



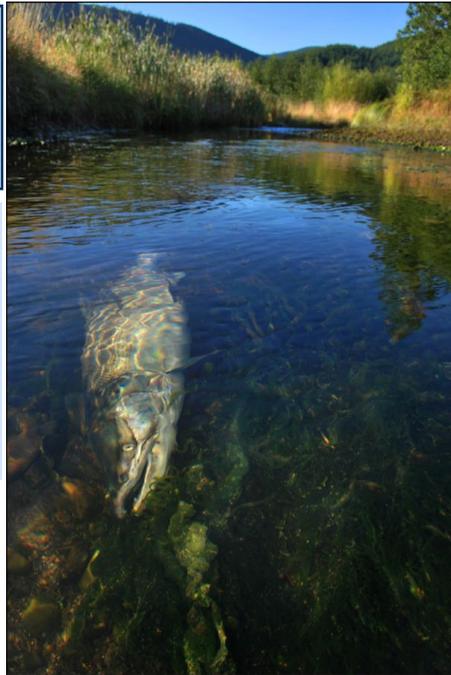
**OCTOBER 2012 / Issue 65**

(Produced with Volunteer Help)

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**360-417-2281**



In  
the  
Flow

**Chum in JimmyComeLately Cr.**

*Photo by Mike Hovis*

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**? Know Your Fish ?**

There was a record-breaking early return in September of summer Chum Salmon in JimmyComeLately Creek, some moving upstream as far as the old Woods incubation & rearing site (River Mile 1.0), with an exceptional number of large fish. Later the run slowed down, perhaps due to the drought. Final return figures not yet available.

### **Annual Advisory Meeting Fri., Nov. 9, at 9:00 a.m.**

Commissioners' small conference room (main floor, corridor west of the stairwell)

**All Streamkeepers volunteers and advisors are urged to attend.**

**General question: How are we doing? What issues are looming? What should we do differently or better, going forward?**

**Topics to be discussed include:**

*2012 departmental shift and budget cut: what continued and what didn't*

*Unexpected challenges in accessing available outside funding sources*

*Quarterly monitoring: changes for next year*

*Barnes Cr. monitoring being taken over by Olympic National Park; replace with Piedmont Cr. at the Log Cabin Resort?*

*Sequim/Clean Water District sampling to resume, as a monthly sampling?*

*Other new/revised projects for 2013*

*Port Angeles sampling: modify per Herrera report*

*County Road Dept.: redd surveys at bridge-replacement projects: Ward Rd. on the Dungeness, Old Olympic Highway on McDonald Cr.*

*Lower Elwha Klallam Tribe: enhanced bug sampling?*

*Other sampling plan changes?*

*Database status & projects: Restructuring; Backlogged data; New entry forms*

*Trend analysis and implications for sampling design?*

*2013 budget outlook*

*Other?*

Wrap-up meeting/potluck tentatively scheduled for December. The 2012 work plan is at <http://www.clallam.net/SK/programplanning.html>.

**SK named by DRMT as highest priority for watershed-implementation grant funding for WRIA 18**

In June, the Dungeness River Management Team (DRMT) named Streamkeepers as its #1 priority for funding from the Dept. of Ecology’s watershed-implementation grant program for the 7/1/13 - 6/30/15 state biennium. We were then invited to the July DRMT meeting (**Ed Chadd, Steve Rankin, and Tracy McCallum** attended) and encouraged to write a substantial grant application, \$130,000 for the biennium, which would:

- restore Ed to full-time status and enable re-establishment of Streamkeepers’ full monitoring program
- enable revision of the program to meet data end-users’ needs
- complete entry of all backlogged data and migration of old data into the revised County Water database
- incorporate important external data sets from Tribes, Cities, etc., into the County’s database
- perform trend/compliance analysis of the data

A total of \$300,000 is already allocated in Ecology’s budget for WRIA 18 watershed-implementation projects over the next several years; however, there’s a snag: Ecology won’t award the funding unless the WRIA 18 Watershed Planning Group completes a Detailed Implementation Plan (DIP) for its Watershed Plan by 6/30/13. Ecology has been urging Clallam County Dept. of Community Development (DCD) to initiate the DIP for more than a year, and grant funding from Ecology is available for Clallam County to write the DIP, but DCD has not moved forward on this project. Unless something changes, the \$300,000 watershed-implementation grant funding may remain on the table.

**? KNOW YOUR FISH ?**



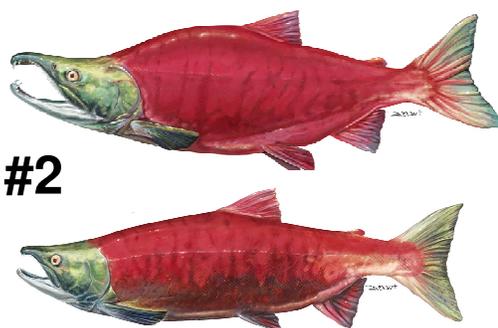
Can you identify this male and female species of spawning Salmon? Look for others through this issue of the newsletter. Answers on last page. (Images were painted by David W. Ehlert and used in Thomas Quinn’s book, *The Behavior and Ecology of Pacific Salmon and Trout* (University of Washington Press).

**SK Data Featured in Consultant’s Report for City of Port Angeles**

Streamkeepers’ data going back to 1999 is the primary source of information for a Water Quality Data Analysis Report for the City of Port Angeles (focusing on fecal coliform bacteria) conducted by Herrera Environmental Consultants of Seattle. This report will be used by the City to prioritize actions and further monitoring, in order to comply with the City’s Phase II Municipal Stormwater Permit issued by the WA Dept. of Ecology under the federal Clean Water Act’s National Pollution Discharge Elimination System (NPDES).

Later this year, Streamkeepers will meet with the City to decide how to revise our sampling plan to coincide with priorities and gaps identified in the report. More stormwater monitoring has been called for. Stand by!

**? KNOW YOUR FISH ?**



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Chace Souza, NOPSC student, sorting bugs at Valley Creek 0.4



NOPSC student Conan McCarty with Streamkeeper Brian Phillips at Valley 0.4

### North Olympic Peninsula Skills Center Natural Resources Program

This fall, the City of Port Angeles asked Streamkeepers to collect bugs at Valley Creek 0.4, which is just upstream of the culvert that carries Valley Creek underground from 6th Street under Marine Drive into Port Angeles Harbor. The bugs will be used to calculate the Benthic Index of Biological Integrity (B-IBI), the best single measure of creek health. A B-IBI has not been conducted at Valley Creek 0.4 since 2002, when it was rated as 'compromised.'

The North Olympic Peninsula Skills Center Natural Resources Program is responsible for monitoring Valley and Tumwater Creeks throughout the year, and students jumped at the chance to apply their learning of B-IBI and contribute to Valley Creek restoration planning. Plus, students loved getting outside to dig for and pick through stream bugs. The Skills Center Natural Resources Program offers free classes for credit to students 16-21 without a high school diploma. Learn more at: [www.nopsc.org/naturalresources](http://www.nopsc.org/naturalresources).



*Baby Cutthroat trout inadvertently caught Oct. 9, 2012 while sampling bugs at Valley 0.4. It was put back in the creek, of course. Also caught were a beautiful crayfish and a Giant Stonefly, about 3" long (see p. 6).*

### Culvert Inventory

The North Olympic Peninsula Lead Entity for Salmon Recovery, with help from Streamkeepers volunteers, is conducting an inventory of culverts along county roads. Culverts along roads in the eastern part of the county are currently being looked at, but the study will move west over the winter. Culverts passing water under driveways and roads will be measured and catalogued, and, hopefully, fish passage problems will be pinpointed by this process. This study allows volunteers to explore our beautiful county and see seldom-visited byways, help salmon, and be outdoors. For further information, contact Eric Carlsen at [ecarlsen@co.clallam.wa.us](mailto:ecarlsen@co.clallam.wa.us).

### Working with City of PA on a 5-year Contract

Streamkeepers began performing additional sampling on streams and stormwater conveyances on behalf of the City of Port Angeles in 2001, after Streamkeepers' data showed signs of significant pollution problems in the area's creeks. We have continued to perform sampling for the City every year since then, and now we're in the final stages of executing a 5-year contract with the City to perform sampling through 2016, with a \$15,000 limit for 2013 and a \$20,000 limit for subsequent years. Most of the funding will pay for lab work, primarily for bacterial analysis, but also for processing bug samples for the B-IBI stream-health index. This is the sign of a continuing, mutually beneficial partnership between Streamkeepers and the City, and of their confidence that our program will continue long into the future. Particular thanks are due to volunteer **Gary Gleason**, who first negotiated this special project with the City, and to **Adar Feller**, who has been instrumental in shaping the project into its current form. With the help of our sampling, the City hopes to isolate and remediate its pollution problems and clean up the streams.

#3



### ? KNOW YOUR FISH ?

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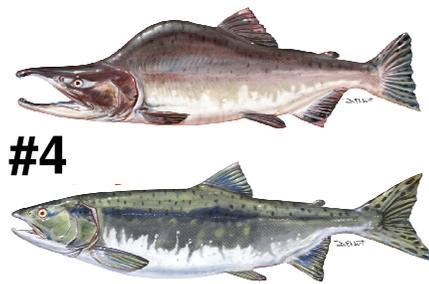
**2012 Invertebrate Collection Season**

Collecting benthic insects every fall from local streams has become a Streamkeeper tradition, and this year was no exception. Insects were gathered from sites on Siebert, Morse, Ennis, Barnes, Indian, and Valley Creeks. Fewer sites were visited than in the past due to budget constraints, but from the volunteers' point of view, the quality of this year's experience was very high. Benthic collecting in Indian Creek, a tributary of the Elwha River, had to be done with extreme care, due to the presence of spawning Chinook salmon. Lake Aldwell is gone, as is the dam that created it, and salmon are finding their way up the Elwha for the first time in almost 100 years. Spawning Chinook were also encountered in Morse Creek. The collecting sites were in that part of Morse Creek where the North Olympic Salmon Coalition has been restoring habitat for salmon spawning. This year's benthic collectors not only saw salmon restoration in action, but also saw that restoration does indeed work.

The volunteer Bug Sorting Team has five new microscopes this year, which should make the job of sorting easier. The scopes were purchased with a grant from the Washington Department of Fish and Wildlife. The Sorting Team has started working on this season's samples and would love more help! RSVP.



**Zack Hovis** has headed off to college, but before leaving, he was able to help with counting Chum on JimmyComeLately. On the morning this photo was taken he netted 207. Thanks for your help, Zack!

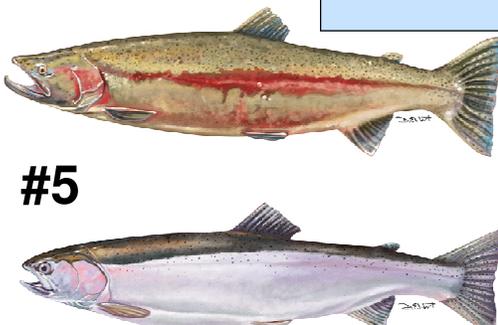


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**Thank You, Interns, Wade Raynes and Joe McDonald**  
 Wade and Joe are Huxley College of the Environment students who interned with Streamkeepers, helping with a multitude of jobs, activities and efforts. They manned the office, helped plan and execute the training of new volunteers, helped manage the equipment, helped with data entry, took part in all areas of monitoring activities and served at a time when we needed them the most. We thank them and wish them the best as they complete their studies and hopefully continue working for the cause.



**? KNOW YOUR FISH ?**

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**Robert Knapp Takes New Position**

Robert joined the Streamkeeper program in 2008, helping with the EPA-funded stormwater-management grant. His skills in sampling plan development, electronic technology, statistical analysis, and geographic information systems (GIS) made him a key player on our team. In 2011, budget cuts forced us to relinquish him to the county’s Planning Division, but he continued to cheer us on from the sidelines. Now, he has just accepted a position as Restoration Planner for the Jamestown S’Klallam Tribe.

Thanks and congratulations, Robert!

**Bob & Carol Dunlap in Serious Accident**

Our hearts go out to **Bob & Carol Dunlap**, SK volunteers who were in a serious accident recently. Their motor home and SUV collided with the rock face along the 101 highway south of Quilcene. Carol, who was most seriously injured, was taken to Harborview with 2 broken arms and a broken leg, but is now in good spirits, with virtually no pain, scheduled for release from Crestwood Convalescent Center on Nov. 1. Excerpts from Bob’s description of the accident and aftermath:

*...quickly someone was on the scene calling 911. Very soon others appeared who helped keep us stabilized until others arrived. These angels are unknown to us, but not forgotten. Carol was removed from the truck with the Jaws of Life, and taken by helicopter to Harborview Hospital in Seattle. I was taken by ambulance to Harrison Hospital in Bremerton. They took x-rays of all my body parts, then sent me home, and I suffered no more than being stiff for a couple of days.*

*I am struck by many acts of kindness coming from a host of people, both known and unknown. There is no way to express the appreciation we have for all the love and care. We will not forget it.*

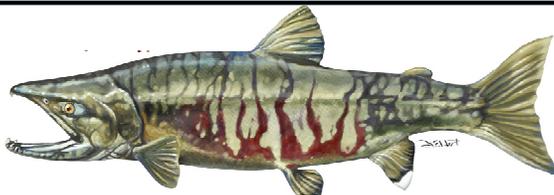
Our best wishes to Carol for a speedy recovery.

**Custom-made online forms to make data-entry easier**

Streamkeepers **Phil Morgan-Ellis** and **Jinx Bryant** are designing a new look for our database entry team. As most Streamkeepers spend the majority of their time in the field, it’s problematic to face a computer at the end of the day! Entering the monitoring data with the precision and diligence solid data requires, means understanding a very complex data system, and to this point, all data entry has been performed in the office by specialized volunteers.

However, with all the great computer devices available today, Phil and Jinx decided to create customized data-entry sheets and to go online for their solution. The look and feel of the data entry form will be more closely aligned with the data sheets for ease of entry, and eventually Streamkeepers will be able to enter their data in the field, on a tablet or mobile phone!

*(Editor’s note: You mean no more “write-in-the-rain” paper data forms?)*



**? KNOW YOUR FISH ?**

**#6**



Can you identify this male and female species of spawning Salmon? Look for others throughout this issue of the newsletter. Answers on last page.

Letter from Valli Sanstrom, ex-Streamkeeper, serving in Tacloban, capital of the Philippine province of Leyte...

Hi to all my SK family and friends,

Thanks for staying in touch! I still have hopes of being able to use GIS skills here in Coastal Resource Management . We are aiming to create Ridge to Sea management plans; this is just starting in a few places, but here in Inopacan, there is already an established island marine sanctuary (German NGO work), and soon a CRM plan the municipality has been working on for two years will go before the SB (elected legislative body) for approval. The plan includes several Marine Protected Areas in nearby municipal waters. I'm lucky to be at this site where my work in CRM is not starting from scratch but will be in strengthening the needed conservation and protection provided for in the plan. Fingers crossed, hope the SB approves the plan.

Neighboring municipalities are working on same thus the vision to create much-needed corridors of MPAs. This is a food security issue, as the fish populations are in a state of collapse. One of my duties will be working in the field with the fisher-folk to promote their adherence to the regulations and doing much education in the local barangays, especially the nine coastal barangays.

With this being a more progressive area, development of watershed management has potential. When I first stepped off the plane in Tacloban I was very pleased to smell clean fresh air and the three hour drive here was beautiful, much of it along coastline. I'm still in awe of the difference in waste management. There is very little trash to be seen and no burning of trash (plastics). They are separating waste, recycling and in competition with neighboring municipalities for who is the cleanest.

Life is good, I miss you all. Valli

### Valley Creek Bug Dig #8

“Dig in streambed, catching invertebrates in net. Dump contents into pan. Pick out any large specimens and place in alcohol jar.”

—As we follow these Steps,  
conceived by Scientists and part of  
our Grand Design to Protect the Planet,  
a dozen years of this routine having  
carved itself into our minds and sanded our digging tools smooth,  
suddenly, out of the jumble of leaves  
you, Stonefly, emerge  
big as my finger in your exoskeletal glory,  
casing your surroundings,  
swimming to keep your gills working in the stale water;  
then you, Crayfish, peek out from the pile,  
clicking your gold-laced castanets,  
wondering what the hell is going on—  
You who have carved out a living in this bulldozered stream:  
As we put you in the jar,  
the Steps fall away;  
I want to prostrate myself,  
beg forgiveness,  
swear  
you will not die in vain.

*by Ed Chadd*

**Bull Trout Surveys**

Fall is here and that means that it's time for Bull Trout spawning surveys. Since 2005 Streamkeeper staff and volunteers have conducted spawning surveys in the upper Dungeness and Graywolf Rivers. Sadly, this will probably be the last year that Streamkeepers conducts these surveys, due to funding cuts. The surveys involve hiking through forested landscapes in the Buckhorn Wilderness Area, putting on waders, and wading down scenic rivers. It's not too late to take part in this year's search for Bull Trout spawning activities. If interested contact **Coleman Byrnes** at [swampdog@olympus.net](mailto:swampdog@olympus.net) or **Steve Bengston** at [sandy@olypen.com](mailto:sandy@olypen.com).

**Native Plants Available Free from Dungeness National Wildlife Refuge**

The following plants are available from the Dungeness Natl. Wildlife Refuge for planting this fall:

*Aruncus dioeicus*-Goatsbeard  
*Chamerian angustifolia*-fireweed  
*Elymus glaucus*-blue wildrye  
*Athyrium filix-femina*-ladyfern  
*Rubus paraviflorus*-thimbleberry

*Ribes bracteosum*-stink currant  
*Physocarpus capitatus*- Nine bark  
*Sambucus racemosa*-red elderberry  
*Pinus contorta*- Shore pine  
 Sedge *carex* spp.

Streamkeepers will be putting together a bulk order. If interested, contact Tara Morrow at [tmorrow1960@yahoo.com](mailto:tmorrow1960@yahoo.com) or 775-4324

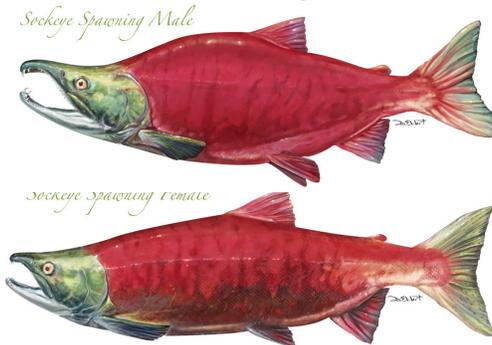
**? KNOW YOUR FISH ?**

For info on viewing salmon go to: <http://peninsuladailynews.com/article/20121023/NEWS/121029981/updated-8212-the-courageous-salmon-of-the-sol-duc-who-says-you>

**#1 Chinook**



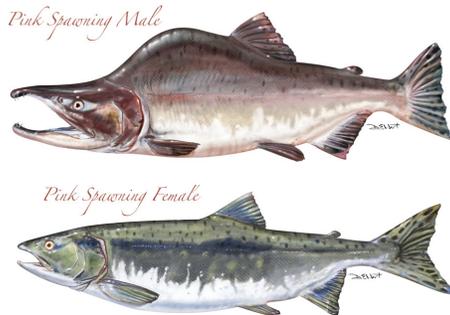
**#2 Sockeye**



**#3 Coho**



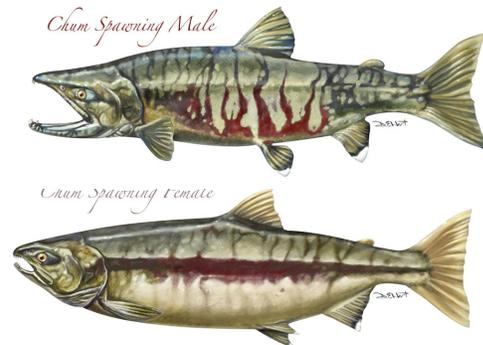
**#4 Pink**



**#5 Steelhead**



**#6 Chum**



Thanks for permission to use these beautiful images: to artist David W. Ehlert and Thomas Quinn, author of *The Behavior and Ecology of Pacific Salmon and Trout*. Poster and book available at <http://fish.washington.edu/people/tquinn/>.

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