

**Selected References for  
An introduction to stream restoration and protection practices for the landowner  
February 8, 2022**

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The following references are among the most recent and relevant materials for this presentation. It is not a comprehensive bibliography, but will give the interested reader much more information on the topics covered, and also provide additional references for further study. Most of these works are suitable for the general reader, and many are free of charge when downloaded from the appropriate websites, particularly those from the OSU Extension Service. Some are classics (in my opinion as I note below) and are worth acquiring and rereading every so often.

**1. Small woodlot management**

a. Management Plans

- i. "Oregon's Forest Protection Laws – An Illustrated Manual, Third Edition," Oregon Forest Resources Institute, 2018. **[An excellent, well- illustrated and well-described manual on how to understand Oregon's forest practice laws.]**
- ii. "Ecological Forest Management," Franklin, J.F., Johnson, K.N., Johnson, D.L., Waveland Press. 2018, 646 pages. **[An excellent, thought-provoking reference book.]**

b. Understanding the benefits of down wood & wildlife habitat enhancement suggestions

- i. "The seen and unseen world of the fallen tree," Maser, Chris; Trappe, James M., technical editors. Gen. Tech. Rep. PNW-164. Portland, OR: Pacific Northwest Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, 1984. **[A classic, very broad, well written and descriptive.]**
- ii. "The Value of Coarse Woody Debris to Vertebrates in the Pacific Northwest," Bull, E.L., USDA Forest Service Gen. Tech. Rep. PSW-GTR-181. 2002.
- iii. "Wildlife in Managed Forests, Oregon Forests as Habitat," Cafferata Coe, F., Oregon Forest Resources Institute, 2020.
- iv. "Wildlife in Managed Forests, Forest amphibians," Cafferata Coe, F., et al, Oregon Forest Resources Institute, 2021.
- v. "Wildlife in Managed Forests, Pollinators and Forestry," Oregon Forest Resources Institute.
- vi. "Ecology of Coarse Woody Debris in Temperate Ecosystems," Harmon, M.E., Franklin, J.F., et al, 1986.
- vii. "Enhancing Wildlife on Private Woodlands, EC 1122," deCalesta, D.S., Oregon State University Extension Service, June 2002. (A broad reference, covering many related topics.)

c. How to make snags for bird habitat

- i. "Snag Characteristics and Dynamics in Douglas-fir Forests, Western Oregon," Cline, S.P., Berg, A.B., Wright, H.M., The Journal of Wildlife Management, vol 44, no. 4, October 1980, pgs 773 – 786.
- ii. "Use of Snags by Birds in Douglas-fir Forests, Western Oregon," Mannan, R. William, Meslow, E. Charles., Wright, H.M., The Journal of Wildlife Management, vol 44, no. 4, October 1980, pgs 787 – 797.
- iii. "Wildlife Habitats in Managed Forests, the Blue Mountains of Oregon and Washington, Agricultural Handbook No. 553," USDA Forest Service, September 1979. **[A classic. A very broad reference and while not dealing with the west side, it is very informative.]**

**2. Opportunities for stream stewardship**

a. Stream surveys:

- i. "Streamkeeper's Field Guide," Murdoch, T., Cheo, M., O'Laughlin, K., The Adopt-a-Stream Foundation, 1999. **[A classic]**
- ii. Guide to Pacific Northwest Aquatic Invertebrates," Hefele, R., Hinton, S., Oregon Dept. of Environmental Quality, 1996.
- iii. "Key to Field identification of Anadromous Juvenile Salmonids in the Pacific Northwest," NOAA Technical Report NMFS CIRC-366, McConnell, R.J., Snyder, G.R., 2011.

b. Stream habitat improvement

- i. "Wildlife in Managed Forests, Fish Habitat and Passage," Cafferata Coe, F., Oregon Forest Resources Institute, 2014.

- ii. “Guide to Placement of Wood, Boulders and Gravel for Habitat Restoration,” Oregon Departments of State Lands, Forestry, Fish & Wildlife and the Oregon Watershed Enhancement Board, 2010.
  - iii. “Oregon Aquatic Habitat, Restoration and Enhancement Guide,” The Oregon Plan for Salmon and Watershed, May 1999.
  - iv. “Changes in Characteristics and Function of Woody Debris with Increasing Size of Streams in Western Washington,” Robert E. Bilby & James W. Ward (1989), Transactions of the American Fisheries Society, 118:4, 368-378, DOI: 10.1577/1548-8659(1989)118<0368:CICAFO>2.3.CO;2
  - v. “Large Woody Debris in Forested Streams in the Pacific Northwest: Past, Present, and Future,” PETER A. BISSON, ROBERT E. BILBY, MASON D. BRYANT, C. ANDREW DOLLOFF, GLENN B. GRETTE, ROBERT A. HOUSE, MICHAEL L. MURPHY, K VICTOR KOSKI, and JAMES R. SEDELL, 1987. **[A classic]**
  - vi. “Heed the Head: Buffer Benefits Along Headwater Streams,” Olson, D., USDA Forest Service, #178, October 2015.
  - vii. “Tree Buffers Along Streams on Western Oregon Farmland, EM 8895,” Emmingham, W.H., Bishaw, B., Rogers, W., Oregon State University Extension Service, March 2016.
- c. Riparian Management Area (RMA) planting
- i. “Plants of the Pacific Northwest Coast, Washington, Oregon, British Columbia & Alaska,” Pojar, J., MacKinnon, A., Lone Pine, 1994.
  - ii. “Natural Vegetation of Oregon and Washington,” Franklin, J.F., Dyrness, C.T., OSU Press, 1988. **[A classic – ties it all together in terms of how plants are related to one another within specific forest types.]**
  - iii. “Selecting Native Plant Materials for Restoration Projects, EM 8885-E” Withrow-Robinson, B. Johnson, R., Oregon State University Extension Service, November 2006.
  - iv. “Remember Redcedar! An Overlooked Species Reveals Its Potential,” Brodie, L., Harrington, C., USDA Forest Service, #147, October 2012.
- d. Benefits of beavers
- i. “Eager: The Surprising, Secret Life of Beavers and Why they Matter,” Goldfarb, Ben, Chelsea Green, 2018. **[An excellent book for the general reader – available at your local library.]**
  - ii. “Wildlife in Managed Forests, the American Beaver,” Cafferata Coe, F., Petro, V., Taylor, J. Oregon Forest Resources Institute, 2016.
  - iii. “The Importance of Beaver Ponds to Coho Salmon Production in the Stillaguamish River Basin, Washington, USA,” Michael M. Pollock , George R. Pess , Timothy J. Beechie & David R. Montgomery (2004), North American Journal of Fisheries Management, 24:3, 749-760, DOI: 10.1577/M03-156.1
  - iv. “The general ecology of beavers (*Castor* spp.), as related to their influence on stream ecosystems and riparian habitats, and the subsequent effects on fish – a review,” P. Collen1 & R.J. Gibson, Reviews in Fish Biology and Fisheries 10: 439–461, 2001.
  - v. “The Beaver Restoration Guidebook, Working with Beaver to Restore Streams, Wetlands and Flood Plains,” US Fish & Wildlife Service, 2015.
- e. Improve fish passage requirements as needed
- i. “Managing Woodland Roads, a Field Handbook,” Oregon State University Extension Service, 2006. **[A very good, well- illustrated and well-described manual on best practices for road construction, including over streams.]**
  - ii. “Forest Practices Technical Note Number 3 Version 1.0 Replacing Stream Crossing Structures Outside Normal In-Water Working Periods,” Oregon Department of Forestry, 2001.
  - iii. “Forest Practices Technical Note Number 4 Version 1.0 Fish Passage Guidelines for New and Replacement Stream Crossing Structures,” Oregon Department of Forestry, 2002.