
“4-H Forestry and Natural Resources Loan Library”

<http://extension.oregonstate.edu/douglas/forestry>

July, 2010

OSU Extension Service of Douglas County

*All Items may be checked out for 14 days.
A few items have restrictions and can not be
checked out during April or May.
(These resources are located in Teresa's office
unless noted otherwise.)*

Books

Be Expert with Map and Compass- The Complete Orienteering Handbook- This book is a complete and detailed step-by-step instructional book to train the inexperienced compass user. Contains projects and exercises to sharpen your skills in direction finding.

Trees to Know in Oregon – Contains descriptions and a key of conifers and broadleaves to assist in identifying trees. (2 copies) (Can also be purchased for \$12.00 at our office)

Lewis and Clark Meets Oregon's Forest : Lessons from Dynamic Nature- OFRI commissioned this book, by authors Gail Wells and Dawn Anzinger, to tell the story of disturbance and change in Oregon's forests using the Lewis and Clark Expedition of 200 years ago as a backdrop. The 223-page book describes "dynamic nature" and its importance to the past and future of our forests. An excellent and engaging resource for anyone interested in the historic and future role of forests in the Northwest, the book includes more than one hundred photographs and maps many in full color.

Manual of Oregon Trees and Shrubs- Contains descriptions and a key of Oregon's trees and shrubs to assist with identification. (2 copies)

Oregon's Forest Protection Laws: An Illustrated Manual- This easy-to-follow 160-page illustrated manual is designed to help forest landowners, operators and foresters who manage forestlands under the rules

of the Oregon Forest Practices Act. It describes the rules and rationale behind them, and illustrates how forest operations can be managed in compliance with them.

Identifying Priority Plants & Animals and Their Habitats- A Guide Book for forest Landowners

This guidebook will assist landowners and managers in making informed decisions and help optimize the time and resources invested in species and habitat conservation. This book contains colorful pictures and information on species such as status, range, description, diet, habitat, principal threats and predators and reproduction. This is a publication from OFRI. To order this free publication contact OFRI at www.oregonforests.org.

Forest Fact Book- This forest Fact Book provides an overview of one of Oregon's most important and most beautiful natural resources. This handbook answers the most commonly asked questions about the state's forests. This publication is from OFRI.

Geology Crafts for Kids- 50 Nifty Projects to Explore the Marvels of Planet Earth- Have fun searching for all kinds of treasures right beneath your feet as you learn about different kinds of rocks and minerals, volcanoes and earthquakes. Fun and educational activities are included in this book.

Project Earth Science: Geology By Brent A. Ford
Published by the National Science Teachers Association. This book immerses your students in Earth's geological processes and cycles. Fifteen ready to use classroom activities combined with straightforward explanations of concepts with hands-on, teacher-tested activities that use readily available materials.

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Ranger Rick’s Nature Scope: Geology The Active Earth by National Wildlife Federation. This book is designed to provide activities, background materials and teaching objectives for lessons. This book takes a look at rocks, minerals and fossils. Grade levels range from K-7th.

Trees, A Golden Guide- A color guide describes and illustrates more than 140 most common trees. Small pocket size and easy to use.

Nature Scope: Trees are Terrific by National Wildlife Federation. This volume has lessons to teach children the basics of tree ecology and biology. Encourages kids to take notice of trees and how clean and comfortable they help make our lives, making oxygen, cutting pollution, preventing erosion and providing food and shelter for us and many other creatures. Grade level K to 8th (2 copies)

A Guide to Oregon’s Forest Wildlife- This booklet describes some of the wildlife associated with stands of different age classes. Forest succession creates varied wildlife habitat. This is a publication from OFRI. To order this free publication contact OFRI at www.oregonforests.org.

Whose Tracks are These? A Clue Book of Familiar Forest Animals, by Jim Nail. A fresh, serendipitous look at a woodland community for new trackers, Ages 4-8. Perfect resource for generating a child’s first image of hiking through the forest looking for animal clues.

Look What I Did with a Leaf! by Morteza E. Sohi, 1993. This book will show young art and craft lovers how to use nature’s bounty to create fanciful animals and natural scenes. Readers will develop their artistic eye and soon learn to see the artistic possibilities that surround them. The author gives careful directions on how to choose leaves for shape and color, how to arrange them in an animal form, and how to preserve the finished work of art. A field guide helps young leaf artists learn more about the tools of their craft.

Reference Books

*(available to use at the Extension office)
(Forest Instructor’s Office)*

Field Guide to North American Truffles: hunting, identifying, and enjoying the world’s most prized fungi. Matt Trappe, Frank Evans, and James Trappe. 2007. Ten Speed Press, Berkeley, CA.

National Audubon Society Field Guide to Mushrooms. Gary H. Lincoff. 2008 edition. Alfred A. Knopf, Inc., New York, NY.

National Audubon Society Field Guide to Trees, Western Region. Elbert L. Little. 2007 edition. Alfred A. Knopf, Inc., New York, NY.

Insects of the Pacific Northwest. Peter Haggard & Judy Haggard. 2006. Timber Press, Inc., Portland, OR.

Plants of the Pacific Northwest Coast: Washington, Oregon, British Columbia, and Alaska. Compiled and edited by Jim Pojar and Andy Mackinnon. 2004 edition. Lone Pine Publishing, Vancouver, British Columbia

Weeds of the West- A great resource to identify and learn about weeds. Great color photos.

Videos

The Shaping of Oregon’s Forests-

Length: 5:40

VHS Oregon Forest Resources Institute- A brief overview of Oregon’s Forests, forest protection laws and managing forests for all its uses such as wildlife and harvesting timber.

Oregon’s Generous Forests- DVD and VHS

Length: 42 Minutes

Audience: Grades 5-12

OFRI and the OSU College of Forestry have produced a new forestry education video, *Oregon’s Generous Forests*. The video explores the

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management of forests for wildlife, clean water and wood production. It explains how Oregon’s forests can provide both the environmental values we expect and the forest products we use every day. The video is in three modules that can be shown together or independently.

Inquiry at Hinkle Creek-DVD

Length: 16 minutes

Audience: Students in grades 5-12

Traces a unique story of science at work on our forests. Researchers are using a huge 5,00- acre outdoor laboratory- a pair of watersheds in Southern Oregon- to evaluate the potential effects of logging on water quality and fish and wildlife habitat. Along the way, the story follows the scientific inquiry process of: Choosing questions to answer, identifying meaningful variables, designing an experiment, collecting data and displaying and analyzing data.

Kits

Plant Identification Learning Laboratory Kit

(Front Office w/other kits)

The purpose of the kit is to introduce students to the basic concepts and terminology used in the identification of deciduous trees and shrubs. Rather than focus on memorizing specific traits of individual plant species, a holistic approach is used, teaching students to observe and appreciate plants in their totality.

Kit Contents

- Educators' Manual - Lesson Plans: Plant Identification Characteristics for Deciduous Trees and Shrubs. This resource includes lesson plans, diagrams, quizzes, crossword puzzles and suggested indoor and outdoor activities.
- Plant trunk habit, shape, size and texture.
- Types of bark, flowers and fruits.
- Stem features
- Leaf and bud arrangements/Bud scales

Fish Prints Kit- A set of rubber fish to do printing. Discussion materials on “Gyotaku”- Japanese word for fish printing. The fish included in the kit are the

following: Northern Pike, Trout, Large Mouth Bass, Perch, Blue Gill, Carp and Walleye.

Animal Track Plaster Molds Kit- The kit includes the front and hind paw track molds of the following animals. A deer, coyote, grey fox, woodchuck, opossum, grey squirrel and mink. A Track field guide is included.

Animal Track Kit- This kit includes rubber tracks of the following list of animals. Adult black bear, black bear, yearling black bear, timber wolf, bobcat, wolverine, weasel, sea otter, fisher, coyote, badger, and a otter.

(The following kits are in John’s Office)

Skull and Pelt kits -Pelts included are: cougar (kit 1), bear (kit 2), coyote, fox, deer, rabbit, skunk, beaver, raccoon and squirrel. Skulls included: Hawk, duck, turkey, rabbit, skunk, porcupine, turtle, deer, bobcat, grey fox and coyote.

Forest Product kit—

Solid wood (structural), Silent Floor Joist - example of composite and laminate product, Plywood, Veneer ,Particle board, Port-Orford-cedar ,Western juniper interior paneling, Finished piece of oak, Tree cookie, Bag of hog fuel ,Bag of chips, Bag of sawdust, Bag of bark, Bag of charcoal, Paper, Maple syrup, Camera film (a cellulose-based plastic), Bar of soap (contains fats and scents from pulping liquor), Cork, Imitation vanilla (an extract from pulping liquor), Cinnamon, Cloves, Nutmeg, Bay Leaves, Mento-lyptus cough drops, Gum (latex base), Chocolate, Latex, Toothpaste (with cellulose gum), Wood Rosen (for violin bows, essentially pine pitch), Pine-Sol (contains turpentine from pine extracts), Squirt soda (contains glycerol ester of wood rosin, from pine extracts) and Aspirin (with salicylic acid, originally derived from bark of willow trees).

Reference Pub: What’s a Tree Done for You Lately (describes how these products are made and where they originate)

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Tree Id Lessons Kit- This kit contains 4- one hour lessons on the following topics: What trees need to Grow, Tree Identification, Products that Come from Trees. Also contained is the tools to teach the lessons. Tools such as interactive games, forest product bingo cards, leaf id. cards and leaf rubbing plates. The activities are geared for 3-5th grade.

Animal Tracking/Habitat lesson Kit- This kit contains lessons and tools to teach youth in grades 3-5 about animal habitats and how to identify animal tracks. The kit contains rubbing plates, interactive games and animal track id. cards.

These kits are located upstairs on the third level.

Tree cookie kit

Tree Id kit- Samples of cones and seeds.

Miscellaneous Tools

These tools are in John's Office

- Plant press
- Clinometer- an instrument for measuring angles of elevation or inclination. (3 available)
- Woodland Stick- simple, moderately accurate tool for measuring tree height and diameter.
- Cruiser Vest – holds tools, what foresters wear when they work in the woods.
- Compasses- 10 azimuth mirror compasses for taking bearings and direction finding. The compass capsule contains a clinometer for measuring the angle of inclination and heights.

Located on shelf in Teresa's office

- Poison oak identification field cards- Laminated field card that shows poison oak at each stage during the year. Great for hikes!
- Stereoscope-An optical instrument with two eyepieces used to impart a three-dimensional effect to two photographs of the same scene taken at slightly different angles.

Tracy's office

- GPS units- These may be checked out after a brief training from the 4-H Agent.

Posters

This is a set of 10 posters that you can get on-line free at www.internationalpaper.com

Front Office- by plant kit

- Go to IP Life of the Forest
- Pine Tree Cookie- Showing bug attack, fire and drought
- Do You Recognize These Leaves and Needles?
- How a tree Eats, Drinks and Breathes.
- Seed Cones Come in Every Shape and Size You Can Imagine!
- The Bounce Back Forest
- A Well Managed Forest Keeps Giving and Giving
- Special Places, Special Care
- Ever Hear of Waste Not Want Not
- You Can Tell a Tree by its Bark

All the following posters- John's Office

(Some of these posters can be accessed on the Douglas Co. OSU webpage- viewed and printed-links are listed below)

- Giving our Endangered Forests of Oregon: Which Forests do you Live in?
- Northwest Native Conifers
- Northwest Native Broadleaves Species a Second Chance
- Northwest Old Growth Forest
- Northwest Woodland Wildflowers

Tree Identification set of Posters

<http://extension.oregonstate.edu/douglas/sites/default/files/documents/forestry/SFT/TreeIDKit1.pdf>

- Anatomy of a leaf
 - Vocabulary
 - Anatomy of a hardwood
 - Anatomy of a conifer
 - Broadleaf key
 - Conifer key
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Fish set of posters

<http://extension.oregonstate.edu/douglas/sites/default/files/documents/forestry/SFT/FisheriesKit2.pdf>

- (2) Fish food chain
- (2) Salmon lifecycle
- Western Oregon salmon and trout
- Western Oregon fish
- Western Oregon non-native fish
- Salmon survival chart

Forest Management set of posters

- Successional stages
- Even aged management
- Disturbance mechanisms
- Stand establishment stages
- Tree planting diagram
- Uneven aged management
- Stem anatomy

Wildlife set of posters

- Food chain
- Successional stages

Additional Resources

Trees: Knowledge Cards

This is a set of 48 cards with color illustrations of native North American trees. Each card includes details of its leaves, flowers and fruit. The back of the card notes the species common and scientific names, characteristics, habitat, distribution and points of interest.

Animal Kingdom Flipchart

This chart contains 10 colorful pages on Animal classification, birds, fish, reptiles, mammals, vertebrates, invertebrates, insects, the butterfly life cycle and the frog lifecycle.

Insects and Spiders Card Game

Wildlife of North America Card Game

Both are educational games that combine interesting trivia, multiple choice questions and true or false questions. These games encourages kids to learn about their favorite subjects. This game has easy or hard levels to keep the kids interested and challenges

while they have fun.

Ages 7 and up

2-8 players

Clue Boxes-

These are boxes that contain a written and a visual clue of an animal in each box. There are 11 boxes that will give the kids a clue to guess the name of an animal. Several of the clues are plaster casts of animal tracks. The activity is for grades 3-5th.

Curriculums

Project WET - A curriculum and activity guide for grades Kindergarten through 12th grade. It is a collection of innovative, water related activities that are hands-on, easy to use and fun.

Energy and Society by Project Learning Tree (2002)- a program to help student learn about their relationship with energy and investigate the environmental issues related to energy's role in society. Curriculum has hands on activities, music and dance to enhance the study of energy issues. For grades Pre-K to 8th Contents- Activity guide, Video, CD and Posters

Project Learning Tree; Environmental Education Activity Guide- This curriculum is easy to use and contains hands-on activities for Pre-K to 8th grade. The content ranges in all areas of natural resources.

Investigating Your Environment by the Forest Service.- It is a supplemental interdisciplinary curriculum that may be used for grades 6-12.

Earth Connections by Florida 4H Program- This is a curriculum that is designed for 5-8 year olds to understand the environmental and stewardship issues associated with soil, air, and water conservation and quality. (2 copies)

4-H Wetland Wonders, A Water Quality Curriculum for Grades 4 and 5. Leader Guide, 1998. A curriculum filled with lessons to teach the concepts of water quality and the water cycle. (3 copies)

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Of People and Fish, Oregon 4-H Natural Science and Cultural Discovery Program. 2003. This is a curriculum designed as a school enrichment program for 4-8th grade. The goals of this program are for youth and adults to understand the complex culture and scientific history that has led to the “salmon crisis” and to become active to search for solutions within their communities. Lessons cover salmon life cycles, history of people and fish, fishing tools and techniques. (2 copies)

What Can We Learn at the Pond? 4-H Wildlife Stewards Master Science Leader Guide. 2004. For grades K-8 Lessons and activities to use with students in informal learning environments, such as ponds to learn practical skills used in science inquiry. This kind of learning is called experiential learning.

Project Learning Tree. Environmental Education Activity Guide. 2004 This curriculum has hands-on activities and opportunities to investigate environmental issues for grades Pre-K to 8th . The activities encourage kids to make informed responsible decisions. (2 copies)

Oregon 4-H Wildlife Stewards Project Handbook- This is a program to establish and sustain a habitat education site on school grounds. The Curriculum is for grades K-6.

Project WILD- This is an easy to use curriculum for grades K-12 on wildlife and the environment. 2002