



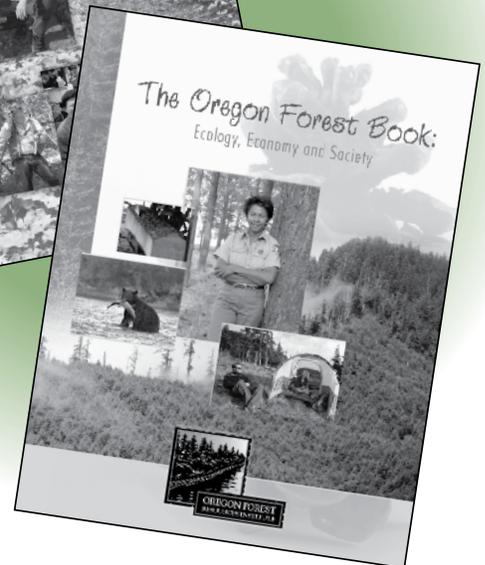
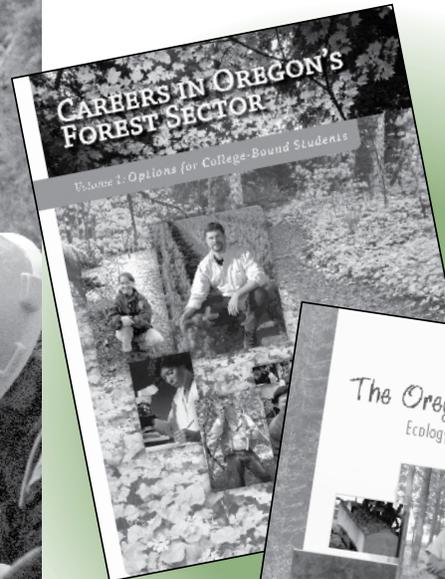
OREGON FOREST
RESOURCES INSTITUTE

Rediscover Oregon's Forests

A Teacher's Guide to K-12

Forest Education Opportunities

A Guide to Forestry Education Programs and
Materials Available to You and Your Students



The Oregon Forest Resources Institute (OFRI) helps connect the classroom to the forest by supporting a wide range of forest education materials and programs and by making available transportation reimbursement for teachers who take advantage of these forest education opportunities for their classes.

The Oregon Legislature created OFRI in 1991 to improve understanding of forests, forest products and forest management and to encourage sound forestry through landowner training. To ensure the objectivity and accuracy of the information used in its educational efforts, OFRI works with the scientific, academic and educational communities. This includes working closely with the Oregon State University College of Forestry and the Oregon Department of Forestry.

This guide attempts to bring together in one publication many of the diverse forestry education programs offered throughout Oregon by OFRI and others. OFRI supports many of these programs directly with OFRI funds and indirectly by offering transportation reimbursement.

Statewide Programs for Teachers

Oregon Natural Resources Education Program (ONREP)

Contact: Susan Sahnaw – (541) 737-3005
LeeAnn Mikkelson – (541) 737-9121
ofep@oregonstate.edu
www.cof.orst.edu/cof/extended/ofep/

Programs: Educator workshops
Grade Level: K-16
Available: Year round
Cost: Free (substitute reimbursement available)

The Oregon Natural Resources Education Program (ONREP) at Oregon State University exposes educators to Oregon's forests, wildlife and water through professional development workshops. The award-winning international environmental education curricula, Project Learning Tree and Project Wild, help teachers engage students in learning by providing thought-provoking, field-tested classroom activities that develop critical-thinking skills. Topics include forest ecology, forest history, forest wildlife and watersheds. Some courses are offered for university credit, and participants receive professional development units. Advanced topic and multi-day workshops and summer institutes provide more in-depth exploration of topics and provide tools and strategies for integrated learning.

Oregon Teachers on Summer Assignment (ORTOSA)

Contact: Norie Dimeo-Ediger – (971) 673-2956
dimeo-ediger@ofri.com
www.oregonforests.org

Programs: Teacher training (field work experience)
Grade Level: K-12
Available: Summer
Cost: Participating teachers are paid; college credit available

In this “learn-as-you-work” program, you will spend six weeks of your summer vacation working with company or agency mentors on paid forest management and environmental monitoring assignments. You will get a first-hand look at how science, math and other subjects are applied by forestry professionals in the workplace. Applications are available each March.

Temperate Forest Foundation

Contact: Lisa Leonard – (503) 445-9472
lleonard@forestinfo.org
www.forestinfo.org

Programs: Teacher forestry tours
Grade Level: K-12
Available: Summer
Cost: Free when sponsors are available

Public and private forest landowners and forest products producers show how sustainable forestry is practiced on various regional landscapes. Tours start Tuesday afternoons and end Friday mornings. They include an overview of the area and visits to forest and mill operations as well as cultural and educational stops. Teachers end up with information and concepts they can use in their classroom. Lasting business-education partnerships often develop between the teachers and the local businesses that sponsor them.

Statewide Programs for Students

Careers in Forestry

Contact: Julie Woodward – (503) 584-7259
forestcareers@yahoo.com
www.oregonforests.org

Programs: In-class or career fairs
Grade Level: 9-12
Available: Year round by appointment
Cost: Free

Are your students aware of the many diverse careers in Oregon's forest sector? The *Careers in Forestry* program will broaden students' understanding of the importance of Oregon's forest sector and expose them to opportunities available in Oregon's skilled forest sector workforce. An educator visits your classroom and provides this interactive presentation. The presentations and materials can assist students in meeting the Oregon Department

of Education's career-related learning standards (CRLS). The program is sponsored by the Oregon Forest Resources Institute and provides students and teachers with free resource materials.



4-H Latino Summer Camp

Contact: Mario Magaña, Camp director, Oregon State University Extension – (541) 737-0925
 Mario.Magana@oregonstate.edu
<http://oregon.4h.oregonstate.edu/programs/events/latinoCamp/latinoCamp.htm>

Programs: Residential summer camp

Grade Level: 3-12

Available: Summer

Cost: Call for information

4-H Latino Summer Camp exposes youth to different environments and new information, while providing them opportunities to learn about postsecondary education, explore careers and engage in fun and challenging educational activities. Importantly, the camp allows youth to interact with Latino university students and professionals.

Oregon Envirothon

Contact: Ron Crouse – (503) 399-5741, Ext. 121
 ron.crouse@or.nacdn.net
<http://marionswcd.net>

Programs: One-day science competition, field trip, teacher training

Grade Level: High school

Available: Year round (competition in May)

Cost: Free

Teams of three to five students participate in this hands-on environmental problem-solving competition. Teams complete training and testing in five categories – aquatic ecology, soils, land use, forestry and wildlife – and one environmental issue. Winning teams advance to the national Envirothon and compete for recognition, scholarships and prizes. A teacher in-service workshop and student field trips are available to prepare teams for the competition.



Talk About Trees

Contact: Joan Mason Ruud – (503) 238-7250
 talkabouttrees@att.net
www.orwit.org/tat.html

Programs: In-class

Grade Level: Pre-K-8

Available: Year round

Cost: Free

In the Talk About Trees program, a facilitator visits your classroom and uses forest artifacts, displays and hands-on activities to make interactive presentations about forestry and Oregon's forests. Teacher guides and student handouts are available online to prepare for the visit and to extend learning. Follow-up papermaking and outdoor programs are available. This is a good way to launch a unit on forests or to prepare for a field trip.



Wood Magic Traveling Show

Contact: Leslie McDaniel – (541) 737-3159
 leslie.mcdaniel@oregonstate.edu
<http://woodscience.oregonstate.edu/woodmagic>

Programs: In-class

Grade level: 3-4

Available: Year-round

Cost: Free

Wood Magic is a fun and lively interactive program designed for elementary school students to learn about the wonders of wood as a material basic to human well-being. A one-hour traveling version of Wood Magic is offered statewide throughout the school year and is particularly aimed at classrooms unable to travel to Corvallis or Portland. Teachers receive lesson plans related to wood uses and wood properties. Wood Magic is presented by Oregon State University College of Wood Science and Engineering and is sponsored by Oregon Forest Resources Institute.

Field Programs for Students

Douglas County Museum of Natural & Cultural History – Roseburg

Contact: Adrienne Trunk – (541) 957-7007
atrunk@co.douglas.or.us
www.douglasmuseum.com

Programs: Field trip, traveling trunk, teacher training, junior docent program

Grade Level: K-12

Available: Year round

Cost: Free to \$4 (depending on program)

The Douglas County Museum provides a place of discovery and wonder featuring exhibits and programs directed towards active, hands-on learning for all ages. Located in the heart of their natural history gallery, *Junior Naturalists* allows children to discover a 19th century explorer's field camp and study filled with natural specimens, children's books and live native animals – snakes, lizards and turtles. An adjacent exhibit hall focusing on the history of logging describes how humans have used Oregon's forest resources over the past two centuries. The Douglas County Museum strives to help children understand their relationship with Oregon's rich forests.

Forests Today and Forever – Lane County

Contact: LaRae Ash – (541) 998-6438
coordinator@foreststodayandforever.org
www.foreststodayandforever.org

Programs: Tours, field activities

Grade Level: 6-12

Available: Fall, spring

Cost: Free

This cross-curricular package includes both classroom and spring or fall field activities. It is designed to stimulate critical thinking and creative problem solving through role-playing by helping students make observations about wildlife, soil and water, recreation and timber resources in the forest and then use the information to cooperatively develop their own forest management plans.



Hopkins Demonstration Forest – Oregon City

Contact: Tim DeLano – (503) 632-2150
Tim.delano@oregonstate.edu
www.demonstrationforest.org

Programs: Ecological field studies, tours, service learning; other experiences can be customized by arrangement

Grade Level: 3-12

Available: Year round by appointment

Cost: Donations appreciated

In this 140-acre "family forest" dedicated to education and research, students examine how forests grow and change under different management strategies. Ongoing demonstrations include wildlife habitat enhancements, selective harvesting, intensive plantation forestry, riparian management and tree-growth research projects. Schools are invited for tours, field studies, service learning and other experiences customized according to your interests and curriculum needs.

Klamath Outdoor Science School – Klamath County

Contact: Brent Frazier – (541) 850-8218
Marjorie Glass – mglass2550@q.com

Programs: Residential and day camp

Grade Level: 4-11, primarily 6

Available: Fall, spring, summer

Cost: Call for rates; limited grant availability

Klamath Outdoor Science School (KOSS) provides youth with a unique experience in a natural setting that inspires learning through exploration and instills an appreciation for the resources of the Upper Klamath Basin. KOSS is a non-profit organization located about 45 miles north of Klamath Falls in the Sun Pass State Forest, which is managed by the Oregon Department of Forestry. While at KOSS, students learn forest science and an appreciation for a forest that is well-managed for multiple uses. Curriculum can be provided to educators before and after their stay at KOSS to further enhance learning.

Larch Mountain Environmental Education – Corbett

Contact: Mark A. Marshall – (503) 362-3696

Programs: Field trip

Grade Level: K-12

Available: Year round

Cost: Free

This forest site, managed by the U.S. Bureau of Land Management, contains old-growth Douglas fir and western hemlock along with younger planted trees. There is a

trailhead with limited parking, restroom facilities, designated trails and two open-air, 24-foot shelters with picnic tables. This site is in a primitive, natural setting and can be used for habitat, stream, soils and forest ecology activities. With sufficient notice and staff availability, assistance may be available for planning and developing science-based field trips or you can plan your own activities.

Port Blakely Tree Farms – Molalla

Contact: Bonny Glendenning – (503) 720-9794
 bglendenning@portblakely.com
 www.portblakely.com (link to Environmental Education Web site with teacher information)

Programs: Field trip, in-class presentation

Grade Level: 3-6

Available: School year

Cost: Free

Port Blakely offers an interactive forestry experience in which students identify trees, observe signs of wildlife, investigate tree growth and hunt for insects as they traverse an ADA-accessible trail. The trail features a variety of forest types, including a plantation, riparian area and mature forest.

Rediscovery Forest Education Program – Silverton

Contact: Julie Woodward – (503) 584-7259
 woodward@ofri.com
 www.oregonforests.org

Programs: Field trip, educator workshops, service learning, special events

Grade Level: K-12

Available: Year round

Cost: Free



The Rediscovery Forest, a collaboration between the Oregon Garden and the Oregon Forest Resources Institute, is a dynamic demonstration forest located in the park-like environment of the Oregon Garden. This 15-acre educational forest helps students and other visitors discover why Oregon's managed forests are essential to sustaining our quality of life. Students participate in programs focused on forest ecology, forest management, wildlife habitat, science inquiry, careers in forestry, sustainability and much more. Call or visit our Web site for information on a variety of interactive, grade-appropriate science-based programs. OFRI also offers several special educational events and educator workshops throughout the year. Check the Web site for current information.

Santiam State Forest – Lyons

Contact: Jon Mayer – (503) 859-4344
 jmayer@odf.state.or.us

Programs: Field trip, in class, school-to-work, service learning, self guided trips

Grade Level: K-12

Available: Year round

Cost: Free

Santiam State Forest, managed by the Oregon Department of Forestry, is located about 30 miles east of Salem and covers over 47,000 acres of prime forest land ranging in elevation from 1,000 to 5,000 feet. The forest is carefully managed to provide a range of benefits from wood products to wildlife habitat to recreation opportunities. Department of Forestry staff teaches fun, hands-on programs in both the field and classroom. Programs may be single session or spread out over several weeks. Students will discover the importance of Oregon's forests while they explore ecosystems, wildlife, forest management, careers in forestry and recreation opportunities. Special emphasis is placed on active learning and increasing students' connection with forest resources. All programs are correlated to state education requirements.

Science in the Forest – Oregon City, Sisters

Contact: Portland – (503) 239-1820, Central Oregon – (541) 549-1459
 wolftree@beoutside.com
 www.beoutside.org

Programs: Two-day field experience, classroom sessions, service learning

Grade Level: 6-12

Available: Year round

Cost: Free

Science in the Forest is a comprehensive science inquiry education project offered by Wolftree, a non-profit corporation whose mission is to serve people and their communities through innovative science education, ecosystem restoration, and ecological research. The program, co-sponsored by the Oregon Forest Resources Institute, enlivens science curricula with cutting-edge classroom and field-based activities that examine forest ecology and management. It encourages students to be actively engaged in the science inquiry process and to use their creative and critical-thinking skills. It also cultivates their interest and skills in science and math by demonstrating how these disciplines apply to forest management. The program utilizes numerous outdoor classrooms.

Starker Forests – Corvallis

Contact: Dick Powell – (541) 929-2477
dick@starkerforests.com
www.starkerforests.com

Programs: Field trip

Grade Level: K-12

Available: Year round

Cost: Free by appointment

A family-owned business, Starker Forests, Inc., started in 1936 with purchases of abandoned farmland and cut-over and second-growth forests. The company encourages forestry education and offers curricula for use in the classroom. The Starker Forestry Trail is available for half-day and all-day field trips. A forester will lead school groups on these trail tours. The Starker family encourages recreational use of their lands and offers tours by appointment. The trail also is open all year for self-guided tours. A brochure giving directions to the trail is available at the Starker office and describes stops along the trail.

Tillamook Forest Center – Tillamook County

Contact: Oregon Department of Forestry
Register online or call – (503) 815-6800
tfcinfo@odf.state.or.us
www.tillamookforestcenter.org

Programs: Field trip, school-to-work, teacher workshops, kits, self-guided trips, service learning, scouting programs for boys and girls

Grade Level: K-12

Available: Year round

Cost: Free

The Tillamook Forest Center, located in the heart of the Tillamook State Forest on Highway 6, about one hour from Portland, offers year-round educational and interpretive programs, nature exhibits and field tours. It's fun, fully accessible and free. Field programs examine the natural and cultural history and the stewardship of the Tillamook State Forest. High school students can explore career options in forestry, including school-to-work experiences with Department of Forestry staff. Kits for grades K-4 emphasize the importance of trees, their role in a community and the historical impacts of landmark trees. All programs include pre- and post-activity suggestions and are correlated to state education requirements.

Tryon Creek State Park – Portland

Contact: Linda Koser – (503) 636-4398
linda@tryonfriends.org
www.tryonfriends.org

Programs: Field trip, traveling program, teacher training

Grade Level: K-12

Available: Year round

Cost: Variable from \$4.50/student for field trips and \$75/class for traveling programs

Friends of Tryon Creek State Park offers educational opportunities at Tryon Creek State Natural Area, a forest in the city in SW Portland. A variety of educational programs investigating different elements of forest ecology are available. The Friends offer morning only and full-day field trips, teacher workshops and hikes at the park. They also bring traveling programs to metro area schools. Field trips consist of indoor, hands-on lessons and longer, trail-based hikes in the forest. Traveling programs use interactive activities to explore forest ecology topics in the classroom. Participants must preregister for both field trips and traveling programs.

Wood Magic – Corvallis, Portland

Contact: Jeff Morrell – (541) 737-4222
<http://woodscience.oregonstate.edu/woodmagic>

Programs: Field trip

Grade level: 3-4

Available: Fall, spring

Cost: Free

Wood Magic is a fun and lively interactive program designed for elementary school students to learn about the wonders of wood as a material basic to human well-being. The three-hour experience moves students and their teachers through a series of nine stations that examine various wood and wood products technologies. You will receive a series of lesson plans related to these stations for use in your classroom. A free pizza lunch is included. Wood Magic is presented by Oregon State University College of Wood Science and Engineering and is co-sponsored by the Oregon Forest Resources Institute.



World Forestry Center – Portland, Wilsonville, Silverton

Contact: Rick Zenn – (503) 488-2103
rzenn@worldforestry.org
www.worldforestry.org

Programs: Field trip, special tours, teacher workshops, tree planting, service learning

Grade Level: Pre-K-12

Available: Year round

Cost: Check Web site for current rates, group discounts, special events



Discovery Museum – Portland

Contact: Make reservations online or call (503) 488-2147

The museum is located in Washington Park across from the Oregon Zoo. Two floors of highly interactive hands-on exhibits focus on the ecological, social and economic benefits of sustainable forestry in the Pacific Northwest and around the world. Students can crawl through a nurse log, be a forest scientist or a smoke jumper, take a whitewater raft trip, drive a giant harvest machine and enjoy an amazing tour of the world's diverse forests by rail car, riverboat, safari jeep and canopy crane. Allow two hours. A lunchroom is available for groups. A teacher's guide is available upon request.

Magness Memorial Tree Farm – Wilsonville

Contact: Make reservations online or call (503) 488-2147

This beautiful 80-acre Pacific Northwest demonstration forest and outdoor education site features 2.5 miles of trails, meadow, stream, picnic shelter, interpretive signs, an education center with restrooms and kitchen, and a rustic log bunkhouses for overnights. Guided tours and classes are available. Groups of 10 or more must register in advance.

Johnson-Swanson Memorial Farm – Silverton

Contact: Bill Wood – (503) 625-7471

This 80-acre historic farm features old-growth trees and new forest plantations and is an excellent site for service learning projects. Reservations required.

Wolfree Watershed Science Education Projects – Welches, Sisters

Contact: Portland – (503) 239-1820, Central Oregon – (541) 549-1459

wolfree@beoutside.org
www.beoutside.org

Programs: Field trips, classroom sessions, service learning, teacher and mentor training

Grade Level: 5-12

Available: Year round

Cost: Call for information

Wolfree's award-winning watershed science programs are inquiry driven and hands-on, and are designed to accommodate the full range of learning abilities and cultures. Guided by professional biologists and equipped with contemporary science techniques and equipment, Wolfree students study the streams and forests of the Pacific Northwest. These projects utilize numerous outdoor classrooms, including the nationally acclaimed Cascade Streamwatch facility near the base of Mt. Hood. Wolfree is a non-profit corporation whose mission is to serve people and their communities through innovative science education, ecosystem restoration and ecological research.

Materials for Teachers and Students

Books, Guides, DVDs and Posters

Contact: www.oregonforests.org
info@ofri.com

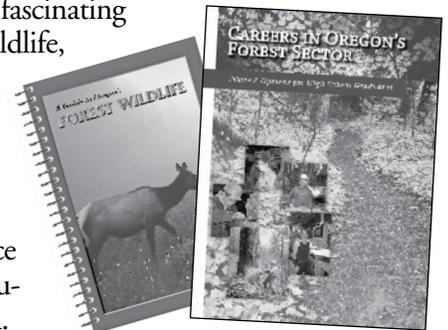
Programs: In-class resource

Grade Level: All

Available: Year round

Cost: Most are free

A broad array of K-12 publications supplement OFRI's forest education programs, offering teachers handy references and detailed guides to help students better understand Oregon's forests. Through full-color illustrations and age-appropriate text, OFRI's educational materials reveal both basic and fascinating facts about forests, wildlife, plants, habitats and scientific research. Teachers can use these publications, designed for different age groups, to enhance courses involving natural resources curricula.



Exploration of Oregon Forests: High School Modules

Contact: Julie Woodward – (503) 584-7259
woodward@ofri.com
www.oregonforests.org

Programs: In-class resource

Grade Level: 9-12

Available: Year round

Cost: Free

Are you currently teaching a forestry class or want to in the future? The Oregon Forest Resources Institute has materials and information to provide a foundation for high school forestry classes. Modules focus on both the science and issues associated with Oregon forests. The modules are aimed at high school students and include vocabulary, interesting facts, graphs and pictures, and inquiry questions. Each module is accompanied by a teacher's resource guide. Please visit the Web site for availability and current topics.

The Northwest Center for Sustainable Resources (www.ncsr.org) also provides useful material and resources for secondary natural resource programs.

Saving Eden Creek: A Play About People and Forests

Contact: Viviane Simon-Brown – (541) 737-3197
viviane.simon-brown@oregonstate.edu
<http://www.cof.orst.edu/cof/extended/sustain/>

Programs: One-act play script and discussion guide

Grade Level: 9-12, can be adapted for younger students

Available: Year round

Cost: Free

Natural resources debates tend to be highly confrontational and controversial. OSU Forestry Extension has created "Saving Eden Creek: a Play about People and Forests" to allow audiences to view – through the safe environment of storytelling – fictional characters with a variety of conservation ethics. Loggers, environmental activists, real estate developers, homeowners and even a rare species of squirrel are respectfully represented. After the play, audience members are invited to join in a conversation about the differing perspectives they have just witnessed. The script and guide can be downloaded for free at <http://extension.oregonstate.edu/catalog/html/em/em8858-e/>.

Programs by Area

Statewide	4-H Latino Summer Camp Careers in Forestry Oregon Envirothon Oregon Natural Resources Education Program (ONREP) Oregon Teachers on Summer Assignment (ORTOSA) Talk About Trees Temperate Forest Foundation Wood Magic Traveling Show
Corbett	Larch Mountain Environmental Education
Corvallis	Starker Forests Wood Magic
Klamath County	Klamath Outdoor Science School
Marion County	Johnson-Swanson Memorial Farm Rediscovery Forest Education Program Santiam State Forest
Molalla	Port Blakely Tree Farms
Oregon City	Hopkins Demonstration Forest Science in the Forest
Portland	World Forestry Center Tryon Creek State Park Wood Magic
Roseburg	Douglas County Museum of Natural & Cultural History
Sisters	Science in the Forest Wolfree Watershed Science Education Projects
Tillamook County	Tillamook Forest Center
Welches	Wolfree Watershed Science Education Projects
Wilsonville	Magness Memorial Tree Farm



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