salmon ranging from Oregon through central California. Federal Register 60: 38011-38030.

NMFS. 1996a. Endangered and threatened species; proposed endangered status for five ESUs of steelhead and proposed threatened status for five ESUs of steelhead in Washington, Oregon, Idaho, and California. Federal Register 61: 41541-41561.

NMFS. 1996b. Factors for decline: a supplement to the notice of determination for West Coast steelhead under the Endangered Species Act. NMFS, Protected Species Branch, Portland, Oregon and NMFS, Protected Species Management Division, Long Beach, California.

NMFS. 1996c. West Coast steelhead briefing package.

NMFS. 1997. Endangered and threatened species: listing of several evolutionary [sic] significant units (ESUs) of west coast steelhead. Federal Register 62: 43937-43954.

NMFS. 1998. Endangered and threatened species: proposed endangered status for two chinook salmon ESUs and proposed threatened status for five chinook ESUs; proposed redefinition, threatened status, and revision of critical habitat for one chinook salmon ESU; proposed designation of chinook salmon critical habitat in California, Oregon, Washington, Idaho. Federal Register 63: 11481-11519.

NMFS. 1998. Habitat Conservation Plan assurances ("No Surprises") rule. Federal Register 63: 8859-8873.

- NMFS. 1999. Endangered and threatened species; threatened status for two chinook salmon evolutionarily significant units (ESUs) in California. Federal Register 64: 50394-50415.
- NMFS. 2000a. California coastal salmon and steelhead current stream habitat distribution table [table to be used with DeLorme topo quads, bibliography, and contacts and expertise list]. NMFS, Southwest Region, Long Beach, California. Accessed on the internet at <http://swr.ucsd.edu/hcd/Mendo-sonoma.PDF>].
- NMFS. 2000b. Endangered and threatened species; threatened status for one steelhead evolutionarily significant unit (ESU) in California. Federal Register 65: 36074-36094.
- NMFS. 2000c. Salmonid guidelines for forestry practices in California. Presented by NMFS to the State Board of Forestry, Sacramento, California.
- NMFS (National Marine Fisheries Service). 2001. Guidelines for salmonid passage at stream crossings. NMFS, Southwest Region, Santa Rosa, California. Accessed on the Internet at: <http://swr.nmfs.noaa.gov/hcd/NMFSSCG.PDF>
- NMFS. 2001. Status review update for coho salmon (*Oncorhynchus kisutch*) from the Central California Coast and California portion of the southern Oregon/Northern California Coasts Evolutionary Significant Units. 40pp.
- NMFS and USFWS (National Marine Fisheries Service and U. S. Fish and Wildlife Service). 1999. Biological opinion for the Pacific Lumber Company Habitat Conservation Plan/Sustained Yield Plan for the Headwaters Forest Project. NMFS, Northern California Area Office and USFWS, Arcata Fish and Wildlife Office, Arcata, California.
- Noble, G. K., and P. G. Putnam. 1931. Observations on the life history of *Ascapthus truei* Stejneger. Copeia 1931: 97-101.
- Noon, B. R., and K. S. McKelvey. 1996. Management of the spotted owl: a case history in conservation biology. USDA Forest Service, Redwood Sciences Laboratory, Arcata, California.
- Noon, B.R. and D. D. Murphy. 1997. Management of the spotted owl: A case history in conservation biology. Ann. Rev. Ecol. Syst. 27: 135-162.
- Norris, L. A., H. W. Lorz, and S. V. Gregory. 1991. Forest chemicals. Pages 207-296 in W. R. Meehan, editor. Influences of forest and rangeland management on salmonid fishes and their habitats. American Fisheries Society Special Publication No. 19.
- Norse, E. A. 1990. Ancient forests of the Pacific Northwest. Island Press, Washington, D. C.
- Noss, R. F., editor. 2000. The redwood forest: history, ecology, and conservation of the coast redwoods. Island Press, Washington, D. C.
- Noss, R. F., A. O. O'Connell, and D. Murphy. 1997. The science of conservation planning. Island Press, Washington, D. C.
- Noss, R., L. Benda, T. Hamer, J. McBride, T. Roelofs, T. Sholars, B. Ziemer. 2003. Report of Science Advisors: Mendocino Redwood Company Natural Community Conservation Plan/Habitat Conservation Plan. Facilitated by G. Giusti. 64 pp.

Nowak, R. M. 1991. Walker's mammals of the world. Fifth edition. Johns Hopkins University Press, Baltimore, Maryland.

Nussbaum, R. A. 1969. A nest site of the Olympic salamander *Rhyacotriton olympicus* (Gaije). *Herpetologica* 25: 277-278.

Nussbaum, R. A., E. D. Brodie, Jr., and R. M. Storm. 1983. Amphibians and reptiles of the Pacific Northwest. University Press, Moscow, Idaho.

Nussbaum, R. A., and C. K. Tait. 1977. Aspects of the life history and ecology of the Olympic salamander, *Rhyacotriton olympicus* (Gaije). *American Midland Naturalist* 98: 176-199.

## O

Oakley, K. L., L. P. Thomas, and G. Fancy. 2003. Guidelines for long-term monitoring protocols. *Wildlife Society Bulletin* 31: 1000-1003.

O'Connor Environmental, Inc. 2000. Garcia River large woody debris instream monitoring. Prepared for Mendocino County Resource Conservation District, Healdsburg, CA.

O'Connor, M. D., and R. R. Ziemer. 1989. Coarse woody debris ecology in a second-growth *Sequoia sempervirens* forest stream. General Technical Report PSW-110. USDA Forest Service, Pacific Southwest Forest and Range Experiment Station, Arcata, California.

ODF (Oregon Department of Forestry). 2001. Rationale for streamside protections of the Oregon Forest Practice Rules. Oregon Department of Forestry, Salem, Oregon. Accessed on the internet at <http://www.odf.state.or.us/>.

O'Donnell, B. 1995. A review of the effects of station placement and observer bias in detections of marbled murrelets in forest stands. Pages 135-137 in C. J. Ralph, G. L. Hunt, Jr., M. G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.

Ohlendorf, H. M., and M.R. Miller. 1984. Organochlorine contaminants in California waterfowl. *Journal of Wildlife Management* 48: 867-877.

Ohlendorf, H. M., T. W. Custer, R.W. Lowe, M. Rigney, and E. Cromartie. 1988. Organochlorines and mercury in eggs of coastal terns and herons in California, USA. *Colonial Waterbirds* 11: 85-94.

Old-Growth Definition Task Group. 1986. Interim definitions for old-growth Douglas-fir and mixed conifer forests in the Pacific Northwest and California. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, OR.

O'Loughlin, C. L. 1972. An investigation of the stability of the steepland forest soils in the Coast Mountains, southwest British Columbia. Doctoral dissertation. University of British Columbia, Vancouver.

O'Loughlin, C. L. 1974. The effects of timber removal on the stability of forest soils. *Journal of Hydrology* (13): 121-134.

O'Loughlin, C. L., and A. J. Pearce. 1976. Influence of Cenozoic geology on mass movement and sediment yield response to forest removal, North Westland, New Zealand. *Bulletin of International Association of Engineering Geologist* 14: 41-46.

O'Loughlin, C.L., and R. R. Ziemer. 1982. The importance of root strength and deterioration rates upon edaphic stability in steep-land forests, in *Carbon Uptake and Allocation in Subalpine Ecosystems as a Key to Management: Pages 70-78 in Proceedings of an IUFRO Workshop*, Oregon State University, Corvallis.

Olson, D. F., Jr., D. F. Roy, and G. A. Walters. 2002. *Sequoia sempervirens* (D. Don) Endl. Redwood. In: Burns, R. M., and B. H. Honkala, technical coordinators. *Silvics of North America. Volume 1. Conifers. Agric. Handb. 654*. Washington, DC: U. S. Department of Agriculture, Forest Service: 541-551.

Olson, D. H., J. C. Hagar, A. B. Carey, J. H. Cissel, and F. J. Swanson. 2001. Wildlife of westside and high montane forests. Pages 187-212 in D. H. Johnson and T. A. O'Neil, editors. *Wildlife-habitat relationships in Oregon and Washington*. Oregon State University Press, Corvallis.

Olson, D. M. 1992. The northern spotted owl conservation strategy: Implications for Pacific Northwest invertebrates and associated ecosystem processes. Final report prepared for the Northern Spotted Owl EIS Team. USDA Forest Service, Order number 40-04HI-2-1650.

Orcutt, D. R., B. R. Pulliam, and A. Arp. 1968. Characteristics of steelhead trout redds in Idaho streams. *Transactions of the American Fisheries Society* 97: 42-45.

Orloff, S. 1988. Present distribution of ringtails in California. *California Fish and Game* 74: 196-202.

Otto, R. G. 1971. Effects of salinity on the survival and growth of pre-smolt salmon (*Oncorhynchus kisutch*). *Journal of the Fisheries Research Board of Canada* 28: 343-349.

## **P**

PALCO (Pacific Lumber Company). 2001. Freshwater Creek watershed analysis. Scotia, California.

Pacific Watershed Associates. 2010. South Fork Garcia River Phase II Erosion Control and Prevention Implementation Project Mendocino County, CA (PWA Report No. 09076801).

Palmer, R. S., editor. 1988. *Handbook of North American birds. Volume 4: Diurnal raptors (Part 1)*. Yale University Press, New Haven, Connecticut.

Paragi, T. F. 1990. Reproductive biology of female fishers in south-central Maine. Master's thesis, University of Maine, Orono.

- Paragi, T. F., S. M. Arthur, and W. B. Krohn. 1994. Seasonal and circadian activity patterns of female fishers, *Martes pennanti*, with kits. *Canadian Field Naturalist* 108: 52-57.
- Parry, G. 1960. The development of salinity tolerance in the salmon, *Salmo salar* (L.) and some related species. *Journal of Experimental Biology* 37: 425-434.
- Paton, P. W. C., and C. J. Ralph. 1988. Geographic distribution of the marbled murrelet in California at inland sites during the 1988 breeding season. Prepared by USDA Forest Service, Pacific Southwest Forest and Range Experiment Station, Redwood Sciences Laboratory, Arcata for California Department of Fish and Game, Sacramento.
- Paton, P. W. C., and C. J. Ralph. 1990. Distribution of the marbled murrelet at inland sites in California. *Northwestern Naturalist* 71: 72-84.
- Pavlik, B.M. 1994. Demographic monitoring and the recovery of endangered plants. Pages 322-350 in Bowles, M. and C. Whelan, editors. *Recovery and restoration of endangered species*. Cambridge University Press. Cambridge, Massachusetts.
- Pavlik, B. M. 1996. Defining and measuring success. In: D. A. Falk, C. I., Millar, and M. Olwell, editors. *Restoring diversity, strategies for reintroduction of endangered plants*. Island Press, Washington, D.C.
- Pavlik, B. M. 1997. Perspectives, tools and institutions for conserving rare plants. *The Southwestern Naturalist* 42(4): 375-383.
- Pavlik, B. M., D. Nickrent and A. M. Howald. 1993. The recovery of an endangered plant. I. Creating a new population of *Amsinckia grandiflora*. *Conservation Biology* 7: 510-526.
- Pavlik, B. M., P. C. Muick, S. G. Johnson, and M. Popper. 1991. *Oaks of California*. Cachuma Press, Los Olivos, California.
- Paymard, H. 2002. Botanical survey as required for proposed Doyle Creek Timber Harvest Plan. On file at Mendocino Redwood Company, Mendocino County, California.
- Payne, T. R. and Associates. 1989. Lower Klamath River tributary delta study. U. S. Bureau of Indian Affairs, Redding, California.
- Pearcy, W. G. 1992. Ocean ecology of North Pacific salmonids. Washington Sea Grant Program, University of Washington, Seattle, Washington.
- Pearcy, W. G., and J. P. Fisher. 1988. Migrations of coho salmon, *Oncorhynchus kisutch*, during their first summer in the ocean. *NOAA Fisheries Bulletin* 86: 173-195.
- Pearcy, W. G. et al. 1992. Oregon Coastal Natural Coho Review Team report: an assessment of the status of the Oregon Coastal Natural coho stock as required under the definition of overfishing. Pacific Fishery Management Council, Portland, Oregon.
- Pechman, J. H. K., R. A. Estes, D. E. Scott, and J. W. Gibbons. 2001. Amphibian Colonization and Use of Ponds Created for Trial Mitigation of Wetland Loss. *Wetlands* 21: 93-111.

- Peery, M.Z., et al. 2004. Applying the declining population paradigm: Diagnosing causes of poor reproduction in the Marbled Murrelet. *Conservation Biology* 18(4):1088-98.
- Peery, M. Z., B. H. Becker, and S. R. Beissinger. 2007. Age ratios as estimators of productivity: testing assumptions on a threatened seabird, the marbled murrelet (*Brachyramphus marmoratus*). *The Auk* 124(1): 224-240.
- Perry, D. A., and M. P. Amaranthus. 1997. Disturbance, recovery, and stability. Pages 31-56 in K. A. Kohm and J. F. Franklin, editors. *Creating a forestry for the 21st century*. Island Press, Washington, D. C.
- Perry D. A., M. P. Amaranthus, J. G. Borchers, S. L. Borchers, and R. E. Brainerd. 1989. Bootstrapping in Ecosystems. *BioScience* 39:230-237.
- Peterman, R. M. 1982. Nonlinear relation between smolts and adults in Babine Lake sockeye salmon (*Oncorhynchus nerka*) and implications for other salmon populations. *Canadian Journal of fisheries and Aquatic Sciences* 39: 904-913.
- Peters, J. C. 1965. The effects of stream sedimentation on trout embryo survival. Pages 275-279 in C. M. Tarzwell, editor. *Transactions of the 3rd seminar on biological problems in water pollution*. Publication No. 999-WP-25. U. S. Public Health Service, Robert Taft Engineering Center, Cincinnati, Ohio.
- Peters, J. 2000. Potential uses of CWD source-distance curves. Discussion draft report. U. S. Fish and Wildlife Service, Arcata, California.
- Peterson, A. 1986. Habitat suitability index models: bald eagle (breeding season). *Biological Report* 82 (10.126). U. S. Fish and Wildlife Service, Washington, D. C.
- Peterson, A. T., and C. R. Robins. 2003. Using ecological-niche modeling to predict barred owl invasions with implications for spotted owl conservation. *Conservation Biology* 17: 1161-1165.
- Peterson, E. 2005. Results from the CALS conservation committee meeting, October 2005. *Bulletin of the California Lichen Society* 12: 29-32.
- Peterson, N. P. 1982a. Population characteristics of juvenile coho salmon (*Oncorhynchus kisutch*) overwintering in riverine ponds. *Canadian Journal of Fisheries and Aquatic Sciences* 39: 1303-1307.
- Peterson, N. P. 1982b. Immigration of juvenile coho salmon (*Oncorhynchus kisutch*) into riverine ponds. *Canadian Journal of Fisheries and Aquatic Sciences* 39: 1308-1310.
- Peterson, N. P., and T. P. Quinn. 1994. Winter survival of coho salmon in Big Beef Creek. Part B. The influence of habitat complexity and fish size on over-winter survival and growth of individually-marked juvenile coho salmon in Big Beef Creek. Pages 62-75 in T. P. Quinn and N. P. Peterson, editors. *The effects of forest practices on fish populations*. Timber/Fish/Wildlife Report No. TFW-F4-94-001. Washington Department of Natural Resources, Olympia.

- Peterson, N. P., and L. M. Reid. 1984. Wall-base channels: their evolution, distribution, and use by juvenile coho salmon in the Clearwater River, Washington, Pages 215-225 in J. M. Walton and D. B. Houston, editors. Proceedings of the Olympic wild fish conference. Fisheries Technology Program, Peninsula College, Port Angeles, Washington.
- Peterson, T. A., and R. C. Robins. 2003. Using ecological-niche modeling to predict barred owl invasions with implication for spotted owl conservation. *Conservation Biology* 17(4): 1161-1165.
- Petts, G. E. 1984. *Impounded rivers: perspectives for ecological management*. Wiley.
- Peven, C. M., R. R. Whitney, and K. R. Williams. 1994. Age and length of steelhead smolts from the mid-Columbia River basin, Washington. *North American Journal of Fisheries Management* 14: 77-86.
- PEW (PEW Center of Global Climate Change). 2002. Policymakers' guide – at a glance. Accessed on the internet at [http://www.pewclimate.org/policyguide/glance\\_faq\\_science.cfm](http://www.pewclimate.org/policyguide/glance_faq_science.cfm)
- Pfeiffer, E. 1953. Animals trapped in mountain beaver (*Aplodontia rufa*) runways, and the mountain beaver in captivity. *Journal of Mammology* 34: 396.
- Pfeiffer, E. 1958. The reproductive cycle of the female mountain beaver. *Journal of Mammology* 39: 223-235.
- Pfitzenmeyer, H. T. 1956. Life history behavior and patterns of pileated woodpecker relative to utility lines. Master's thesis. Pennsylvania State University, Pennsylvania.
- Philip Williams & Associates. 1996. Garcia River gravel management plan. Prepared for Mendocino Water Agency. San Francisco, California.
- Phillips, R. W., and H. J. Campbell. 1961. The embryonic survival of coho salmon and steelhead trout as influenced by some environmental conditions in gravel beds. Pages 60-73 in 14th annual report of the Pacific Marine Fisheries Commission. Portland, Oregon.
- Phillips, R. W., R. L. Lantz, E. W. Claire, and J. R. Moring. 1975. Some effects of gravel mixtures on emergence of coho salmon and steelhead trout fry. *Transactions of the American Fisheries Society* 104: 461-466.
- Pickart, A. J., A. E. Hiss and S. W. Enberg. 1991. Return from extinction: recovery of the Humboldt milk-vetch. In: Proceedings of the Symposium on Biodiversity of Northwest California, Santa Rosa.
- Piirto, D. D., B. Smith, E. K. Huff, and S. T. Robinson. 1997. Efficacy of herbicide application methods used to control tanoak (*Lithocarpus densiflorus*) in an uneven-aged coast redwood management context. Pages 199-208 in N. H. Pillsbury, J. Verner and W. D. Tietje, editors. Proceedings of a symposium on oak woodlands: ecology, management, and urban interface issues. General Technical Report PSW-GTR-160. USDA Forest Service, Pacific Southwest Research Station, Albany, California.

- Pious, M. 1994. Nesting and roosting habitat of spotted owls in managed redwood/Douglas-fir forests, California. Prepared for California Department of Fish and Game, Georgia-Pacific Corporation, Louisiana-Pacific Corporation, and U. S. Fish and Wildlife Service by Louisiana-Pacific Corporation, Calpella, California.
- Pious, M. 1995. Home range and habitat use of spotted owls in managed redwood/Douglas-fir forests, California. Prepared for California Department of Fish and Game, Georgia-Pacific Corporation, Louisiana-Pacific Corporation, and U.S. Fish and Wildlife Service by Louisiana-Pacific Corporation, Calpella, California.
- Pious, M. and J. Ambrose. 1994. Diet composition of spotted owls in managed redwood/Douglas-fir forests, California. Unpublished report. Louisiana-Pacific Corporation and Georgia-Pacific Corporation.
- Platts, W. S., M. A. Shirazi, and D. H. Lewis. 1979. Sediment particle sizes used by salmon for spawning with methods for evaluation. Ecological Research Series EPA-600/3-79-043. U. S. Environmental Protection Agency, Corvallis Environmental Research Laboratory, Corvallis, Oregon.
- Platts, W. S., W. F. Megahan, and G. W. Minshall. 1983. Methods for evaluating stream, riparian, and biotic conditions. General Technical Report INT138. U. S. Forest Service, Intermountain Forest and Range Experiment Station, Ogden, Utah.
- Poglayen-Neuwall, I. 1990. Procyonids. S. P. Parker, editor. Grzimek's encyclopedia of mammals. McGraw-Hill, New York.
- Poglayen-Neuwall, I., and D. E. Towell. 1988. *Bassariscus astutus* - Ringtail. No. 327. Mammalian species. American Society of Mammalogists.
- Poglayen-Neuwall, I., and I. Poglayen-Neuwall. 1980. Saliva-licking as a possible adaptation enhancing the survival of young ringtails (*Bassariscus astutus*). Zool. Beitr. 28: 314-328.
- Polite, C. 1999. Mountain beaver. Accessed on the internet at <http://www.sibr.com/mammals/M052.html>. California Department of Fish and Game, Sacramento.
- Pollard, R. A. 1955. Measuring seepage through salmon spawning gravel. Journal of the Fisheries Research Board of Canada 12: 706-741.
- Porter, K. R. 1961. Experimental crosses between *Rana aurora aurora* Baird and Girard and *Rana cascadae* Slater. Herpetologica 17: 156-165.
- Porter, R. D., and C. M. White. 1973. The peregrine falcon in Utah, emphasizing ecology and competition with the prairie falcon. Brigham Young University, Provo, Utah. Scientific Bulletin Biological Series No. 18.
- Powell, R. A. 1977. Hunting behavior, ecological energetics, and predator-prey community stability of the fisher (*Martes pennanti*). Ph.D. dissertation, University of Chicago.
- Powell, R. A. 1978. A comparison of fisher and weasel hunting behavior. Carnivore 1: 28-34.



Powell, R. A. 1993. The fisher: life history, ecology, and behavior. Second edition. University of Minnesota Press, Minneapolis.

Powell, R. A., and W. J. Zielinski. 1994. Fisher. Pages 38-66 in L. F. Ruggiero, K. B. Aubry, S. W. Buskirk, L. J. Lyon and W. J. Zielinski, editors. The scientific basis for conserving forest carnivores: American marten, fisher, lynx, and wolverine in the western United States. General Technical Report RM-254. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado.

Powell, S. M., E. C. York, J. L. Scanlon, T. K. Fuller. 1997. Fisher maternal den sites in central New England. Pages 265-278 in G. Proulx, H. N. Bryant, and P. M. Woodward, editors. Martes: taxonomy, ecology, techniques, and management. Provincial Museum of Alberta, Edmonton.

Power, M. E. 1990. Benthic turfs vs. floating mats of algae in river food webs. *Oikos* 58: 67-79.

Proulx, G., H. N. Bryant, and P. M. Woodward, editors. 1994. Martes: taxonomy, ecology, techniques, and management. Provincial Museum of Alberta, Edmonton.

Puchy, C. A., and D. B. Marshall. 1993. Oregon wildlife diversity plan. Second edition. Oregon Department of Fish and Wildlife, Portland.

Puckett, L. E. 1975. The status of spring-run steelhead (*Salmo gairdneri*) of the Eel River system. Memorandum Report. California Department of Fish and Game.

Puckett, L. K. 1977. The Eel River estuary - observations on morphometry, fishes, water quality, and invertebrates. Memorandum Report. California Department of Fish and Game.

Puckett, K. J., and L. M. Dill. 1985. The energetics of feeding territoriality in juvenile coho salmon (*Oncorhynchus kisutch*). *Behavior* 92: 97-111.

PWA (Pacific Watershed Associates). 1994. Action plan for the restoration of the South Fork Trinity River watershed and its fisheries. Contract No. 2-CS-20-01100. Prepared for U. S. Bureau of Reclamation and the Trinity River Task Force by PWA, Arcata, California.

Pyper, J. 1956. Physical and biological features of natural and artificial spawning grounds of Fraser River sockeye and pink salmon. International Pacific Salmon Fisheries Commission.

## Q

Quinn, T. P. 1994. Factors affecting the freshwater and marine growth and survival of coho salmon from Big Beef Creek. Pages 99-115 in T. P. Quinn and N. P. Peterson, editors. The effects of forest practices on fish populations. Timber/Fish/Wildlife Report No. TFW-F4-94-001. Washington Department of Natural Resources, Olympia.

Quinn, W. H., V. T. Neal, and S. E. Antunez de Mayolo. 1986. Preliminary report on El Niño occurrences over the past four and a half centuries. Reference 86-16, National Science Foundation No. ATM-85 15014. College of Oceanography, Oregon State University, Corvallis.

**R**

Raines, M. 1998. South Fork Trinity River sediment source analysis. Prepared for Tetra Tech, Fairfax, Virginia.

Raine, R. M. 1983. Winter habitat use and responses to snow of fisher (*Martes pennanti*) and Marten (*Martes Americana*) in southeastern Manitoba. Canadian Journal of Zoology 61: 25-34.

Raleigh, R. F., T. Hickman, R. C. Solomon, and P. C. Nelson. 1984. Habitat suitability information: rainbow trout. FWS/OBS-82/10.60. U. S. Fish and Wildlife Service, Washington, D. C.

Ralph, C.J., and S.L. Miller. 1995. Offshore population estimates of marbled murrelets in California. Pages 353-360 in C. J. Ralph, G. L. Hunt, Jr., M. G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.

Ralph, C. J., G. L. Hunt, Jr., M. G. Raphael, and J. F. Piatt. 1995. Ecology and conservation of the marbled murrelet in North America: an overview. Pages 3-22 in C. J. Ralph, G. L. Hunt, Jr., M. G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.

Ralph, C. J., P. W. C. Paton, and C. A. Taylor. 1991. Habitat association patterns of breeding birds and small mammals in Douglas-fir/hardwood stands in northwest California and southwest Oregon. Pages 379-393 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.

Ralph, S. C., G. C. Poole, L. L. Conquest, and R. J. Naiman. 1994. Stream channel morphology and woody debris in logged and unlogged basins of western Washington. Canadian Journal of Fisheries and Aquatic Sciences 51: 37-51.

Raphael, M. G. 1989. Long-term trends in abundance of amphibians, reptiles, and mammals in Douglas-fir forests of northwestern California. Pages 23-31 in R. E. Szaro, K. E. Severson and D. R. Patton, editors. Proceedings of the symposium on the management of amphibians, reptiles, and small mammals in North America. General Technical Report RM-166. USDA Forest Service.

Raphael, M. G., L. Jones, L. Clark, J. Holyan, M. Dennis, L. Fehll, P. Brewster, A. Turner, L. Irwin, M. T. Simpson, and T. Forbes. 1997. Natural history and habitat use by American martens in a central Oregon lodgepole pine ecosystem. USDA Forest Service, Pacific Northwest Research Station, Olympia, Washington. Accessed on the internet at <http://www.fs.fed.us/pnw/olympia/wet/1997/chemmart.pdf>

Raphael, M.G. 2006. Conservation of the marbled murrelet under the Northwest Forest Plan. Conservation Biology 20(2): 297-305.

Ray, G. C. 1958. Vital limits and rates of desiccation in salamanders. Ecology 39: 75-83.

RCHR (Regional Committee on Hardwood Retention, North Coast). 1996. Committee report: hardwood retention for North Coast California timberlands: northern Sonoma, Mendocino, southwest Trinity, and southern Humboldt counties.

Redwood National and State Parks. 1997. Redwood Creek watershed analysis. Draft report. Division of Resource Management and Science, Arcata, California.

Redwood National and State Parks. 1998. Volume 1. Final general management plan/general plan environmental impact statement/environmental impact report. Redwood National and State Parks, Humboldt and Del Norte Counties, California.

Reed, P. B. 1988. National list of plant species that occur in wetlands: California. Biological Report 88(26.10). U. S. Fish and Wildlife Service, National Ecology Research Center, Fort Collins, Colorado.

Reedy, G. D. 1995. Summer abundance and distribution of juvenile chinook salmon (*Oncorhynchus tshawytscha*) and steelhead trout (*Oncorhynchus mykiss*) in the Middle Fork Smith River, California. Master's thesis. Humboldt State University, Arcata, California.

Reese, C. D., and B. C. Harvey. 2002. Temperature-dependent interactions between juvenile steelhead and Sacramento pikeminnow in laboratory streams. *Transactions of the American Fisheries Society* 131: 599-606.

Reese, D. A. 1996. Comparative demography and habitat use of western pond turtle in northern California: the effects of damming and related alterations. Doctoral dissertation. University of California, Berkeley.

Reeves, G. H., and J. R. Sedell. 1992. An ecosystem approach to the conservation and management of freshwater habitat for anadromous salmonids in the Pacific Northwest. *Transactions of the North American Wildlife and Natural Resources Conference* 1992: 408-415.

Reid, L. 1993. Research and cumulative watershed effects. General Technical Report PSW-GTR-141. USDA Forest Service, Pacific Southwest Research Station, Albany, California.

Reid, L. M. 1998a. Cumulative watershed effects: Caspar Creek and beyond. Pages 117-127 in R. R. Ziemer, editor. *Proceedings of the conference on coastal watersheds: the Caspar Creek story*. General Technical Report PSW-GTR-168. USDA Forest Service, Pacific Southwest Research Station, Albany, California.

Reid, L. M. 1998b. Calculation of average landslide frequency using climatic records. *Water Resources Research* 34: 869-877.

Reid, L. M., and J. Lewis. 2004. Evaporation of rainfall from foliage in a coastal redwood forest. Abstract. Redwood Region Forest Science Symposium, Rohnert Park, California. 15-17 March 2004.

Reid, L. M., and T. Dunne. 1984. Sediment production from forest road surfaces. *Water Resources Research* 20: 1753-1761.

Reid, L. M., and T. Dunne. 1996. Rapid evaluation of sediment budgets. Catena Verlag GMBH, Reiskirchen, Germany.

- Reid, L. M., and S. Hilton. 1998. Buffering the buffer. Pages 71-80 in R. R. Ziemer, editor. Logging second-growth coastal watersheds: the Caspar Creek story. General Technical Report PSW-GTR-668. USDA Forest Service, Pacific Southwest Research Station, Albany, California.
- Reimers, P. E. 1968. Social behavior among juvenile fall chinook salmon. Journal of the Fisheries Research Board of Canada 25: 2005-2008.
- Rendell, W. B., and N. A. M. Verbeek. 1996. Old nest material in nest boxes of tree swallows: effects on nest-site choice and nest building. The Auk 113: 319-328.
- Regional Committee on Hardwood Retention. 1996. Committee report: hardwood retention for north coast California timberlands, northern Sonoma, Mendocino, southwest Trinity, and southern Humboldt counties. Facilitated by the Integrated Hardwood Range Management Program.
- Reisenbichler, R. R., J. D. McIntyre, M. F. Solazzi, and S. W. Landino. 1992. Genetic variation in steelhead of Oregon and northern California. Transactions of the American Fisheries Society 121: 158-169.
- Reiser, D. W., and T. C. Bjornn. 1979. Habitat requirements of anadromous salmonids. Pages 1-54 in W. R. Meehan, editor. Influence of forest and rangeland management on anadromous fish habitat in western North America. General Technical Report PNW-96. U. S. Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.
- Reiser, D. W., and R. T. Peacock. 1985. A technique for assessing upstream fish passage problems at small-scale hydropower developments. Pages 423-432 in F. W. Olson, R. G. White and R. H. Hamre, editors. Symposium on small hydropower and fisheries. American Fisheries Society, Bethesda, Maryland.
- Reynolds, R. 1970. Nest observations of the long-eared owl (*Asio otus*) in Benson County, Oregon, with notes on their food habits. The Murrelet 51: 8-9.
- Rice, R. M., F. B. Tilley, and P. A. Datzman. 1979. A watershed's response to logging and roads: South Fork of Caspar Creek, California, 1967-1976. Research Paper PSW-146. USDA Forest Service, Pacific Southwest Forest and Range Experiment Station, Berkeley, California.
- Rich, A. A. 1987. Report on studies conducted by Sacramento County to determine the temperatures which optimize growth and survival in juvenile chinook salmon (*Oncorhynchus tshawytscha*). Prepared for McDonough, Holland and Allen, Sacramento, California by A. A. Rich and Associates, San Rafael.
- Richards, R. E. 1976. The distribution, water balance and vocalization of the ringtail *Bassariscus astutus*. Doctoral dissertation. University of Northern Colorado, Greeley, Colorado.
- Richardson, C. T., and C. K. Miller. 1997. Recommendations for protecting raptors from human disturbance: review. Wildlife Society Bulletin 25: 634-638.
- Richardson, J. S., and B. E. Neill. 1998. Headwater amphibians and forestry in British Columbia: Pacific giant salamanders and tailed frogs. Northwest Science 72 (Special Issue 2): 122-123.

- Richmond, S. M. 1953. The attraction of purple martins to an urban location in western Oregon. *Condor* 55: 225-249.
- Ricker, W. E., and A. Robertson. 1935. Observations on the behaviour of adult sockeye salmon during the spawning migration. *The Canadian Field-Naturalist* 49: 132-134.
- Ridgely, R. S., and G. Tudor. 1989. *The birds of South America*. University of Texas Press, Austin.
- Ringler, N. H., and J. D. Hall. 1975. Effects of logging on water temperature and dissolved oxygen in spawning beds. *Transactions of the American Fisheries Society* 104: 111-121.
- Robards, T. A., M. W. Berbach, P. H. Cafferata, and B. E. Valentine. 2000. A comparison of techniques for measuring canopy in Watercourse and Lake Protection Zones. California Forestry Note No. 115. California Department of Forestry and Fire Protection, Sacramento.
- Roberson, D. 1985. *Monterey birds*. Monterey Peninsula Audubon Society, Carmel, CA.
- Robinson, J. C. 2000. California partners in flight coniferous bird conservation plan for the pileated woodpecker. USDA Forest Service, Vallejo, California. Accessed on the internet April 2002 at <http://www.prbo.org/calpif/htmldocs/species/conifer/piwoacct.html>
- Robison, E. G., and R. L. Beschta. 1990a. Characteristics of coarse woody debris for several coastal streams of southeast Alaska, USA. *Canadian Journal of Fisheries and Aquatic Sciences* 47: 1684-1693.
- Robison, E. G., and R. L. Beschta. 1990b. Coarse woody debris and channel morphology interactions for undisturbed streams in southeast Alaska, USA. *Earth Surface Processes and Landforms* 15: 149-156.
- Robison, E. G., K. Mills, J. Paul, L. Dent, and A. Skaugset. 1999. Storm impacts and landslides of 1996: final report. Oregon Department of Forestry, Salem.
- Roby, K. B., D. C. Erman, and J. D. Newbold. 1977. Biological assessment of timber management activity impacts and buffer strip effectiveness on national forest streams of northern California. *Earth Resources Monograph No. 1*. U. S. Forest Service, Region 5.
- Rodgers, J. D. 1986. The winter distribution, movement, and smolt transformation of juvenile coho salmon in an Oregon coastal stream. Master's thesis. Oregon State University, Corvallis.
- Rodway, M. S., H. R. Carter, S. G. Sealy, and W. R. Campbell. 1992. Status of marbled murrelets in British Columbia. In H. R. Carter and M. L. Morrison, editors. *Status and conservation of the marbled murrelet in North America*. *Proceedings of the Western Foundation of Vertebrate Zoology* 5: 17-41.
- Roelofs, T. D. 1983. Current status of California summer steelhead (*Salmo gairdneri*) stocks and habitat, and recommendations for their management. Report to USDA Forest Service, Region 5.
- Roelofs, T. D. 1985. Steelhead by the seasons. *The News-Review*, Roseburg, Oregon. 31 October. A4, A8.

- Roelofs, T. D. 1987. A steelhead runs through it. *Trout* 28: 12-21.
- Roemmich, D. 1992. Ocean warming and sea level rise along the southwest U. S. coast. *Science* 257: 373-375.
- Roering, J. J., J. W. Kirchner, and W. E. Dietrich. 1999. Evidence for nonlinear, diffusive sediment transport on hillslopes and implications for landscape morphology. *Water Resources Research* 35: 853-870.
- Romme, W. H., and M. G. Turner. 1991. Implications of global climate change for biographic patterns in the Greater Yellowstone Ecosystem. *Conservation Biology* 5: 373-386.
- Rosenberg, K. V., and M. G. Raphael. 1986. Effects of forest fragmentation on vertebrates in Douglas-fir forests. Pages 263-272 in J. Verner, M. L. Morrison and C. J. Ralph, editors. *Wildlife 2000: modeling habitat relationships of terrestrial vertebrates*. University of Wisconsin Press, Madison.
- Rosenfeld, J. S. 1997. The effect of large macroinvertebrate herbivores on sessile epibenthos in a mountain stream. *Hydrobiologia* 344: 75-79.
- Rosgen, D. L. 1994. A classification of natural rivers. *Catena* 22: 169-199.
- Rothacher, J. 1970. Increases in water yield following clear-cut logging in the Pacific Northwest. *Water Resources Research* 6: 653-658.
- Rothacher, J. 1971. Regimes of streamflow and their modification by logging. In: *Proceedings of a Symposium on Forest Land Uses and Stream Environments*, edited by J. Krygier and J. Hall. Oregon State University, Corvallis. pp 40-54.
- Roy, K. D. 1991. Ecology of reintroduced fishers in the Cabinet Mountains of northwest Montana. Master's thesis, University of Montana, Missoula.
- Royle, J. A., and J. D. Nichols. 2003. Estimating abundance from repeated presence-absence data or point counts. *Ecology* 84: 777-790.
- Ruggiero, L. F., L. L. C. Jones, and K. B. Aubry. 1991. Plants and animal habitat associations in Douglas-fir forests of the Pacific Northwest: an overview. Pages 447-462 in L. F. Ruggiero, K. B. Aubry, A. B. Carey and M. H. Huff, editors. *Wildlife and vegetation of unmanaged Douglas-fir forests*. General Technical Report PNW-GTR-285. U. S. Forest Service, Pacific Northwest Forest and Range Experiment Station.
- Ruggles, C. P. 1966. Depth and velocity as a factor in stream rearing and production of juvenile coho salmon. *The Canadian Fish Culturist* 38: 37-53.
- Rundio, D. E., and D. H. Olson. 2001. Palatability of southern torrent salamander (*Rhyacotriton variegatus*) larvae to Pacific giant salamander (*Dicamptodon tenebrosus*) larvae. *Journal of Herpetology* 35: 133-136.
- Russell, K. R., and S. A. Gauthreaux, Jr. 1996. Monitoring purple martin roosts with weather radar. *Purple Martin Update* 7: 2-6.

Russell, W.H. and C. Jones. 2001. The effects of timber harvesting on the structure and composition of adjacent old-growth coast redwood forest, California, USA. *Landscape Ecology* 16: 731-741.

Russell, W. H., J. R. McBride, and K. Carnell. 2000. Edge effects and the effective size of old-growth coast redwood preserves. Pages 128-136 in S. F. McCool, D. N. Cole, W. T. Borrie and J. O'Loughlin, compilers. *Wilderness science in a time of change. Volume 3: Wilderness as a place for scientific inquiry.* RMRS Report No. P-15. USDA Forest Service, Rocky Mountain Research Station, Ogden, Utah. Accessed on the internet at: '

Rydellius, J. A., and W. J. Libby. 1983. Arguments for redwood clonal forestry. Pages 159-168 in M. R. Ahuja and W. J. Libby, editors. *Clonal forestry II. Conservation and application.* Heidelberg: Springer Verlag.

## S

Sakai, H. F., and B. R. Noon. 1993. Dusky-footed woodrat abundance in different-aged forests in northwestern California. *Journal of Wildlife Management* 57: 373-381.

Sakai, H. F., and B. R. Noon. 1997. Between-habitat movement of dusky-footed woodrats and vulnerability to predation. *Journal of Wildlife Management* 61: 343-350.

Salo, E. O., and W. H. Bayliff. 1958. Artificial and natural reproduction of silver salmon at Minter Creek, Washington. *Research Bulletin No. 4.* Washington Department of Fisheries.

Sandercock, F. K. 1991. Life history of coho salmon (*Oncorhynchus kisutch*). Pages 397-445 in C. Groot and L. Margolis, editors. *Pacific salmon life histories.* University of British Columbia Press, Vancouver, B. C.

Sargent, C. R., P. Taylor, and M. R. Gross. 1987. Parental care and the evolution of egg size in fishes. *American Naturalist* 129: 32-46.

Sawyer, J. O., and T. Keeler-Wolf. 1995. *A manual of California vegetation.* California Native Plant Society. Sacramento, CA.

Sawyer, J. O., J. Gray, G. J. West, D. A. Thornburgh, R. F. Noss, J. H. Engbeck Jr., B. G. Marcot, and R. Raymond. 2000a. History of redwoods and redwood forests. Pages 7-38 in R. F. Noss, editor. *The redwood forest: history, ecology, and conservation of the coast redwoods.* Island Press, Washington, D. C.

Sawyer, J. O., S. C. Sillett, W. J. Libby, T. E. Dawson, J. H. Popenoe, D. L. Largent, R. Van Pelt, Jr., S. D. Veirs, R. E. Noss, D. A. Thornburgh, and P. Del Tredici. 2000b. Redwood trees, communities, and ecosystems: a closer look. Pages 81-118 in R. F. Noss, editor. *The redwood forest: history, ecology, and conservation of the coast redwoods.* Island Press, Washington, D. C.

Sawyer, J. O., S. C. Sillett, J. H. Popenoe, A. LaBanca, T. Sholars, D. L. Largent, F. Euphrat, R. F. Noss, and R. Van Pelt. 2000c. Characteristics of redwood forests. Pages 39-79 in R. F. Noss, editor. *The redwood forest: history, ecology, and conservation of the coast redwoods.* Island Press, Washington, D. C.

- Sawyer, J. O., D. A. Thornburgh, and J. R. Griffin. 1988. Mixed evergreen forest. Pages 359-382 in M. G. Barbour and J. Major, editors. Terrestrial vegetation of California. Special Publication No. 9. California Native Plant Society, Sacramento.
- Sauer, J. R., J. E. Hines, and J. Fallon. 2001. The North American breeding bird survey: results and analysis 1966-2000. Version 2001.2. U. S. Geological Survey, Patuxent Wildlife Research Center, Laurel, Maryland. Accessed on the internet April 2002 at <http://www.mbr-pwrc.usgs.gov/bbs/>
- Scarnecchia, D. L. 1981. Effects of streamflow and upwelling on yield of wild coho salmon (*Oncorhynchus kisutch*) in Oregon. Canadian Journal of Fisheries and Aquatic Sciences 38: 471-475.
- Scheffer, T. 1929. Mountain beavers in the Pacific Northwest: their habits, economic status, and control. Farmers Bulletin # 1598. U. S. Department of Agriculture.
- Scheffer, T. 1945. Burrow associations of small mammals. Murrelet 26: 24-26.
- Schempf, P. F., and M. White. 1977. Status of six furbearer populations in the mountains of northern California. USDA Forest Service, San Francisco, California.
- Schmidt, J. L., and D. L. Gilbert, editors. 1978. Big game of North America: ecology and management. Stackpole Books, Harrisburg, Pennsylvania.
- Schmitz, R.F. and Kenneth E. Gibson. 1996. Douglas-fir beetle. Forest Insect and Disease Leaflet 5, United States Forest Service. 7 pp.
- Schoenherr, A. A. 1992. A natural history of California. University of California Press, Berkeley.
- Schowalter, D.M. 1989. Canopy arthropod community structure and herbivory in old growth and regenerating forests in western Oregon. Can. Jnl. Forest Res. 19: 318-322.
- Schowalter, T., E. Hansen, R. Molina, and Y. Zhang. 1997. Integrating the ecological roles of phytophagous insects, plant pathogens, and mycorrhizae in managed forests. Pages 171-190 in K. A. Kohm and J. F. Franklin, editors. Creating a forestry for the 21st century. Island Press, Washington, D. C.
- Schreck, C. B., H. W. Li, R. C. Hjort, and C. S. Sharpe. 1986. Stock identification of Columbia River chinook salmon and steelhead trout. Final Report, Contract DE-AI79-83BP13499, Project 83-451. Prepared by Oregon Cooperative Fisheries Research Unit, Oregon State University, Corvallis for Bonneville Power Administration, Portland, Oregon.
- Schreiber, B., and D. S. deCalesta. 1992. The relationship between cavity-nesting birds and snags on clearcuts in western Oregon. Forest Ecology and Management 50: 299-316.
- Schroeder, R. L. 1983. Habitat suitability index models: pileated woodpecker. Report No. FWS/OBS-82/10.39. U. S. Fish and Wildlife Service, Washington, D. C.
- Scott, W. B., and E. J. Crossman. 1973. Freshwater fishes of Canada. Fisheries Research Board of Canada Bulletin 184: 734-740.



Scrivener, J. C., and B. C. Anderson. 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.

Sealy, S. G., H. R. Carter, W. D. Shuford, K. D. Powers, and C. A. Chase III. 1991. Long-distance vagrancy of the Asiatic marbled murrelet in North America, 1979-1989. *Western Birds* 22: 145-155.

Sedell, J. R., and R. L. Beschta. 1991. Bringing back the "bio" in engineering. *American Fisheries Society Symposium* 10: 160-175.

Sedell, J. R., and K. J. Luchessa. 1982. Using the historical record as an aid to salmonid habitat enhancement. Pages 210-223 in N. B. Armantrout, editor. *Symposium on acquisition and utilization of aquatic habitat inventory information*. Western Division, American Fisheries Society, Bethesda, Maryland.

Sedell, J. R., and F. J. Swanson. 1984. Ecological characteristics of streams in old-growth forests of the Pacific Northwest. Pages 9-16 in W. R. Meehan, T. R. Merrell, Jr., and T. A. Hanley, editors. *Fish and wildlife relationships in old-growth forests*. American Institute of Fishery Research Biologists, Juneau, Alaska.

Seglund, A. E. 1995. The use of resting sites by the pacific fisher. Master's thesis. Humboldt State University, Arcata, California.

Seglund, A., and R. T. Golightly. 1993. Fisher survey techniques on the Shasta-Trinity National Forest. Progress report PSW-92\_0026CA. May 1, 1992 through December 1, 1992. Prepared by Humboldt State University, Arcata, California in cooperation with USDA Forest Service.

Seglund, A., and R. T. Golightly. 1994. Fisher survey techniques on the Shasta-Trinity National Forest. Progress report. Prepared by Humboldt State University, Arcata, California in cooperation with USDA Forest Service.

Self, S. E., and S. J. Kerns. 1992. Pine marten and pacific fisher study. Unpublished report, Phase 2. California Wildland Resource Managers, Redding, California.

Self, S. E., and S. J. Kerns. 2001. Pacific fisher use of a managed forest landscape in northern California. Wildlife Research Paper No. 6. Sierra Pacific Industries, Redding, California.

Semlitsch, R. D. 1998. Biological delineation of terrestrial buffer zones for pond-breeding salamanders. *Conservation Biology* 12: 1113-1119.

Serpa, L. 1986. *Syncaris pacifica*. Unpublished document prepared for The Nature Conservancy.

Serpa, L. 1991. California freshwater shrimp (*Syncaris pacifica*) survey for the U. S. Fish and Wildlife Service. U. S. Fish and Wildlife Service, Fish and Wildlife Enhancement, Sacramento Field Office, Sacramento, California.

- Sessions, J., J. C. Balcom, and K. Boston. 1987. Road Location and Construction Practices: Effects on Landslide Frequency and Size in the Oregon Coast Range. *Western Journal of Applied Forestry* 2(4): 119-124.
- Sever, D. M. 1988. Male *Rhyacotriton olympicus* (Dicamptodontidae: Urodela) has a unique cloacal vent gland. *Herpetologica* 44: 274-280.
- Sever, D. M., E. C. Moriarty, L. C. Rania, and W. C. Hamlett. 2001. Sperm storage in the oviduct of the internal fertilizing frog *Ascaphus truei*. *Journal of Morphology* 248: 1-21.
- Shaffer, M. L. 1981. Minimum population sizes for species conservation. *Bioscience* 31: 131-134.
- Shaffer, H. B., G. M. Fellers, S. Randal Voss, J. C. Olive, and G. B. Pauly. 2004. Species boundaries, phylogeography and conservation genetics of the red-legged frog (*Rana aurora/draytonii*) complex. *Molecular Ecology* 13: 2667-2677.
- Shapovalov, L., and W. Berrian. 1940. An experiment in hatching silver salmon (*Oncorhynchus kisutch*) eggs in gravel. *Transactions of the American Fisheries Society* 69: 135-140.
- Shapovalov, L., and A. C. Taft. 1954. The life histories of the steelhead rainbow trout (*Salmo gairdneri gairdneri*) and silver salmon (*Oncorhynchus kisutch*) with special reference to Waddell Creek, California, and recommendations regarding their management. *Fish Bulletin* 98. California Department of Fish and Game.
- Shelton, J. M. 1955. The hatching of chinook salmon eggs under simulated stream conditions. *The Progressive Fish-Culturist* 17: 20-35.
- Shelton, J. M., and R. D. Pollock. 1966. Siltation and egg survival in incubation channels. *Transactions of the American Fisheries Society* 95: 183-187.
- Shih, T.-T. 2002. Timberland site class on private lands zoned for timber production. Technical Working Paper. Fire and Resource Assessment Program, California Department of Forestry and Fire Protection, Sacramento.
- Shirazi, M. A., and W. K. Seim. 1981. Stream system evaluation with emphasis on spawning habitat for salmonids. *Water Resources Research* 17: 592-594.
- Shirazi, M. A., W. K. Seim, and D. H. Lewis. 1981. Characterization of spawning gravel and stream system evaluation. Pages 227-278. *Salmon-spawning gravel: a renewable resource in the Pacific Northwest?* Report No. 39. State of Washington Water Research Center, Washington State University, Pullman, and the University of Washington, Seattle.
- Shirvell, C. S. 1990. Role of instream rootwads as juvenile coho salmon (*Oncorhynchus kisutch*) and steelhead trout (*O. mykiss*) cover habitat under varying streamflows. *Canadian Journal of Fisheries and Aquatic Sciences* 47: 852-861.
- Shirvell, C. S. 1994. Effect of changes in streamflow on the microhabitat use and movements of sympatric juvenile coho salmon (*Oncorhynchus kisutch*) and chinook salmon (*O. tshawytscha*) in a natural stream. *Canadian Journal of Fisheries and Aquatic Sciences* 51: 1644-1652.

- SHN (SHN Consulting Engineers & Geologists, Inc). 1995. Watershed sanitary survey for the city of Fort Bragg water system. Prepared by SHN, Eureka, California for City of Fort Bragg, California.
- Sholars, T. 1984. The pygmy forest of Mendocino. *Fremontia* 12: 3-8.
- Sholars, T. 1997. Draft regional management plan for the Mendocino Coast pygmy forest. Trust for Wildland Communities, Little River, California.
- Sholars, T., and K. Barrows. 1983. Pygmy forest areas on Blacklock soil, Mendocino Coast. Unpublished distribution maps
- Shuford, W. D. 1993. The Marin County breeding bird atlas: a distributional and natural history of coastal California birds. Bushtit Books, Bolinas, California.
- Shuford, W. D., and I. C. Timossi. 1989. Plant communities of Marin County. California Native Plant Society, Sacramento.
- Shuford, W. D., C. M. Hickey, R. J. Safran, and G. W. Page. 1996. A review of the status of the white-faced ibis in winter in California. *Western Birds* 27: 169-196.
- Shumway, D. L., C. E. Warren, and P. Doudoroff. 1964. Influence of oxygen concentration and water movement on the growth of steelhead trout and coho salmon embryos. *Transactions of the American Fisheries Society* 93: 342-356.
- Sick, H. 1993. *Birds in Brazil: a natural history*. Princeton University Press, Princeton, New Jersey.
- Sidle, R. C. 1992. A theoretical model of the effect of timber harvesting on slope stability. *Water Resources Research* 28: 1897-1910.
- Sidle, R. C., A. J. Pearce, and C. L. O'Loughlin. 1985. Hillslope stability and land use. *American Geophysical Union Water Resources Monograph* 11: 140 p.
- Silver, S. J., C. E. Warren, and P. Doudoroff. 1963. Dissolved oxygen requirements of developing steelhead trout and chinook salmon embryos at different velocities. *Transactions of the American Fisheries Society* 92: 327-343.
- Simenstad, C. A., K. L. Fresh, and E. O. Salo. 1982. The role of Puget Sound and Washington coastal estuaries in the life history of Pacific salmon: an unappreciated function. Pages 343-364 in V. S. Kennedy, editor. *Estuarine comparisons*. Academic Press, Toronto, Ontario. [as cited in NMFS 1996a]
- Simpson, M. B., Jr. 1992. *Birds of the Blue Ridge Mountains*. University of North Carolina Press, Chapel Hill.
- Simpson Resource Company. 2003. Tenth annual report submitted to the United States Fish and Wildlife Service in fulfillment of requirements specified in condition I. of permit #PRT-767798, incidental take permit for northern spotted owls, under section 10(a)(1)(B) of the Endangered Species Act. 15 February. Arcata, California.

- Skaugset, A., S. Swall, and K. Martin. 1996. The effect of forest road location, construction, and drainage standards on road-related landslides in western Oregon associated with the February 1996 storm. Draft report. Department of Forest Engineering, Oregon State University, Corvallis.
- Skinner, M. 2004. Flora of North America, *Lilium maritimum*. Accessed on the internet at: [www.efloras.org/florataxon.aspx?flora\\_id=1&taxon\\_id=242101736](http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=242101736)
- Skud, B. E. 1958. Relation of adult pink salmon size to time of migration and freshwater survival. *Copeia* 1958 (3): 170-176.
- Slater, J. R. 1931. The mating of *Ascapbus truei* Stejneger. *Copeia* 1931: 62-63.
- Slatkin, M. 1987. Gene flow and the geographic structure of natural populations. *Science* 236: 787-792.
- Sleeper, B. 1997. Mountain beavers: tracking 40-million-year-old vegetarians. *California Wild*, Fall issue. California Academy of Sciences, San Francisco.
- Small, A. 1994. California birds: their status and distribution. Ibis Publishing Company, Vista, California.
- Smith, E. M., B. A. Miller, J. D. Rodgers, and M. A. Buckman. 1985. Outplanting anadromous salmonids: a literature survey. Annual Report, Project No. 85-68. Prepared by Oregon Department of Fish and Wildlife for Bonneville Power Administration, Portland, Oregon.
- Smith, G. L., and C. R. Wheeler. 1992. A flora of the vascular plants of Mendocino County, California. University of San Francisco, San Francisco, California.
- Smith, J. J. 1987. Aquatic habitat and fish utilization of Pescadero, San Gregorio, Waddell, and Pomponio Creek estuary/lagoon systems. Interagency Agreement No. 4-823-6004. Report to California Department of Parks and Recreation.
- Smith, J. J. 1990. The effects of sandbar formation and inflows on aquatic habitat and fish utilization in Pescadero, San Gregorio, Waddell, and Pomponio Creek estuary/lagoon systems, 1985-1989. Prepared by San Jose State University, Department of Biological Sciences, San Jose, California for California Department of Parks and Recreation.
- Smith, O. R. 1941. The spawning habits of cutthroat and eastern brook trouts. *Journal of Wildlife Management* 5: 461-471.
- Smoker, W. A. 1953. Stream flow and silver salmon production in western Washington. Washington Department of Fisheries, Fisheries Research Paper 1: 5-12.
- Smoker, W. A. 1955. Effects of streamflow on silver salmon production in western Washington. Doctoral dissertation. University of Washington, Seattle.
- Solazzi, M. F., S. L. Johnson, and T. E. Nickelson. 1983. The effectiveness of stocking hatchery coho presmolts to increase the rearing density of juvenile coho salmon in Oregon coastal streams. Information Report 83-1. Oregon Department of Fish and Wildlife, Portland.

Solis, D. M., Jr., and R. J. Gutiérrez. 1990. Summer habitat ecology for northern spotted owls in northwestern California. *The Condor* 92: 739-748.

Sowden, T. K., and G. Power. 1985. Prediction of rainbow trout embryo survival in relation to groundwater seepage and particle size of spawning substrates. *Transactions of the American Fisheries Society* 114: 804-812.

Speich, S. M., and T. R. Wahl. 1995. Marbled murrelet populations of Washington-marine habitat preferences and variability of occurrence. Pages 313–326 in C. J. Ralph, G. L. Hunt, M. G. Raphael, and J. F. Piatt, editors. *Ecology and conservation of the marbled murrelet*. Technical Report PSW-GTR-152. U. S. Department of Agriculture Forest Service, Pacific Southwest Research Station General, Albany, California. .

Spence, B. C., G. A. Lomnický, R. M. Hughes, and R. P. Novitzki. 1996. An ecosystem approach to salmonid conservation. Part II: Planning elements and monitoring strategies. Draft Report No. TR-501-96-6057. ManTech Environmental Research Services Corporation, Corvallis, Oregon.

Spies, T.A. 1991. Plant species diversity and occurrence in young, mature, and old-growth Douglas-fir stands in western Oregon and Washington. In *Wildlife and Vegetation of Unmanaged Douglas-Fir Forests*. General Technical Report PNW-GTR-285. USDA Forest Service, Pacific Northwest Research Station, Portland, OR.

Spies, T. A., and J. F. Franklin. 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., and S. P. Cline. 1988. Coarse woody debris in forests and plantations of coastal Oregon. Pages 5-24 in C. Maser, R. F. Tarrant, J. M. Trappe and J. F. Franklin, editors. *From the forest to the sea: a story of fallen trees*. General Technical Report PNW-GTR-229. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station.

State of California. 2001. Interim county population projections. Department of Finance. Sacramento California.

Stauffer, T. M. 1976. Fecundity of coho salmon (*Oncorhynchus kisutch*) from the Great Lakes and a comparison with ocean salmon. *Journal of the Fisheries Research Board of Canada* 33: 1150-1155.

Stebbins, R. C. 1951. *Amphibians of western North America*. University of California Press, Berkeley.

Stebbins, R. C. 1955. Southern occurrence of the Olympic salamander, *Rhyacotriton olympicus*. *Herpetologica* 11: 238-239.

Stebbins, R. C. 1985. *A field guide to western reptiles and amphibians*. Second, revised edition. Houghton Mifflin, Boston.

Stebbins, R. C., and C. H. Lowe, Jr. 1951. Subspecific differentiation in the Olympic salamander *Rhyacotriton olympicus*. *University of California Publications in Zoology* 50: 465-484.

Steele, D. T. 1986. The mountain beaver (*Aplodontia rufa*) in California. Unpublished MS Thesis, University of Davis.

Steele, D. T. 1989. An ecological survey of endemic mountain beavers (*Aplodontia rufa*) in California, 1979-83. Wildlife Management Division Administrative Report No. 89-1. California Department of Fish and Game.

Steidl, R. J., and R. G. Anthony. 1996. Responses of bald eagles to human activity during the summer in interior Alaska. *Ecological Applications* 6: 482-491.

Stein, R. A., P. E. Reimers, and J. D. Hall. 1972. Social interaction between juvenile coho (*Oncorhynchus kisutch*) and fall chinook salmon (*Oncorhynchus tshawytscha*) in Sixes River, Oregon. *Journal of the Fisheries Research Board of Canada* 29: 1737-1748.

Stephens, S. L., and D. L. Fry. 2005. Fire history in coast redwood stands in the northeastern Santa Cruz mountains, California. *Fire Ecology* 1: 219.

Sterling, J. 2002. Vaux's swift (*Chaetura vauxi*). CPIF Coniferous Forest Bird Conservation Plan species account. California Partners in Flight (CPIF), Point Reyes Bird Observatory, Stinson Beach, California. Accessed on the internet May 2002 at <http://www.prbo.org/calpif/htmldocs/species/conifer/vaswacct.html>

Sterling, J., and P. W. C. Paton. 1996. Breeding distribution of Vaux's swift in California. *Western Birds* 27: 30-40.

Stevens, D. L., Jr., and A. R. Olsen. 1999. Spatially restricted surveys over time for aquatic resources. *Journal of Agricultural, Biological, and Environmental Statistics* 4: 415-428.

Steward, C. R., and T. C. Bjornn. 1990. Supplementation of salmon and steelhead stocks with hatchery fish: a synthesis of published literature. Part 2 of Analysis of Salmon and Steelhead Supplementation, Technical Report No. 90-1. Prepared by Idaho Cooperative Fish and Wildlife Research Unit for Bonneville Power Administration, Portland, Oregon.

Stillwater Sciences. 1999. Habitat conservation plan and sustained yield plan for Jackson Demonstration State Forest. Agency Review Draft. Prepared by Stillwater Sciences, Berkeley, California for California Department of Forestry and Fire Protection.

Stillwater Sciences. 2001. Abstracted/annotated bibliographies on headwater stream topics: aquatic macroinvertebrates; mollusks; food webs and other biological interactions; large woody debris recruitment and wood-associated habitats; geomorphic characteristics and processes; hydrology and hydrologic regimes; riparian canopy cover, microclimate, and stream temperatures; nutrient cycling and productivity; other water quality issues. NCASI Headwater Streams Project, Preliminary draft report. Prepared by Stillwater Sciences, Berkeley, California for National Council for Air and Stream Improvement, NCASI West Coast Regional Center, Corvallis, Oregon. <http://www.ncasi.org/Publications/Detail.aspx?id=2623>.

Stillwater Sciences and McBain & Trush. 1997. Approaches to monitoring salmonid spawning habitat. Draft report Prepared for Louisiana-Pacific Corporation by Stillwater Sciences, Berkeley, California, and McBain & Trush, Arcata, California.

- Stocek, R. F., and P. A. Pearce. 1981. Status and breeding success of New Brunswick bald eagles. *The Canadian Field-Naturalist* 95: 428-433.
- Stone, E. C. 1965. Ecology of the redwoods: inter-relationship of redwood and its environment. University of California Extension Series on Redwood, 21 pp.
- Stone, E. C., and R. B. Vasey. 1968. Preservation of coast redwood on alluvial flats. *Science* 159: 157-161.
- Stone, T. B. 1976. Observations on furbearers within the riparian habitat of the upper Sacramento River. Memo Report. California Department of Fish and Game.
- Storer, T. I. 1925. A synopsis of the amphibia of California. University of California Publications in Zoology 27: 1-342.
- Storm, R. M. 1960. Notes on the breeding biology of the red-legged frog (*Rana aurora aurora*). *Herpetologica* 16: 251-259.
- Stowell, R., A. Espinosa, T. C. Bjornn, W. S. Platts, D. C. Burns, and J. S. Irving. 1983. Guide for predicting salmonid response to sediment yields in Idaho batholith watersheds. U. S. Forest Service, Northern Region and Intermountain Region.
- Strachan, G., McAllister, M., and C.J. Ralph. 1995. Marbled murrelet at-sea foraging behavior. Pages 247-253 in C. J. Ralph, G. L. Hunt, Jr., M. G. Raphael and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. General Technical Report PSW-GTR-152. Pacific Southwest Research Station, USDA Forest Service, Albany, California.
- Strong, C. S., B. S. Kiett, W. R. McIver, C. J. Palmer, and I. Gaeffeny. 1995. Distribution and population estimates of marbled murrelets at sea in Oregon during the summers of 1992 and 1993. Pages 247-253 in C. J. Ralph, G. L. Hunt, M. G. Raphael, and J. F. Piatt, editors. Ecology and conservation of the marbled murrelet. U. S. Department of Agriculture Forest Service, Pacific Southwest Research Station, Albany, California. General Technical Report PSW-GTR-152.
- Strong, C. S., J. Jacobsen, D. M. Fix, M. R. Fisher, R. LeValley, C. Striplen, W. R. McIver, and I. Gaffney. 1997. Distribution, abundance, and reproductive performance of marbled murrelets along the northern California coast during the summers of 1994 and 1995. Final report. Prepared for Marbled Murrelet Study Trust.
- Stuart, T. A. 1953. Spawning migration, reproduction and young stages of the loch trout (*Salmo trutta* L.). Freshwater and Salmon Fisheries Research Report 5. Scottish Home Department, Edinburgh.
- Sturtevant, B. R., and J. A. Bissonette. 1997. Stand structure and microtine abundance un Newfoundland: implications for marten. Pages 182-198 in G. Proulx, H. N. Bryant and P. M. Woodard, editors. *Martes: taxonomy, ecology, techniques, and management*. Provincial Museum of Alberta, Edmonton, Alberta.
- Stutchbury, B. J. 1991. Coloniality and breeding biology of purple martins (*Progne subis hesperia*) in saguaro cacti. *The Condor* 93: 666-675.

- Sullivan, K. 1986. Hydraulics and fish habitat in relation to channel morphology. Doctoral dissertation. Johns Hopkins University, Baltimore, Maryland.
- Sullivan, K., T. E. Lisle, C. A. Dolloff, G. E. Grant, W. F. Megahan, L. M. Reid, and R. R. Zeimer. 1987. Stream channels: the link between forests and fishes. Pages 39-97 in E. O. Salo and T. W. Cundy, editors. Streamside management: forestry and fishery interactions. Contribution No. 57. College of Forest Resources, University of Washington, Seattle.
- Sullivan, K., J. Tooley, K. Doughty, J. Caldwell, and P. Knudsen. 1990. Evaluation of prediction models and characterization of stream temperature regimes in Washington. Timber/Fish/Wildlife Report No. TFW-WQ3-90-006. Washington Department of Natural Resources, Olympia.
- Surfleet, C. G., and R. R. Ziemer. 1996. Effects of forest harvesting on large organic debris in coastal streams. Pages 134-136 in J. LeBlanc, editor. Proceedings of the conference on coast redwood forest ecology and management. University of California, Cooperative Extension, Forestry.
- Suttle, K. B., M. E. Power, J. M. Levine, and C. McNeely. 2004. How fine sediment in riverbeds impairs growth and survival of juvenile salmonids. *Ecological Applications* 14: 969-974.
- Swales, S., R. B. Lauzier, and C. D. Levings. 1986. Winter habitat preferences of juvenile salmonids in two interior rivers in British Columbia. *Canadian Journal of Zoology* 64: 1506-1514.
- Swank, W. T., and D. A. Crossley, Jr., editors. 1987. Forest hydrology and ecology at Coweeta. New York, Springer-Verlag.
- Swanson, F. J., and C. T. Dyrness. 1975. Impact of clear-cutting and road construction on soil erosion by landslides in the western Cascade Range, Oregon. *Geology* 1: 393-396.
- Swanson, F. J., and G. W. Lienkaemper. 1978. Physical consequences of large organic debris in Pacific Northwest streams. General Technical Report PNW-GTR-69. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.
- Swanson, F.J., M. M Swanson, and C. Woods. 1977. Inventory of mass erosion in the Mapleton Ranger District, Suislaw National Forest. Forest Science Lab Final Report, Corvallis Oregon.
- Swanson, F. J., R. L. Fredrickson, and F. M. McCorison. 1982. Material transfer in a western Oregon forested watershed. Pages 233-266 in R. L. Edmonds editor. Analysis of coniferous forest ecosystems in the western United States. Academic Press, New York.
- Swanson, F. J., G. Lienkaemper, and J. R. Sedell. 1976. History, physical effects, and management implications of large organic debris in western Oregon streams. General Technical Report PNW-56. U. S. Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.



**T**

- Tagart, J. V. 1976. The survival from egg deposition to emergence of coho salmon in the Clearwater River, Jefferson County, Washington. Master's thesis. University of Washington, Seattle.
- Tagart, J. V. 1984. Coho salmon survival from egg deposition to emergence. Pages 173-182 in J. M. Walton and D. B. Houston, editors. Proceedings of the Olympic wild fish conference. Peninsula College, Fisheries Technology Program.
- Tally, T. 1980. The effects of geology and large organic debris on stream channel morphology and process for streams flowing through old growth redwood forests in northwestern California. Doctoral dissertation. University of California, Santa Barbara.
- Tanner, R.G. 1999. Habitat use by northern spotted owls in coastal redwood forests of northwestern California. Master's thesis. Humboldt State University, Arcata.
- Tappeiner, J. C., P. M. McDonald, and D. F. Roy. 1990. *Lithocarpus densiflorus* (Hook. & Arn.) Rehd., Tanoak. Pages 417-425 in R. M. Burns and B. H. Honkala, technical coordinators. Silvics of North America. Volume 2: Hardwoods. Agricultural Handbook 654. U. S. Department of Agriculture, Washington, D. C.
- Tappel, P. D., and T. C. Bjornn. 1983. A new method of relating size of spawning gravel to salmonid embryo survival. North American Journal of Fisheries Management 3: 123-135.
- Tautz, A. F. 1977. Effects of variability in space and time on the production dynamics of salmonid fishes. Doctoral dissertation. University of British Columbia, Vancouver.
- Taylor, S. N. 1978. The status of salmon populations in California coastal rivers. California Department of Fish and Game. Salmon/Steelhead Program, Anadromous Fisheries Branch. 14 pp. Accessed on the internet <http://www.krisweb.com/biblio/regional/cdfg/taylor78.pdf>
- Taylor, E. B. 1988. Water temperature and velocity as determinants of microhabitats of juvenile chinook and coho salmon in a laboratory stream channel. Transactions of the American Fisheries Society 117: 22-28.
- Taylor, E. B. 1991. Behavioural interaction and habitat use in juvenile chinook, *Oncorhynchus tshawytscha*, and coho, *O. kisutch*, salmon. Animal Behaviour 42: 729-744.
- Taylor, E. B., and P. A. Larkin. 1986. Current response and agonistic behavior in newly emerged fry of chinook salmon, *Oncorhynchus tshawytscha*, from ocean- and stream-type populations. Canadian Journal of Fisheries and Aquatic Sciences 43: 565-573.
- Taylor, W. P. 1954. Food habits and notes on the life history of the ring-tailed cat in Texas. Journal of Mammalogy 47: 533-535.
- Tempel, D. J., and R. J. Gutierrez. 2004. Factors related to corticosterone levels in California spotted owls: implications for assessing chronic stress. Conservation Biology 18: 538-547.

- Terhune, L. D. B. 1958. The Mark VI groundwater standpipe for measuring seepage through salmon spawning gravel. *Journal of the Fisheries Research Board of Canada* 15: 1027-1063.
- Terres, J. K. 1980. *The Audubon Society encyclopedia of North American birds*. Alfred A. Knopf, New York.
- Tevis, L., Jr. 1956. Responses of small mammal populations to logging of Douglas-fir. *Journal of Mammalogy* 37: 189-196.
- The Wilderness Society (TWS). 1993. *The living landscape. Pacific salmon and federal lands: a regional analysis*. Bolle Center for Forest Ecosystem Management. Volume 2.
- Thelander, C. G. 1973. Bald eagle reproduction in California, 1972-1973. *Administrative Report 73-5*. California Department of Fish and Game, Wildlife Management Branch, Sacramento.
- Thelander, C. G., editor. 1994. *Life on the edge: a guide to California's endangered natural resources: wildlife*. BioSystems Books, Santa Cruz, California.
- Thomas, J. W., R. G. Anderson, C. Maser, and E. L. Bull. 1979. Snags. Pages 60-77 in J. W. Thomas, editor. *Wildlife habitats in managed forests: the Blue Mountains of Oregon and Washington*. Agricultural Handbook 553. USDA Forest Service, Washington, D. C.
- Thomas, J. W., E. D. Forsman, J. B. Lint, E. C. Meslow, B. R. Noon, and J. Verner. 1990. A conservation strategy for the northern spotted owl. Report 1990-791-171/20026. Interagency Committee to Address the Conservation of the Northern Spotted Owl (U. S. Forest Service, U. S. Bureau of Land Management, U. S. Fish and Wildlife Service, and National Park Service).
- Thomas, R. B., and W. F. Megahan. 1998. Peak flow responses to clear-cutting and roads in small and large basins, western Cascades, Oregon: a second opinion. *Water Resources Research* 34: 3393-3403.
- Thomasma, L. E., T. Drummer, and R. O. Peterson. 1991. Testing the habitat suitability index model for the fisher. *Wildlife Society Bulletin* 19: 291-297.
- Thomasma, L. E., T. Drummer, and R. O. Peterson. 1994. Modeling habitat selection by the fisher. Pages 316-325 in Buskirk, S. W., A. S. Harestad, M. G. Raphael, and R. A. Powell, editors. *Martens, sables, and fishers: biology and conservation*. Cornell University Press, Ithaca, New York.
- Thome, D. M., C. J. Zabel, and L. V. Diller. 1999. Forest stand characteristics and reproduction of northern spotted owls in managed north-coastal California forests. *Journal of Wildlife Management* 63: 44-59.
- Thome, D. M., C. J. Zabel, and L. V. Diller. 2000. Spotted owl turnover and reproduction in managed forests of north-coastal California. *Journal of Field Ornithology* 71: 140-146.
- Thompson, I. D., and A. S. Harestad. 1994. Effects of logging on American martens with models for habitat management. Pages 355-367 in S. W. Buskirk, A. S. Harestad, M. G. Raphael and R. A. Powell, editors. *Martens, sables, and fishers: biology and conservation*. Cornell University Press, Ithaca, New York.

Thompson, K. 1972. Determining stream flows for fish life. Pages 31-50 in Proceedings of the instream flow requirement workshop. Pacific Northwest River Basin Commission, Vancouver, Washington.

Thompson, S. K. 1992. Sampling. John Wiley & Sons, New York.

Thornburgh, D.A., R. F. Noss, D. P. Angelides, C. M. Olson, F. Euphrat, H. J. Welsh. 2000. Managing redwoods. In: Noss, R.F. (Ed.) The Redwood Forest: History, Ecology, and Conservation of the Coast Redwoods. Island Press, Covelo, CA pp.229-262.

Toews, D. A. A., and M. K. Moore. 1982. The effects of three streamside logging treatments on organic debris and channel morphology of Carnation Creek. Pages 129-153 in G. F. Hartman, editor. Proceedings of the Carnation Creek workshop: a ten-year review. Pacific Biological Station, Nanaimo, British Columbia.

Tompkins, D.M., T. Jones, and D.H. Clayton. 1996. Effects of vertical transmitted ectoparasites on the reproductive success of swifts (*Apus apus*). Functional Ecology 10: 733-740.

Torgerson, T. R., and E. L. Bull. 1995. Down logs as habitat for forest-dwelling ants: the primary prey of pileated woodpeckers in northeastern Oregon. Northwest Science 69: 294-303.

Toweill, D. E. 1976. Movements of ringtails in Texas' Edwards Plateau region. Master's thesis. Texas A & M University, College Station, Texas.

Trapp, G. R. 1972. Some anatomical and behavioral adaptations of ringtails, *Bassariscus astutus*. Journal of Mammalogy 53: 549-557.

Trapp, G. R. 1978. Comparative behavioral ecology of the ringtail and gray fox in southwestern Utah. Carnivore 1: 3-32.

Travis, J., and R. Sutter. 1986. Experimental designs and statistical methods for demographic studies of rare plants. Natural Areas Journal 6:3-12.

Trihey and Associates, Inc. 1995. Sediment supply and sediment transport conditions Willow Creek, California. Report prepared for California State Department of Recreation. Russian River, Mendocino District.

Truex, R. L., W. J. Zielinski, R. T. Golightly, R. L. Barrett, and S. M. Wisely. 1998. A meta-analysis of regional variation in fisher morphology, demography, and habitat ecology in California (Draft Report). Arcata, CA: USDA Forest Service Pacific Southwest Forest and Range Experiment Station. (as cited in: Center for Biological Diversity. (no date). Status review of the southern Sierra Nevada population of the fisher (*Martes pennanti*). Accessed on the internet at <http://www.biologicaldiversity.org/swcbd/papers/fisher.html>)

Tschaplinsky, P. J., and G. F. Hartman. 1983. Winter distribution of juvenile coho salmon (*Oncorhynchus kisutch*) before and after logging in Carnation Creek, British Columbia, and some implications for overwinter survival. Canadian Journal of Fisheries and Aquatic Sciences 40: 452-461.

Turnpenny, A. W. H., and R. Williams. 1980. Effects of sedimentation on the gravels of an industrial river system. Journal of Fish Biology 17: 681-693.

Twedt, B. 1993. A comparative ecology of *Rana aurora* and *Rana catesbeiana* at Freshwater Lagoon, Humboldt County, California. Master's thesis. Humboldt State University, Arcata, California.

Twitty, V. C., D. Grant, and O. Anderson. 1967. Amphibian orientation: an unexpected observation. *Science* 155: 352-353.

## U

Union of Concerned Scientists. 2001. Climate change in California. Accessed on the internet at <http://www.ucsusa.org/climatechange/>

Urquhart, N. S., and T. M. Kincaid. 1999. Trend detection in repeated surveys of ecological responses. *Journal of Agricultural, Biological and Environmental Statistics* 4: 404-414

USDA Forest Service. 1992. Final environmental impact statement on management for the northern spotted owl in the national forests. USDA Forest Service, Portland, OR.

USDA (U. S. Department of Agriculture). 2002. Fire effects – species: *Sequoia sempervirens*. Accessed on the internet at [http://www.fs.fed.us/database/feis/plants/tree/seqsem/fire\\_effects.html](http://www.fs.fed.us/database/feis/plants/tree/seqsem/fire_effects.html)

USDA (U. S. Department of Agriculture). 1975. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. U.S. Department of Agriculture Handbook 436.

USDA (U. S. Department of Agriculture). 2006. Soil Survey of Mendocino County, California, Western Part. Accessed on the internet August 2007 at <http://www.ca.nrcs.usda.gov/mlra02/wmendo/>

USDI (U. S. Department of the Interior). 1992. Final draft recovery plan for the northern spotted owl. Washington, D. C.

USDI (U. S. Department of the Interior). 1990. Endangered and threatened wildlife and plants; determination of threatened status for the northern spotted owl. 55 FR 26114.

USEPA (U. S. Environmental Protection Agency). 1972. DDT ban takes effect. USEPA press release: December 31, 1972. Accessed on the internet May 2002 at <http://www.epa.gov/history/topics/ddt/01.html>

USEPA. 1997. Special report on environmental endocrine disruption: an effects assessment and analysis. EPA/630/R-96/012. USEPA, Risk Assessment Forum, Washington, D. C.

USEPA. 1998a. R.E.D. facts: Dicofol. USEPA, Prevention, Pesticides, and Toxic Substances. Report EPA-738-F-98-016.

USEPA. 1998b. Total maximum daily load for sediment Redwood Creek, California. Region IX, San Francisco, CA.

USEPA. 1999a. South Fork Eel River Total Maximum Daily Loads for sediment and temperature. Region IX, San Francisco.

- USEPA. 1999b. Noyo River Total Maximum Daily Load for sediment. Region IX, San Francisco.
- USEPA. 2000. Navarro River Total Maximum Daily Loads for temperature and sediment. Region IX, San Francisco.
- USEPA. 2001a. Availability of final assessment of take of nestling American peregrine falcons in the contiguous United States and Alaska for falconry. Federal Register 66: 24149-24150.
- USEPA. 2001b. Global warming. Accessed on the internet at <http://www.epa.gov/globalwarming/climate/index.html>
- USFWS and NMFS 2003. Memorandum from Regional Director, Region 1, USFWS, and Regional Administrators for NMFS Northwest and Southwest Regions. Guidance on Single-Species and Single-Agency Approaches to Endangered Species Act Section 10 Permits for Habitat Conservation Plans, Safe Harbor Agreements, and Candidate Conservation Agreements with Assurances.
- USFWS (U. S. Fish and Wildlife Service). 1980. Red-legged frog. Draft report. Washington, D. C.
- USFWS. 1992. Protocol for surveying proposed management activities that may impact northern spotted owls. 7 March 1991, revised 17 March 1992.
- USFWS. 1994a. Proposed endangered status for the California red-legged frog. Federal Register 59: 4888-4895.
- USFWS. 1994b. Endangered and threatened wildlife and plants; determination of critical habitat for the northern spotted owl. Federal Register 57: 1796-1837.
- USFWS. 1994c. Endangered and threatened wildlife and plants; 90-day finding on a petition to remove the northern spotted owl in California from the list of threatened and endangered species. 59 FR 44958.
- USFWS. 1995a. Endangered and threatened wildlife and plants; proposed designation of critical habitat for the marbled murrelet. Federal Register 60: 40892-40953.
- USFWS. 1995b. Endangered and threatened wildlife and plants; advance notice of a proposal to remove the American peregrine falcon from the list of endangered and threatened wildlife. Federal Register 60: 34406-34409.
- USFWS. 1995c. Endangered and threatened wildlife and plants; final rule to reclassify the bald eagle from endangered to threatened in all of the lower 48 states. Federal Register 60: 35999-36010.
- USFWS. 1995d. Endangered and threatened wildlife and plants; 90-day finding for a petition to list the southern torrent salamander. Federal Register 60: 33785-33786.
- USFWS. 1996a. Endangered and threatened wildlife and plants; determination of threatened status for the California red-legged frog. Federal Register 61:

- USFWS. 1996b. Endangered and threatened wildlife and plants; final designation of critical habitat for the marbled murrelet. Federal Register 61: 26256-26320.
- USFWS. 1997a. U. S. Fish and Wildlife Service guidance on site assessment and field surveys for California red-legged frogs. USFWS, Sacramento Field Office, Sacramento, California.
- USFWS. 1997b. National list of wetland species that occur in wetlands. National Wetland Inventory, USFWS, Branch of Habitat Assessment, Saint Petersburg, Florida. Accessed at [www.nwi.fws.gov/bha/](http://www.nwi.fws.gov/bha/)
- USFWS. 1997c. Recovery plan for the threatened marbled murrelet (*Brachyramphus marmoratus*) in Washington, Oregon, and California. Portland, Oregon.
- USFWS. 1997d. Review of biological information on the Pacific fisher (*Martes pennanti*) in the western states. Draft Report. USFWS, Arcata, California.
- USFWS. 1998a. Point Arena mountain beaver (*Aplodontia rufa nigra* [Rafinesque]) recovery plan. USFWS, Region 1, Portland, Oregon.
- USFWS. 1998b. Endangered and threatened wildlife and plants; proposed rule to remove the peregrine falcon in North America from the list of endangered and threatened wildlife. Federal Register 63: 45446-45463.
- USFWS. 1998c. California freshwater shrimp (*Syncaris pacifica* Holmes) recovery plan. USFWS, Portland, Oregon.
- USFWS. 1999a. Endangered and threatened wildlife and plants; final rule to remove the American peregrine falcon from the federal list of endangered and threatened wildlife, and to remove the similarity of appearance provision for free-flying peregrines in the coterminous United States. Federal Register 64: 46541-46558.
- USFWS. 1999b. Endangered and threatened wildlife and plants; proposed rule to remove the bald eagle in the lower 48 states from the list of endangered and threatened wildlife. Federal Register 64: 36454-36464.
- USFWS. 2001a. Availability of draft environmental assessment of take of nestling American peregrine falcons for falconry. Federal Register 65: 45789-45790.
- USFWS. 2001b. General provisions; revised list of migratory birds. Federal Register 66: 52282-52300.
- USFWS (U. S. Fish and Wildlife Service). 2002. Draft guidelines for project-related habitat assessments and surveys for Point Arena mountain beaver (*Aplodontia rufa nigra*). USFWS, Arcata Fish and Wildlife Office, Arcata, California.
- USFWS (U. S. Fish and Wildlife Service). 2004. Endangered and threatened wildlife and plants; 12-month finding for a petition to list the West Coast distinct population segment of the fisher (*Martes pennanti*). Federal Register 69: 18769–18792.
- USFWS (U.S. Fish and Wildlife Service). 2002. Recovery Plan for the California Red-legged Frog (*Rana aurora draytonii*). U.S. Fish and Wildlife Service, Portland, Oregon. viii + 173 pp.

USFWS (U.S. Fish and Wildlife Service). 2008. Letter to Mr. Bill Snyder of CalFire. Subject: U.S. Fish and Wildlife Service review of timber harvest plans and non-industrial timber management plans, transition documents.

USFWS (U.S. Fish and Wildlife Service). 2010. 2010 Draft Revised Recovery plan for the northern spotted owl: *Strix occidentalis caurina*. U.S. Fish and Wildlife Service. Portland, Oregon. Xii + 181 pp.

USGS (United States Geological Society). 2002. California earthquake history 1769-present. Accessed on the internet at [http://pasadena.wr.usgs.gov/info/cahist\\_eqs.html](http://pasadena.wr.usgs.gov/info/cahist_eqs.html)

## V

van den Berghe, E. P., and M. R. Gross. 1984. Female size and nest depth in coho salmon (*Oncorhynchus kisutch*). Canadian Journal of Fisheries and Aquatic Sciences 41: 204-206.

van den Berghe, E. P., and M. R. Gross. 1986. Length of breeding life of coho salmon (*Oncorhynchus kisutch*). Canadian Journal of Zoology 64: 1482-1486.

van den Berghe, E. P., and M. R. Gross. 1989. Natural selection resulting from female breeding competition in a Pacific salmon (coho: *Oncorhynchus kisutch*). Evolution 43: 125-140.

Vannote, R. L., G. W. Minshall, K. W. Cummins, J. R. Sedell, and C. E. Cushing. 1980. The river continuum concept. Canadian Journal of Fisheries and Aquatic Sciences 37: 130-137.

Van Sickle, J., and S. V. Gregory. 1990. Modeling inputs of large woody debris to streams from falling trees. Canadian Journal of Forestry Research 20: 1593-1601.

Van Wagner, T. 1996. Selected life history and ecological aspects of a population of foothill yellow-legged frogs (*Rana boylei*) from Clear Creek, Nevada City, California. Master's thesis. California State University, Chico.

Vaux, W. G. 1962. Interchange of stream and intragravel water in a salmon spawning riffle. Special Scientific Report - Fisheries 405. U. S. Fish and Wildlife Service.

Veirs, S. D. 1980. The role of fire in northern coast redwood forest dynamics. Pages 190-209 in Proceedings of the second conference on scientific research in the national parks. National Park Service, San Francisco, California.

Velsen, F. P. J. 1987. Temperature and incubation in Pacific salmon and rainbow trout: compilation of data on mean hatching time, mortality and embryonic staging. Canadian Report of Fisheries and Aquatic Sciences 626.

Verner, J., and A. S. Boss, editors. 1980. California wildlife and their habitats: western Sierra Nevada. General Technical Report PSW-37. USDA Forest Service, Berkeley, California.

Verner, J., G. N. Steger, G. P. Eberlein, D. A. Leal, and T. E. Munton. 1991. Annual progress report: 1990. Part 1: Spotted owl home-range size and composition in the Sierra National Forest. Part 2: Demography of spotted owls in the Sierra National Forest and Sequoia/Kings

Canyon National Parks, Fresno, California. USDA Forest Service, Pacific Southwest Research Station, Berkeley, California.

Vernier, J. M. 1969. Chronological table of embryonic development of rainbow trout. Canada Fisheries and Marine Service Translation Series 3913.

Vesely, D. 1997. Terrestrial amphibian abundance and species richness in headwater riparian buffer strips, Oregon Coast Range. Master's thesis. Oregon State University, Corvallis.

Von Haartman, L. 1957. Adaptation in hole nesting birds. *Evolution* 11:339-347.

Voth, E. 1968. Food habits of the Pacific mountain beaver, *Aplodontia rufa pacifica*. Doctoral dissertation. Oregon State University, Corvallis.

Vronskiy, B. B. 1972. Reproductive biology of the Kamchatka River chinook salmon (*Oncorhynchus tshawytscha* [Walbaum]). *Journal of Ichthyology* 12: 259-273.

## W

Waananen, A. O., and J. R. Crippin. 1977. Magnitude and frequency of floods in California. Water Resources Investigations Report 77-21. U. S. Geological Survey.

Wagner, H. H. 1974. Photoperiod and temperature regulation of smolting in steelhead trout (*Salmo gairdneri*). *Canadian Journal of Zoology* 52: 219-234.

Wagner, H.H., R.L. Wallace, and H.K. Campbell. 1963. The seaward migration and return of hatchery-reared steelhead trout in the Alsea River, Oregon. *Transactions of the American Fisheries Society* 92(3):202-210.

Wahbe, T. R. 1996. Tailed frogs (*Ascaphus truei*, Stejneger) in natural and managed coastal temperate rainforests of southwestern British Columbia, Canada. Master's thesis. University of British Columbia, Vancouver.

Wahbe, T. R., G. D. Sutherland, L. A. Dupuis, M. P. Hayes, and T. Quinn. 2001. Status, distribution, and ecology of the Olympic tailed frog, *Ascaphus truei* (Stejneger 1899), and the Rocky Mountain tailed frog, *Ascaphus montanus* (Mittleman and Myers 1949): a literature review. Final report. Prepared by Landscape and Wildlife Advisory Group and Amphibian Research Consortium for Washington Department of Natural Resources, Olympia.

Wahbe, T.R., F.L. Bunnell, and R.B. Bury. 2004. Terrestrial movements of juvenile and adult tailed frogs in relation to timber harvest in coastal British Columbia. *Canadian Journal of Forest Research* 34:2455-2466.

Wahle, R. J., and R. R. Vreeland. 1978. Bioeconomic contribution of Columbia River hatchery fall chinook salmon, 1961 through 1964 broods, to the Pacific salmon fisheries. *Fishery Bulletin (U. S.)* 76: 179-208.

Waithman, J. D., R. A. Sweitzer, D. V. Vuren, A. J. Brinkhaus, I. A. Gardner, and W. M. Boyce. 1999. Range expansion, population sizes, and management of wild pigs in California. *Journal of Wildlife Management* 63: 298-308.



- Walker, E. P., F. Wamick, and S. E. Hamlet. 1968. Mammals of the world. Second edition. John Hopkins Press, Baltimore, Maryland.
- Wallace, R. L., and L. V. Diller. 1998. Length of the larval cycle of *Ascaphus truei* in coastal streams of the redwood region, northern California. *Journal of Herpetology* 32: 404-409.
- Wallis, J. 1968. Recommended time, size, and age for release of hatchery-reared salmon and steelhead trout. Processed Report. Fisheries Commission of Oregon, Clackamas. 61 p.
- Walton, B. J. 1997. Development of techniques for raptor management with emphasis on the peregrine falcon. Administrative Report 74-2. California Department of Fish and Game, Sacramento.
- Ward, B. R., and P. A. Slaney. 1979. Evaluation of in-stream enhancement structures for the production of juvenile steelhead trout and coho salmon in the Keogh River: Progress 1977 and 1978. Fisheries Technical Circular 45. Ministry of Environment, Province of British Columbia.
- Ward, B. R., and P. A. Slaney. 1988. Life history and smolt-to-adult survival of Keogh River steelhead trout (*Salmo gairdneri*) and the relation to smolt size. *Canadian Journal of Fisheries and Aquatic Sciences* 45: 1110-1122.
- Ward, B. R., P. A. Slaney, A. R. Facchin, and R. W. Land. 1989. Size-biased survival in steelhead trout (*Oncorhynchus mykiss*): back-calculated lengths from adults' scales compared to migrating smolts at the Keogh River, British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences* 46: 1853-1858.
- Ward, J. P., Jr. 1990. Spotted owl reproduction, diet and prey abundance in northwest California. Master's thesis. Humboldt State University, Arcata, California.
- Ward, J. P., Jr., R. J. Gutiérrez, and B. R. Noon. 1998. Habitat selection by northern spotted owls: the consequences of prey selection and distribution. *The Condor* 100: 79-92.
- Ware, D. M., and R. E. Thomson. 1991. Link between long-term variability in upwelling and fish production in the northeast Pacific Ocean. *Canadian Journal of Fisheries and Aquatic Sciences* 48: 2296-2306.
- Wasser, S. K., K. Bevis, G. King, and E. Hanson. 1997. Noninvasive physiological measures of disturbance in the northern spotted owl. *Conservation Biology* 11: 1019-1022.
- Watson, J. W. 1993. Responses of nesting bald eagles to helicopter surveys. *Wildlife Society Bulletin* 21: 171-178.
- Waters T. F. 1995. *Sediment in Streams: Sources, Biological Effects and Control*. Bethesda, Maryland. American Fisheries Society. Monograph 7
- WDFW (Washington Department of Fish and Wildlife). 1995. Priority habitat management recommendations: snags. Draft report. WDFW, Olympia.
- Weaver, T. M., and J. J. Fraley. 1993. A method to measure emergence success of westslope cutthroat trout fry from varying substrate compositions in a natural stream channel. *North American Journal of Fisheries Management* 13: 817-822.

Weaver, W. E., and D. K. Hagans. 1994. Handbook for forest and ranch roads. A guide for planning, designing, constructing, reconstructing, maintaining and closing wildland roads. Prepared by Pacific Watershed Associates for the Mendocino County Resource Conservation District in cooperation with the California Department of Forestry and Fire Protection and the U. S. Soil Conservation Service.

Weckerly, F. W. 1993. Intersexual resource partitioning in black-tailed deer: a test of the body size hypothesis. *Journal of Wildlife Management* 57: 475-494.

Wedemeyer, G. A., R. L. Saunders, and W. C. Clarke. 1980. Environmental factors affecting smoltification and early marine survival of anadromous salmonids. *Marine Fisheries Review* 42: 1-14.

Weir, R. D. 1995. Diet, spatial organization, and habitat relationships of fishers in south-central British Columbia. Master's thesis. Simon Fraser University, Burnaby, British Columbia.

Weitkamp, L. A., T. C. Wainwright, G. J. Bryant, G. B. Milner, D. J. Teel, R. G. Kope, and R. S. Waples. 1995. Status review of coho salmon from Washington, Oregon, and California. Technical Memorandum. NMFS-NWFSC-24. National Oceanic and Atmospheric Administration, National Marine Fisheries Service.

Welsh, H. H. 1990. Relictual amphibians and old-growth forests. *Conservation Biology* 4: 309-319.

Welsh, H. H., Jr. 1993. A hierarchical analysis of the niche relationships of four amphibians from forested habitats in northwestern California. Doctoral dissertation. University of California, Berkeley.

Welsh, H. H., Jr., and A. J. Lind. 1989. Old growth forests and the distribution of the terrestrial herpetofauna. Pages 439-458 in R. E. Szaro, K. E. Severson and D. R. Patton, editors. Proceedings of the symposium on the management of amphibians, reptiles, and small mammals in North America. General Technical Report RM-166. USDA Forest Service.

Welsh, H. H., Jr., and A. J. Lind. 1991. The structure of the herpetofaunal assemblage in the Douglas-fir/hardwood forests of northwestern California and southwestern Oregon. Pages 394-413 in Ruggerio, L.F.; Aubry, K.B.; Carey, A.B.; Huff, M. (technical coordinators). *Wildlife and Vegetation of Unmanaged Douglas-fir Forests*. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. Gen. Tech. Rep. PNW-GTR-285.

Welsh, H. H., Jr., and A. J. Lind. 1992. Population ecology of two relictual salamanders from the Klamath Mountains of northwestern California. Pages 419-437 in D. McCullough and R. Barrett, editors. *Wildlife 2001: populations*. Elsevier Science Publications, London, England.

Welsh, H. H., Jr., and A. J. Lind. 1996. Habitat correlates of the southern torrent salamander, *Rhyacotriton variegatus* (Caudata: Rhyacotritonidae), in northwestern California. *Journal of Herpetology* 30: 385-398.

Welsh, H. H., Jr., and A. J. Lind. 2002. Stream amphibians of the Klamath-Siskiyou region: relationships with forest and stream environments. *Journal of Wildlife Management*.

Welsh, H. H., Jr., and L. M. Ollivier. 1998. Stream amphibians as indicators of ecosystem stress: a case study from California's redwoods. *Ecological Applications* 8: 1118-1132.

Welsh, H. H., Jr., A. J. Lind, L. M. Ollivier, and D. L. Waters. 1992. Habitat associations of the southern Olympic salamander *Rhyacotriton variegatus* in northwestern California. Contract No. 8CA74674. Prepared by Redwood Sciences Laboratory, Pacific Southwest Experiment Station, USDA Forest Service, Arcata, California for California Department of Forestry and Fire Protection, Sacramento, California.

Welsh, H. H., Jr., A. J. Lind, L. M. Ollivier, and D. L. Waters. 1993. A hierarchical analysis of the habitat associations of the tailed frog (*Ascaphus truei*) in the mixed coniferous/hardwood forests of northwestern California. Contract No. 8CA74674. Prepared by Redwood Sciences Laboratory, Pacific Southwest Experiment Station, USDA Forest Service, Arcata, California for California Department of Forestry and Fire Protection, Sacramento, California.

Welsh, H. H., Jr., A. J. Lind, L. M. Ollivier, G. R. Hodgson, and N. E. Karraker. 1998. Comments on the PALCO HCP/SYP and EIS/EIR with regard to the maintenance of riparian, aquatic, and late seral ecosystems and their associated amphibian and reptile species. Unpublished report prepared by Herpetology Research Group, USDA Forest Service, Pacific Southwest Research Station, Redwood Sciences Laboratory, Arcata, California.

Welsh, H. H., Jr., G. R. Hodgson, B. C. Harvey, and M. E. Roche. 2001. Distribution of juvenile coho salmon in relation to water temperatures in tributaries of the Mattole River, California. *North American Journal of Fisheries Management* 21: 464-470.

Welsh, H. H., Jr., G. R. Hodgson, and N. E. Karraker. 2005. Influences of the vegetation mosaic on riparian and stream environments in a mixed forest-grassland landscape in "Mediterranean" northwestern California. *Ecography* 28: 537-551.

Welsh, H. H., Jr., L. M. Ollivier, and D. G. Hankin. 1997. A habitat-based design for sampling and monitoring stream amphibians with an illustration from Redwood National Park. *Northwestern Naturalist* 78: 1-16.

Wemple, B. C., J. Jones, and G. Grant. 1996. Channel network extension by logging roads in two basins, western Cascades, Oregon. *Water Resources Bulletin* 32: 1195-1207.

Wensel, L., Krumland and Meershaert, 1984. User's Guide, Agriculture Experiment Station, University of California. Bulletin 1924.

Wernz, J. G. 1969. Spring mating of *Ascaphus*. *Journal of Herpetology* 3: 167-169.

Werschkul, D. F., and M. T. Christensen. 1977. Differential predation by *Lepomis macrochirus* on the eggs and tadpoles of *Rana*. *Herpetologica* 33: 237-241.

WFPB (Washington Forest Practice Board). 1995. Standard methodology for conducting watershed analysis. Version 4.0 of the Washington Administrative Code (WAC). WFPB, Washington Department of Natural Resources, Seattle.

WFPB. 1997. Board Manual: Standard Methodology for Conducting Watershed Analysis. Version 4.0. Washington Forest Practice Board, Olympia, WA.

- White, C. M., and T. J. Cade. 1971. Cliff-nesting raptors and ravens along the Colville River in arctic Alaska. *Living Bird* 10: 107-150.
- White, G. C., and K. P. Burnham. 1999. Program MARK: survival estimation from populations of marked animals. *Bird Study* 46 Supplement: 120-138.
- White, H. C. 1942. Atlantic salmon redds and artificial spawning beds. *Journal of the Fisheries Research Board of Canada* 6: 37-44.
- Whitford, W. G., and V. H. Hutchinson. 1966. Cutaneous and pulmonary gas exchange in ambystomatid salamanders. *Copeia* 1966: 573-577.
- Whittaker, J. G. 1987. Sediment transport in step-pool streams. Pages 545-579 in C. R. Thorne, J. C. Bathurst and R. D. Hey, editors. *Sediment transport in gravel-bed rivers*. John Wiley and Sons, New York.
- Wickett, W. P. 1951. The coho salmon population of Nile Creek. *Fisheries Research Board of Canada Progress Report of the Pacific Coast Station* 89: 88-89.
- Wickett, W. P. 1954. The oxygen supply to salmon eggs in spawning beds. *Journal of the Fisheries Research Board of Canada* 11: 933-953.
- Wickett, W. P. 1958. Review of certain environmental factors affecting the production of pink and chum salmon. *Journal of the Fisheries Research Board of Canada* 15: 1103-1126.
- Wickman, B. E. 1980. Increased growth of white fir after a Douglas-fir tussock moth outbreak. *Journal of Forestry* 78: 31-33.
- Wiens, J. A. 1970. Effects of early experience on substrate pattern selection in *Rana aurora* tadpoles. *Copeia* 1970: 543-548.
- Wilford, D. J. 1984. The sediment-storage function of large organic debris at the base of unstable slopes. Pages 115-119 in W. R. Meehan, T. R. Merrell, Jr., and T. A. Hanley, editors. *Fish and wildlife relationships in old-growth forests*. American Institute of Fishery Research Biologists, Juneau, Alaska.
- Wilkins, R. N., and N. P. Peterson. 2000. Factors related to amphibian occurrence and abundance in headwater streams draining second-growth Douglas-fir forests in southwestern Washington. *Forest Ecology and Management* 139: 79-91.
- Willey, R. B., and R. E. Richards. 1981. Vocalizations of the ringtail (*Bassariscus astutus*). *Southwestern Naturalist* 26: 23-30.
- Williams, B. 1996. Draft report to the California Department of Fish and Game: purple martin.
- Williams, B. 2001. Comments on forest management for southern California purple martins. Unpublished letter to southern California forest biologists dated 24 October 2001. Accessed on the internet March 2002 at <http://forum.purplemartin.org/Archive/California.html>.
- Williams, D. F. 1986. Mammalian species of special concern in California. *Wildlife Management Division Administrative Report* 86-1. California Department of Fish and Game.

- Willis, R. A. 1954. The length of time that silver salmon spent before death on the spawning grounds at Spring Creek, Wilson River, in 1951-52. Oregon Fish Commission Research Briefs 5: 27-31.
- Wilson, D. E., and S. Ruff. 1999. The Smithsonian book of North American mammals. University of British Columbia Press, Vancouver.
- Willson, M. F., and K. C. Halupka. 1995. Anadromous fish as keystone species in vertebrate communities. Conservation Biology 9: 489-497.
- Wilson, C. E., and B. W. Collins. 1992. Life history, distribution, run size and angler harvest of steelhead in the South Fork Trinity River basin. Chapter III, Job III. Pages 50-92 in K. Urquhart, editor. Annual report, Trinity River basin salmon and steelhead monitoring project, 1990-1991 season. CDFG, Inland Fisheries Division, Sacramento, California.
- Wilson, C. E., and T. J. Mills. 1992. Life history, distribution, run size and angler harvest of steelhead in the South Fork Trinity River basin. Chapter III, Job III. Pages 44-81 in K. Urquhart, editor. Annual report, Trinity River basin salmon and steelhead monitoring project, 1989-1990 season. CDFG, Inland Fisheries Division, Sacramento, California. June.
- Wimberly, M. C. 2002. Spatial simulation of historical landscape patterns in coastal forests of the Pacific Northwest. Canadian Journal of Forest Research 32: 1316-1328.
- Winchester, N. N. 1993. Coastal Sitka spruce canopies: Conservation of biodiversity. Bioline 11: 9-11.
- Winchester, N. N. 1996. Canopy arthropods of coastal Sitka spruce trees on Vancouver Island, British Columbia, Canada. Pages 151-168 in N.E. Stork, J.A. Adis, and R.K. Didham, editors. Canopy Arthropods. Chapman and Hall, London, U.K.
- Winchester, N. N. 1997. The arboreal superhighway: Arthropod and landscape dynamics. Canadian Entomologist 129: 595-599.
- Winchester, N. N., and R. A. Ring. 1996. Northern temperate coastal Sitka spruce forests with special emphasis on canopies: studying arthropods in an unexplored frontier. New Scientist 70: 94-103.
- Withler, F. C. 1982. Transplanting Pacific salmon. Canadian Technical Report of Fisheries and Aquatic Sciences No. 1079. Canada Department of Fisheries and Oceans, Nanaimo, British Columbia.
- Wolman, M. G., and J. P. Miller. 1960. Magnitude and frequency of forces in geomorphic processes. Journal of Geology 68: 54-74.
- Woodhouse, C. A. and J. T. Overpeck. 1998. 2000 years of drought variability in the central United States. Bulletin of the American Meteorological Society 79: 2693-2714. Accessed on the internet at: <http://www.ncdc.noaa.gov/paleo/amsdrought.pdf>
- Woods, P. F. 1980. Dissolved oxygen in intragravel water of three tributaries to Redwood Creek, Humboldt County, California. Water Resources Bulletin 16: 105-111.

Wooster, T. W. 1996. Red tree vole (*Arborimus pomo*) observations in Humboldt, Mendocino, Sonoma, and Trinity counties, California 1991-1995. Biological Report. California Department of Fish and Game, Region 3.

Wooster, T. W. 1997. Letter to Wayne S. White, U.S. Fish and Wildlife Service, Sacramento, CA, commenting on draft Point Arena mountain beaver recovery plan.

Wright, A. H., and A. A. Wright. 1949. Handbook of frogs and toads of the United States and Canada. Third edition. Comstock Publishing, Ithaca, New York.

Wright, K. A., K. H. Sendek, R. M. Rice, and R. B. Thomas. 1990. Logging effects on streamflow: storm runoff at Caspar Creek in northwestern California. *Water Resources Research* 26: 1657-1667.

Wroble, J., and D. Waters. 1989. Summary of tailed frog (*Ascaphus truei*) and Olympic salamander (*Rhyacotriton olympicus variegatus*) stream surveys for the Pacific Lumber Company, October 1987 to September 1988. Prepared for Pacific Lumber Company.

Wydoski, R. S., and R. R. Whitney. 1979. Inland fishes of Washington. University of Washington Press, Seattle.

## **XYZ**

York, E. C. 1996. Fisher population dynamics in north-central Massachusetts. Master's thesis. University of Massachusetts, Amherst.

Young, K. A. 1999. Environmental correlates of male life history variation among coho salmon populations from two Oregon coastal basins. *Transactions of the American Fisheries Society* 128: 1-16.

Young, M. K. 1994. Movement and characteristics of stream-borne coarse woody debris in adjacent burned and undisturbed watersheds in Wyoming. *Canadian Journal of Forest Research* 24: 1933-1938.

Young, M. K., W. A. Hubert, and T. A. Wesche. 1991. Selection of measures of substrate composition to estimate survival to emergence of salmonids and to detect changes in stream substrates. *North American Journal of Fisheries Management* 11: 339-346.

Young, R.A., and Wiersma, J.L., 1973, The role of rainfall impact in soil detachment and transport, *Water Resources Research*, 9, 1629-1636.

Zabel, C. J., H. F. Sakai, and J. R. Waters. 1993. Associations between prey abundance, forest structure, and habitat use patterns of spotted owls in California. *Journal of Raptor Research* 27: 58.

Zabel, C. J., J.R. Dunk, H. B. Stauffer, L. M. Robert, B. S. Mulder, and A. L. Wright. 2003. Northern spotted owl habitat models for research and management application in California. *Ecological Applications* V. 13, Issue 4 pp. 1027-1040

- Zabel, C. J., K. McKelvey, and J. P. Ward, Jr. 1995. Influence of primary prey on home-range size and habitat-use patterns of northern spotted owls (*Strix occidentalis caurina*). *Canadian Journal of Zoology* 73: 433-439.
- Zarnowitz, J. E., and D. A. Manuwal. 1985. The effects of forest management on cavity-nesting birds in northwestern Washington. *Journal of Wildlife Management* 49: 25-263.
- Zeiner, D. C., W. F. Laudenslayer Jr., and K. E. Mayer, editors. 1988. California's wildlife. Volume I. Amphibians and reptiles. California Statewide Habitat Relationships System. California Department of Fish and Game, Sacramento.
- Zeiner, D. C., W. F. Laudenslayer Jr., K. E. Mayer, and M. White, editors. 1990a. California's wildlife. Volume III. Mammals. California Statewide Habitat Relationships System. California Department of Fish and Game.
- Zeiner, D. C., W. F. Laudenslayer Jr., K. E. Mayer, and M. White, editors. 1990b. California's wildlife. Volume II. Birds. California Statewide Habitat Relationships System. California Department of Fish and Game.
- Zielinski, W. J., and M. J. Mazurek. 2006. The reproductive ecology and home range of the Point Arena mountain beaver (*Aplodontia rufa nigra*). Unpublished report. Final report. USDA Forest Service, Pacific Southwest Research Station, Redwood Sciences Laboratory.
- Zielinski, W. J., and S. T. Gellman. 1999. Bat use of remnant old-growth redwood stands. *Conservation Biology* 13: 160-167.
- Zielinski, W. J., N. P. Duncan, E. C. Farmer, R. L. Truex, A. P. Clevenger, and R. H. Barrett. 1999. Diet of fishers (*Martes pennanti*) at the southernmost extent of their range. *Journal of Mammalogy* 80: 961-971.
- Zielinski, W. J., T. E. Kucera, R. H. Barrett. 1995a. Current distribution of the fisher, *Martes pennanti*, in California. *California Fish and Game* 81: 104-112.
- Zielinski, W. J., G. A. Schmidt, and K. N. Schmidt. 1995b. Six Rivers National Forest fisher study. Progress Report II, 28 October 1994 - 31 October 1995. USDA Forest Service, Redwood Sciences Laboratory, Pacific Southwest Research Station, Arcata, California and Six Rivers National Forest, Eureka, California.
- Zielinski, W. J., R. L. Truex, C. V. Ogan, and K. Busse. 1997. Detection surveys for fishers and American martens in California, 1989-1994. Pages 372-392 in G. Proulx, H. N. Bryant and P. M. Woodward, editors. *Martes: taxonomy, ecology, and management*. Provincial Museum of Alberta, Edmonton, Alberta, Canada.
- Zierner, R., Project Leader. 1996. Caspar Creek streamflow and sediment records: 1963-1995. CD-ROM. USDA Forest Service, Pacific Southwest Research Station and California Department of Forestry and Fire Protection.
- Zierner, R. R. 1981a. Storm flow response to road building and partial cutting in small streams of northern California. *Water Resources Research* 17: 907-917.

Ziemer, R. R. 1981b. Roots and the stability of forested slopes. Pages 343-361 in T. R. H. Davies and A. J. Pearce, editors. Erosion and sediment transport in Pacific Rim steeplands. Publication No. 132. International Association of Hydrological Scientists, Wallingford, England.

Ziemer, R. R. 1998. Flooding and stormflows. Pages 15-24 in R. R. Ziemer, editor. Proceedings of the conference on coastal watersheds: the Caspar Creek story. General Technical Report PSW-GTR-168. USDA Forest Service, Pacific Southwest Research Station, Albany, California.

Ziemer, R. R., and J. Lewis. 1984. The decline and recovery of root biomass in redwood and mixed conifer forests of northwestern California. Unpublished draft paper. USDA Forest Service, Pacific Southwest Research Station, Arcata, California.

Ziemer, R. R., J. Lewis, and E. T. Keppeler. 1996. Hydrologic consequences of logging second-growth redwood watersheds. Pages 131-133 in J. LeBlanc, editor. Proceedings of the conference on coast redwood forest ecology and management. University of California, Cooperative Extension, Forestry, Humboldt State University, Arcata, California.

Zweifel, R. G. 1955. Ecology, distribution, and systematics of frogs of the *Rana boylei* group. University of California Publications in Zoology 54: 207-292.

Zwieniecki, M. A., and M. Newton. 1999. Influence of streamside cover and stream features on temperature trends in forested streams of western Oregon. Western Journal of Applied Forestry 14: 106-113.