PROJECT FOOD, LAND & PEOPLE offers a wide range of instructional materials (K-12), designed to stimulate an understanding of the social and economic significance of agriculture and its links to human health and environmental quality. Lessons, games, and fun educational activities focus on the interdependence of growing crops, soils, agricultural products, and food consumption.

AQUATIC PROJECT WILD is an interdisciplinary environment and conservation education program developed for kindergarten through high school grades. The activities may be chosen individually to supplement existing curriculum or used together as the basis for a course of study. Activities are organized into six major sections:

- Awareness and Appreciation
- Diversity of Wildlife Values
- Ecological Principles
- Management and Conservation
- People, Culture and Wildlife
- Trends, Issues and Consequences

BURIED TREASURE – AMAZING SOIL STORIES
Designed for 4th through 6th graders, the Amazing Stories comic-style book tells a story that educates students about water quality. Each of the eight chapters ends with an activity to illustrate and enforce the lesson introduced by the story. These lessons include effects of erosion, finding and preventing water pollution, and the importance of water.

SALMON SEMINAR #1—LESSON PLANS, ETC:
Sponsored by Ivar’s Salmon House, Seattle Public Utilities, and WA Dept. of Fish and Wildlife, this collection of lesson plans from various elementary schools and agencies, provides lots of ideas for activities related to salmon. Lesson plans include worksheets, sample experiments, directions for making crafts, and background information.
CLEAN WATER, STREAMS AND FISH
—A HOLISTIC VIEW OF WATERSHEDS
A curriculum designed for upper elementary through high school grades that emphasizes the fresh-water habitat phases of the salmon life cycle to communicate both human dependence and human impact on the water quality of the Northwest. Materials present information about basic human activity that threatens critical resources of Washington and potential actions to moderate these impacts. The program includes a list of lessons and concepts, student activity sheets, pictures and charts to be used as handouts, as well as suggested field activities. The secondary curriculum guide contains units on salmonids, watersheds, and the many social issues relating to these subjects.

DISCOVER WETLANDS curriculum guide includes activities for kindergarten through twelfth grades. The curriculum focuses on what wetlands are, why they are important, and how human actions affect them. The curriculum is divided into four units:

- Washington’s Wetlands
- Functions and Values
- People and Wetlands
- Field Studies

Topics in each unit are labeled for grade level, time range, setting, and subject area. Appendices include: extensive information about wetland education resources, an index of learning outcomes, curriculum guidelines, articles about wetlands, an explanation of the wetland classification systems, wetland plant and animal cards and field study tools.

CELEBRATING WILDFLOWERS Educator’s Program is designed to train and educate students, as well as educators, in the 4th through 8th grades about Washington State native plants, plant communities, ecosystems, threats to native plants, and ways we can preserve and protect native plants.

ANIMAL TRACKS—MAKING TRACKS TO CARE FOR OUR ENVIRONMENT and ACTIVITY GUIDE presents hands-on and outcome-based material designed to meet curriculum standards. Each of the 11 units in the Activity Guide concentrates on a different conservation issue. All activities in a unit can be used to thoroughly explore a topic or choose just a few to augment a pre-existing lesson plan. Emphasis is placed on critical thinking and interpretation. Hypothesis testing, experimentation, analysis, and discussion are used extensively. Role play and group work are also emphasized. De-
THE NATIONAL ARBOR DAY FOUNDATION'S DISCOVERY CURRICULUM is designed for middle school students (9-12 years old), “to build awareness and increase knowledge by presenting sound scientific principles and encouraging active environmental stewardship.” The curriculum is divided into three levels:

**Level 1: Initial Awareness and Understanding**—The goal is for each participant to be aware of and be able to cite examples of the interdependence of living things through knowledge of concepts such as photosynthesis and transpiration as the basis of food chains (Plant mechanics and Food webs), relationships that exist between living things because of what they eat and where they live (Habitat), adaptations made in order to survive (Adaptation), and how impact is increased through Biomagnification.

**Level 2: Expanding the Knowledge Base**—The goal is for each participant to be able to describe an environment as the sum of its abiotic and biotic components through knowledge of the concepts that an environment may contain many ecosystems, and an ecosystem is a network of all living and nonliving components within an environment. Instructional topics include: Environmental Investigation and Design (includes quadrant design and mapping concepts, erosion); Defining Ecosystem; Organism Study (classification, tree identification); Population Study (sampling techniques); Community (personal analysis and application to community)

**Level 3: Translating Awareness and Knowledge into Action**—The goal is for the students to be able to identify environmental stewardship opportunities and exhibit skills and commitment necessary to participate in them. Chapter activities include Value-based Decision Making; Issue Investigation and Resolution; and The Importance of Individual Action.

The curriculum includes supplemental chapters: 1) a chapter of narratives using a fictitious teacher as an example to give ideas about how to begin a lesson and discuss a topic; 2) resource supplements outlining activities and worksheets and suggesting references; 3) investigations for individuals or small groups; and 4) a bibliography.

**CELEBRATE ARBOR DAY**—Plant Trees for America contains ideas for implementing Arbor Day celebrations. Information about planting trees, poems, and a song are included in the text.

**SONGBOOKS:** Several songbooks for children are available to educators for check-out.

*Sing a Song All Year Long* (Preschool-1st grade) is a collection of more than 100 theme songs arranged by month. Easily learned lyrics are sung to familiar melodies and materials for related activities such as games, flannel board patterns, puppet patterns and fun activity pages are included within the text.

*Put on Your Green Shoes* is a collection of songs related to saving the environment arranged for vocal, piano, or guitar. A special bonus section includes activities, games and discussions.
**RANGER RICK’S NATURESCOPE** is a creative education series dedicated to inspiring in children an understanding and appreciation of the natural world skills they will need to make responsible decisions about the environment. Ranger Rick volumes *Trees Are Terrific* and *Pollution: Problems and Solutions* and are designed for Kindergarten to 8th grade.

The *Trees Are Terrific* booklet has five chapters that include background information explaining concepts and vocabulary, activities that relate to the chapter theme, and Copycat Pages that reinforce many of the concepts in the activities. You can choose single activity ideas or teach each chapter as a unit. The curriculum includes examining the parts of a tree, habitat variables and plant/animal relationships, forest management challenges, and how trees have influenced human history.

The *Pollution: Problems and Solutions* booklet’s chapters look at the history and underlying causes of pollution and at the different forms pollution takes. Other subjects covered include solid and hazardous waste, waste disposal problems, air pollutant causes and effects, water pollution, and people’s changing attitude toward pollution.

**Conserving Soil** is a great introduction to soils science for grades 6-9. Information about soil formation, soil horizons, soil degradation and erosion, effects of land uses (urban, agriculture, mining, historical), managing soil productivity, soil pollution and recycling organic wastes are arranged into four lessons of 24 activity masters. Color transparencies, a glossary, and resource guide are included.

**The Streamwalk Game** has been developed as a stream evaluation tool for 1st to 5th graders. It is designed to be used along a stream, however it can be used indoors with an illustration of a stream. It begins with a short story about Brown Beaver and the animals in the stream neighborhood who are upset about the increasing pollution around their homes. Players become the private detective that uses a map and clue cards to fill out investigation reports. Upon completion of the game, detectives are awarded Stream Detective badges and licenses.

**Wetland Tales** is a collection of legends and stories depicting the ecological functions and values of wetlands. Many of the stories originate from the indigenous oral traditions of North America, Asia, and Africa. The stories are intended to engage children’s imaginations and bring wetlands to life as animal-filled habitats and provide a starting point for teaching wetland ecology.
**GROW YOUR OWN TREE** is arranged into a one or two week program for second graders designed to teach the value of planting trees and taking pride in environmental stewardship. The instructional kit includes a poster, a two-part video tape, and a Teacher’s Guide with complete lesson plans, enrichment activities, reproducible activity masters in English and Spanish, and Celebrate Arbor Day poems, quotes, ideas, pledges, and proclamations. Classroom Planting Pellet Packages containing materials for 35 students can be ordered for $11.95.

**PROJECT L.I.F.E. – LEARNING IN FAMILIAR ENVIRONMENTS** materials are a collection of schoolyard activities and learning games to be used by students and teachers in kindergarten through grade five. Activities are designed to be carried-out within the schoolyard and in the classroom and do not require any special inventory of equipment. The general purpose of the curriculum is to start students toward a practical understanding of environmental interrelationships and their own personal roles in the ecosystem. An emphasis is placed on the significance of soil to all plants and animals.

**THE STORY OF DRINKING WATER** is comprised of two volumes. The *Primary Level* for grades 1-3, helps build an understanding and appreciation of the importance of safe drinking water and concepts are enforced by many fun activities. The *Advanced Level* volume for grades 7-9, consists of a problem-solving exercise based on a hypothetical scenario in which drinking water is not available for a long period of time, and explores facets of water conservation such as supply and demand, storage, wise water use, filtering, etc.

**WHERE ARE ALL THE TREES? Discovery Guide** intended to teach children about trees and forests of Minnesota, but lessons comprised of factual information and innovative activities are just as applicable to Washington trees and forests. Within each subject, activities are grouped into Primary, Intermediate and Advanced levels corresponding to grades K-9.

**FIRE PREVENTION CURRICULUM K-3** provides lesson plans for young children about reducing human caused fires. The *Smokey Bear* story is used as the basic premise around which most of the curriculum’s activities are designed. Lessons include stories, singing, crafts, art, writing and performing a play. A Smokey Bear character costume is available from DNR to supplement lesson presentations.

**WILDFIRES: BEWARE AND PREPARE** is a set of materials targeted toward middle school students, grades 6-8 that can help teachers supplement their lessons on wildland fires. This set of materials includes: a wall poster for promoting discussion of the relationship between landscape characteristics and wildfires, and includes in-depth reference information on fire history and fire science; an article on Wildfire Awareness and the importance of being prepared as a community, which also includes an activity, whereby students can assess their own communities for wildfire preparedness; trivia activities on fire safety.
**SAMMY SOIL SAVER:** Designed for use with lower elementary grades, Sammy is a puppet developed to promote a better understanding of soil conservation while building language, social studies, and science skills. The puppet interacts with the teacher to discuss conservation and its effect on the child and his environment.

In the materials are two pages of background information on soil conservation, including topics such as soil uses, soil habitat, soil formation, soil composition, soil characteristics, and the idea of combining several conservation practices into a resource management system that addresses multiple conservation objectives.

Script for the puppet, worksheets, and ideas for activities are provided in the kit. The scripts average 7-10 minutes. Choices of scripts include:

- Sammy Soil Saver Learns the Basics of Soil Conservation
- Sammy Soil Saver Learns about Wind Erosion
- Sammy Soil Saver and the Three Billy Goats Gruff
- Scripts for Soil Stewardship Week, Arbor Day, and Soil Conservation Week are also included

**EARTH DAY GUIDE TO PLANET REPAIR** explores current environmental issues such as the effects of global warming, pros and cons of energy consumption, reducing energy consumption, and becoming an activist. The text is written at an adult level and is suitable for high school age students.

**TREES: URBAN FORESTRY FOR CHILDREN** is designed for elementary grade students and includes lessons on parts of a tree, how a tree grows, annual cycle of tree development, tree identification and taxonomy, importance of trees in history to the economy and to the environment, and caring for trees. A wide variety of activities include hands-on activities, discussions, poetry, worksheets, and games. The resource guide directs teachers to sources for materials, posters, leaflets, and audio tapes about trees.

**PROJECT LEARNING TREE** is a high school level curriculum consisting of a module *Focus on Forests* and a companion *Introductory Handbook*. The module provides information on forests and forest-related issues. Activities can be used individually or collectively as a unit. Activity variations and enrichment sections are provided to help adapt activities to fit any group’s needs.
STREAMKEEPER’S FIELD GUIDE is a companion manual to the Streamkeeper’s video hosted by Bill Nye (also available for check-out). This curriculum is a comprehensive introduction to watersheds that guides students progressively through understanding and evaluating watershed health using water-quality monitoring and macroinvertebrate surveys. The stimulating activities are designed to encourage citizens to get involved in protecting water resources in their local community. All methods, justifications, and data sheets are included and explained in a straightforward, entertaining style.

GROWING TOGETHER WITH THE TREETURES™ Activity Guides 1 and 2 are part of the TREETURE™ PROGRAM (see Speakers and Demonstrations fler). The program is designed for Pre-K to 6th grade and features fun activities that help children learn about trees. Many concepts are reinforced through different Treeture™ characters who help trees perform functions required for survival, growth, and propagation. Activities include stories/legends, poems, group games, finger puppets, experiments, crafts, and worksheets.

SCIENCE OUTREACH—LEARNING THRU DISCOVERY (SOLD) consists of thirty stand-alone science lessons on the topics of water, energy, and fish and wildlife that were developed by teachers for use in K-5th grades. Hands-on activities and experiments lead students to discover science concepts for themselves. In each of the three topic areas, units are graded for K-1, 2-3, and 4-5 grades, but many of these lessons can be used across grade levels.

HYDROMANIA I, II, AND III are curricula designed by the Bonneville Power Administration for 10-day summer science camps for 4th-6th graders. Hydromania I—focuses on water, water properties and basic electricity with lots of hands-on science activities that can be adapted to the classroom environment.

Hydromania II—focuses on the life cycle of the salmon. Experiments and hands-on science activities can be used to enrich classroom lessons. The Journey of the Oncorhynchus story book, the Pacific Salmon Life Cycle Hexaflexagon, and the Magnificent Journey poster are some of the items featured in this manual.

Hydromania III—focuses on the water cycle, conservation and energy. Experiments and hands-on activities can be used in the classroom. The Power Board Game, the Water Cycle Hexaflexagon, and the Columbia River Watershed poster complement this curriculum.
Two CDs provided by the Bonneville Power Administration are available for checkout.

**THE POWER OF LEARNING…THE POWER OF THE COLOMBIA** contains lesson plans and numerous exciting, fun activities, experiments, and worksheets. The user can also interact with characters Zippie, Splash, and Sam N.

**GET SMART ABOUT ENERGY?**
This CD contains complete curricula for four grade levels (K-4, 5-8, 9-12) and over 250 lessons aligned with National Science Education Standards related to:

- Energy Sources
- Power Generation
- Environmental Impacts
- Energy Use

**YARD WASTE COMPOSTING MANUAL** covers all aspects of composting from collection, setting up a composting facility, and marketing finished compost to backyard composting techniques. Worksheets, diagrams, examples and resources are combined to provide this comprehensive reference for the serious composter.

**DRINKING WATER ACTIVITIES FOR STUDENTS, TEACHERS, AND PARENTS** is an EPA manual filled with thought stimulating classroom activities designed to enhance any drinking water curriculum. The materials are organized by age group from K-12, are easy to duplicate, and include General Information and Science Project sections.

If you are interested in or have questions about any of this information, please don’t hesitate to call or email Cindy Pierce (cindy@skagitcd.org) at the Skagit Conservation District, (360) 428-4313, or contact us through our website at [www.skagitcd.org](http://www.skagitcd.org). We look forward to hearing from you.

Conservation Districts are legal subdivisions of state government that administer programs to conserve natural resources. Conservation Districts work with local landowners and residents, offering technical assistance, cost sharing, information, and education necessary to encourage good stewardship of our environment.