

WEB SITE RESOURCES FOR ENVIRONMENTAL EDUCATION



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The following list was compiled by the USFWS, National Conservation Training Center's Division of Education Outreach with help from many FWS staff. As with all web site information, they do change overtime. We want to include your site and materials too. Send information and resource updates to [Juanita Gustines@fws.gov](mailto:Juanita_Gustines@fws.gov). This list available in electronic format at <http://library.fws.gov> 09/2004

1. Environmental Education Resources - General

EE- Link

<http://www.eelink.net>

Provides and organizes Internet resources to support, enhance and extend effective EE in grades K-12.

EETAP Resource Library

<http://www.eetap.org/>

University of Wisconsin – Stevens Point

College of Natural Resources

Stevens Point, WI 54481

(715) 346-4958

The Environmental Education and Training Partnership (EETAP) is a consortium of leading education organization and institutions working to build high quality, sustainable, coordinated and comprehensive EE program across the United States. Funded by EPA's Office of EE.

Copy of the **Environmental Education Information Providers Directory** created by EETAP is available in PDF format at: www.ag.ohio-state.edu/~eetap/index.html

GreenCOM Strategic Environmental Communication

<http://www.greencom.org>

GreenCOM promotes the practice of education and communication (EE&C) worldwide and conducts projects in USAID countries.

Eisenhower National Clearinghouse

<http://www.enc.org>

Identifies effective curriculum resources, creates high-quality professional development materials, and disseminates useful information and products to improve K-12 mathematics and science teaching and learning.

1929 Kenny Road

Columbus, OH 43210

1-800-621-5785

ERIC Clearinghouse for Science, Mathematics and Environmental Education

<http://www.ericse.org>

Works to facilitate improved teaching, learning and scholarship in science, mathematics and EE through the active exchange of information and services.

1929 Kenny Road

Columbus, OH 43210

1-800-276-0462

North American Association for Environmental Education

<http://www.naaee.org>

Since 1971 the Association has promoted EE and organizations dedicated to improving education. Use link to locate the EE Guidelines and other publications from the National Project for Excellence. (See also EPA and Eelink sites for these same publications.)

410 Tarvin Road
Rock Spring, GA 30739
706-764-2926

National Environmental Directory Project

<http://www.environmentaldirectory.net/search.htm>

Missoula, MT 59807

Creates regional environmental directories, which together form a comprehensive national database.

National Environmental Education Advancement Project

<http://www.uwsp.edu/cnr/necap/>

Provides information on the status of State-level EE.

Second Nature

<http://www.secondnature.org>

Helps colleges and universities expand their efforts to make environmentally sustainable and just action a foundation of learning and practice.

EIC - Using the Environment as an Integrating Context for Learning.

(State Education and Environment Round Table) www.seer.org

National Environmental Education and Training Foundation (NEETF)

<http://www.neetf.org/>

Classroom Earth

New Free Environmental Education Support Site for America's Teachers and Home Schoolers

<http://www.classroomearth.org/>

The EE-Works

The EE-Works is a service of the National Environmental Education and Training Foundation

<http://www.theeworks.org/index.html>

Environmental Protection Agency's Office of Environmental Education

<http://www.epa.gov/enviroed/webguide.html>

Materials Available from EPA's Web site:

1. "EE Materials: Guidelines for Excellence" – guidelines for developing and evaluating EE materials.
2. "EE Materials: Guidelines for Excellence - The Workbook" – a self-guided workbook that teaches individuals how to effectively use the materials guidelines.
3. "Excellence in EE – Guidelines for Learning (K-12)" – guidelines for learner performance and achievements in K-4th, 5-8th, and 9-12th grades and for using EE as a means for meeting standards set by the traditional disciplines.
4. "Excellence in EE: Guidelines for Learning (K-12) Executive Summary & Self Assessment Tool" – summarizes the learner guidelines and provides a self-assessment checklist for determining the degree to which curricula and programs meet these guidelines.
5. "Guidelines for Excellence: The Initial Preparation of Environmental Educators" – guidelines for what educators need to know to effectively teach EE.
6. "Evaluating the Content of Web Sites: Guidelines for Educators" – guidelines to help educators evaluate the quality and usefulness of web sites for educational purposes.

7. "Evaluating the Structure of Web Sites: Guidelines for Educators" – guidelines to help educators communicate to web designers the needs of their users to improve the educational effectiveness of the site.

8. "EE Collection: A Review of Resources for Educators, Volumes 1, 2, and 3."

9. "Environmental Education Toolbox" - a collection of publications for educators who conduct EE teacher in-service programs on topics such as designing effective workshops, integrating EE into the school curriculum, approaching environmental issues in the classroom, urban EE, and using community resources.

* "Guidelines" materials are also available through eelink and NAAEE web sites.

2. Education Standards and Terms

Education Standards Sites

U.S. Department of Education

Start at:

1) U.S. Department of Education's Education Resources Organization Directory:

<http://bc0102.ed.gov/Programs/EROD/index.cfm>

2) Select a state

3) Select link: State Education Agency/State Department of Education

4) Select State Education Agency's URL

5) Search using any combination of these terms (Each state is different)

- Curriculum Content Instructional
- Frameworks Standards Mandates
- Guidelines Initiatives Benchmarks
- Goals and Objectives

Education World

National and State Standards

<http://www.educationworld.com/standards/>

Education Terms

Association of Supervision and Curriculum Development

<http://www.ascd.org/educationnews/pr/sylvan/glossary.html>

North Central Regional Educational Laboratory

Glossary of Education Terms and Acronyms

<http://www.ncrel.org/sdrs/areas/misc/glossary.htm>

3. Electronic Newswires, Discussion, and Listserves

Ed Gateway

<http://www.edgateway.org>

Offers educators and their organizations the ability to find, organize, and share events, discussions, organizational information and documents.

PEN Weekly Newsblast

PEN@publicEducation.org

PEN NewsBlast is a free weekly e-mail newsletter featuring school reform and school fundraising resources. The PEN NewsBlast is the property of the Public Education Network, a national association of 8 local education funds working to improve public school quality in the low-income communities nationwide. To subscribe or unsubscribe, visit <http://www.PublicEducation.org>

NAAEE EE News

www.eelink.net/ee-news-signup.html

WestEd

www.wested.org/

EETAP Updates

www.eetap.org/eetapbulletin.html

FWS VOICES

To subscribe contact Laura Jones at Laura_Jones@fws.gov your VOICES moderator. A FWS listserve that has bi-monthly postings. It is brought to you by the National Conservation Training Center's Division of Education Outreach. Moderated by Laura Jones, Education Specialist. By subscribing to this listserve, you can submit information or questions for posting to FWS folks on this list. All postings are synthesized and compiled by Moderator.

FWS OUTREACH Listserve

To subscribe, post information or questions to FWS folks on this list serve, contact Anita at Anita_Nogera@fws.gov.

Created to facilitate discussions among the many people dealing with outreach. Everyone interested in outreach and inreach in the Service is invited to subscribe. Managed by Anita Noguera, National Outreach Coordinator, this listserve is not moderated.

FWS IMBD Listserve

To subscribe, send an e-mail to FWS-IMBD-request@lists.fws.gov with "subscribe" in the subject line. Managed by Jennifer Wheeler, the Service's IMBD Coordinator, at IMBD@fws.gov or 703-358-2318. This service was created to facilitate communication among folks involved in IMBD activities, and receives the greatest traffic January-May. It serves as a forum for ideas, announcements, reminders, recognitions, and other information relevant to IMBD. Open to all (within and outside the Service); not moderated.

4. Non-government Organization Environmental Education Resources

*(This list is **vast**, so we have just given you a few as samples. Please use eelink and specific search words for topic, organization, grades,, etc. to locate others.)*

Adopt Your Watershed: <http://www.epa.gov/adopt/>

Boy Scouts of America: <http://www.scouting.org>

Earth Force: <http://www.earthforce.org/>
4-H: <http://www.4-h.org/>
Girl Scouts of America: <http://www.girlscouts.org>
Give Water A Hand: <http://www.uwex.edu/erc/gwah>
National Fish and Wildlife Foundation/Conoco Phillips: <http://www.birdiq.com>
National Wildlife Federation: <http://nwf.org>
Natural Resources and Environmental Management: <http://www.nrem.net>
Project Learning Tree (PLT): <http://www.plt.org/>
Project WET: <http://www.montana.edu/wwwwet/>
Project WILD: <http://www.projectwild.org/>
Recreation Boating & Fishing Foundation: <http://www.rbff-education.org>
Student Conservation Association: <http://www.thesca.org>
World Wildlife Fund: <http://www.wwf.org>
YMCA Earth Service Corps: <http://www.yesc.org>

5. Government Agency Environmental Education Resources

EPA (Environmental Protection Agency): <http://www.epa.gov>
1. EPA's Office of Environmental Education <http://www.epa.gov/enviroed>
2. EPA's Federal Task Force on EE <http://www.epa.gov/enviroed/ftfee.html>
Mission of Task Force: To coordinate, publicize and promote the federal government's environmental education program and the resources available through the various participating agencies. (The task force includes the following agencies plus others. Contact Drew Burnett, at (202) 564-0448 brunett.andrew@epa.gov)

NRCS (Natural Resource Conservation Service): <http://www.nrcs.usda.gov/>

USDAFS (Forest Service): <http://www.fs.fed.us/>

BLM (Bureau of Land Management): <http://www.blm.gov/education>

NPS (National Park Service): <http://www.nps.gov/index.htm>

USFWS (United States Fish and Wildlife Service): <http://www.fws.gov/>

6. FWS - EE Resources for Teachers and Students

<http://sssp.fws.gov/sssp.html>

Provides extensive information on shorebirds and on the Shorebird Sister School program. Has a link for kids. Available in English, Spanish, Portuguese, Japanese and Russian.

<http://endangered.fws.gov/kids/index.html>

Provides numerous activities for kids, (puzzles, games, etc.) plus a link to teacher material.

<http://training.fws.gov/>

Provides a catalog of training and lists of other events provided through the FWS National Conservation Training Center

<http://library.fws.gov/>

Provides links to numerous online publications of FWS, links to lots of other libraries and literature search capabilities including the FWS NCTC library.

<http://training.fws.gov/library/pubs3.html>

Provides links to numerous FWS publications most of which are targeted at adults.

<http://pictures.fws.gov/>

Provides links to numerous photos, works of art, slide shows, endangered species information plus links to Park Service and Bureau of Land Management collections.

<http://images.fws.gov/>

Provides hundreds of images of various wildlife species. All images are available for public use.

<http://info.fws.gov/art.html>

Provides links to images of all the Federal Duck Stamps, to some of the Louis Agassiz Fuertes and Robert Savannah art collections plus links to other sources of wildlife art.

<http://distancelearning.fws.gov/>

Provides a schedule of events plus information on how to participate in NCTC distance learning events.

<http://training.fws.gov/history/index.html>

Provides links to numerous discussions of the history of conservation as well as links to copies of historical documents.

<http://www.fws.gov/who/exhibits.html>

Provides links to numerous educational exhibits dealing with wildlife history, biology and other resource related issues and art.

<http://species.fws.gov/>

Provides PDF and HTML fact sheets on numerous species plus links to other sources.

<http://invasives.fws.gov/>

Provides general invasive species information plus links to other sources.

<http://migratorybirds.fws.gov/shrbird/shrbird.html>

Provides a good question and answer presentation on shorebirds with photos and links to other sources.

<http://volunteers.fws.gov/>

Provides information on how individuals and groups can do volunteer for work on National Wildlife Refuges. Gives information on types of activities one might participate in and provides an application form.

<http://refuges.fws.gov/history/index.html>

Provides information on the history of the National Wildlife Refuge System, as well as a listing and description of threatened and endangered species.

<http://sssp.fws.gov>

Shorebird Sister Schools allows students to track Arctic shorebirds as they migrate northward to their nesting grounds in Alaska.

<http://ga.water.usgs.gov/edu>

United States Geological Survey Water Science for Schools. Tones of information, questionnaires, maps and pictures about water use information in your home, city and nation.

http://endangered.fws.gov/kids/how_help.htm

You and your school: What can you do to help conserve rare, threatened, and endangered species and their habitats? You will find Fact Sheets in .pdf format, How to Tips, Habitat Restoration, and Data Gathering.

<http://birds.fws.gov/IMBD>

Provides resources for celebrating International Migratory Bird Day, including to the on-line catalog for IMBD materials and support materials for the annual theme.

<http://birds.fws.gov/Education.htm>

Provides links to the Service's Education materials on birds.

<http://duckstamps.fws.gov/junior/junior.htm>

The Federal Junior Duck Stamp Conservation and Design Program is a dynamic arts curriculum designed to teach wetlands and waterfowl conservation to students in kindergarten through high school.

7. FWS – EE People and Programs

Fish & Wildlife Service Environmental Education Resources (partial list)
September 1, 2004

National Office for FWS Division of Refuges

U.S. Fish and Wildlife Service
Division of Refuges
4401 N. Fairfax Drive, Room 670
Arlington, VA 22203
(703) 358-2029 Fax: (703) 358-1826

Division of Visitor Services & Communications

Kevin Kilcullen - Vacant
Laura Miles - Secretary

Branch of Visitor Services

Deborah McCrensky (703) 358-2386
- Environmental Education & Interpretation
- Friends & Volunteer Coordinator
- Cultural Resources, Museum, History
- Concessions, Uniforms

Rebecca Halbe - Recreation fees, Customer Service, Signs
Jim Banks - Job Corps
Hannah Burns - Job Corps
- Public Use

Branch of Communications

Vacant, Outreach Coordinator
Dennis Sprichard - Centennial Coordinator
Laurie Shaffer - Commission Liaison
Steve Farrell - Writer/Editor
Vacant - Visual Information Specialist
Vacant - "Fulfilling the Promise" Coordinator

**National Office for FWS
Migratory Bird Program**

U.S. Fish and Wildlife Service
Migratory Bird and State Programs
4401 N. Fairfax Drive, Mail Stop MBSP
Arlington, VA 22203
(703) 358-1769 Fax: (703) 358-2217

Division of Migratory Bird Management
Julie St. Louis (703) 358-1824 -- Education and Outreach
Jennifer Wheeler (703) 358-2318 -- International Migratory Bird Day Coordinator
- Educational & Promotional Materials on Birds, including pamphlets, fact sheets, posters

Division of Bird Habitat Conservation
Robert Williams (703) 358-2002 - Junior Duck Stamp Contact

Region 1-Environmental Education Resources

USFWS, R1, External Affairs
911 N.E. 11th Ave
Portland, OR 97232-4181
Outreach Team (503) 231-6120

Jeanne Clark, Editor: Out & About Newsletter
Stone Lakes NWR
1624 Hood-Franklin Road
Elk Grove, CA 95758
(916)775-4421 Fax : (916)775-4407
Programs: Out & About Newsletter (published quarterly for Region 1 employees)

Tony Faast
USFWS, R1, Federal Aid
911 N.E. 11th Ave
Portland, OR 97232-4181
(503) 231-6123 Fax: (503)231-6996

Programs: Environmental Education and Outreach (Endangered Species Jeopardy Game, A Field Guide to Outreach)

Jane F. Chorazy, Outreach Specialist,
Region 1, External Affairs
911 N.E. 11th Ave
Portland, OR 97232-4181
(503) 231-2251

Programs: Cargo For Conservation (several kits available for use); Scientists in the Schools; EE and Outreach program materials available; Pacific Salmon brochures and coloring books

In the Field: San Francisco Bay National Wildlife Refuge Complex
Education Sites: Visitor Center, Fremont EEC, Alviso, San Pablo Bay NWR, Valley
P.O. Box 524
Newark, CA 94560

Fran McTamane (408)262-5513 Fax: (408)262-2867

Programs: Trekking the Refuge, Wetland Round-Up, and In the Mare On Mare Island Educator-Led Field Trips - K-6 grades; Mud Studies and Bay Pollution in-class activity - 3rd grade; Seabird Restoration Program (in-class activities)- 2-6 grades; Slow the Flow Educator-Led Field Trips - 5-12 grades, partnership with a neighboring pollution control plant.

In the Field: Stone Lakes NWR
1624 Hood-Franklin Road
Elk Grove, CA 95758
(916)775-4421

Fax: (916)775-4407

Programs: Volunteer/docent training; field trips; school presentations; projects with scouts; currently developing educator resource guide.

In the Field: Sacramento National Wildlife Refuge
725 County Rd 99 W
Willows, CA 95988

Denise Dachner (916)934-2801 Fax:(530)934-7814

Programs: Discover the Wonders of our Wetlands: Explore our wetlands on your own: Wetland Walk with Trail Guide, Auto Tour with Viewing Platform and Radio broadcast, Discovery Room with Wildlife Exhibits, Discovery Pack with five self guided activities. Or join Refuge staff for reservation E.E. programs. CARGO for Conservation Endangered Species presentations, Field Trips and Educator Workshops; National Earth Stewards site
California Federal Junior Duck Stamp Program

In the Field: Ecological Services Sacramento, Endangered Species Division
3310 El Camino Avenue, Suite 130
Sacramento, CA 95821-6340
(916)979-2728 Fax:(916)979-2723

Programs: Habitat Evaluation Procedure (HEP)-hands-on activity for Girl Scouts.

In the Field: Oregon State Office
2600 S.E. 98th Ave., Suite 100
Portland, OR 97266
Phil Carroll (503)231-6179
Information and Education Specialist

Leavenworth National Fish Hatchery
12790 Fish Hatchery Rd.
Leavenworth, WA 98822
(509)-548-7641

Fax: (509-548-6263

Programs: *Nasikelt River Discovery Program* (leavenworth.fws.gov/nasikelt.htm)
Nasikelt River Discovery Program is a joint effort of the Leavenworth National Fish Hatchery Complex, U.S. Fish and Wildlife Service and the Leavenworth/Okanogan/Wenatchee Ranger Districts, U.S. Forest Service to coordinate a diverse menu of natural resource education opportunities for schools in the North Central Washington area. Curriculum workshops, learning models, discovery boxes, guided hatchery and winter life snowshoe tours, special events for National Fishing and Boating Week and home of the award winning Wenatchee River Salmon Festival are activities and resources offered through the Nasikelt Program.

In the Field: Little White Salmon National Fish Hatchery
56961 SR14
Cook, WA 98605
Darlene Anderson (509)538-2755

Programs: "The Fish Hatchery Next Door"-an educator's guide (an Oregon Dept. of Fish and Wildlife publication), Project SHARE (salmonid hatchery awareness & resource education), salmonid environmental education programs- (hatchery and aquatic related)

In the Field: Ridgefield NWR
301 N 3rd Avenue.
Ridgefield, WA 98642
Assistant Hatchery Manager
Yvette Donovan (360)887-4106 Fax:(360)887-4109

Programs: Educator workshops, teacher-led field trips, educator guide

In the Field: Nisqually NWR
100 Brown Farm Rd.
Olympia, WA 98516
Sheila McCartan (360)753-9467 Fax:(360)534-9302

Programs: "Where the River Meets the Sound" Educator Guide with on-site activities and pre-and post field trip activities. Environmental Education Center with exhibits and activities. Teacher-led field trips with assistance by volunteers. Field trip orientation workshops for teachers. Lending library. Federal Junior Duck Stamp state coordination.

In the Field: Grays Harbor National Wildlife Refuge
c/o 100 Brown Farm Road

Olympia, WA 98516
Sheila McCartan (360)753-9467 Fax:(360)534-9302

Programs: "Grays Harbor Shorebird Education Guide" with in-class on on-site activities. Classroom presentations by staff and volunteers. Field trip assistance. Shorebird Education Trunk available for check-out. Shorebird Festival Poster Contest and Shorebird Festival Fun Fair.

In the Field: Stillwater NWR Complex
1000 Auction Road
Fallon, Nevada 89406
Janet Schmidt (775)428-6452 Fax: (775)423-5158

Programs: Spring Wings Bird Festival, Field Trips, In-school presentations

In the Field: San Luis National Wildlife Refuge
P.O. Box 2176
Los Banos, CA 93536
John Fulton (209)826-3508 Fax: (209)826-1445

Programs: EE partnerships with cities, counties, non-profits, and with State of California agencies for teacher workshops; "Trekking the Trail of the Tiger Salamander" vernal pool curriculum-includes teacher training, loaner-trunks, field-trips and classroom visits; Songbird Blues loaner trunk; Blue Goose mascot suit coordination; Wild on Wetlands Weekend wildlife festival- includes Junior Duck Stamp Contest entries, tours and workshops; Docent-led fieldtrips for geology, hydrology, ethnobotany, ecology, and habitat management, tailored for state standards for particular grade levels.

In the Field: Oregon Coast NWR Complex
2127 SE OSU Drive
Newport OR 97365
Dawn Harris (541)867-4550 Fax: (541) 867-4551

Programs: Earth Stewards, Field Trips, In-class presentations on refuges and endangered species, Shorebird Sister Schools Program (coming soon).

In the Field: Hanford Reach National Monument/Saddle Mountain NWR
3250 Port of Benton Blvd.
Richland, WA 99352
Paula Call (509) 371-1801 Fax (509) 375-1096

Programs: Shrub Steppe resource cards for teachers, developing Shrub-steppe Bird Calls CD ROM, Shrub-steppe Slide show, Annual Train the Teachers Workshop.

In the Field: Willapa NWR
3888 SR 101
Ilwaco, WA 98624
Outdoor Recreation Planner: Art Shine (360) 484-3482

Programs: Classroom nature programs given at area schools. Science stations field trip in the spring for 4th graders. Interpreter lead birding walks.

In the Field: Hopper Mountain NWR Complex
2493 Portola Rd. Suite A
Ventura, CA
John Brooks/Bronwyn Davey (805) 644-5185 Fax: (805) 644-1732

Programs: Condor Recovery Program, On going efforts with outside media, bi- annual news letter *Condor News*, local outreach about the condor. **Guadalupe - Nipomo Dunes NWR-** Chris Barr (805) 343-9151, regularly scheduled interpretative hikes, Dunes Center Interpretative Center

In the field: Kilauea Point National Wildlife Refuge
P.O. Box 1128
Kilauea, HI 96754
Dave Aplin (808) 828-1413

Programs: Guided field activities for students, educator materials and workshops.

In the Field: Oahu National Wildlife Refuge Complex
65-590 Kamehameha Hwy, Suite 2C
Haliewa, HI 96712
(808)637-6330

Programs: Guided field programs for thousands of students each year conducted by private, non-profit educational organizations.

In the Field: Pacific Island - External Affairs Division
Box 50088
Honolulu, HI 96850
Ann Hudgins (808)541-2749

Programs: Shorebird Sisters School Program, facilitates and coordinates field based educational programming throughout the Pacific.

In the Field: Kealia Pond National Wildlife Refuge
P.O. Box 1042
Kihei, HI 96753
(808)875-1582

Programs: Guided field based programs led by Hawaii Nature Center.

In the Field: Kauai National Wildlife Refuge Complex
P.O. Box 1128
Kilauea, HI 96754
Kathy Batha (808) 828-0762 Fax: (808) 828-6634
Dave Aplin (808) 828-1413 Fax: (808) 828-6634

Programs: Educator workshops, field trips, traveling trunk for classroom presentations, lending library, Hawaiian plant and animal activity sheets, distance education programming.

In the Field: San Diego NWR Complex Education Programs and Curricula
Sweetwater Marsh NWR
1080 Gunpowder Point Drive
Chula Vista, CA 91932
Barbara Simon (619) 691-1261 Fax: (619) 291-0447

Programs: "Sweetwater Safari," science and language-arts based, instructor lead, refuge field trip for grades 3-6. Meets California science standards for 4th grade. Requires prior teacher and chaperon training session. City of Chula Vista Elementary School District provides an on-staff, full-time teacher at the Nature Center for all Chula Vista 4th grade students. Students spend time in the Center's classroom, then on refuge trails.

In the Field: Tijuana Slough NWR

Programs: M.A.R.S.H. - Instructor/education department led field trips for elementary school students. Requires prior teacher training session. Managed by the California Parks Department, our partners at the Tijuana Slough and Visitor Center. Tijuana River Water Testing Program - Water testing program for university/high school students. Managed by CDP and funded by NOAA.

In the Field: Tualatin River National Wildlife Refuge

16507 SW Roy Rogers Road
Sherwood, OR 97140

Kim Strassburg (503) 590-5811

Programs: Currently this new urban National Wildlife Refuge is developing a variety of EE programs to be available when the refuge opens to the public in mid-2005. Programs are scheduled to include: K-8 floodplain ecosystem curriculum and field trips; middle school Refuge Club; traveling trunks; and project-based curriculum for high school.

In the Field: Deer Flat NWR

13751 Upper Embankment Road
Nampa, ID 83686

Susan Kain (208) 467-9278 Fax: (208) 467-1019

Programs: Field trips; school presentations; scout programs; Reading at the Refuge preschool story time; Suitcase for Survival traveling trunk; and currently developing Educators' Guide. Facilities include Visitor Center with Kidspace activity area, auditorium, and self-guided nature trail at Upper Dam and Environmental Education Center at Lower Dam. Coordinate Idaho Federal Junior Duck Stamp Program.

In the Field: Dworshak National Fish Hatchery

4147 Ahsahka Rd., P.O. Box 18
Ahsahka, ID 83520

Susan Sawyer, Information and Education Specialist (208)476-4591

Megan Johnson, Information and Education Assistant (208)476-4591

Programs: Hatchery in the Classroom program in area schools, Fin Bins with educator resource guides, Hatchery field trips, teacher workshops for Project WET and Idaho Water Camp, Lewis and Clark related programs, outreach partnerships with communities and local agencies for Environmental Awareness Days, Forestry Tours, and other youth events, outreach partnership with Friends of Northwest Hatcheries, annual Open House and Kids' Fishing Days for National Fishing Week at Dworshak and Kooskia NFHs.

Complex Wide:

San Diego Wetlands - Teacher packet. A guide to San Diego's wetlands and activities produced by SeaWorld and numerous partners including San Diego Refuge Complex.

Region 2-Environmental Education Coordinator

USFWS, Refuges & Wildlife
P.O. Box 1306

Albuquerque, NM 87103

Juli Niemann, (505) 248-6635 Outreach Coordinator

Lori Jones, (505) 248-6484 Environmental Education and Boy and Girl Scout Coordinator

Programs: Completing CD ROM for middle school age youth on habitat management.

In the Field: Tulsa ES

222 S Huston, Suite A

Tulsa, OK 74127

Erich Langer (918)581-7458 Fax:(918)581-7467

Programs: Outreach Specialist, conduct teacher training, projects & scouts

In the Field: Phoenix ES

2321 W. Royal Palm Rd. Suite 103

Phoenix, AZ 85021

Jeff Humphrey (602)640-2720 Fax:(602)640-2730

Programs: 15 min. video re: Partners for Wildlife program occurring on land with endangered species, endangered species outreach information specific to AZ, Mexican Wolf and California Condor Program info.

In the Field: Bosque del Apache NWR

P.O. Box 1246

Socorro, NM 87801

Maggie O'Connell (505)835-1828 Fax:(505)835-0314

Programs: Naturalist training program, Bosque educ. curriculum

In the Field: Wichita Mountains NWR

Route 1. Box 448

Indianhonia, OK 73552

Claudine Daniels (405)429-3221 Fax:(580)429-9323

Programs: Educator materials, active Cameron University partnership and intern program, environment ed. curriculum, Project WET, WILD, Learning Tree training, campgrounds available for 2-3 day training courses, field trips.

In the Field: Sevilleta NWR

P.O. Box 124

Socorro, NM 87801

Kimberly King-Wrenn (505)864-4021 Fax: (505)864-7761

In the Field: Imperial NWR

P.O. Box 72217

Yuma, AZ 85365

Renee Robichaud (928)783-3371 Fax: (928)783-0652

In the Field: Las Vegas NWR

Route 1 Box 399

Kristin Kuyuk (505)425-3581 ext 201 Fax: (505)454-8510

In the Field: Bitter Lake NWR

4065 Bitter Lake Road

Roswell, NM 88201
Steve Alvarez (505)835-1828 Fax: (505)835-0314

In the Field: Salt Plains NWR
Route 1 Box 28
Jet, OK 73749
Emile Hile (580)626-4794 Fax: (580)626-4793

In the Field: Aransas NWR
P.O. Box 100
Austwell, TX 77950
Bernice Jackson (361)286-3559 Fax: (361)-286-3722

In the Field: Texas Mid-Coast NWR Complex
1212 N. Velasco, Suite 200
Angleton, TX 77515
Bryan Adams and Tom Schneider (979) 849-7771

Programs: We offer field trips and tours for both Brazoria and San Bernard NWR, and can arrange for special programs for organizations within a reasonable distance. All these activities are available for both schools and other organizations, depending on staff availability. Events include Family Day at Brazoria NWR in the fall and Migration Celebration at San Bernard NWR in the spring. Our school field trips involve several thousand students annually. Both refuges are open daily from sunrise to sunset for self-guided tours.

Region 3-Environmental Education Coordinator

USFWS, Federal Building
1 Federal Drive
Fort Snelling, MN 55111-4056
Lauri Munroe-Hultman, EE Coordinator (608) 539-2311 Fax (608) 539-2703
Ken Garrahan, EE Coordinator (218) 736-9038
Kim Mitchell, Endangered Species Outreach Coordinator (612) 713-5337

Programs: Endangered Species

In the Field: Minnesota Valley NWR
3815 E. 80th St.
Bloomington, MN 55425
Matt Connor (612)854-5900

Programs: Wetland Trunk-on loan, Wolf Trunk, Tall Grass Prairie Trunk, Prairie Discovery Trunk Watchable Wildlife Patch and works sessions for youth groups, *Watching Wildlife*, A Skills Workshop.

In the Field: Prairie Wetlands Learning Center
602 State Highway 210
Fergus Falls, MN 56537
Ken Garrahan (218)736-9038 Fax (218)736-094

Programs: Environmental education and interpretation programs focus on the prairie pothole

region, with programs available for all ages year round. Curriculum-based environmental education programs are provided to grades K-12; programs are field-based, grade-level specific, and support National Science Education Standards and Minnesota Science Standards. A partnership between the USFWS and the ISD 544, the Prairie Science Class, brings 100 5th grade students to the Learning Center two hours daily for an integrated, field-based study of the prairie wetlands environment. Preschool programs, adult programs, and programs for youth or community organizations are handled on a request basis. Residential programs and facilities are also available year round for extended environmental education opportunities. Training sessions are offered in environmental education program development, methods and resources; a variety of trainings are also conducted throughout the year in topics relating to prairie wetlands ecology and wildlife management. Educational trunks are available for loan on a variety of topics. College internships in environmental education are available spring, summer, and fall.

In the Field: Sherburne NWR

17076 293rd Ave
Zimmerman, MN 55398

Nancy Haugen (763)389-3323 Fax: (763)389-3493

Programs: Oak savanna curriculum, Prairie Discovery Trunk for loan, Wetland Trunk for loan, snowshoes available, teacher training.

In the Field: Shiawassee NWR Greenpoint Nature Center

6975 Mower Road
Saginaw, MI 48601

Becky Goche (517)777-5930 Fax: (517)777-9200

Programs: Wetland curriculum, summer programs, school/teacher workshops

In the Field: Neal Smith NWR Prairie Learning Center

P.O. Box 399
Prairie City, IA 50228

Scott Ford (515)994-2415 Fax:(515)994-2104

Programs: *Project Bluestem* Prairie/Savanna curriculum and extensive school programs, Summer programs, Iowa Corps and *Project Bluestem* Teacher training programs, Traveling Song Bird, Prairie, and Elk Trunks, Endangered Species Trunk and program, Scout and Brownie Badge programs, Eagle Scout projects, Refuge is the designated State Coordinator for Jr. Duck Stamp program, Iowa Student Environmental Coalition program, Volunteer and Stewardship program.

Region 4-Environmental Education Coordinator

USFWS, External Affairs

1875 Century Blvd

Atlanta, GA 30345

Diana Hawkins (404)679-7293 Fax:(404)679-7286

In the Field: Panama City Field Office-ES and Fisheries

612 June Ave
Panama City, FL 32405
Gail Carmody ext. 225 Lorna Patrick ext.229
(850)769-0552 Fax:(850)763-2177

Programs: K-5 Save our Area Resources (Soar) curriculum guide, teach teachers; endangered species, wetlands, and environmental conservation

In the Field: St. Marks NWR
P.O. Box 68
St. Marks FL 32355
Robin Will (850)925-6121 Fax:(850)925-6930

Programs: Teacher guide and Field Trips

In the Field: Wheeler NWR, Visitor Center
2700 Refuge Headquarters
Decatur, AL 35603
Teresa Adams (256)350-6639 Fax:(256)351-6958

Programs: Teacher workshops, school group presentations, exceptional relationship with surrounding communities

In the Field: Southeast Louisiana Refuges:
Bayou Sauvage, Big Branch Marsh, and Bogue Chitto NWR
1010 Gauge Blvd, Bldg 936
Slidell, LA 70458
Byron Fortier (Supv. Park Ranger) (985) 646-7549 Fax:(504)646-7588
Doug Hunt (Park Ranger) (985) 882-3881 Fax: (985) 882-6138
Diane Barth (Park Ranger) (985) 646-7555 Fax: (985) 646-7588
Rhonda Dennis (Park Ranger) (985) 646-7543 Fax: (985) 646-7588

Programs: On-site curriculum-based EE activities at Bayou Sauvage and Big Branch Marsh, inc. canoeing programs for older students; classroom visits; summer nature camps (3)

In the Field: Ding Darling NWR
1 Wildlife Dr.
Sanibel, FL 33957
Kevin Godsea (941)472-1100 x237 Fax:(813)472-4061

Programs: Has an agreement with Lee County School. This school system has the largest EE program in country. They have their own EE teachers but use the Refuge extensively for their outdoor classroom

In the Field: Sewee Visitor/Environmental Education Center
5821 Highway 17N
Awendaw, SC 29429
Larry Davis (843)928-3368 Fax:(843)928-3828

Programs: Two EE classrooms, developed curriculum through a partnership with local school district - Earth Stewards-5th graders

In the Field: Alligator River NWR
P.O. Box 1969
Manteo, NC 27954
Bonnie Strawser (252)473-1131 Fax: (252)473-1668

Programs: EE activities, Red Wolf Curriculum, Wings Over Water festival

In the Field: Okefenokee NWR
Route 2, Box 3330
Folkston, GA 31537
Jim Burkhart(912)496-7366 Fax: (912)496-3332

Programs: EE activities, Visitor Center, Exhibits

Region 5-Environmental Education Coordinator

USFWS, Refuges & Wildlife
3100 Desert Road
Suffolk, VA 23434
Julie Rowand (757) 986-3705

In the Field: Chesapeake Bay Field Office
Rich Mason (410)573-4500

Programs: Schoolyard Habitat Program: Technical assistance and printed resources on restoring habitat on schoolyards.

In the Field: John Heinz NWR at Tinicum
8601 Lindbergh Blvd
Philadelphia, PA 19153
(610) 521-0662 Fax: (610) 521-0611

Programs: Extensive EE program. Educator workshops, lending library for educators, site-specific activity guides for field trips, Nature of Learning refuge participant. The Cusano Environmental Education Center includes exhibits and resources for teachers and field trips.

In the Field: Missisquoi NWR
371 North River Street
Swanton, VT 05488
Eileen Nunez (802) 868-4781 Fax: (802) 868-2379

Programs: Missisquoi National Wildlife Refuge is the state receiving site for the Federal Junior Duck Stamp Conservation and Design Contest. Visit <http://duckstamps.fws.gov/junior/junior.htm> to learn more. Field trips for school groups, adult seminars and educational programs, demonstrations, and special events are scheduled throughout the year.

In the Field: Potomac River NWR Complex, Mason Neck NWR, Occoquan Bay NWR
14344 Jefferson-Davis Highway
Woodbridge, VA 22191

Yvonne Schultz & Martin McClevey (703) 490-4979 Fax: (703) 490-5631
Programs: VA State Coordinator Junior Federal Duck Stamp Competition, partnerships with local school districts (Prince William & Fairfax Counties), cleanup & special projects partnership with Exxon Mobil Corporate headquarters.

Potomac River NWR Complex provides Environmental Education opportunities for public and private schools, home schoolers and civic groups to learn about our natural resources.

Mason Neck NWR: A partnership with Thomas Jefferson High School and the Fairfax County School District provide opportunities for local schools to conduct research and general EE studies in closed portions of the refuge. An Environmental Education pavilion located on the refuge is available for use by school groups (reservations required).

Occoquan Bay NWR: The Girl Scout Council of the Nation's Capital is partnering with the refuge to provide junior level work projects as well as Silver and Gold Award level projects. Boy Scout projects are available for community service and Eagle. A bird banding station is in operation at Occoquan Bay NWR from March through May (groups may arrange school trips to visit station). A visitor contact station is staffed on weekends to provide general information and access to video library.

In the Field: Chincoteague NWR
P.O. Box 62
Chincoteague, VA 23336
Alison Penn and Sally Bowden (SSSP Regional Coordinator)
(757) 336-6122 Fax: (757) 336-5273

Programs: Extensive EE program. Structured educational programs are available for schools, youth groups, universities, elderhostels, and professional groups. Teacher workshops are also offered throughout the year. The Herbert H. Bateman Educational Center includes exhibits and information about the refuge resources. Information available on Fish and Wildlife Service's Shorebird Sister Schools Program.

In the Field: Gulf of Maine Coastal Ecosystems Program
4R Fundy Road
Falmouth, ME 04105
Lois Winter (207)781-8364 Fax:(207)781-8369

Programs: Environmental education as a tool to promote and implement restoration initiatives in Gulf of Maine Watershed. Target outreach audiences: state conservation groups, land trusts, town planners, fishing groups, watershed assoc. and land use decision makers.

In the Field: Moosehorn NWR
RR 1, P.O. Box 202, Suite 1
Baring, ME 04694-9703
Vacant (207)454-7161 Fax:(207)454-2550

Program: 7th and 8th grade students lead 4th and 5th grade students in pre-visit and on-refuge activities. When in 6th grade they do special projects on the refuge to continue their connection with Moosehorn.

In the Field: Patuxent Research Refuge
National Wildlife Visitor Center
10901 Scarlet Tanager Loop

Laurel, MD 20708

Stacie Henry (301) 497-5763

Fax: (301) 497-5765

Programs: State-of-the-art exhibits that demonstrate the value of wildlife research, wildlife conservation tram tours (seasonally), K-12 site specific guides that link to state and national curricula, Project Wild, Project Learning Tree, Ecological Concepts, WOW! Wonders of Wetlands, Conservation on Canvas, MD State Coordinator Junior Federal Duck Stamp Competition, interpretive programs for the general public, special events, outreach and partnerships with local schools, schoolyard habitat demonstration area, and other hands-on activities.

Region 6-Environmental Education Coordinator

USFWS, Refuges & Wildlife

P.O. Box 25486, Denver Federal Center

Denver, CO 80225

Diane (Dee) Emmons (303)236-4392

Fax:(303)236-4792

Programs: Responding to a need to develop a coordinated effort for serving the environmental education needs of the Denver metro area schools, the Scientist in the Schools program was formed in 1986. The “scientists” are staff in the Regional Office that have volunteered to be a part of this program. Scientists either adopt a certain school and work with that school throughout the year to meet their environmental education needs, or they are “floaters” and respond to requests from schools. Materials available to the scientists for doing classroom presentations include: teaching guides, a curriculum library, slides, a groundwater model, and hands-on wildlife products and skins.

In the Field: Ecological Services, Cheyenne WY

Mary Jennings (307)772-2374

Program: Developing a wildlife patch for youth groups

In the Field: Rocky Mountain Arsenal NWR

Building 121

Commerce City, CO 80022-2108

Stacy Armitage (303) 289-0931

Fax (303) 289-0863

Programs: Rocky Mountain Arsenal National Wildlife Refuge offers all schools environmental education opportunities in a natural setting. Two types of environmental education programs are offered: teacher-led field trips using our “Home is Habitat” curriculum and staff-led field trips for grades K-12 with specific curriculum. “Home is Habitat” teacher trainings are offered 2-3 times per year for re-certification credit through the Colorado School of Mines. All environmental education opportunities are free and are correlated to the Colorado Model Content Standards. The *Time Capsule* is a traveling educational kit available for classroom use containing books, props, maps, photographs and posters. The *Capsule* includes 12 hands-on, interdisciplinary activities that trace the history of the Refuge, from native prairie, to farming, to industry, to National Wildlife Refuge.

In the Field: Alamosa/Monte Vista Complex, Alamosa, CO

Contact: Kristen Gilbert

Phone: (719) 589-4021

Programs: A couple of different interagency partnerships are occurring in the San Luis Valley to create an environmental education network in this area. These partnerships provide environmental education services to meet these needs in the Valley, in addition to providing an interagency network for sharing knowledge and resources.

In the Field: Great Plains Nature Center, Wichita, KS

Contact: Lorrie Beck

Phone: (316) 683-5499 x108

Programs: This 23,000 square foot facility houses offices, exhibit space, an auditorium, and one classroom. Located in the heart of Wichita, it is surrounded by a 240-acre natural City-owned park, allowing for hands-on environmental education activities. It is a cooperative venture between the Service, Kansas Department of Wildlife and Parks, and City of Wichita Park and Recreation Department. It is a suggested field trip site for many schools in the metropolitan area. Staff members participate in the Science Olympiad at the regional, state, and national levels by providing tutors, group leaders, and officials. The nature center is host to one of 10 state-wide ECO-Meets each year, with staff working with area high school students as they compete in various tests and quizzes dealing with general wildlife. Continuing education and re-certification classes through the local universities are offered by center staff. Scout, youth, and family natural history programs are offered throughout the year.

In the Field: Quivira National Wildlife Refuge, Stafford, KS

Contact: Cindy Terry, Outdoor Recreation Planner

Phone: (316) 486-2393

Programs: Refuge staff provide one day seminars for educators and others. An educator's guide, compiled by Refuge staff, is made available to participants. Educational field trips are available on request, and include activities at the Visitor Center and a field trip guide.

In the Field: Kirwin National Wildlife Refuge, Kirwin, KS

Phone: (785) 543-6673

Programs: In 1996, a program on beginning bird watching led to the establishment of a local bird watching club. Evening programs, addressing a variety of topics, are held the third Thursday evening of each month. An annual Eagle Day presentation showcases a live, rehabilitated bald eagle. Hooked on Fishing, Not on Drugs kids fishing day is presented with assistance from the Kansas Department of Wildlife & Parks. Teacher's open house showcase the programs that are available at the Refuge and/or for the classroom. Refuge personnel annually conduct various tour and classroom presentations for school groups, senior citizens and scout groups. Refuge staff are involved with the local Boy Scout camp to provide programs or help with badge requirements.

In the Field: Benton Lake NWR

922 Bootlegger Trail

Great Falls, MT 59404-6133

Dave Gillund (406) 727-7400

Fax (406) 727-7432

Programs: Required environmental education programs occur at the Refuge for Great Falls School District children in grades 3 and 7. In 3rd grade, they learn about wetland ecosystems. They return in 7th grade to learn about birds. The Refuge staff also host education classes with Montana State University - Northern. Field trips to the Refuge provide “real life” experience on the topics of wetland ecology, environmental awareness, and partnerships for conservation of natural resources.

In the Field: Bowdoin National Wildlife Refuge, Malta, MT
Kathy Tribby (406) 654-2863

Programs: Every other year, the Refuge sponsors a teacher workshop that focuses on techniques used in monitoring and managing wildlife. It encourages teachers to use the Refuge and natural areas as teaching tools for their students. Teachers get hands on experience with bird banding, GPS units, and rocket nets. Refuge staff also participate in an annual event, Enrichment Days. This program is made available for all grade school children, approximately 600 students, in Phillips County. Various agencies, such as BLM and NRCS, local businesses, and area farmers also participate in the program. Themes and locations for the event vary from year to year.

In the Field: Lee Metcalf National Wildlife Refuge, Stevensville, MT
Bob Danley (406) 777-5552

Programs: An old barn has been converted into a learning facility for teachers and children. Refuge staff conduct annual teacher training courses to help teachers understand the environment and to learn to use the Refuge with their students. Many students return to the Refuge each year for hands-on learning conducted by the teachers themselves or by the Refuge staff. Refuge staff also conduct the Junior Duck Stamp Contest for Montana, which combines art and wildlife education

In the Field: National Bison Range, Moiese, MT
Pat Jamieson (406) 644-2211

Programs: The Range has an extensive environmental education program. An environmental education campsite is available to organized groups for the purpose of pursuing outdoor classroom activities. Students and teachers may use environmental education study areas for investigation projects. There is an accessible nature trail near Mission Creek and ponds that are excellent for riparian and wetland studies. There is also an accessible trail through the grasslands near the Visitor Center. Equipment, activity packets, and field guides are available for use by teachers on these areas. The Learning Lab contains a skull and skin collection, pressed plant collection, reference books and field guides, field kits, and laboratory equipment such as microscopes, water testing kits, compasses, magnifying lens, secchi disk and thermometers. Refuge staff host 2-3 teacher workshops per year. Participants can receive Montana State OPI (Office of Public Instruction) credits for all workshops. University credit is occasionally offered. The workshops emphasize hands-on activities for students K-12. An environmental education resource library contains reference material, student activity lesson plans, videos and field kits.

In the Field: North Platte NWR
115 Railway Street, Suite C109, P.O. Box 1346
Scottsbluff, NE 69361-3190

Brad McKinney (308) 635-7851 Fax (308) 635-7841

Programs: Conservation through Art: Enviro Art is a dynamic program that integrates science and art curriculum. This non-traditional pairing of subjects crosses cultural, ethnic, and social lines to teach a greater awareness of national resources. The primary focus is on wetlands and waterfowl conservation principles. The program involves teacher training, classroom presentations, and artist/student workshops. It is available for K-12 students. Refuge staff are very involved with the Earth Stewards program.

In the Field: Audubon NWR
RR 1, P.O. Box 16
Coleharbor, ND 58531

Jackie Jacobson (701) 442-5474 Fax (701) 442-5546

Programs: Refuge staff has developed an educational activity book geared toward mid-level elementary school students. The book features a cartoon character named "Audy Bon Duck". Audy takes the students through crossword puzzles, word searches and many other activities. Fifteen backpacks, stuffed with wetland discovery tools, binoculars, field guides, and nets, are made available for teachers and students to use while on field trips to the Refuge. A teacher guide is currently being developed to use in conjunction with the packs. A computer and wildlife related software are being circulated through area 6th grade classrooms. Students use the computer/software in their free time and some teachers are beginning to incorporate the software programs into their lessons. The Refuge staff work with many Ducks Unlimited Chapters, sportsman's clubs, and local businesses to sponsor Greenwings Day -- an afternoon of educational programs for youth to learn about waterfowl and hunting. A nest box workshop is held each fall to celebrate National Wildlife Refuge Week. Scouts, 4-H groups, and individuals make boxes and learn about placing and maintaining the boxes in suitable habitats. Other Refuge opportunities include barge tours to nesting islands on Lake Audubon during the waterfowl nesting season, bird watching classes, University of Minnesota Raptor Center Programs, and a home page.

In the Field: North Dakota Ecological Services Division
1500 E. Capital Ave.
Bismarck, ND 58501

Karen Kreil (701) 250-4401 Fax: (701) 250-4400

Programs: The Ecological Services staff coordinates the loan of four education trunks for schools throughout North Dakota. Trunk topics include wetlands, neotropical migrants, prairies, and endangered species. The Bismarck staff developed the wetland, prairie, and endangered species trunks. A full-color poster was developed to accompany the endangered species trunk. The trunks contain a teacher's guide, models, activities, and games that are built around a two-week long teaching unit.

In the Field: Des Lacs NWR
P.O. Box 578
Kenmare, ND 58746-0578

Dan Severson: (701) 385-4046 ext.24 Fax: (701)385-3214

Programs: Responding to a need to help the public understand the value of fire management, an Education Guide to Great Plains Fire Ecology has been developed by Refuge

staff and a private contractor. Written for students in the 7th -12th grades, this Refuge-specific guide helps students learn about the historic role of fire on the prairies and the role of prescribed fire today. While the guide directs users to certain locations at the Refuge for their studies, the information is general enough that the guide can be adapted for use at other Refuges. Eco-Education Day, an annual program for 6th graders, explores wetland and wildlife values through interactive and hands-on demonstrations.

In the Field: Garrison Dam NFH, Riverdale, ND
Contact: Rob Holm
(701) 654-7451

In the Field: J. Clark Salyer NWR
P.O. Box 66
Upham, ND 58789
Gary Erickson (701) 768-2548 Fax: (701) 768-2834

Program: Refuge staff offer a unique tour of a canoe, scenic, or grassland trail through a World Wide Web Homepage. Mortimer the Muskrat leads groups on a canoe tour that provides a general overview of the Refuge, while the scenic and grassland trails offer a look at other Refuge habitats and associated wildlife. Through this web site, the trails have been visited by folks from across the U.S. and around the world. In October and November 1996, the homepage was accessed over 1840 times, including 13 “visits” from foreign countries. That is more visitors than the Refuge actually receives in several months combined.
<http://jclarksalyer.fws.gov>

In the Field: Long Lake NWR, Moffit, ND
Contact: Wendy Wollmuth (701) 387-4397

In the Field: Sullys Hill National Game Preserve (Devils Lake WMD), Devils Lake, ND
Contact: Joe Maxwell (701) 766-4272

Programs: Preserve staff have developed a Regional Conservation Learning Center which includes a visitor center with bookstore and displays, two classrooms, an amphitheater, nature and cross country skiing trails, an auto route, overlooks, and various interpretive signs. The Refuge hosts various conservation-orientated workshops and programming for families, classes for teachers, and a host of activities for youth. Youth activities include outdoor studies; classroom learning curriculum; guided tours and programs; teacher led programs; and day camps for 4-H, scouts, and school groups. Curriculum specific to Sullys Hill Preserve was developed by a cooperative education student and combines lessons on Native American heritage and wildlife. Local school students have raised money for educational supplies for the classroom through the Kids for Sullys Hill program.

In the Field: Tewaukon NWR, Cayuge, ND
Kristine Askerooth (701) 724-3598

In the Field: Valley City NWR (Arrowwood NWR Complex), Valley City, ND
Lynda Knutsen (701) 845-3466

In the Field: D.C. Booth Historic NFH, Spearfish, SD
Steve Brimm (605)642-7730

In the Field: Gavins Point NFH, Yangton, SD
Herb Bollig (605)665-3352

In the Field: Huron Wetland Management District, Huron, SD
Karrie Schmidt (605)352-5894

Programs: Educators in the Workplace is designed for teachers to better understand various job requirements of local Service employees. These workshops will allow curricula on careers to be developed for students as they prepare for their future career decisions. A job shadowing program, set up by the local career learning center, allows 9th graders to shadow Refuge staff for about 2-3 hours on one day a year. This program allows the staff a chance to talk about the many and varied opportunities with the Service -- from managers, to biologists, to fire control officers, to maintenance, to law enforcement, to fisheries, to clerks and bookkeepers, to archeologists and hydrologists. An annual Water Festival, co-sponsored by the Refuge and the local Conservation District, is designed for 4th graders from surrounding communities. The program uses hands-on examples to show the value of wetlands through flood prevention and control, and filtration buffers.

In the Field: Madison Wetland Management District, Madison, SD
Tom Tornow (605)256-2974

Programs: Project O.W.L. (Outdoor Wildlife Laboratory) is a mobile outdoor classroom that is available for schools, local water festivals, and conservation groups within the WMD. It includes spotting scopes, binoculars, owl pellet kits, water testing kits, and microscopes. Hooked on Fishing, Not on Drugs, in partnership with South Dakota State University Cooperative Extension Service and the South Dakota Game, Fish and Parks Department, combines environmental awareness, visual arts, sportsmanship, and fun for young fishers between the ages of 8 and 19. Project WILD teacher workshops are offered to area schools and YMCA's where participants learn how to incorporate environmental education into their curriculum. Wetland, prairie, and furs and skulls trunks focus on wetlands and their importance in the landscape, native prairies and their inhabitants, and hands-on fur and skull samples. These educational materials are available for loan. The trunks include teacher's guides, activities, puppets, board games, storyboards, and reference materials.

In the Field: Sand Lake NWR, Columbia, SD
Beth Ullenburg (605)885-6320

In the Field: Waubay NWR, Waubay, SD
Laura Hubers or Connie Mueller (605)947-4521

In the Field: Bear River Migratory Bird Refuge, Brigham City, UT
Betsy Beneke (435) 723-5887

Programs: Refuge staff encourages young people (grades k-8) to become more interested in migratory birds through a Bird Banner contest. The contest is pitched as a way for the young people to teach the entire community about birds. The banners are made of Tyvek and permanent ink markers and are hung from the light posts on Main Street. An after-school club, Young Friends of the Bear River Refuge, meet regularly and work on a variety of projects. They recently made a film

about the refuge that won the State's "innovation award". Linking Communities, Wetlands and Migratory Birds is a program sponsored by Wetlands International and funded by a NAFTA grant. The project connects schools at three sites (Chaplin Lakes, Saskatchewan; Great Salt Lake, Utah; and Marismas Nacionales, Mexico) which share the same populations of shorebirds at different times of the year. The students will exchange information about their homes and schools and about the habits of the American avocet while it is at their site. Bats Eat Mosquitoes allow 7th grade students to explore issues and possible solutions to mosquito abatement issues. The students also build bat houses for the mosquito abatement district to distribute. Frog surveys are conducted by 7th graders to survey frogs on the Refuge using the national protocol designed by Patuxent Wildlife Research Center. The students learn about frog biology, environmental contaminants, and sampling techniques. Refuge biologists explain swan management and conservation issues surrounding trumpeter swan recovery and tundra swan hunting. Teacher-led programs on swans prepare students for a visit to the Refuge. How are Birds Different? is a slide program that explores different adaptations of birds, with the emphasis on feet and beaks. Wetland education trunks contain field trip supplies such as waders, dip nets, water sampling equipment, field guides, binoculars and other sampling equipment. A teacher's guide and an activity guide provide both class and field exercises.

In the Field: Ouray National Wildlife Refuge, Vernal, UT
(435) 545-2522

Programs: An annual spring Open House includes numerous hands-on activity stations along the auto tour route. Topics include wetlands, migratory birds, endangered fish, wetland insects, habitats, and the National Wildlife Refuge system. This is an interagency effort. The PAWS-ON program introduces all school students (K-12) to careers in agriculture and natural resources. Refuge staff demonstrates Service careers and teach about wildlife biology and management.

In the Field: Jackson National Fish Hatchery, Jackson, WY
Kerry Grande (307) 733-2510

Programs: In partnership with five different organizations, the Hatchery staff sponsor a National Fishing Day celebration using the Pathways to Fishing program. Seven learning stations teach ethics, gear and tackle, fish handling and releasing or cleaning, aquatic invertebrates, knot tying, water safety, and locating fish. Staff are constructing a multi-use pond which will be primarily used for fishing and wildlife viewing. An accessible boardwalk, fishing platforms, fish and wildlife viewing areas, and an outdoor classroom will be constructed around the pond. Originally intended for the local nursing home residents and the mentally/physically disabled, the pond will be open to the general public during hatchery hours on a permit basis. Fishing events, celebrations, and outdoor classes will be held on site.

In the Field: National Elk Refuge, Jackson, WY
Jim Griffin (307) 733-9212, ext. 227

Programs: Winter sleigh rides take visitors up close and personal to the elk wintering in the Jackson Hole valley. Interpreters on the sleigh rides educate visitors about the Greater Yellowstone Ecosystem and the elk. Environmental education programs are presented at the schools, or children can go to the "outdoor classroom" portion of the Refuge set aside for this purpose. Teachers are provided with an Elk and

Elk Refuge Study Guide to help them with their teaching.

In the Field: Fisheries- Tribal Technical Assistance Program
P.O.Box 61
Lewistown, MT 59457

Jane Roybal (406) 538-2391 Fax (406) 538-8359

Programs: Developing education boxes, tribal partners program for prairie conservation, and brochures and educational materials.

In the Field: Upper Souris NWR, Foxholm, ND
Duane Anderson (701)-468-5467

Programs: The refuge works with several organizations to organize the Mouse River Loop Envirothon in North Dakota. This regional envirothon has been used as a model for the development of other regional envirothon events within the state. The main objective is to combine in-class curriculum with hands-on field experience that deals with environmental issues concerning the management of natural resources. This is accomplished by working with numerous partners and the national Canon Envirothon format to create a positive event for students and teachers in a multi-county area.

The event is open to students between the ages of 15-18 years old and science and vocational teachers at the high school level. The event generally reaches approximately 100 students and 20 teachers with this educational event as well as partners and volunteers.

The national Envirothon program, is a competitive, problem-solving event which helps students learn about the natural resources of their world. It also assists students in making wise decisions about the issues affecting natural resources and the environment. Teachers prepare the students prior to the event and assist the students during the event. The project partners contact schools to gain acceptance and participation of teachers and students, to design the 1-day event, and provide materials to students and teachers to increase their knowledge and prepare for the event.

Region 7-Environmental Education Coordinator

USFWS, Division of External Affairs
1011 E. Tudor Road
Anchorage, AK 99503
Kevin Painter (907) 786-7653

Programs: “Learn About Seabirds,” “Arctic Nesting Shorebirds,” “Wetlands and Wildlife,” and “Role of Fire in Alaska” curricula, curriculum-kits, teacher workshops.
Alaska Waterfowl Calendar
Dave Patterson, Refuges, Scout Coordinator (907)786-3389

In the Field: Fairbanks Fisheries Resources Office
1012 12th Ave
P.O. Box 17 Room 222
Fairbanks, AK 99701

- Laurel Devaney (907)456-0558 Fax:(907)456-0454
- Programs:** Fisheries/ aquatic ed. kits, educator guides, science camps, teacher workshops, Adopt-A-Steam. Great resource for Fisheries education
- In the Field:** Tetlin NWR
P.O. Box 779
Tok, AK 99780
Mary Timm (907)883-5312 Fax:(907)553-5747
- Programs:** Educator program, summer camps
- In the Field:** Kenai NWR
P.O. Box 2139
Soldotna, AK 99669-2139
Nicole Johnson (907)262-7021 Fax:(907)262-3599
- Programs:** The environmental education program is filled with a variety of tools including field trips led by refuge staff and SCA volunteers, interpretive programs, kits and supplies available for teacher checkout, integrated environmental education activities with Youth Conservation Corp, a junior ranger program, a junior explorer program, and an outdoor education center that is available by a special use permit.
- In the Field:** Kodiak NWR
1390 Buskin River Rd.
Kodiak, AK 99615
Cheryl Nugent (907)487-2600 Fax:(907)487-2144
- Programs:** One week salmon summer camps for 5-6, 7-8 and 11-12 yr olds; classrooms presentations, field trips, whale feast in May.
- In the Field:** Alaska Maritime NWR
2355 Kachemak Bay Drive, Suite 101
Homer, AK 99603
Poppy Benson (907)226-1227 Fax:(907)235-7783
- Programs:** Native Stewardship summer camps, field trips using shorebird and seabird curricula, Kachemak Bay Shorebird Festival, Shorebird Sister Schools.
- In the Field:** Koyukuk/Nowitna NWR
P.O. Box 287
Galena, AK 99741
Karin Lehmkuhl (907) 656-1231 Fax (907) 656-1708
- Programs:** Education programs in village schools, community outreach special events, summer day-camps, teaching-kits and resource library materials available to loan (in Alaska only).
- In the Field:** Yukon Delta NWR
PO Box 346
Bethel, Alaska, 99559
Donna L. Hanley (907) 543-1015 Fax: (907) 543-4413
- Programs:** Refuge related wildlife curricula covering moose, salmon, migratory birds, shorebirds, lead shot poisoning and tundra protection. Classroom fish, bird and tundra kits, Refuge Information Technician program, teacher workshops, FWS

Teacher Training Institute, guided bird and plant walks, annual International Migratory Bird Day celebrations, visitor center and museum.

In the Field: Arctic NWR
101 12th Ave., Room 236, Box 20
Fairbanks, AK 99701
Cathy Curby (907)456-0500 Fax:(907)456-0428

Programs: Classroom and web-based environmental education programs

8. Electronic Field Trips Delivered Via Satellite or Webcast
Please Note: Interactive only on dates specified.

<http://www.imbd.org>

International Migratory Bird Day Broadcast.....April 23, 2004....1:00-2:30 PM EST

<http://www.efieldtrips.org/Shorebirds/index.htm>

Shorebirds on the Move....Come Migrate With Us!.....April 28-30, 2003

Your students can e-mail questions directly to the experts at the U.S. Fish and Wildlife Service! The experts will be accepting questions via e-mail April 28-30, 2003.

Please allow 1-2 days for a reply.

<http://www.wildthingsFWS.org>

Wild Things 2002: Habitat is Home Sweet Home.....October 2, 2003....1:00-2:30 PM EST

<http://www.tpwd.state.tx.us/expltx/eft/>

Texas Parks and Wildlife Department.....Fall 2003 (To be announced)

9. Electronic Field Trips for Environmental Education and Distance Learning Resources

<http://www.windowsintowonderland.org/>

Yellowstone National Park: NPS

<http://shorebirds.pwnet.org>

Winging Northward: A Shorebirds Journey

<http://www.nationalgeographic.com/geographyaction/>

National Geographic: Geography Action! 2003

Habitats: Home Sweet Home

<http://www.sd5.k12.mt.us/glaciareft/>

Glacier National Park

<http://www.blm.gov/education/>

Environmental Education Resources: BLM

<http://www.greentreks.org>

GreenWorks.tv: Environmental Fund for Pennsylvania

<http://www.learner.org/jnorth>

Journey North: Whooping Crane and other Migrations

<http://video.fws.gov/>

U. S. Fish and Wildlife Service video segments

<http://commtechlab.msu.edu/sites/letsnet/frames/bigideas/b1/index.html>

Electronic Field Trips: Theoretical Rationale

<http://www.apple.com/creative/stories/webcasting/>

Live Webcasting: Apple Corporation

<http://www.nps.gov/webrangers>

National Park Service: Web Rangers

<http://www.efieldtrips.org/>

Electronic field trips and virtual visits sponsored by NPS, FWS, BLM, and others.