

O R E G O N T R O U T

METRO - USFWS
Greenspaces Environmental Education Grant

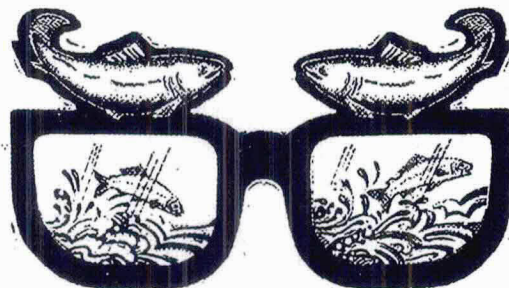
Salmon Watch 1997

Metro Contract Number: 905419

Project Contact: Rebecca Martin, Director of Education

Program Description: Salmon Watch is a collaborative, field based environmental education program for middle and high school classrooms in Oregon. The program teaches youth about the importance of watershed stewardship using salmon as an indicator of watershed health. Through classroom instruction, field experience, and community service projects, Salmon Watch instills in youth a sense of value for our Northwest natural resources. Students gain an appreciation for watersheds by visiting a local river or stream in the fall where they conduct a thorough watershed field assessment. More than 10,000 students, 300 teachers, and 1,000 volunteers have participated in Salmon Watch over the past five years.

Program Significance: Salmon Watch provides an opportunity for urban students to gain a personal connection to the natural environment. By involving professionals from diverse organizations, Salmon Watch provides participants with an understanding of the importance of collaborative problem solving in watershed conservation. In addition, students learn that they can contribute to improving the health of a local watershed.



To Protect and Restore Native Fish and their Ecosystems



Salmon Watch Timeline

Wild Fish, Watersheds, and Stewardship

A SALMON WATCH SEASON

Training (July-September)

Teachers and volunteers participate in an all-day Saturday field orientation/training session during the summer in preparation for their Salmon Watch field trips and community projects. These trainings are presented by specialists from partnering agencies, schools, and organizations. In 1997, 10 trainings were offered throughout the state with 3 trainings held at Metro's Oxbow Park. All of the trainings used field equipment purchased with the Metro grant, assisting more than 100 teachers and volunteers in learning watershed assessment techniques.



Classroom Instruction (September - November)

After attending a training session during the summer, teachers present the Salmon Watch curriculum to students in the classroom during the fall. The interdisciplinary curriculum incorporates numerous specific curriculum content requirements mandated by the Oregon Curriculum Content Framework.

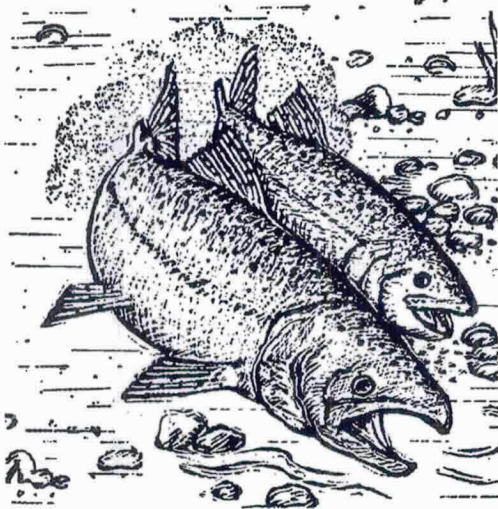
Field Trips (September - November)

Salmon Watch field trips feature a nature walk, observation of spawning salmon, and Native American story telling. Students discuss the relationship between man's activities and effects on salmon and ways to accommodate both. They also study aquatic insects and participate in water quality monitoring, spawning surveys and stream mapping.

Teachers, Oregon Trout staff, agency naturalists (including Metro), Native Americans, industry representatives, parents and other volunteers accompany students on their field trips. These diverse Salmon Watch participants enable students to interact with an assortment of positive adult role models, receive individualized attention and hear differing perspectives about the plight of the salmon.

Field equipment purchased with the Metro grant was used on approximately 20 school field trips in the Portland area, reaching 600 students. In addition, the equipment was used during a new salmon education pilot program with 25 Boy Scouts.

Student Service Learning Projects (October – May)



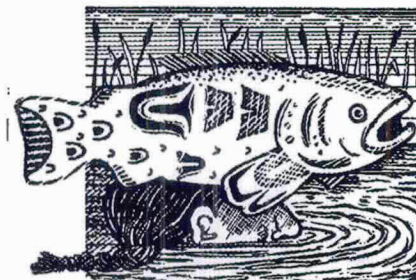
Students are required as a part of Salmon Watch to participate in a community service project during the school year. Working often with teachers, volunteers and/or agency experts, students engage in local projects that benefit wild salmon and the watersheds that sustain them.

Student projects are designed to engage and channel student enthusiasm, creativity and initiative to benefit wild salmon and/or its native habitat. Projects include a broad range of activities including stream restoration efforts, teaching younger children about salmon, educational exhibits, and art projects. Metro field equipment is available to classrooms for use in their service learning projects.

Program Evaluation

Every teacher and volunteer who participates in Salmon Watch is given an annual program evaluation form to complete and return to Oregon Trout as well as a training evaluation. We received very positive feedback from our teachers and volunteers in 1997, several examples are included. One teacher remarked that one of his students solidified his plans to pursue a fish and wildlife degree while attending a Salmon Watch field trip. The field equipment provided by Metro allows students to gain practical biological assessment experience. That experience, coupled with meeting professionals working in the environmental and natural resource fields, provides students with excellent resources for career planning.

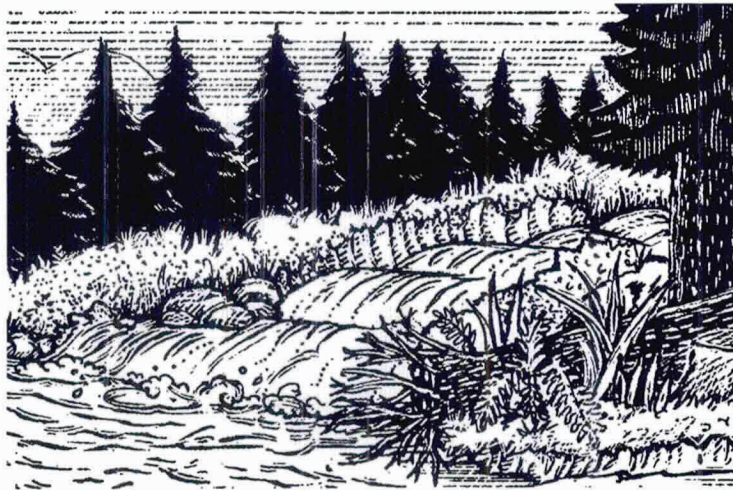
In particular, the purchasing of our field equipment was done with great care. We requested advice from agency professionals and teachers regarding what equipment they find the most useful in the field and working with student groups. In addition, we were able to receive several items at just above the wholesale cost, allowing our dollars to go further. We created eight complete field assessment kits and have since developed a wish list for additional equipment to expand the kits' capacity. Our lessons learned include creating a workable check out system and process for replacing broken items.



PROGRAM EXPANSION:

Salmon Watch is currently undergoing evaluation to determine the most suitable means for program expansion. Oregon Trout and our partners are hoping to expand the program to be statewide over the next few years. Salmon Watch has grown over the past five years to seven times its original size and the demand for the program continues to grow.

The ability to purchase field equipment for the Portland-Metro area has enabled us to permanently support field based watershed education in the region. We anticipate that the use of the equipment will become increasingly popular. In addition, the Metro - USFWS funds allowed us to leverage additional dollars from Salmon Watch partners in other communities and provide similar equipment support to classrooms in all of our hubs.



Artwork courtesy of Adriana Martinez

SALMON WATCH 1997

Environmental education for a sustainable tomorrow

Annual Fall Report

SUMMARY OF PROGRAM

Salmon Watch teaches the next generation of decision-makers the importance of wild fish conservation in watershed management. The program is designed to instill in students and other participants a deeper appreciation of the value of their natural heritage and the importance of being well-informed and responsible citizens.

Salmon Watch includes teacher and volunteer training, classroom instruction, fall field trips to observe wild salmon spawning and monitor local watersheds, and student community service projects. Since its inception in 1993, Salmon Watch has reached more than 9,000 students from the Portland, Eugene/Springfield, Corvallis and Medford areas.

UNIQUE PUBLIC AND PRIVATE PARTNERSHIP

Oregon Trout's Salmon Watch partners work collaboratively to provide resources and financial support for the program. Partners for Salmon Watch 1997 include: U.S. Forest Service, Oregon State University Department of Fisheries & Wildlife, Portland State University Center for Science Education, METRO Regional Parks & Greenspaces, Portland General Electric Company, Eugene Water & Electric Board, Oregon Department of Fish and Wildlife, Bonneville Power Administration, Northwest Power Planning Council, PacifiCorp, Oregon Chapter of the American Fisheries Society, Oregon Department of Education, Bureau of Land Management, U.S. Fish & Wildlife Service, Oregon Department of Water Resources, Weyerhaeuser, Columbia River Inter-Tribal Fish Commission, Willamette Industries, Governor's Watershed Enhancement Board, Oregon Department of Environmental Quality, Pacific States Marine Fisheries Commission, AmeriCorps/Northwest Service Academy, and Oregon Sea Grant.

1997 FIELD SEASON ACCOMPLISHMENTS

The following is a summary of achievement from the 1997 Salmon Watch field trip and training season as reported by participating teachers and volunteers.

<u>FIELD TRIPS</u>	<u>Trips</u>	<u>Teachers</u>		<u>Students</u>	<u>Volunteers</u>	<u># schools</u>
Portland	45	15 new	30 returning	1350	128	35
Corvallis	14	10 new	4 returning	420	54	10
Eugene	24	8 new	16 returning	720	91	14
Medford	9	9 new		275	32	8
TOTAL	92	42 new	50 returning	2765	305	67

Please note that teachers often teach the Salmon Watch curriculum to more than 100 students. These numbers represent students attending the field trip component of the program.

VOLUNTEER HOURS

Field trips	2920 hours
Training	1365 hours
Steering Committees	350 hours
<hr/>	
Total	4635 hours

SERVICE LEARNING PROJECTS

Community service projects are nearing completion. Several classrooms participated in community outreach projects including developing a web site, teaching other students at their school about salmon through presentations and bulletin boards, and stenciling storm drains warning of the hazards of dumping waste to local watersheds. Many classrooms have taken part in restoration activities at local streams or in their watershed.

Evaluations of these projects are currently being completed and received. A summary of these projects will be available in the summer of 1998.

SALMON SCOUT PROGRAM

This fall, two boy scout troops from the Pioneer District participated in a pilot scout program. Two scoutmasters instructed their troops in salmon biology and watershed issues during troop meetings and field experiences. Twenty-two of the scouts and fourteen adults then spent a weekend conducting field studies and participating in a community service project on tributaries of the Nestucca River. The Bureau of Land Management, Oregon Trout, and the Pioneer District of the Boy Scouts all contributed to the success of this endeavor. Program revisions are currently underway and an expansion of the pilot program will occur within the Pioneer District in 1998.

SALMON WATCH IN 1998

Salmon Watch plans to continue to expand the program as a whole targeting 110 classrooms in 1998. Expansion will occur primarily in the Medford and Corvallis hubs. Continued growth of the volunteer program is also expected to occur. The program hopes to add an additional 50-100 volunteers (including Native Americans, community members, and fish biologists) in 1998 and enhance the volunteer component of Salmon Watch with a formal system for recognition of outstanding volunteers.



Please take the time to fill out this program evaluation form as completely as possible. Your candid and thoughtful comments will help us to improve the Salmon Watch program for future years. Please type or print clearly. NOTE: Reimbursement monies for buses and/or substitute teachers are contingent upon our receipt of this evaluation form.

Your name Teresa Whelan Today's Date 10-6-97
Name of School Marlham Adventure Name of Principal Michael Kelly
School Field Trip Date 9-23-97 Field Trip Site Salmon River #2
No. of Students who Participated 28 Age/Grade Levels 10-11 / 4th & 5th

Did you attend the 1997 Salmon Watch training? Yes _____ No ☒

In retrospect, how helpful was the training in preparing you for your field trip?
Excellent _____ Very Good _____ Good _____ Fair _____ Poor _____

Comments _____

How would you rate the quality of the 1997 Salmon Watch curriculum?
 Excellent ☒ Very Good ☐ Good ☐ Fair ☐ Poor ☐

How could the curriculum be improved in the future? (i.e. new ideas, organization etc.)

Which sections of the curriculum did you cover in the classroom prior to your field trip?

<input checked="" type="checkbox"/> Biology of Salmonids	<input type="checkbox"/> Life in the Stream
<input checked="" type="checkbox"/> Relation of Humans to their Environment	<input checked="" type="checkbox"/> Field Trip Preparation
<input type="checkbox"/> Student Community Service Projects	<input type="checkbox"/> Supplemental Resources

To Protect and Restore Native Fish and their Ecosystems



How would you rate the coordination of Salmon Watch 1997 by Oregon Trout staff?

Excellent ☒ Very Good ___ Good ___ Fair ___ Poor ___

Comments _____

Were you a part of the 1997 Salmon Watch teacher mentor program?

Yes ___ No ☒ *No one contacted me*

If so, how would you rate the quality of your mentor/mentee relationship?

Excellent ___ Very Good ___ Good ___ Fair ___ Poor ___

Comments _____

FIELD TRIP

Names of the Salmon Watch volunteers who participated on your field trip:

<i>Jim Martin</i>	<i>Darryl Klein</i>
<i>Jim Myron</i>	<i>Mary Klein</i>
<i>Gary Christofferson</i>	
<i>Jeff Uebel</i>	

Names of parent volunteers who participated in your field trip who may wish to volunteer for Salmon Watch in the future (phone numbers are helpful if they are available):

Have you sent thank you notes to all of your Salmon Watch 1997 field trip participants?

Yes ☒ No ___ (If not, please do so as soon as possible!!)

What were the weather conditions on the day of your field trip?

Sunny ☒ Cloudy ☒ Rainy ___ Snowy ___ Windy ___ Hot ___ Cold ___

Cool ☒

(in the AM)

How was the quality of salmon viewing conditions on your field trip?

Excellent ☒ Very Good ___ Good ___ Fair ___ Poor ___

Approximate number of spawning salmon sighted on your field trip?

Alive 5 Dead 2

If you participate in Salmon Watch in the future, would you be willing to take your students to the same site as you did this year? (We will use your response to this question when assigning sites for Salmon Watch 1998, please respond thoughtfully.)

Yes ☒ No ☐ Maybe ☐ I would prefer to do so please
If not, why not and where/when would you rather go?

How would you rate the contribution of the volunteers on your field trip?

Excellent ☒ Very Good ☐ Good ☐ Fair ☐ Poor ☐

Comments regarding agency experts, volunteers and Native Americans:

All volunteers where positive and enthusiastic
with my students. They were also very knowledgeable
and taught the kids a lot of info about
the salmon

Which part of your field trip did you enjoy the most/least?

Most: All of it - seeing the salmon spawn

Least: ?

Which part of your field trip do you believe your students enjoyed most/least?

Most: Salmon viewing and macro invertebrate ID

Least: ?

How do you plan to change the organization of your trip in the future?

I'd like to plan in more travel time for the
bus to and from the site.

How would you rate your students' overall reaction to the field trip?

Excellent ☒ Very Good ☐ Good ☐ Fair ☐ Poor ☐

Comments:

They all enjoyed it very much!

Do you believe that participation in Salmon Watch 1997 has affected your students attitudes toward watersheds, fish and their ecosystems?

Yes ☒ No ☐ Maybe ☐

Comments: They are more knowledgeable about the human / environment interactions as it pertains to salmon and salmon habitat

POST FIELD TRIP

Please describe the community service project(s) that you intend to organize or participate in with your students as part of Salmon Watch 1997? We are

in the process of organizing a community service project with neighborhood parents. We'd like to restore a creek in Southwest Portland. We hope to remove exotic plants, plant native plants and monitor the creek's water quality.

How can Oregon Trout staff better support you and your students in completing your community service project(s)? (We have several contacts who may be interested in working with your classroom.) Provide volunteers who would like to work with the students in the field and/or provide instruction in the classroom (i.e., developing a planting plan).

Would you be willing to write a letter of endorsement/support for the program?

yes

Are you interested in participating in Salmon Watch in 1998?

Definitely! yes! My ~~parent~~ partner teacher - Pat Washington is also interested.

Would you be willing to be a teacher mentor for a new teacher next year?

yes

Are you interested in helping in other ways next season such as training new volunteers or teachers, revising curriculum, recruiting new volunteers or teachers?

Possibly

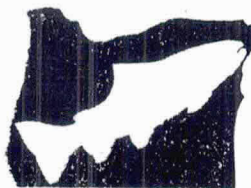
Please add any additional comments below.

Thank you for the opportunity to bring my kids into the field to learn about salmon and their habitat, and to work with experts in the field.

Thank you for your support of the program!

fish creek at Crestwood Park

repaired 1/14



Reimbursement 10/20

O R E G O N T R O U

SALMON WATCH 1997 TEACHER PROGRAM EVALUATION FORM

Please take the time to fill out this program evaluation form as completely as possible. Your candid and thoughtful comments will help us to improve the Salmon Watch program for future years. Please type or print clearly. NOTE: Reimbursement monies for buses and/or substitute teachers are contingent upon our receipt of this evaluation form.

Your name Peggy Potter

Today's Date Oct 2, 97

Name of School H.B. Lee H.S.

Name of Principal Dr. Terry Brown

Field Trip Date Sept. 25, 97

Field Trip Site Salmon River #1

No. of Students who Participated 26

Age/Grade Levels 6

PRE-FIELD TRIP ACTIVITIES

Did you attend the 1997 Salmon Watch training? Yes ☒ No ☐

In retrospect, how helpful was the training in preparing you for your field trip?

Excellent ☐ Very Good ☒ Good ☐ Fair ☐ Poor ☐

Comments

The hardest part of the trip - was getting
and of the volunteers.

How would you rate the quality of the 1997 Salmon Watch curriculum?

Excellent ☒ Very Good ☐ Good ☐ Fair ☐ Poor ☐

How could the curriculum be improved in the future? (i.e. new ideas, organization etc.)

focused towards elementary - (upper intermediate)

Which sections of the curriculum did you cover in the classroom prior to your field trip?

☐ Biology of Salmonids
☒ Relation of Humans to their Environment
☐ Student Community Service Projects

☒ Life in the Stream
☒ Field Trip Preparation
☒ Supplemental Resources

MORE ON REVERSE

To Protect and Restore Native Fish and their Ecosystems



How would you rate the coordination of Salmon Watch 1997 by Oregon Trout staff?

Excellent ☒ Very Good ___ Good ___ Fair ___ Poor ___

Comments

A nice bunch of folks!

Were you a part of the 1997 Salmon Watch teacher mentor program?

Yes ___ No ☒

If so, how would you rate the quality of your mentor/mentee relationship?

Excellent ___ Very Good ___ Good ___ Fair ___ Poor ___

Comments

My mentor, Craig Wright, was so wonderful & helpful!
Thanks.

FIELD TRIP

Names of the Salmon Watch volunteers who participated on your field trip:

<u>Brian Barr</u>	<u>Morgan Goodwin</u>
<u>Georgia Bosse</u>	
<u>Michael Terlin</u>	
<u>Maryle Doyle</u>	

Names of parent volunteers who participated in your field trip who may wish to volunteer for Salmon Watch in the future (phone numbers are helpful if they are available):

<u>Katie Potter</u>	<u>Sue Anderson</u>
<u>Cheryle Scott</u>	<u>Jeff Brown</u>

I had 8 parents total -! :)

Have you sent thank you notes to all of your Salmon Watch 1997 field trip participants?

Yes ☒ No ___ (If not, please do so as soon as possible!!)

A perfect day!

What were the weather conditions on the day of your field trip?

Sunny ☒ Cloudy ___ Rainy ___ Snowy ___ Windy ___ Hot ___ Cold ___

How was the quality of salmon viewing conditions on your field trip?

Excellent ☒ Very Good ___ Good ___ Fair ___ Poor ___

Approximate number of spawning salmon sighted on your field trip?

Alive 3 or 4 Dead 1

① Steelhead / brogue!

If you participate in Salmon Watch in the future, would you be willing to take your students to the same site as you did this year? (We will use your response to this question when assigning sites for Salmon Watch 1998, please respond thoughtfully.)

Yes ☒ No ☐ Maybe ☐

If not, why not and where/when would you rather go?

How would you rate the contribution of the volunteers on your field trip?

Excellent ☒ Very Good ☐ Good ☐ Fair ☐ Poor ☐

Comments regarding agency experts, volunteers and Native Americans:

These people were just great, very good with the age group I took.
Extra kudos to - Meryl Dole & Brian Barr!!

Which part of your field trip did you enjoy the most/least?

Most: We actually watch the salmon for along time.

Least: leaving " —

Which part of your field trip do you believe your students enjoyed most/least?

Most: Seeing the salmon - & just being in the woods
Least: leaving —

How do you plan to change the organization of your trip in the future?

plan to leave earlier than 9:15 —

How would you rate your students' overall reaction to the field trip?

Excellent ☒ Very Good ☐ Good ☐ Fair ☐ Poor ☐

Comments:

My kids are still talking about the day!
This was a great bonding trip.

Do you believe that participation in Salmon Watch 1997 has affected your students attitudes toward watersheds, fish and their ecosystems?

Yes X No _____ Maybe _____

Comments:

They are so interested in salmon now.

POST FIELD TRIP

Please describe the community service project(s) that you intend to organize or participate in with your students as part of Salmon Watch 1997? _____

Not sure yet.

How can Oregon Trout staff better support you and your students in completing your community service project(s)? (We have several contacts who may be interested in working with your classroom.) _____

Would you be willing to write a letter of endorsement/support for the program?

yes!!

Are you interested in participating in Salmon Watch in 1998?

yes!!

Would you be willing to be a teacher mentor for a new teacher next year?

yes!

Are you interested in helping in other ways next season such as training new volunteers or teachers, revising curriculum, recruiting new volunteers or teachers?

Sure~

Please add any additional comments below.

What a great program this is. I am very thankful that I was asked to participate thanks so much!

Thank you for your support of the program!