



Recommended Reading & Useful Websites

There is a wide range of books available that can offer you further guidance on making your habitat restoration program a success. Some examples include:

HABITAT RESTORATION

A Citizens Streambank Restoration Handbook (1995), by Karen Firehock and Jacqueline Doherty (Izaak Walton League of America). This handbook outlines practical and technical considerations for restoration projects. The guide focuses on streambank methods, but would be useful for any stream project. Two case studies show how the concepts can be applied in practice.

Trout Stream Therapy (1993), by Robert Hunt (University of Wisconsin Press). This useful field guide outlines a variety of stream rehabilitation techniques used successfully in the low and moderate gradient streams of Wisconsin. Full color illustrations help bring the different methods to life.

Better Trout Habitat (1991), by Christopher Hunter (Island Press). This clear and easily readable book outlines the process of trout habitat restoration and offers several helpful case histories. It is a must-read for all those interested in trout stream restoration.

Living Waters (1993), by Owen Owens (Rutgers University Press). Chapter founder Owens shares the story of the Valley Forge Chapter of Trout Unlimited and its experiences in saving the streams of southeastern Pennsylvania. The book also includes a helpful handbook for organizers.

Stream Habitat Improvement Handbook (1992), by Monte Seehorn (USDA, Forest Service, Southern Region). This fully illustrated handbook describes the purpose, design, and advantages and disadvantages of a wide range of instream habitat techniques, from boulder placement to wing deflectors.

Water, Rivers and Creeks (1997), by Luna Bergere Leopold. This concise treatment of the hydrology of rivers and groundwater is an expanded, reorganized and updated version of the author's earlier *Water—A Primer*. The book provides valuable background information needed for an understanding of contemporary environmental issues having to do with surface water and groundwater, and should appeal to students of environmental science as well as the interested layperson.

STREAM MONITORING

The Monitors Handbook (1992), by Gayla Campbell and Steve Wildberger (LaMotte Company). This guide provides a general overview of monitoring programs, with basic information on a wide range of water quality tests.

Citizen Monitoring Manual (1991), and *An Introduction to Water Quality Monitoring Using Volunteers: A Handbook for Coordinators* (1993), both by the Alliance for the Chesapeake Bay. The citizen manual includes basic guidance on measuring temperature, dissolved oxygen, nitrogen, and water clarity. The coordinators handbook offers general guidance on organizing a monitoring project.

Field Manual for Water Quality Monitoring: An Environmental Education Program for Schools (1991), by Mark Mitchell and William Stapp. This manual provides guidance on setting up a monitoring program in cooperation with schools. Includes explanations of how to conduct tests for a wide range of water quality indicators.

Volunteer Stream Monitoring: A Methods Manual (1995), available from the U.S. Environmental Protection Agency. This handbook offers guidance on volunteer monitoring efforts such as stream walks, macroinvertebrate surveys, and water quality testing.

The manual is currently available in draft form and will be field tested during 1995.

National Citizens Volunteer Water Quality Monitoring Conference Proceedings (multiple years), available from the U.S. Environmental Protection Agency. Includes a range of presentations by volunteers and professionals alike on the technical and organizational aspects of monitoring programs.

These are just a few of the many references on stream restoration and monitoring. To help find other references that may be helpful to you, TU has prepared a bibliography on stream habitat restoration (in cooperation with the U.S. Forest Service and the University of Utah). Consult it for a list of manuals and other literature about stream restoration in general, and for references on specific restoration techniques. Contact the TU national office for information on obtaining the bibliography.

Useful Web Sites

INFORMATION FOR PRIVATE LANDOWNERS ON THE ENDANGERED SPECIES ACT

USFWS Endangered Species information <http://endangered.fws.gov/wildlife.html>

USFWS Partners For Fish and Wildlife Program – Voluntary Habitat Restoration in Cooperation with Private Landowners <http://partners.fws.gov/>

How to find your regional PFW coordinator - www.partners.fws.gov/CONTACTS/altcont.html

Defenders of Wildlife – www.defenders.org

Environmental Defense Safe Harbor Handbook <http://www.environmentaldefense.org/programs/Ecosystems/SafeHarbor/handbook.html>

MACROINVERTEBRATE SAMPLING

Biological Indicators of Watershed Health: <http://www.epa.gov/ceisweb1/ceishome/atlas/bioindicators/biologicalindicators.html>
Northwest Biological Assessment Workgroup: <http://www.epa.gov/r10earth/offices/oea/aqbioass.html>

Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers: Periphyton, Benthic Macroinvertebrates, and Fish: <http://www.epa.gov/owow/monitoring/rbp/The Utah State University BugLab>: <http://www.usu.edu/~buglab>

Biological Monitoring of Freshwaters- Benthic Macroinvertebrates - Background, Diversity & Biotic Indices: <http://www.chebucto.ns.ca/Science/SWCS/ZOOBENTH/biotic.html>

WATER QUALITY INFORMATION

USGS Water Resources of the US – Water data and stream flow conditions <http://water.usgs.gov/>

EPA Watershed Protection Page -Additional information on monitoring, BMPs, and restoration <http://www.epa.gov/owow/watershed/>

OTHER SITES

NRCS homepage- office locators, cost-share programs, etc. www.nrcs.usda.gov/

Stream Corridor Restoration: Principles, Processes and Practices a 700-page guide to planning, designing and implementing stream restoration techniques co-authored by experts from 15 federal agencies. http://www.usda.gov/stream_restoration/

The Trout Unlimited Library – a variety of publications available from TU at www.tu.org/library/conservation.html

The Stream Steward Restoration Guide will be available in PDF format from the Tree Farm website – www.tree-farmsystem.org/conservation

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