

Ecological Forestry Tools and Links

The Ecological Forestry Resource Center provides web-based access to the tools foresters and affiliated professionals need to practice sound management and serves as a forum for the exchange of ideas and practices.

Certification · Climate Change & Carbon Sequestration · Conservation Easements · Digital Mapping · Ecological Classification · Economics & Prices · Forest Health & Invasives · Forest Type Descriptions · Glossaries · Habitat Types · Kids' Resources · Legislation · Management Plans · Soils · Silvics · Site Index & Growth · Wildlife & Biodiversity · Woody Biomass · Other Links · Links to More Links

Region-specific tools are catalogued in the Regional Guides. Management Plans

One of the goal of the Ecological Forestry Resource Center is to provide land managers with the tools to build management plans that sustain ecological, economic, and social systems. The structure of a management plan is driven by regulation and landowner needs, and the following links provide some guidance for important considerations:

- Conserving Biodiversity Through Sustainable Forestry - A new report from the National Commission on Science for Sustainable Forestry provides an overview of ecological forestry by region
- Fundamentals of Decision Making - The Guild's Tenets of Forestry
- Forest Management Plan Recommendations - Maine Forest Service (see p5)
- Principles and Criteria - Forest Stewardship Council (incl.guidance on forest plans p6)
- Guide to Selecting Biodiversity Indicators - Journal of Forestry (see p6) Example Management Plans:
- Aitkin County, Minnesota (Silvicultural Practices)
- Baraboo, Wisconsin
- Door County, Wisconsin
- Crummies Creek Tree Farm, West Virginia - Emphasis on non-timber forest productions
- Jakelands Farm, West Virginia - Response to gypsy moth
- Watershed stewardship plan, Oregon
- Model management Plan for Longleaf Pine Ecosystems, Georgia
- Grafton County Farm & Woodlands, New Hampshire Certification ^
- American Tree Farm System
- Forest Stewardship Council
- Sustainable Forestry Initiative Climate Change & Carbon Sequestration ^
- Tools for carbon inventory, management, and reporting - US Forest Service
- Forest Vegetation Simulator
- Carbon Calculation Tool
- Carbon OnLine Estimator
- Standards Tables (GTR-343)
- i-Tree
- Climate Change and Carbon - The Forest Guild
- Rural Climate Change Policy
- Carbon Trading: A Primer for Forest Landowners
- Forests' Role in Climate Change - Union of Concerned Scientists
- Model Forest Policy Program
 - Managing Forests in a Warming Climate - Forestry Source
 - Carbon Market May Offer Opportunities for Forest Landowners - Forestry Source
- The Cost of U.S. Forest-based Carbon Sequestration - Pew Center
- Hardiness Zone Map - (reflects warmer climate) Arbor Day Foundation
- Forests, Climate Change, and Carbon Reservoirs - Sierra Club of Canada
- Intergovernmental Plan on Climate Change
 - Mitigation of Climate Change
 - Impacts, Adaptation and Vulnerability
- Climate resources by state:
- Carbon Credits for Forestry in California - Pacific Forest Trust
- Colorado Climate Project (Forestry Section)

- Climate Change Costs for Oregon forests - Oregon State University
- Forests, Carbon, and Climate Change Conference - Oregon State University
- New Mexico Climate Change Advisory Group

- Conservation Easements ^

- The Forest Guild Policy Perspective on Working Forest Conservation Easements
- Red Lodge Clearinghouse
- Working Forest Conservation Easements - Maryland Cooperative Extension

Digital Mapping links from Michigan Tech ^

- Digital Mapping (GIS) Clearinghouses by State - Massachusetts Institute of Technology
- More GIS Clearinghouses by State - University of Waterloo
- Compass Declination - National Ocean Atmospheric Administration
- GPS Utility - Utility to interface GPS and computer
- Digital Grove - Free GIS/GPS software including inventory solutions (both desktop and PDA) and Arcview extensions
- X Tools - ArcView extension
- Arcview Utility Tools - Minnesota DNR Arcview tools for foresters that includes acreage calculator, intersection, buffering and more
- DNR Garmin Extension - Tool for exchanging data between Arcview and most Garmin GPS units Ecological Classification Systems / Habitat Typing / Natural Communities ^
- Maine Natural Areas Program
- New Hampshire Natural Heritage Bureau
- Vermont Guide to Natural Communities
- New York Ecological Community Information
- Massachusetts Classification of Natural Communities
- Rhode Island Natural Communities
- Pennsylvania Plant Communities
- Virginia Natural Communities
- West Virginia Ecological Communities
- Wisconsin Ecological Land Classification , Habitat Type System
- Minnesota Ecological Land Classification
- Florida Natural Communities
- California Wildlife Habitat Relationships
- Washington Ecological Communities
- British Columbia Biogeoclimatic Ecosystem Classification
- Forest Certification and Ecological Classification Systems - Dovetail Partners Inc
- Seeing the Forest and the Trees: Ecological Classification for Conservation - The Nature Conservancy Economics & Prices ^
- National Timber Tax
- Forest Landowner's guide to federal income tax - US Forest Service
- Economics of Ecological Forestry - Pioneer Forest
- Uneven Aged Pine Management
- Timber and Log Prices

Forest Health & Invasives ^

- Forest Insect and Disease Leaflets
- Invasive Species

- Alien Plant Invaders of Natural Areas - Plant Conservation Alliance
- Global Invasive Species Database
- Georgia Invasive Species Task Force

Forest Type Descriptions ^

- World Wildlife Fund's Ecoregions
- Ecological Subregions of the United States - US Forest Service
- Bailey's Ecoregions (province level)
- Land Use History of North America
- Forest Stewardship Council Regional Standards
- Nature Serve Explorer

National legislation and regulations ^Federal lands

- National Environmental Policy Act
- Healthy Forest Initiative
- Healthy Forest Restoration Act
 - HFRA field guide
- Endangered Species Act
- The Principal Laws Relating to USDA Forest Service State and Private Forestry Programs
- Red Lodge Clearinghouse

Forestry Glossaries ^

- Forestry Glossary - California Wood Products Commission
- Forestry Definitions - Timberline Forestry Consulting
- Glossary - British Columbia Ministry of Forests

Forestry Resources for Kids ^ Silvics ^

- Silvics of North America - US Forest Service
- Tree Fact Sheets - Virginia Tech
- Fire Effects Information System - US Forest Service Soils ^
- Soils - Natural Resource Conservation Service
 - Online copies of county soil surveys (PDFs)
 - Online digital soil maps
 - Soil Extent Mapping tool
- Forest Soils - Temperate Forest Foundation

Site Index Curves and Growth Estimators ^

- National Register of Site Index Curves
- Site Index Curves and Mean Annual Increment for west coast trees
- Site Index Curves for eastern trees
- Site Index Curves from VermontWildlife and Biodiversity ^
- Focus Species Forestry - Maine Audubon
- Endangered Species Program - US Fish and Wildlife
 - Threatened and Endangered Species by State
- Forest and Rangeland Birds of the United States
- Science and Myths of Logging to Control Insects - Xerces Society

Other Links and Tools ^

- Forestry Images - University of Georgia provides a clearinghouse for thousands of silvicultural, forest health, and fire images
- A Reference Handbook for Foresters - US Forest Service designed for Northeast, useful for many regions
- Convert - Free computer program for converting feet to meters, acres to hectares etc
- TreeSearch - Searchable database of US Forest Service publications going back to 1900
- National Learning Center for Private Forest and Range Landowners - A US Forest Service website designed for education Links to more Links ^
- Conservation Forestry Network - Open Space Institute
- Forest Network Links
- Forest Land Owner Guide to Internet Resources - US Forest Service
- Southern New England Forestry Links - Yale School Forests