

**Metro Greenspaces 1999  
Salmonid Education and Enhancement Grant**

**FINAL REPORT  
June 1, 2000**

**Submitted by  
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**Summary of Project:**

The Environmental Information Cooperative planned and coordinated a two day water festival in the fall of 1999. The Columbia River Watershed Festival was an outdoor environmental education event for 32 fourth and fifth-grade classes in Clark County. Participants included teachers involved in the Salmon in the Classroom Program, a salmon rearing project involving a 55-gallon classroom aquarium, teachers planning to join the Salmon in the Classroom Program, and teachers seeking creative ideas on how to integrate environmental education in their existing curricula. Classes were bused to the Water Education Resources Center in Vancouver, where they spent two hours at the Festival. Students and teachers had an opportunity to participate in hands-on activities and interactive presentations about fish and wildlife habitats, water quality, macroinvertebrate sampling and identification, fish species identification, fishing, groundwater flow, water conservation, recycling and waste reduction, water cycle and water use, air quality and public transportation, naturescaping, and natural resource appreciation. A block schedule will enable each class to experience three-to-four of the 25 or so activity stations. Activity stations were staffed by environmental educators and volunteers from local and regional public agencies, stewardship groups, businesses, and service programs.

Participating teachers and other educators attended a one-day "Salmon Go To School" workshop following the Festival to help them integrate the activities and concepts, learned at the Festival and the workshop, into their existing curricula. Teachers received free curriculum guides, handouts, and local resources and were offered clock hour credit for participation in the workshop.

**Background:**

The Environmental Information Cooperative (EIC) is a shared effort of six partners to encourage environmental stewardship of our land and resources and provide environmental information and education to the community of Clark County, Washington. The partners include: City of Vancouver, Clark County, Clark Public Utilities, WSU Vancouver, WSU Cooperative Extension, and SW Air Pollution Control Authority. The EIC has been providing environmental information and education services to the citizens of Clark County for over seven years.

With the recent listing of the wild steelhead as an endangered and threatened species under the Endangered Species Act, the EIC and its partners included raising public awareness about declining fish populations and fish habitat to their list of educational issues to address. This grant assisted the EIC with its on-going commitment to provide quality information by offering an event that educated students and teachers about issues and problems involving the ESA, fish and wildlife habitats, and natural resource conservation and protection. The Festival provided attendees with tools to help them identify healthier actions that can be taken to change their own behaviors and contribute to a healthier environment.

Funds from the Greenspaces Salmonid Education and Enhancement Grant helped to support two 1999 programs sponsored by the Environmental Cooperative (EIC): the Columbia River Watershed Festival and the Salmon Go To School teacher training workshop. These programs are described separately and in further detail as follows:

## **I. Columbia River Watershed Festival**

The 1999 Columbia River Watershed Festival evolved from the Salmon Creek Festival, a site specific water festival sponsored primarily by Clark Public Utilities. Different from the previous festivals, the 1999 event was equally planned and implemented by four partners: the EIC, City of Vancouver, Clark County, and Clark Public Utilities. The new name reflects the decision to rotate the festival around Clark County watersheds.

Through hands-on activities and presentations, students learned about the benefits of watershed enhancement, local salmon recovery efforts and other water issues. They participated in a celebration of community and natural resources – fish and wildlife habitats, and populations. Multiple partners, both public and private, collaborated to deliver environmental programming that was mutually beneficial, avoided duplication of services and demonstrated the collective power to create change.

**Planning:** Planning for the Festival began in November 1998 with a draft workplan, budget, and timeline being developed by EIC staff. In January 1999 the program planning committee, comprised of six representatives from the four partnering agencies, met to review the drafts presented by EIC staff and discuss options for dates and presenters. A review of previous evaluations had shown a preference for an earlier date in hopes of better weather conditions. The festivals occurred rain or shine, and although the activities occurred in covered tents, participants rotated from activity to activity between the various tents and were often running to avoid rain showers. A second decision was made to change the name of the teacher workshop from "Salmon in the Classroom" to "Salmon Go To School." This decision was made to avoid confusion with the statewide salmon-rearing program or the Clark Public Utilities' aquarium placement program. Because of the scope of this project, other tasks were assigned to the various EIC partners. EIC staff, in addition to specific tasks, was assigned the role of "task master," monitoring the planning progress.

**Assigned Responsibilities:** EIC staff coordinated the project. EIC partners included the City of Vancouver, Clark County, Clark Public Utilities, Southwest Air Pollution Control Authority, WSU Cooperative Extension, and WSU Vancouver. Representatives from the six partners had various roles: developing and staffing Festival activity stations; providing volunteers for Festival operations; promoting the Festival; serving as trainers for the Salmon in the Classroom workshop; providing a facility for the Workshop; providing resources for distribution at the Festival and Workshop; providing office space for operation of EIC; and, providing bus transportation for elementary classes to the Festival.

Community partners provided other support including presenters, volunteers, educational materials, and other services for the Festival and Workshop. Community partners included:

- Bonneville Dam Visitors Center
- C-TRAN, Clark County Conservation District
- Clark County Marine Patrol, Educational Service District 112
- Fort Vancouver Regional Library
- Habitat Partners
- Lewis River Fish Hatchery
- Master Composter/Recycler Program
- National Marine Fisheries Service

- Northwest Natural, Northwest Service Academy/AmeriCorps
- Sierra Club
- U.S. Coast Guard
- U.S.D.A. Forest Service
- Vancouver Audubon Society
- Vancouver/Clark Parks and Recreation
- Washington Department of Fish & Wildlife
- Water Resources Education Center

School districts in Clark County were asked to make both the Festival and the teacher training workshop a priority by supporting teacher participation in both events. Elementary teachers were asked to participate on a planning committee for the Festival and identify instructional and resource needs for the Workshop. District transportation directors were asked to help plan the bussing of students to Salmon Creek Park for the Festival.

A table representing the project and the timelines is presented in the appendix. Refer to Item # 1.

Promotion: Washington State mandates that environmental education be integrated across the K-12 curriculum (WA Administrative Code 180-50-115). Participation the Watershed Festival and the follow-up Salmon Go To School teacher workshop, to learn how to integrate salmon education, habitat enhancement and related issues and concepts into existing curricula, assisted teachers in meeting this mandate.

Information was distributed to all 4<sup>th</sup> and 5<sup>th</sup> grade teachers in the Clark County area through the *Greenlines*, a monthly newsletter produced by the EIC. The information described the upcoming festival and workshop and their value in helping to meet the state mandate. As an additional incentive, monies (received in part through this grant) were made available to pay for substitute teacher reimbursement for teachers who participated in a follow-up workshop.

Location/Dates: The Festival was held on Tuesday, September 21 and Wednesday, September 22, 1999 at Marine Park along the Columbia River and adjacent to the City of Vancouver, Water Resources Education Center. This location, several acres of natural, wooded grounds overlooking the Columbia River and its adjoining wetlands, was a natural compliment for the information that was presented.

Presenters/Volunteers: Fifty presenters from 26 participating agencies and organizations led the student activities at 27 stations located throughout the site. Over 100 volunteers were recruited to serve as class guides, assist presenters, direct parking and oversee first-aid, check-in, and information centers.

Audience Served: The Festival was directed at students and teachers in fourth and fifth-grade classes in Clark County schools. Almost 2000 students from 32 different schools participated. Teacher participants included 1) teachers involved in the Salmon in the Classroom Program, a salmon rearing project involving a 55-gallon classroom aquarium, 2) teachers planning to join the Salmon in the Classroom program, and 3) teachers seeking creative ideas on how to integrate environmental education in their existing curricula.

The Program: Classes were bused to the Water Resource Education Center according to a prescribed schedule that staggered arrival times. Each class spent a two-hour period of

time participating in 3 to 4 different activities. Each activity station was developed and staffed by volunteer educators from local and public agencies, stewardship groups, businesses and service programs.

Stations included hands-on activities and interactive presentations about fish and wildlife habitats, water quality, macroinvertebrate sampling and identification, fish species identification, fishing, groundwater flow, water conservation, recycling and waste reduction, water cycle and water use, air quality and public transportation, naturescaping, and natural resource appreciation.

Volunteers directed parking, provided refreshments, staffed the information and first aid stations, assisted presenters, and served as class guides.

Evaluation: The immediate success of the Festival was measured by the number of classes, teachers, and students who attended the Festival, how many community partners participated in the Festival, and the feedback received from the festival evaluations distributed to all participants. The future success of this program will be evidenced by the increased support and results that enhanced watershed protection and salmon recovery efforts receive in Clark County.

The table on the following page provides a comparison of the 1999 Festival to those offered in previous years. In all prior years, the festival was planned to include a public day on Saturday. The 1999 Festival eliminated the public day because of previous poor attendance compared to the tremendous effort put forth on the part of presenters. A change was also made in the 1999 Festival schedule from the October date to September for a chance at better weather. This proved to be a good decision. We could not have asked for better weather.

*Evaluation Form Responses:* All participants were provided with an evaluation form and asked to evaluate the Festival. Forty evaluations were returned, most of which included comments in addition to the "Unsatisfactory" to "More than Satisfactory" range of responses requested. Three classrooms also responded with letters and/or pictures. A compilation of the evaluations received by attendees at the Festival is provided in the appendix. See Item # 2.

Identified Challenges: One identified challenge of the festival is the economy of cost of a bus ride for a two-hour experience. EIC staff and partners will be looking at different options for the Festival that might better utilize time and/or funds.

Another challenge has been a lack of substitutes in the school districts where teachers can be conscripted to teach even if they have previously scheduled professional development. EIC partners have identified the need to gain support for the festival from local school district boards and science coordinators as a primary goal during next year's planning.

## A Water Festival In Clark County, Washington

	Dates/ Days	Location	Public Days	Schools Days	No. of Students	Grade Level	Festival Hours	Sponsors (\$\$) Planners	Partners	Volunteers	Presenters	Buses (\$\$)
<b>1993-1995</b>	Spring Saturday	Klineline Pond (county)	1	Same day as public	100+	3 <sup>rd</sup>	10am- 4pm	2	10	50	20	NA
<b>1996</b>	10/4 -10/5 Fri.-Sat.	Klineline Pond (county)	1	1	850	4 <sup>th</sup>	9:15am- 2:30pm (4 blocks)	2	17	45	45	School/ CPU
<b>1997</b>	10/2-10/4 Thurs.-Fri.- Sat.	Klineline Pond (county)	1	2	1400	4 <sup>th</sup> & Splits	9:30am- 2pm (4 blocks)	2	28	200	50	School/ CPU
<b>1998</b>	10/1-10/3 Thurs.-Fri.- Sat.	Klineline Pond (county)	1	2	2040	4 <sup>th</sup> & Splits	9:30am- 1:30pm (4 blocks)	2	28	100	50	School/ CPU
<b>1999</b>	9/21-9/22 Tues.-Wed.	Marine Park (Water Center, city)	0	2	1980	4 <sup>th</sup> -5 <sup>th</sup>	9:45am- 1pm (4 blocks)	4	28-30	100	50	EIC/ Grant

1993-95

1996-98

1999

Youth Fishing and Habitat Education Day

Salmon Creek Water Festival

Columbia River Watershed Festival

## **II. Salmon Go To School Workshop**

**Background:** The Salmon Go To School teacher training was developed in response to teachers' requests for ways to integrate their classroom salmon tanks into broader curricula and community salmon issues. Teachers were also struggling with troubleshooting the maintenance of their fish and aquarium. Additional training could provide them with this much needed information.

**Objectives:** The objectives of this workshop were two-fold:

1. To provide classroom teachers participating in the Columbia River Watershed Festival and/or Salmon in the Classroom aquarium program with the tools to integrate festival and other watershed activities into the classroom.
2. To provide teachers access to local endangered species experts and other resources about why salmon recovery is a community-wide issue.

**Location/Dates:** Teachers were offered the opportunity to attend the workshop on one of two dates - Tuesday, November 30 or Wednesday, December 1, 1999 - at the Water Resources Education Center in Vancouver.

Although 42 registrants had signed up for one of the two days, within 48 hours 17 teachers called in to cancel. These teachers had been called back in, to their classrooms, by their Principals, due to a shortage in substitute teachers and other restrictions on teacher release time. The two repeated workshops were combined into one and 25 teachers and educators attended a single workshop on December 1, 1999.

**The Program:** Staff from the EIC and the Water Resources Education Center planned the seven hour workshop for teachers entitled, "Salmon Go to School." Seven guest panelists from six agencies discussed community salmon issues. Fifteen exhibitors offered classroom materials at a mini-resource fair. The agencies that provided information to teachers to assist them with the goal of integrating salmon and fish recovery issues, concepts and activities with their existing curriculum included:

Bonneville Lock & Dam	Southwest Air Pollution Control Authority
Bonneville Power Administration	US Fish & Wildlife Service
City of Vancouver ESA	Columbia River Intertribal Fish
Clark County Conservation District	Washington Dept. of Fish & Wildlife
Clark County ESA	Metropolitan Greenspaces Program
Clark County Solid Waste	Fish First Commission
Clark County Water Resources	
Salmon in the Classroom: A program of Clark Public Utilities and AmeriCorps	
Watershed Stewards: a volunteer program of Clark County & WSU Cooperative Extension	

The workshop provided an introduction to activities from the Columbia River Watershed Festival and hands-on instruction in activities from various curricula such as Project WET, Aquatic Project WILD, and A-Way With Waste. After an ice-breaker activity called, "Dams, Fishhooks & Bears, Oh My!", an Aquatic Wild modification, teachers selected two choices from six break-out sessions: Habitat in a Baggie, The Salmon People, Follow the Water, Where Do I Begin, Fish Taxonomy, Restore a Stream/Stream Table, and Native Plants and Riparian Restoration.

The morning session concluded with a panel discussion by representatives from the Bonneville Power Administration, Columbia River Intertribal Fish Commission, Fish First, the Washington Department of Fish and Wildlife and ESA coordinators from the City of Vancouver and Clark County. Topics included the Endangered Species Act and listings, fish hatchery operations, hydropower production and dam operations, local activist interests, local fish recovery and habitat restoration efforts, restoration project development, and why salmon recovery is a community issue.

Attendees were offered the opportunity for an optional lunch with the panelists. The balance of the afternoon was dedicated to sessions on aquarium and equipment maintenance, a mini-resource fair, and a wrap-up.

The objectives of the workshop were met through hands-on activities, small group discussions and a panel discussion. Teachers received free curriculum guides, handouts, and local resources. They were also offered clock hour credits for the workshop.

Evaluation: Attending educators wrote positive evaluations for the activities and the valuable resources about salmon, habitat, and other water issues.

Participants who evaluated the workshop wrote:

"Great day! I enjoyed the panel discussion. It left me with questions and thoughts to ponder. I liked that I was able to choose the break-out session."

"This workshop was very informative since I have not participated in the salmon program until this year. It was great to hear specific examples for care of the aquarium (high area of concern for me.)"

EIC staff followed up with teachers attending the Salmon Go To School teacher workshop and learned that:

- One teacher had used the Native American related salmon materials for his Social Studies class
- One teacher had used materials in a science project where the student "sculpted" their own redds with paper plates and salt dough. The female laid her eggs, the male passed over and fertilized the eggs, and they both died on cue.
- Several classes raised and released salmon.
- In addition, all the third grade classes in Battle Ground worked with the Fire Department to release 90,000 Coho salmon. The teacher noted that several spawning pair had returned.
- All the teachers that were reached in the follow-up survey had successfully integrated the program materials with their existing curricula.
- Two teachers followed up with the Groundwater and Watershed Protection presentations reaching an additional 200 students.
- 33 % of the teachers have participated in other EIC teacher training related to restoring habitat for birds, creating chemical free gardens, and worm composting.
- One teacher is continuing to work with local business partners to restore the quality of the watershed around one of the most polluted creeks in Washugal.
- 100% of the teachers attending the Salmon Go To School workshop raised salmon in the classroom with the assistance of Clark Public Utilities' Americorp support staff.

- One teacher served on the review committee for the new Salmon in the Classroom curriculum developed by Clark Public Utilities.

**Conclusion and Advise for Other Project Managers:** Based on the reports and experience provided by the EIC staff, its partners, and all those who participated in the 1999 Columbia River Watershed Festival and the Salmon Go To School teacher training workshop, both of these events proved to be a great success. But, not without a considerable commitment on the part of all those who provided the planning and coordination.

Several examples of spreadsheets used to coordinate and monitor the progress of the planning are provided in the appendix of this document. They are included to provide a template and an example of the kind of planning and organization that is required to successfully present a festival of this magnitude.

Additional information may also be available in the records of staff who have since moved on from the Environmental Information Cooperative since this event occurred. The new staff, and EIC partners who worked on this event, can be reached through the Cooperative at (360) 546-9509 or 546-9510.

**1999 Columbia River Watershed Festival  
Evaluation Form Responses**

Question	Unsat.	Sat.	↑ than Sat.	No resp.	Total
1. Did you have a good time?	1	7	32	0	40
2. Did you learn something?	1	7	28	2	40
3. Were we well organized?	2	3	34	1	40
4. Did you like the layout of the park?	0	9	31	0	40
5. Did you like the use of the water center?	1	5	29	5	40
6. Was our staff helpful and friendly?	0	6	34	0	40
7. Did you like the earlier date this year?	0	7	27	6	40
<i>For Presenters:</i>					
11. Was your station set up as requested?	0	2	7		
12. Was your schedule manageable?	0	2	7		
<i>For Teachers</i>					
13. Was your class guide friendly?	0	1	23		
14. Were your presenters effective?	0	4	18		

**Questions requiring a written response:**

**8. What did you like best about the Festival?**

- Facility/location
- Active activities
- The opportunity to see/meet different water/environmental lecturers
- Presenters!
- Interacting with the kids.
- Fun and interactive
- Relevant, activity oriented
- The nice weather and friendly people. Thank you for inviting us again.
- Earlier date, wilder setting, accessible restrooms and proximity of parking to the stations
- The show!
- Fun Friendly atmosphere
- Everyone was fun and enthusiastic with the kids.
- Dr. Wilderness (Kid Vote)
- Dr. Wilderness was great (X3)
- Variety of activities
- Many hand-on activities

- The Water Resource Center
- All of our activities were fun and educational.
- The magic show was great!
- Well managed; well staffed; good presenters
- Informative activities, people, organization
- We thoroughly enjoyed everything.
- It was well organized and the sessions were fun.
- Garbage Gurus
- Various activities
- Friendly, helpful staff
- The opportunity for students to have hands-on science experience and use the lab.
- The weather! The different groups were well organized.
- I like 4 mini-activities
- I appreciate the way the staff helped us when our bus cancelled. They kept the kids safe and made sure that we could easily pick them up. Thanks so much for that added help!

9. What did you like least about the Festival?

- One presenter did not show up at all.
- I thought we would get to go through the Resource Center and was a little disappointed
- Bees! (X4)
- We walked from the buses way over, then back to the Water Center, then way over to our last station, then way back to the buses.
- My class (Fuller) went to three tents and there weren't many activities. I thought the scheduling for my class could have been better. The kids had to sit through about 2 hours of lecture with very little movement.
- Other classrooms playing games and running around made it difficult for our classroom to concentrate. There was a lot of great information – but it was hard for our kids to concentrate.
- Our schedule was very boring! Class was not.
- Had some idle time
- Hard for more than 3 groups to pass o the path
- Too few stations – We only went ...
- Layout – Disturbances from park visitors and folks with food walking by during the activities. Also no access from my booth to the wood/wetland. (presenter response)
- I liked everything!
- Playing games standing in a circle (Kid vote)
- Games that required too much listening, not enough playing, example - Salmon
- The hands-on active classes
- It is so well organized and the kids really enjoy each break-out session and the pacing!
- Mr. wizard should be ½ hr. so we can be out doing an activity – More “oh, Heron” game
- More student handouts. Would be great to [be able] to see more booths.
- That we didn't get to see more stations
- C-Tran booth? Lack of water.
- That we were only able to go to 3 stations. I would have liked my students to stay a little longer and go to more stations.
- Having other classes walking by the open tents was a distraction. Some of the speakers in the tent easily lost the kids attention.

- Back and forth walking
- Some of our classes got a C-tran presentation and our kids don't ride the bus out here. It was so primary and did not apply to them at all.
- Nothing! (X3)
- I would have liked to have the kids tour the Water Center.
- Our 2 & 3 station – story time for an hour. This was a waste of our time – especially since there were so many other great stations. We did get a break and the kids got to try on costumes. I liked this idea, but I do have 2 concerns: 1. Head lice and 2. My kids really enjoyed these costumes, but it was hard to keep them quiet for the other stations nearby.

10. What are your suggestions for improvements?

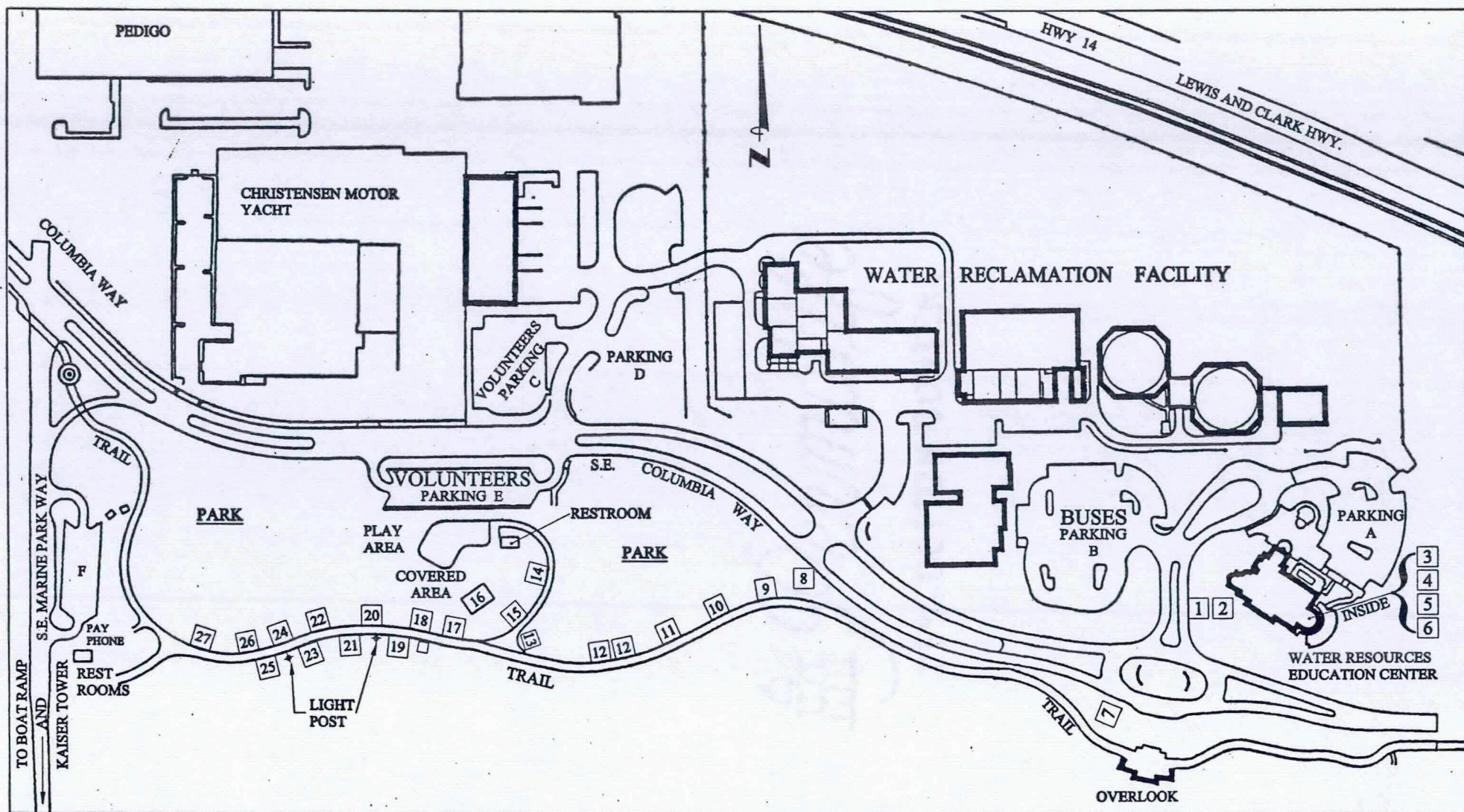
- Although really informative, the “just talking” sessions get long for the kids – more hands-on would help.
- This was great! Perhaps the distance to walk from end-to-end was too long for some.
- Make sure each class gets something on water related activities – we had transportation, story reading, and music. No concrete examples of wetlands, labs, water resources. Teacher was questioning effectiveness.
- Waiting area needed. Kids get distracted.
- #4 station was too long. Kids have short attention span.
- Need some back-up activities when presentations are finished.
- Perhaps a station or two could be located along the path (to the wetland)
- It would be nice to have an hour gap toward the end (presenter response)
- Please refrain from watering the lawn the night before (& during) (presenter response)
- We had more classes than we were told (presenter response)
- Because festival was earlier in the year, the weather was great. However, we have been in school such a short time I had not prepped my students about water cycle, etc, as I like to.
- For Salmon – have adults be salmon the first round to model how to play.
- See #9, but the rest is fantastic. You really pack a lot into ½ day.
- Locate the costume station in an area away from other stations where the kids don't have to try and be quiet.
- Face tents away from the sidewalk to prevent distractions from other groups passing by. (X2)
- More student handouts or take homes, i.e., pencils, pins, erasers, bookmarks, etc. (X2)
- First Aid station was not open – needed some water
- Buses loading took too long
- If there is any way to track the presentations from one year to the next so they aren't repeated. The kids recognized the programs and turned off as “Having done it before”!
- Please give teachers a paper with “facts”, learnings, knowledge presented so that they can be accurate during review of concepts.
- Nothing (X3)

**SALMONID EDUCATION & ENHANCEMENT GRANTS  
WORK PLAN AND SCHEDULE**

Proposed date	TASK	Actual Completion Date
11/98-12/98	Compile list of ESD participants for 1999 Festival planning	11/98-12/98
12/98 early	Set date for planning meeting at ESD 112; secure meeting room	12/98 early
12/98 early	Talk with & invite teachers, administrators, & transportation directors to planning meeting	12/98 early
12/98 late	Set tentative dates for Festival & Workshop	12/98 late
01/99 early	Begin project	01/99 early
01/99 mid	Hold planning meeting at ESD 112 for Festival & Workshop priority scheduling	01/99 mid
02/99 early	Determine Festival dates & Workshop dates	02/99 early
02/99 early	Secure facility for Workshop	02/99 early
02/99 mid	Mail first Festival & Workshop newsletter	02/99 mid
02/99 mid	Inform potential presenters & volunteers of Festival & Workshop dates	02/99 mid
03/99 early	Develop database for Festival & Workshop	03/99 early
03/99-05/99	Recruit & register Salmon in the Classroom teachers for Festival & Workshop	03/99-05/99
03/99-05/99	Secure buses for Festival classes	03/99-05/99
03/99-05/99	Secure substitute teachers & reimbursement funding	03/99-05/99
03/99-05/99	Recruit & register presenters & volunteers for Festival	03/99-05/99
05/99 mid	Determine class schedules for Festival	05/99 mid
05/99 mid	Determine presenter schedules for Festival	05/99 mid
05/99 late	Mail schedules to participants	05/99 late
06/99 early	Request that presenters prepare written activity plan to share	06/99 early
06/99 mid	Begin planning Salmon Go To School workshop	06/99 mid

06/99 late	Recruit presenters & volunteers for Workshop	06/99 late
07/99 early	Determine Workshop goals & objectives	07/99 early
07/99 mid	Determine Workshop agenda & presenters	07/99 mid
07/99 late	Confirm Workshop presenters & volunteers	7/99 - 9/99
07/99 late	Submit clock hour application to ESD 112 for Workshop	07/99 late
07/99 late	Order materials for Festival & Workshop	07/99 late
08/99 early	Meet with Festival sponsors	08/99 early
08/99 mid	Mail newsletter to returning & registered teachers	08/99 mid
08/99 mid	Mail newsletter to presenters & volunteers	08/99 mid
08/99 late	Confer with presenters about station needs	08/99 - 9/99
09/99 early	Determine layout of Festival area at Salmon Creek Park	09/99 early
09/99 early	Confirm teachers, classes, & buses	09/99 early
09/99 mid	Prepare Festival materials (maps, schedules, fact sheets)	09/99 mid
09/99 mid	Prepare teacher packets	09/99 mid
09/99 late	Hold 1999 Salmon Creek Water Festival	9/21, 22
09/99-11/99	Collect & review Festival evaluations	09/99 -11/99
09/99-11/99	Reimburse districts for bus transportation	09/99-11/99
10/99 early	Meet with Workshop sponsors & presenters	10/99 early
10/99 mid	Finalize Workshop plans	10/99 mid
10/99 late	Hold Salmon Go To School workshop	12/1/99
11/99 late	Review Workshop evaluations	11/99 late
12/99-01/00	Reimburse districts for substitute teachers	12/99-01/00
12/99 mid	Prepare Festival & Workshop reports	12/99 mid
02/00-03/00	Hold Salmon in the Classroom meetings for interested teachers	02/00-03/00

03/00-04/00	Recruit teachers, students, & projects for Watershed Congress	03/00-04/00
05/00 mid	Hold Watershed Congress	4/15/99
05/00 end	Prepare grant report	5/30 – 6/1
06/01/00	Project Completed	06/01/00



- |   |                                    |                                    |   |                           |
|---|------------------------------------|------------------------------------|---|---------------------------|
| 1 Information                                 | 7 Wetlands Walk                    | 13 First Aid (10x10)               | 19 Stories on Parade (1-20x20, 1-10x10) | 25 Frank & Francis        |
| 2 Volunteer Services                          | 8 Café Compost                     | 14 Rivers Run Silent               | 20 Hooks & Ladders                      | 26 Salmon Scents          |
| 3 Recycle Man (Theater)                       | 9 Clean Air is Up to You           | 15 Secrets of Our Forest Home      | 21 Kids in the Creek                    | 27 Salmon Life Cycle Game |
| 4 Mini Life in the Columbia (Lab)             | 10 Don't Splash Your Trash         | 16 River Rangers (Covered shelter) | 22 Oh Heron!                            |                           |
| 5 Dams, Fishhooks & Bears, Oh My! (Classroom) | 11 Recycle Relay                   | 17 Wonders of Wetlands             | 23 Follow that Water                    |                           |
| 6 Wizard of Water (Community Room)            | 12 C-Transit Relay (2-20x20 tents) | 18 Drop, Swap & Roll               | 24 Tossed & Found                       |                           |

# Columbia River Watershed Festival 1999

## Facility & Personnel Needs (revised 9/08/99)

### ACTIVITY STATIONS

- ☐ 24 Stations to accommodate 29 classes in park at once -- **Confirmed**
  - ☐ 5 classes in Community Room -- Dr. Wilderness
  - ☐ 2 classes in Theater -- RecycleMan
  - ☐ 1 class in Lab/Exhibit Hall -- Mini Life in the Columbia
  - ☐ 1 class in Classroom -- Dams, Fishhooks & Bears, Oh My!
  - ☐ 20 classes outside -- Misc.

### TENTS

- ☐ 21 Tents (20x20) to accommodate 20 outdoor stations (C-TRAN wants 2 20x20 tents)
  - ☐ 10 CPU tents @ 20x20
  - ☐ 3 Northwest Natural tents @ 20x20
  - ☐ Rent 8 additional tents @ 20x20
- ☐ 5 Tents (20x20 and 10x10) to manage services
  - ☐ Rent 2 additional tents @ 20x20
    - ☐ Information @ 20x20
    - ☐ Volunteer Services @ 20x20
  - ☐ 3 CPU tents @ 10x10
    - ☐ First Aid @ 10x10
    - ☐ Stories on Parade (costumes) @ 10x10
    - ☐ Misc./Overflow (not a numbered station) @ 10x10
- ☐ **TOTAL RENTAL = 10 tents @ 20x20**

### OTHER NEEDS

- ☐ 20x20 Stage with stairs and skirts -- Dr. Wilderness
- ☐ 63 Tables @ 6'
- ☐ 33 Table skirts
- ☐ 3 Table cover rolls
- ☐ 573 Chairs
- ☐ 2 Outdoor stations (14 and 15) needing power (set up by CPU/City)
- ☐ 8 Walkie-talkies (provided by City) -- Ginn, Dakota, Heather, Debbie, Parking 1, Parking 2, Volunteer Services, #8 ?
- ☐ 200 T-Shirts (ordered by CPU)
- ☐ 1-27 Station signs (provided by CPU)
- ☐ Festival banner (provided by CPU)
- ☐ Cloth bags for teachers (provided by EIC)
- ☐ Festival stickers for students (provided by CPU)
- ☐ Drinks for volunteers (provided by CPU-Boys)
- ☐ Food for volunteers (Dakota and Ginn will arrange)
- ☐ Tables and chairs for Volunteer Services (1 picnic table provided by City, other tables and chairs provided by CPU)
- ☐ 6 picnic tables set up in Shelter for River Rangers (provided by City)
- ☐ Park security -- 5pm Monday to 4pm Wednesday, 1 during day, 2 beginning at 4pm (provided by City)
- ☐ School bus transportation (arranged by Dakota, paid by CPU)
- ☐ Parking lot signs (provided by City and CPU)
- ☐ Alternative activity and presenter for Wetlands Walk (Dakota will research)

### VOLUNTEERS

- ☐ 73 Class guides (25+ confirmed)
- ☐ 2 @ Information station (1 confirmed -- Ginn)
- ☐ 1 @ Volunteer Services
- ☐ 1 @ Stories on Parade (costume assistance)
- ☐ 1 @ Frank & Francis (wear costume)
- ☐ 1 @ Salmon Scents (assist presenter)
- ☐ 3-5 @ Salmon Life Cycle Game
- ☐ 2-3 @ Parking (provided by CPU)
- ☐ Tent set-up and take-down (AmeriCorps/CPU)
- ☐ Park cleanup (garbage/litter pickup)

## The Columbia River Watershed Festival

### IDEAS for PRESENTERS

- C-TRANSit Relay (Jessica Lightheart, C-TRAN)
- Café Compost (Joanne McGowan and Mari Zak, Master Composter/Recyclers)
- Dr. Wilderness Environmental Magic Show (Kevin Barnes)
- Follow That Water (Lisa Bucy, CC Conservation District)
- Frank & Francis (Daryl Hodges, USFS and volunteers)
- Hooks and Ladders (Greg Web, Bonneville Lock & Dam)
- Kids in the Creek (Andy Thoms, BPA)
- Mini Life in the Columbia (Bill Feddeler and Marilyn Feddeler)
- Oh Heron! (Carol Peterson, Vancouver Audubon Society)
- Recycle Relay (Anne Mills, EIC)
- RecycleMan (Peter DuBois, Garbage Gurus)
- River Rangers (TBA – River Ranger volunteer)
- Salmon Life Cycle Game (Dick Bernards, volunteer) (Joe Moreau, USFS, loaning board games) (Amy Wilson, AmeriCorps/CPU, making board games) (AmeriCorps, other volunteers)
- Salmon Scents (Cheri Anderson, US Fish & Wildlife Info & Education, and Donna Allard, USFW)
- Secrets of Our Forest Home (Bill Weiler, WDFW)
- Stories on Parade (Jacquelyn Keith, Fort Vancouver Regional Library) (Daryl Hodges, USFS, providing costumes) (Possible participation by local storyteller from Storyteller's Guild)
- Tossed & Found (Mary Lou Skoog, CPU)
- Wetlands Walk (Cory Samia and Bev Walker, Water Resources Education Center)
- TBA – Air Quality (Chad Williams, SWAPCA, and Anne Butler, DOE Air Program)
- TBA – Marine Debris (Tim Whitaker, US Coast Guard Marine Safety)
- TBA – Salmon (Vicky Ridge-Cooney, City of Vancouver)
- TBA – Salmon & Fish (Steven Gray and Rich Pettit, WA Fish & Wildlife)
- TBA – Solid Waste (Lonny Knabe, Clark County, and Sally Fisher, Clark County)
- TBA – Water Quality (Cindy Meats, Clark County)
- EARTHA the Ecological Clown (Marlene Azar) – Indoor?
- Wetlands Walk (WRC Staff)
- Native Plants (Gillian Brandon, Bagley Down Neighborhood Association)
- Oil Spills Impact on Habitat (Mariann Cook Andrews, DOE Spills Program)
- Wildlife Habitat (David Weiss, CRGNSA)
- The Salmon Trunk Activity (USFW)
- Water Safety Awareness (Fred Neiman, Clark County Sheriff Marine Patrol)

# The Columbia River Watershed Festival

Tuesday-Wednesday, September 21-22, 1999 at Marine Park and Water Resources Education Center

revised 9/08/99

## Planning Committee

Dakota InyoSwan, EIC  
Cory Samia, City of Vancouver  
Tami Kihs, City of Vancouver

Sally Fisher, Clark County  
Cindy Meats, Clark County  
Heather Allmain, Clark Public Utilities

Funders & Sponsors	EIC and Metro Grant	City of Vancouver (\$4000-\$5000)	Clark Public Utilities (\$4000-\$5000)	Clark County (\$5000)	Other
<b>Expense Estimates &amp; Tasks</b>					
<b>FESTIVAL DECORATING SERVICES</b>					
Facility @ NC		X			
573 Chairs @ \$0.95 (\$544.35)		X			
63 Tables 6' @ \$7.50 (\$472.50)		X			
33 Table Skirts @ \$7.95 (\$262.35)		X			
3 Table Cover Rolls @ \$15.95 (\$47.85)		X			
10 20x20 Tents @ \$180.00 (\$1800.00)				X	
Labor for Set-up (\$700.00)				X	
13 20x20 Tents @ NC			10 CPU		3 Northwest Natural
4 10x10 Tents @ NC			X		
20x20 Stage, Skirt, Stairs (\$520.00)		X			
Delivery (\$40.00)		X			
Sub Total (\$4387.05)					
Sales Tax @ 7.7% (\$337.82)		X			
<b>Decorating Services Total (\$4724.87)</b>		\$2224.87	?	\$2500.00	
<b>OTHER FESTIVAL EXPENSES</b>					
School Bus Transportation (\$3000.00)			X		
Dr. Wilderness Magic Show (\$2500.00)				X	
Park Security (\$2000.00)		X			
Signs & Banner (\$700.00)			X		
Food for Volunteers (\$200.00)	Food		Drinks		
T-Shirts (\$1233.43)			X		
Cloth Bags for Teachers (\$265.00)	X				
Walkie-Talkies		X			
<b>Other Festival Expenses Total (\$9898.43)</b>		?	?	\$2500.00	
<b>TOTAL EXPENSES (\$14623.30)</b>		?	?	\$5,000.00	

## WaterFest99 - Stations Confirmed

9/9/99

Presenter	Station#	Station	Power	Tables	Chairs	OtherNeeds	LastName	FirstName
xx	01	Information	no	4	4	volunteers	Strong	Ginn
xx	02	Volunteer Services	no	1 picnic, ? CPU	? CPU	food&drink, volunteers	Strong	Ginn
xx	03	RecycleMan	x inside	1 WREC	? WREC	overhead projector	DuBois	Peter
xx	04	Mini Life in the Columbia	x inside	? WREC	? WREC	50-min lab	Feddeler	Bill & Marilyn
xx	05	Dams, Fishhooks & Bears, Oh My!	x inside	1 WREC	4 WREC	50-min activity	Ridge-Cooney	Vicky
xx	06	Wizard of Water	x inside	? WREC	? WREC	20x20 stage, 1volunteer	Barnes	Kevin
xx	07	Wetlands Walk	no	7 no skirts on 6	4	50-min, 1 20x20 tent	Samia	Cory
xx	08	Café Compost	no	2	37		Zak	Mari
xx	09	Clean Air Is Up to You	no	3	37		Williams	Chad
xx	10	Don't Splash Your Trash	no	1	37		Whitaker	Tim
xx	11	Recycle Relay	no	4 no skirts on 2	37	75'x150-200'	Brown	Jamie
xx	12	C-Transit Relay	no	2	37	2 20x20 tents	Lightheart	Jessica
xx	13	First Aid	no	1	2	1 10x10 tent	Fire District	
xx	14	Rivers Run Silent	yes	2	37		Gray	Steven
xx	15	Secrets of Our Forest Home	yes	2	37		Weiler	Bill
xx	16	River Rangers	no	1 6' & 6 picnic	2	easel, RR presenter	Ranger	River
xx	17	Wonders of Wetlands	no	2	2		Meats	Cindy
xx	18	Drop, Swap & Roll	no	7 no skirts	37		Knabe	Lonny
xx	19	Stories on Parade	no	3	37	50-min, 10x10, 1volunteer	Keith	Jacquelyn
xx	20	Hooks and Ladders	no	1	37		Webb	Greg
xx	21	Kids in the Creek	no	2	37		Thoms	Andy
xx	22	Oh Heron!	no	1	37		Peterson	Carol
xx	23	Follow That Water	no	1	2		Bucy	Lisa
xx	24	Tossed & Found	no	8 no skirts	2	materials, 1 volunteer	Skoog	Mary Lou
xx	25	Frank & Francis	no	1	37	1 volunteer in costume	Hodges	Daryl
xx	26	Salmon Scents	no	1	37		Anderson	Cheri
xx	27	Salmon Life Cycle Game	no	7 no skirts	37	3-5 volunteers	Bernards	Dick

Presenter Schedules 99 -- Wednesday

9/14/99

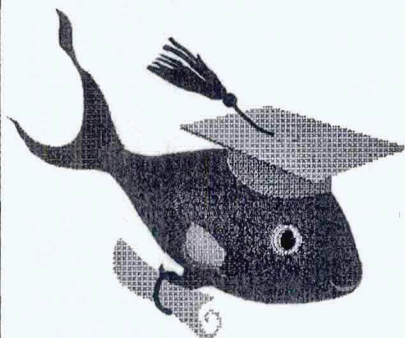
Station#	Station	Wed	9:30 W	10:00 W	10:30 W	11:00 W	11:30 W	12:00 W	12:30 W	1:00 W
01	Information	x								
02	Volunteer Services	x								
03	RecycleMan	x		38, 41	49, 56	55, 57	61, 69		65	
04	Mini Life in the Columbia	x			38	38	65	65		
05	Dams, Fishhooks & Bears, Oh My!	x		42	42	56	56	72	72	
06	Wizard of Water	x			39,40,43,44,48	39,40,43,44,48	58,60,63,66,73	58,60,63,66,73		
07	Wetlands Walk	x	46	46	41	41	67	67		
08	Café Compost	x		40	64	42	48			70
09	Clean Air Is Up to You	x		39	63	49		61		73
10	Don't Splash Your Trash	x		47	57	63				68
11	Recycle Relay	x	40		52	53	70	56	66	
12	C-Transit Relay	x	41	44		50	47	69	68	
13	First Aid	x								
14	Rivers Run Silent	x		54	46	52		64		65
15	Secrets of Our Forest Home	x		48	61	46	57			66
16	River Rangers	x								
17	Wonders of Wetlands	x	42	49	45	51	71			
18	Drop, Swap & Roll	x	38		54	60	72	57		71
19	Stories on Parade	x	45	45	47	47	68	68		
20	Hooks and Ladders	x		50	53	61	59		67	
21	Kids in the Creek	x			59	59	62	62	69	69
22	Oh Heron!	x	44	52	50	62		70		67
23	Follow That Water	x		53	58	54		71		
24	Tossed & Found	x			51	45	64	59		72
25	Frank & Francis	x	43	51	55	64			70	
26	Salmon Scents	x	39	43	62	58			73	
27	Salmon Life Cycle Game	x		55	60				71	

## Class Schedules 99 -- Tuesday

9/14/99

Class#	School	Teacher	Day	BusArrives	BusDeparts	9:30 T	10:00 T	10:30 T	11:00 T	11:30 T	12:00 T	12:30 T	1:00 T
01	Pleasant Valley PS	Mielke	Tue	09.15	11.30	08	05	05	26				
02	Pleasant Valley PS	Potter	Tue	09.15	11.30	09	11	04	04				
03	St. Joseph Catholic	Deviny	Tue	09.15	11.30	18	21	21	22				
04	St. Joseph Catholic	Grizzard	Tue	09.15	11.30	23	07	07	25				
05	Felida ES	Heitz	Tue	09.15	11.30	12	19	19	03				
06	Felida ES	Owen	Tue	09.15	11.30	04	04	15	24				
07	Felida ES	Ringnald	Tue	09.15	11.30	24	22	26	23				
08	Felida ES	Talbott	Tue	09.15	11.30	11	03	17	27				
09	Burnt Bridge Creek ES	Danielson	Tue	09.45	12.00		17	18	20	09			
10	Burnt Bridge Creek ES	Fuller	Tue	09.45	12.00		09	14	21	21			
11	Burnt Bridge Creek ES	Martin	Tue	09.45	12.00		03	12	18	14			
12	Burnt Bridge Creek ES	Peterson	Tue	09.45	12.00		15	08	12	24			
13	Burnt Bridge Creek ES	Shafton	Tue	09.45	12.00		25	06	06	11			
14	Ellsworth ES	Kirshner	Tue	09.45	12.00		10	23	15	12			
15	Ellsworth ES	Stone	Tue	09.45	12.00		27	06	06	25			
16	Green Mountain School	Johnson	Tue	09.45	12.00		20	06	06	17			
17	Hough ES	Dick	Tue	09.45	12.00		26	10	09	22			
18	Hough ES	Milligan	Tue	09.45	12.00		14	06	06	20			
19	Lacamas Heights ES	Benton	Tue	10.15	12.30			06	06	26	14		
20	Lacamas Heights ES	Bernstein	Tue	10.15	12.30			03	19	19	20		
21	Lacamas Heights ES	Luke	Tue	10.15	12.30			22	05	05	08		
22	Lacamas Heights ES	Postma	Tue	10.15	12.30			25	17	04	04		
23	Fircrest ES	Gero	Tue	10.15	12.30			27	14	06	06		
24	Fircrest ES	Lucas	Tue	10.15	12.30			20	07	07	10		
25	Fircrest ES	Pugsley	Tue	10.15	12.30			03	11	23	25		
26	Silver Star ES	Hayslip	Tue	10.15	12.30			11	08	06	06		
27	Silver Star ES	Jennings	Tue	10.15	12.30			09	03	15	18		
28	Glenwood Heights PS	Baty	Tue	11.15	1.30					03	21	21	24
29	Glenwood Heights PS	Murphy	Tue	11.15	1.30					06	06	11	17
30	Glenwood Heights PS	Rose	Tue	11.15	1.30					10	19	19	15
31	Fisher's Landing ES	Asher	Tue	11.15	1.30					03	07	07	14
32	Fisher's Landing ES	Bijornstad	Tue	11.15	1.30					18	05	05	22
33	Fisher's Landing ES	DesRochers	Tue	11.15	1.30					06	06	15	18
34	Fisher's Landing ES	Gallo	Tue	11.15	1.30					08	12	23	25
35	Fisher's Landing ES	Love	Tue	11.15	1.30					27	22	24	12
36	Fisher's Landing ES	Marantette	Tue	11.15	1.30					06	06	09	08
37	Lincoln ES	Unger	Tue	11.15	1.30					06	06	26	03

*"We All Live Downstream"*



# The Columbia River Watershed Festival 1999

*Winner of the 1996 Community Catalyst Award from the Environmental Education Association of Washington*

Marine Park ♦ Water Resources Education Center ♦ Columbia Way in Vancouver

**Class Guide Information ♦ Tuesday-Wednesday, September 21-22**

**Class #** \_\_\_\_\_ **School** \_\_\_\_\_ **Teacher** \_\_\_\_\_

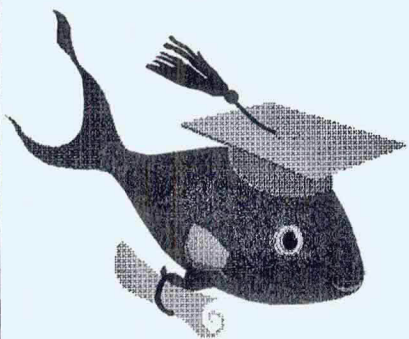
**Bus arrives** \_\_\_\_\_ **Bus departs** \_\_\_\_\_ **First activity begins** \_\_\_\_\_

**Activity 1** \_\_\_\_\_ **Activity 2** \_\_\_\_\_ **Activity 3** \_\_\_\_\_ **Activity 4** \_\_\_\_\_

- ♦ You have an important job. To your teacher and students, you will be the most important person at the festival!
- ♦ All class guides must check in before scheduled classes arrive on Tuesday and Wednesday at Information Station #1. There you will pick up your festival t-shirt, class schedule, teacher packet, and teacher cloth bag.
- ♦ Park in paved Parking Lots C & E. Overflow parking will be in gravel lot D.
- ♦ Class guides will receive a **free festival t-shirt** when you check in. Please wear your festival t-shirt or something that identifies your program, group, or agency.
- ♦ We will provide free refreshments to all class guides at Volunteer Services #2 (behind Information Station).
- ♦ **Your job** is to meet the bus, greet your assigned class, and serve as class guide for the day. You will guide a class from scheduled station to station throughout its two-hour stay. You will stay with the class until it boards the bus for departure. You will also make sure that presentations begin and end on time. Please wear a watch!
- ♦ **Be ready to meet the bus for unloading.** Board the bus before it unloads. Introduce yourself, and welcome them to the festival. Be friendly and excited. Tell them they are to stay together the entire two hours.
- ♦ You will have their schedule and teacher packet. Carry these for the teacher. Collect presenter handouts in the cloth bag. Tell the teacher to distribute them back at school. Give the full bag to the teacher before the class departs at the end of its stay.
- ♦ **Look at the class schedule in the packet.** Each class has been assigned a number. Its two-hour block has been broken into 4 half-hour segments (a few stations last one hour). Each segment has been filled with an educational station. Look at the park map to determine where each scheduled station is.
- ♦ **Please wear a watch.** Guide the class to its activities. Each station will have a posted sign noting its station number. Be mindful of the time as the presentation goes on. Be sure to get your class to its next scheduled station on time -- presentations begin promptly on the hour or half-hour. If necessary, interrupt the presenter.
- ♦ Do not release classes early. And do not begin a class early if you happen to drop by your next station off schedule. It's essential that you stick to the schedule. You should stay for 20-25 minutes (or 50-55).
- ♦ In case of an emergency or schedule conflict, notify Dakota, Heather, or Ginn immediately.
- ♦ **After the final presentation,** direct the class to its departure bus. Give the teacher the cloth bag. Thank the students, teacher, and parent/adult volunteers.
- ♦ **Please call Dakota at (360) 546-9509 if you have questions or concerns. Thanks for participating! We hope you enjoy the Festival. Plan early to join us again next year.**

Organized and funded by City of Vancouver, Clark County, Clark Public Utilities, Environmental Information Cooperative, and a grant from the Metropolitan Greenspaces Program and U.S. Fish & Wildlife Service. Numerous other sponsors and volunteer participants.

*"We All Live Downstream"*



# The Columbia River Watershed Festival 1999

Winner of the 1996 Community Catalyst Award from the Environmental Education Association of Washington

Take your fourth or fifth-grade class to school at Marine Park and the Water Resources Education Center. You and your students will spend two hours in Nature's Classroom. Register early and get your bus paid for!

*Make it an Eco-Day at . . .*

Join  
Us!

## **The Columbia River Watershed Festival**

Activities  
Presentations  
Entertainment

**Tuesday or Wednesday, September 21 or 22**  
**9:15 a.m. - 1:30 p.m. (two-hour blocks)**

*This is the OLD Salmon Creek Water Festival  
With a NEW date, NEW site & NEW activities*

Call  
Now!

- ⊗ Free – Schedule Now for Fall
- ⊗ Come Tuesday or Wednesday
- ⊗ Fourth-Grade Classes Preferred  
(fifth-grade ok if you have a salmon aquarium)
- ⊗ Clark County Schools Only
- ⊗ We Will Pay for Your Buses
- ⊗ Classes Must Have Teacher and 2 Adults
- ⊗ No Lunches in the Park (eat at school)
- ⊗ Outside Event – Rain or Shine  
(tent cover for all activities; must walk in open space  
between activity stations, though)
- ⊗ Two-Hour and 15-Minute Stay
- ⊗ We Determine Your Schedule (be flexible ☺)

**☎ Call 546-9509 to sign up NOW!**

**Please provide the following information:**

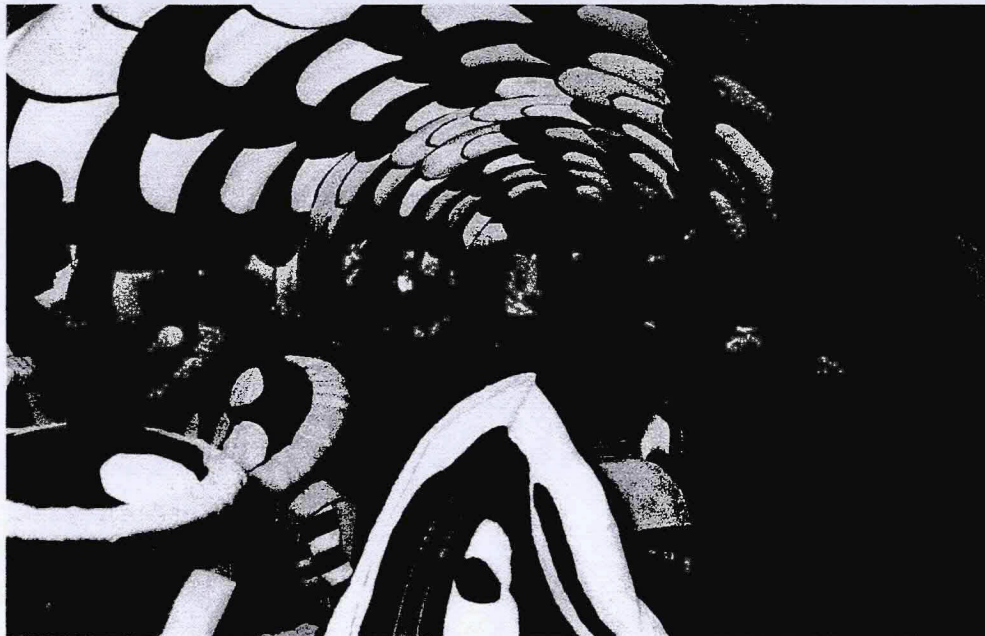
Teacher name(s), school, work and home phones, class size (30 maximum/class), day and time preferred (plus options). We can't guarantee the schedule you request, so please give all the times, which will work for you. Thanks for being flexible.

- ☐ Tuesday, Sept. 21
- ☐ Wednesday, Sept. 22
- ☐ 9:15 a.m. bus arrival - 11:30 a.m. departure
- ☐ 9:45 a.m. bus arrival - noon departure
- ☐ 10:15 a.m. bus arrival - 12:30 p.m. departure
- ☐ 11:15 a.m. bus arrival - 1:30 p.m. departure

FAX to 546-9039. Email to <inyoswan@vancouver.wsu.edu>

**We will send you your schedule.**

Organized and funded by City of Vancouver, Clark County, Clark Public Utilities, Environmental Information Cooperative (a cooperative effort of the City of Vancouver, Clark County, Clark Public Utilities, Southwest Air Pollution Control Authority, WSU Cooperative Extension, and WSU Vancouver), and a grant from the Metropolitan Greenspaces Program and U.S. Fish & Wildlife Service. Numerous other sponsors and volunteer participants.



# THANK YOU

Organizers, Sponsors, and Volunteers of the  
1999 Columbia River Watershed Festival

## Organizers

City of Vancouver  
Clark County  
Clark Public Utilities  
Environmental Information Cooperative

## Grant Sponsor

Metropolitan Greenspaces Program

## Other Sponsors & Volunteers

Bonneville Lock & Dam  
Bonneville Power Administration  
Clark County Conservation District  
C-TRAN  
Fort Vancouver Regional Library  
Livestock Advisor Program  
Master Composter/Recyclers  
Mt. Hood National Forest  
Northwest Natural  
Northwest Service Academy --  
AmeriCorps Program  
Sierra Club  
Southwest Air Pollution Control  
Authority  
U.S. Coast Guard  
U.S. Filter  
U.S. Fish & Wildlife  
U.S.D.A. Forest Service  
Vancouver Audubon Society  
Vancouver/Clark Parks &  
Recreation



Vancouver Fire Department  
Washington Department of Ecology  
Washington Department of Fish  
& Wildlife  
Water Resources Education  
Center  
WSU Cooperative Extension  
WSU Vancouver

## Individual Stewards

Thank you also to the over 100 individuals who served as class guides, presenter assistants, station managers, and support staff for the festival.

**You all helped make the 1999  
Columbia River Watershed  
Festival a success!**

# Salmon Go to School Workshops

Wednesday, December 1, 1999  
Water Resources Education Center  
8:30 a.m. to 3:30 p.m.

## Sponsors:

City of Vancouver Water Resources Education Center  
Environmental Information Cooperative (a partnership of City of Vancouver, Clark County, Clark Public Utilities, Southwest Air Pollution Control Authority, WSU Cooperative Extension, WSU Vancouver)  
Metro Regional Parks and Greenspaces and U.S. Fish and Wildlife Service  
Salmonid Education and Enhancement Grant

## Participation from:

Bonneville Lock & Dam  
Bonneville Power Administration  
City of Vancouver ESA  
Clark County Conservation District  
Clark County ESA  
Clark County Solid Waste  
Clark County Water Resources  
Columbia River Intertribal Fish Commission  
Fish First

Metropolitan Greenspaces Program  
Salmon in the Classroom: A Program of  
Clark Public Utilities and AmeriCorps  
Southwest Air Pollution Control Authority  
US Fish & Wildlife Service  
Washington Dept. of Fish & Wildlife  
Watershed Stewards: A Volunteer Program of Clark County & WSU Cooperative Extension

## Documented Need:

All teachers in Washington State must integrate environmental education with their existing curriculum as stated in HB 770, RCW 28A.230.020, and WAC 180-50-115. Approximately 60 teachers in Clark County schools participate in the Salmon in the Classroom salmon-rearing aquarium program.

## Goal:

Learn to integrate salmon and fish recovery issues, concepts, and activities with the existing curriculum.

## Objectives:

1. Become more aware of and knowledgeable about ESA, local water quality issues, water resources, salmon and fisheries issues, and recovery efforts.
2. Become familiar with salmon, fisheries, and water science vocabulary.
3. Engage in hands-on activities related to and selected from Project WET, Aquatic WILD, and other curricula.
4. Locate and choose appropriate curriculum materials.
5. Be able to access print and people resources about salmon, fisheries, and watershed education.
6. Understand Washington State's environmental education mandate.
7. Learn how to conduct a self-assessment on how personal actions affect salmon/fish.
8. Learn how to maintain the salmon-rearing aquarium and equipment.

# Salmon Go to School Workshops

Wednesday, December 1, 1999  
Water Resources Education Center  
8:30 a.m. to 3:30 p.m.

## AGENDA

<b>Time</b>	<b>Activity</b>	<b>Leader</b>
8:00-8:30	<b>Check-In and Refreshments</b>	
8:30-8:40	<b>Welcome and Introductions</b>	Dakota InyoSwan, EIC
8:40-9:20	<b>Activity: Dams, Fishhooks &amp; Bears, Oh My!</b>	Vicky Ridge-Cooney, City of Vancouver ESA
9:20-10:00	<b>Breakout Session I: A Menu of Activities</b> Habitat in a Baggy The Salmon People II Follow That Water  Where Do I Begin?: Fish Taxonomy  Restore a Stream/Stream Table Native Plants & Riparian Restoration	Beverly Walker, Water Center Maya Jones, Water Center Lisa Bucy, Clark County Conservation District Anne Stabile, Salmon in the Classroom, AmeriCorps/CPU Cory Samia, Water Center Jim Comrada, Watershed Stewards
10:05-10:45	<b>Breakout Session II: Repeat Breakout Session I Activities</b>	
10:45-10:55	<b>Break</b>	
10:55-12:15	<b>Panel Discussion</b> Andy Thoms, Bonneville Power Administration Vicky Ridge-Cooney, City of Vancouver ESA Bryan Cowan, Clark County ESA Doug Dompier, Columbia River Intertribal Fish Commission Jack Kaeding, Fish First Dick Johnson, WA Dept. of Fish & Wildlife Aaron Roberts, WA Dept. of Fish & Wildlife	
12:15-1:00	<b>Lunch</b> We invite you to stay at WREC and join our panelists for informal discussion.	
1:00-1:45	<b>Group Activity:</b> Fish Feeding and Health and Aquarium Maintenance	Beverly Walker, Water Center Aaron Roberts, WDFW
1:45-2:45	<b>Mini Resource Fair</b>	Various Exhibitors
2:45-2:55	<b>Break</b>	
2:55-3:15	<b>Q &amp; A and Wrap-Up</b>	Dakota InyoSwan, EIC
3:15-3:30	<b>Evaluation and Clock Hours</b>	Dakota InyoSwan, EIC

# Salmon Go to School Teacher Workshops

November 30 or December 1

Join EIC staff, Water Resources Education Center staff, salmon experts, habitat restoration stewards, community volunteers, and fish and wildlife experts for our second annual *Salmon Go to School* teacher-training workshops.

Learn how you can integrate salmon and fish recovery issues and water education into your regular curriculum. Be introduced to hands-on activities, community resources, supplementary curricula, and discussions about local issues.

Come away with materials you can use in planning classroom activities and restoration projects. And learn more about local resources committed to helping you.

The workshops are open to Clark County elementary teachers (grades 3-6 best) and are recommended to *Salmon in the Classroom* aquarium participants. An activity related to fish feeding and health and aquarium maintenance and troubleshooting will be included.

Plan to bring 35 copies of an activity or lesson you use in your classroom to teach about salmon, fish, or water resources. You will walk away with a lesson from each participating teacher.

The workshops are scheduled for November 30 and December 1 -- choose which day you want to attend. Both sessions will be held 8:30-3:30 at the Water Resources Education Center. Check-in and refreshments will be 8:00-8:30.

Full substitute reimbursement will be provided. Pre-registration is required. No limit on the number of teachers per school. So, bring a partner or a team.

Registration fee is \$5 (checks made payable to Environmental Information Cooperative). Clock hours will be available at \$2 per hour. To pre-register, call 546-9509.

Sponsored in part by Metropolitan Greenspaces and US Fish & Wildlife.

## **Environmental Information Cooperative Salmon, Fish, and Water Bibliography**

Items related to salmon, fish, and water quality issues in the EIC library collection (3/99)

Although this list is limited to salmon, fish, and water quality, EIC maintains a lending library of over 1750 items related to air quality, energy efficiency, global ecology, natural resource management, waste management, forests and wildlife, and environmental education as well.

### **Videorecordings**

**Bottom of the barrel (TN870.3.B68x 1991)**

Examines our dependence on oil. Looks at the problems of air pollution, oil spills, and shrinking oil supplies.

**The challenge on the coast (GB460.U6 C43x 1989)**

Discusses pollution of the sea and seacoasts, focusing on concerned individuals who are trying to protect and restore coastal areas.

**The Columbia: what has happened to our river? (F853.C65x 1996)**

Discusses the impact of dams and economic growth on the Columbia River and the future of salmon fishing.

**Down the drain (TD422.D69x 1991)**

Takes a close look at water and the fact that there's only so much useable, clean water to go around.

**Drinking water: quality on tap (RA592.A1 D75x 1991)**

Explains how we can protect drinking water sources, develop and maintain treatment and delivery systems, and take action to conserve use and control.

**Earth aid: water conservation (TD388.E37x 1994)**

Examines water conservation and suggests ways to save up to 50% of the water we use.

**Empty promises, empty nets (#98.N77 E47x 1994)**

Video 2 of the Chinook trilogy. Details landmark legal decisions confirming the treaty-bound fishing rights of Columbia River Indians. Treaty rights also may well be the foundation upon which the survival of Columbia River salmon is built.

**Endangered (QL82.E53x 1993)**

Tells the story about America's endangered species and the law that protects them.

**Exploring wetlands stewardship (QH541.5.M3 E97x 1996)**

Informational program on voluntary stewardship of wetland management, restoration, and economic values of natural resource systems.

**Fish eye view (TD423.F56x 1991)**

Looks at water pollution through the eyes of creatures, which must inhabit polluted waters. Warns that unless efforts are made to improve the quality of water in lakes, streams, and oceans that all life is endangered.

**Forests for the future (SD565.H66x 1994)**

Series of 3 videos looks at the ecology of the Pacific Northwest old-growth forests, the human impact on the forest, and promising methods for sustaining ancient forests and local economies.

**Houses in the fields (HD111.H68x 1995)**

Chronicles the development of agricultural land for houses, apartments, and shopping centers. Focuses on efforts made to keep small farms from urban sprawl.

**Journey of the blob (GB662.3. J68x 1990)**

A video without narration that illustrates the water cycle; a young boy dumps a green blob into a stream and the camera follows the blob's journey through the water cycle.

**Journey of the kings (SH686.I68x 1990)**

Describes the salmon's life cycle from spawning upriver, through migration to the ocean, and back again. Explains the Northwest Power Planning Council's role of balancing hydroelectric development and water use with protecting fish and wildlife affected by hydroelectric development in the Columbia River Basin. The need for cooperation among all interested groups is discussed.

Videorecordings continued . . .

**Matter of trust (E78.N77 M38x 1995)**

Video 3 of the Chinook trilogy.

**The murky water caper: a real fish story (TD422.M87x 1993)**

Is first in a series of performances by schools that piloted this America's Clean Water Foundation environmental education theater project. Provides a humorous, fast-paced introduction to water pollution and conservation for kids in grades K-5.

**My strength is from the fish (E98.F4 M9x 1994)**

Video 1 of the Chinook trilogy. Reveals salmon are both the core of a profound culture and the key to its survival. Uses detailed interviews with tribal elders, council leaders, and others.

**Our backyard (TD370.097x 1991)**

Takes a look at water quality issues at Clark County's Frenchmen's Bar on the Columbia River, Salmon Creek, Burnt Bridge Creek, and a youth program for water quality restoration of these streams. A "Road warriors" segment highlights road construction safety for county workers.

**Our precious groundwater: a celebration (GB1002.5. O87x 1994)**

Shows highlights of a groundwater festival held in Nebraska where the purpose was to educate young people about conserving groundwater resources.

**Our precious water (TD403.O97x 1997)**

Defines the aquatic ecosystem and illustrates how wetlands have important hydrologic and water quality functions. Discusses how water quality is affected by human activities.

**Pond & river (QH541.5.P63 P66x 1996)**

A mixture of animation and live footage serves as a background for a narrated introduction to the biological life of rivers and ponds and their influence on the history of human beings.

**The return of the salmon (QL638.S2 R48x 1995)**

Examines the relationship between salmon and watersheds of the Pacific Northwest. Describes how destruction of watersheds and salmon habitat has led to drastic decreases in salmon populations, and profiles restoration projects that are being undertaken to remedy past environmental damage.

**Salmon on the brink (SH349.S35x 1998)**

An in-depth look at the saving of an important Northwest resource, the Chinook salmon, from extinction. A report on causes, economic impact, and habitat recovery.

**Stream bugs (QL495.15. S77x 1990z)**

Describes insects as an important part of aquatic health in streams. The number of insects and other organisms can make a determination of the health of a stream.

**The streamkeeper (QH75.S77x 1996)**

Starring Bill Nye, "The Science Guy." Bill takes potential streamkeepers on a journey through a watershed and shows how to investigate your stream, inventory and monitor it, and take action.

**Vanishing wetlands (QH541.5.M3 V36x 1997)**

Documents what is now the most threatened biological community in the world, the wetlands.

**Waterworld (TD388.W38479x 1996)**

Explains the importance of water on the earth; shows how water reshapes the planet's surface through erosion; explains the changing sea level and the growth and decline of the ice sheets found at the earth's poles.

**Yakima: river of promise (GB991.W2 Y65x 1988)**

Discusses the great potential of the Yakima River basin and the role of the Bonneville Power Administration to restore a balance between salmon fisheries and agriculture.

## Books

Better trout habitat: a guide to stream restoration and management (SH157.8 .H86 1991)

Classification of wetlands and deepwater habitats of the United States (QH104.U5 1992)

Columbia River fish runs and fisheries (SH221.5.C64 C63x)

Culture of salmonid fishes (SH167.S17 C85 1991)

The ecology of stream and riparian habitats of the Great Basin region (QH541.5.S7 M56 1989)

### Books continued . . .

- Entering the watershed: a new approach to save America's river ecosystems (QH76.E57 1993)  
Environmental justice: issues, policies, and solutions (GE180.E585 1995)  
Field guide to the pacific salmon (QL638.S2 S79 1992)  
Field manual for global low-cost water quality monitoring (TD367.S74x 1995)  
Field manual for water quality monitoring: an environmental education program for schools (TD367.M58x 1992)  
Fish hatchery management (SH151.F5 1982)  
The freshwater aquaculture book: a handbook for small scale fish culture in North America (SH159.M438 1987)  
Greenways: a guide to planning, design, and development (HT167.F59 1993)  
The river stressed out: summer 1994: a role-playing scenario based on multiple uses of the Columbia River system (F853.R58x 1994)  
Salmon production, management, and allocation: biological, economic, and policy issues (SH346.S25 1988)  
Stream analysis and fish habitat design: a field manual (SH157.8 N49x 1993)  
Trout and salmon culture: hatchery methods (SH167.T86 L38 1980)  
Water quality management for pond fish culture (SH151.B79)  
Wetland resources of the Salmon Creek basin, Clark County, Washington (QH76.5.Ws W56x 1990)  
What the river reveals: understanding and restoring healthy watersheds (QH104.5.N6 R36 1997)

### Citizen Action Handbooks

- Adopting a stream: a Northwest handbook (QH75.Y37 1988)  
How to save a river: a handbook for citizen action (QH76.B65 1994)  
The streamkeeper's field guide: watershed inventory and stream monitoring methods (QH75.M87 1996)  
Stream team guidebook: how residential and business volunteers can protect and enhance our water quality, fish, and wildlife (QH541.5.S7 H83x 1989)  
Volunteer stream monitoring: a methods manual (GE198.W2 V65x 1997)  
Where we live: a citizen's guide to conducting a community environmental inventory (GE180.H37 1995)

### Curriculum Guides

- An educator's guide to Ridgefield National Wildlife Refuge (SK459.E38x 1995)  
Aquatic Project WILD: aquatic education activity guide (QH90.55.A68x 1992)  
Discovering salmon: a nature activity book (QL638.S2 F53x 1993)  
Environmental education and interpretation plan for Cascade streamwatch (GE70.P53x 1993)  
Experiencing water resources: a guide to your river basin (QH541.5.S7.T46x 1992)  
Hands on save our streams: science project guide for students (TC409.F57x 1996)  
Hands on save our streams: the save our streams teacher's manual (TC409.F57x 1995)  
Hydromania II: summer science camp curriculum (QL638.S2.H93x 1994)  
Investigating streams and rivers: an interdisciplinary curriculum guide for use with Mitchell and Stapp's Field manual for water quality monitoring (TD370.I56x 1996)  
One with the watershed: a story-based curriculum for primary environmental education: a salmon homecoming production (GB980.O54x 1990z)  
Project W.E.T.: curriculum & activity guide (GB658.5.P76 1995)  
The stream scene: watersheds, wildlife and people (QH541.5.S7 S77x 1990)

EIC is a cooperative effort of the City of Vancouver, Clark County, Clark Public Utilities, Southwest Air Pollution Control Authority, WSU Cooperative Extension, and WSU Vancouver  
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## GREEN LINE PHONE INQUIRY AND REFERRAL LIST



This list is part of a much larger environmental resource list (including air quality, energy efficiency, waste management, water resources, and other subjects) compiled by the Environmental Information Cooperative. All numbers are 360 area code unless otherwise noted. Revised 3/99.

### SALMON RECOVERY & HABITAT RESTORATION COMMUNITY RESOURCE LIST

	Phone
<b>Community Events</b>	
Clark County Fair	August 6-15, 1999
Clark County Home & Garden Idea Fair	April 23-25, 1999
Earth Action Day	April 17, 1999
Environmental Information Cooperative (maintains list)	546-9510
Lacamas Lake Festival	September 11, 1999
Columbia River Watershed Festival	September 21-22, 1999
Sturgeon Festival	May 22, 1999
<b>Curricula (recommended for grades k-12)</b>	
Environmental Information Cooperative (maintains lending library)	546-9510 or 9509
<b>Education</b>	
Environmental Information Cooperative	546-9510 or 9509
Environmental Protection Agency Clearinghouse, Region 10	800-424-4372
Native American Science Outreach Network	206-685-2327
Student Watershed Research Project -- Saturday Academy	503-690-1190
Water Quality Monitoring -- Bill Feddeler	573-2625
Water Resources Education Center	696-8478
WSU Cooperative Extension	254-8436
<b>Field Trip Sites</b>	
Vancouver Fish Hatchery (Evergreen Fisheries Park)	
Lewis River Fish Hatchery	
Skamania Fish Hatchery	
Water Resources Education Center	696-8478
<b>Fish &amp; Wildlife Management</b>	
Environmental Protection Agency	800-424-EPA
National Marine Fisheries Service -- Rob Jones	503-230-5429
Washington Dept. of Fish & Wildlife -- Local Office	696-6211
<b>Fish Groups</b>	
Clark-Skamania Flyfishing Association -- Richard Kennon	686-3626
Columbia River Inter-Tribal Fish Commission	503-238-0667
Fish First -- Gary Loomis & Linda Hudson	225-6516
For the Sake of Salmon	
Health To the Salmon -- Hugh Barrett	
Lower Columbia Fish Enhancement Group -- Jim Stolarzyk	944-9544
Native Fish Society -- Bill Bakke	503-246-5890
<b>Grants</b>	
Environmental Protection Agency Grants	800-424-4EPA
Metro Regional Parks and Greenspaces -- Lynn Wilson-Dean	503-797-1781
Environmental Education	
Habitat Restoration	
Salmon Education & Enhancement	

National Wildlife Federation -- Beth Stout	503-230-0421
River Network (email: info@rivernetwork.org)	
Watershed Partnership Grants	
Tapping the Talents of Teens Grants -- Office of Neighborhoods	696-8222
<b>Habitat Enhancement &amp; Restoration</b>	
Fish First -- Gary Loomis & Linda Hudson	225-6516
Friends of the East Fork of the Lewis River -- Lois Miller	687-2354
Friends of Salmon Creek -- Thom McConathy	573-5239
Habitat Partners -- Bill Dygert	696-1388
Master Wildlife Stewards/NatureScaping Southwest Washington	834-5432
Northwest Environmental Advocates -- Nina Bell	503-295-0490
Society for Ecological Restoration--Northwest Chapter -- Mike Williams	206-623-3280
Southwest Washington Sierra Club Loo-Wit Group -- Linda Wolfe	887-8784
<b>Hatcheries</b>	
Lewis River Fish Hatchery -- Rob Nicolay	225-2120
Skamania Fish Hatchery -- Richard Johnson	837-1020
Vancouver Fish Hatchery	
<b>Hydropower Production</b>	
Army Corps of Engineers -- Adele Merchant	503-808-3722
Bonneville Power Administration	503-230-4558
Northwest Power Planning Council	503-222-5161
<b>Miscellaneous Groups</b>	
Clark County Association of Realtors	695-5980
Clark County Conservation District	696-7631 x 3
Clark County Farm Forestry Association -- Fred Pickering	686-3108
Clark County Hazardous Waste Citizens Task Force	254-5219
Clark County Home Builders Association	694-0933
Clark County Natural Resources Council -- John Karpinski	690-4500
Clark County Rural Preservation Association -- Dennis Dykes	263-6307
Nature Friends Northwest	254-9104
Vancouver Audubon Society -- Carol Peterson	892-2886
<b>Water Quality Monitoring Program Support</b>	
Environmental Information Cooperative	546-9510 or 9509
Water Resources Education Center	696-8478
Watershed Stewards	
<b>Water Resources Management</b>	
Clark County Water Resources -- Cindy Meats	397-6118 x 4584
Environmental Protection Agency	800-424-4EPA
Washington Dept. of Ecology -- Local Office	690-7171
<b>Web Sites</b>	
Environmental Information Cooperative (maintains list)	546-9509