



# "TROUT LINES"



## TROUT IN THE CLASSROOM EGG DISTRIBUTION DAY SATURDAY OCTOBER 27TH

Egg day for TIC was Saturday October 27th at the Kanawha County Schools Elk Center at Crede. At this time each participating school received approximately one hundred seventy five eggs each. The day starts with a brief explanation of the care and upkeep of the tanks, filters and chillers that must be done in order to keep the eggs viable through the hatch, fry stage and fingerlings up to the release date.

the fish creates a link between caring for the fish and caring for the water. The focus is on caring, growth, the seasons, and understanding life cycles. The students also explore water chemistry, the nitrogen cycle, natural resource management and watershed geology and ecology.

Release or stocking day has evolved into a day long event for many of the participating schools, with quite a few of the parents attending these events also. The students will make posters, write poems and songs to their soon to be released trout.

KVCTU now sponsors twenty three schools with an additional eleven on a the waiting list. We are now at the maximum we can support without increased member and donor participation. In the beginning KVCTU purchased and loaned the equipment necessary to begin a schools TIC project. With time the chillers are starting to show their age and stop functioning. As it now stands KVCTU has enough equipment to provide a backup for any chiller that fails until a new one can be purchased by the school to replace it. To expand the number of



schools means KVCTU will need to find the funding to purchase additional tanks, filtering equipment and chillers. But, most of all it will take additional member participation. If you are willing to volunteer a couple of hours a week to this project, or wish to see it expand to more schools contact Jack Williams

Each school representative taking part must bring a cooler with ice, after receiving their allotment it is off to the respective school to deposit the eggs into their new home. These tanks are generally fifty gallon equipped with chillers and filters to maintain the constant fifty-two degree temperature trout require to grow.

Over the next several months leading up to release day students will learn to test the water for the proper chemical levels required to raise trout from the egg stage to fingerling. Caring for the fish starts to foster a conservation ethic in the students, and the act of walking to a stream bank and releasing



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## Loop Creek S.O.S.

By  
Larry Orr

Five members of KVCTU conducted a WV DEP Save Our Streams (SOS) survey of Loop Creek on September 29, 2012. There was no participation by anyone from the community. This was the sixth survey completed by KVCTU on Loop Creek and detailed results can be found on the WV DEP Volunteer Database (<https://apps.dep.wv.gov/dwwm/wvsos/vad/login.cfm>).

The stream was high and muddy; so much that the survey was almost "not doable". Visual determinations and bug collecting were difficult, due mainly to not being able to see the stream bed because of the muddy water. The flow was 23 cubic feet per second which is high, but was less than the 81 cfs flow found on May 30, 2011. The water was classified as "muddy" for this survey, but was "murky" for the May, 2011 survey. The total bug count at 200 was the lowest to date for this stream, but was comparable to the May 30, 2011 survey where 288 total bugs were collected and identified.

The Biologic Integrity was 78.9, which is a "good" rating. This index takes into account the number of different types of insects found and their tolerance to pollution. This rating is comparable to past ratings for Loop Creek.

The Riffle Index was 4.23 and Integrity Score was 94.4, which is an "Optimal" rating. This index is based on a series of 100 visual determinations of the type of material found in 10 sections of the stream bed. The percent sand was found to be 15. This sand percentage and rating are comparable to past

ratings for Loop Creek.

Local citizens had reported that Loop Creek was running "heavy yellow" twice in September from Ingram Branch down. This would presumably be from the operation of the waste water treatment facility at Ingram Branch. Concern has also been expressed about siltation from the logging operations upstream near the Wriston Church and runoff from mine operations into Taylor Branch and Open Fork. There was minimal flow in Open Fork during this survey and there was some siltation from Taylor Branch. There was no visible siltation in the area of the Wriston Church.



Alvan Gale and Larry Orr

There was a noticeable "sewer" odor in the water at the Camp Branch Road survey site and the amount of algae present would indicate some impact from the waste water treatment discharge. Sand levels continue to indicate sedimentation from mining and logging operations, but the indexes do not indicate identifiable damage to the stream quality at this time. Surveys will continue twice per year to monitor this stream. Come out and join the fun.



## Watershed Restoration, the New Job Growth Sector

By Cathy P. Kellon, Ecotrust

It's late August on Abernathy Creek in western Washington State and a construction crew is awirl hauling wood to replace log jams that have been absent from this stream for decades — all part of an effort to reconnect the stream with its floodplain. After each frequent rainstorm here in the Northwest, sediment clouds the water and the swift, rutted channel leaves few places for young fish to find refuge or returning salmon to spawn. The crew is supported by the local Cowlitz Tribe and a number of other public and private partners who hope to reset the system's natural ecological processes and see salmon return in higher numbers.

Over four months, this project crew will carve out historic meandering channels, replace large wood in-stream, and plant native riparian trees and shrubs. In the end, the stream will wander back and forth laterally so it can craft what salmon ecologists call a “mosaic of shifting habitat,” shaped by seasonally varied pulses of water, nutrients, sediment, and wood, which will, in turn, be a boon to biological diversity and salmon productivity.

Projects like this are also key to human productivity, and they are creating a whole new economy in the Pacific Northwest and beyond. Call it the Restoration Economy.

A University of Oregon study from 2010 found that each \$1 million invested in forest or watershed restoration generates between 14.7 and 23.8 jobs, and between \$2.1 and \$2.6 million dollars for the local economy. Earlier this year, we at Ecotrust applied the U of O's economic multipliers for restoration work to a catalog of Oregon projects from 2001 to 2010 and found the projects generated an estimated 6,483 jobs and nearly a billion dollars in economic output around the This is just the tip of the iceberg, because we know that restoration work is occurring across the country. The National Oceanic and Atmospheric Administration has found that its restoration projects

produce up to 33 jobs per \$1 million invested, where the work involves labor-intensive activities like tree planting.

Restoration projects go well beyond typical “environmental” work — traditionally good jobs for fisheries scientists and academics. Projects create jobs for construction workers, landscapers, heavy equipment operators, and technical experts such as engineers. Restoration projects also create demand for local businesses, such as plant nurseries, quarries, and others. The restoration on Abernathy Creek in Washington is illustrative. To date the project has employed engineers, general contractors, a rigging company, and suppliers of wood and rock materials. All told, six private firms have been awarded contracts and there is still more work to occur this fall, when nursery materials will be bought and help is needed with streamside planting.



Workers restore natural stream flows along the Abernathy Creek. Photo: Sam Beebe, Ecotrust

*restoration jobs pay themselves twice, first in creating good, local jobs immediately, and then, for many decades to come, through increased benefits from fisheries, tourism, and resiliency for coastal communities.” -Eric Schwaab, NOAA's assistant administrator for fisheries*

And, unlike in many other sectors of our economy, restoration jobs can't be outsourced to far-off places. A University of Oregon study found that 90 cents of every dollar spent on restoration stays in the state of

(continued on pg. 4)



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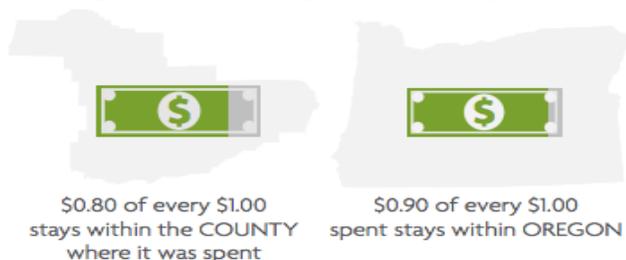
Oregon, and 80 cents of every dollar spent stays in the county where a project is located. And restoration tends to drive economic development and job creation in rural communities, which typically have higher unemployment rates than their urban neighbors.

The long-term benefits that result from restoring natural capital — improved water and air quality, fish populations, and overall biodiversity — all continue to accrue and pay out over time, providing natural advantages for local, regional, and national economies. And while a monetary value can't — or more importantly, shouldn't — be ascribed to absolutely everything, it's a fact of life in our modern society that if you count something, it winds up counting more. We're just starting to count the full benefits of the Restoration Economy.

Figure 1. Average number of jobs per \$1 million of investment by select sector<sup>1</sup>



Figure 2. Restoration project funds stay local<sup>2</sup>



Editors note: This article compliments the recent Gazette article (Friday Oct. 26th "Stream dreams") on the restoration efforts on the upper Shavers Fork. It helps to clarify the cost benefits of undergoing such a worth while effort.

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## UPCOMING KVCTU EVENTS

- November 13th, Membership Meeting, South Charleston Library 7:00PM-9:00PM Program will be West Virginia Trout Stream Insects, Presented by Alvan Gale. You will learn about mayflies, caddis, and stone flies in the streams you fish. Bring a fly for the “DoorFly Drawing” and as always Charlie will have the fly sales before and After.
- November 27th, KVCTU Board Meeting, South Charleston Library, 6:30PM– 8:30PM
- Please note the back page for newly elected board members and officers.

## KVCTU Winter Classes Update

As in past years, KVCTU is not conducting classes this fall. This time of year seems like folks are just a bit too busy with fishing, football, soccer, zip lining, running the rapids, jumping off bridges and who knows what else to want to sit inside a classroom. But, this doesn’t mean that we are not thinking about those classes, and more importantly, we are already working towards their start in January 2013.

Like last year, 2013 plans call for two sessions, the first starting in January. Introduction to Fly Fishing, Beginning Fly Tying and Beginning Rod Building will be offered in the first session. The second session will immediately follow the first and include Intermediate Fly Fishing, including video taping and review of participant’s fly casting, Intermediate Fly Tying and Intermediate Rod Building.

In past years, additional “specialty” classes, such as Winter Fishing and Wilderness Fishing, have been presented. If KVCTU members have any suggestions for a particular subject matter to be considered this coming year, now is the time to tell us. Send you ideas and suggestions to Charlie Krepps at [cmkrepps@suddenlink.net](mailto:cmkrepps@suddenlink.net) or Ken Eigenbrod at [kene.wv@suddenlink.net](mailto:kene.wv@suddenlink.net).

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## WV DNR Has e-Books on Website

The West Virginia Department of Natural Resources put many of its educational books and pamphlets on line as eBooks. The books, including their *Wild Cookin’ Recipes Cookbook*, can be read on line or downloaded to your computer, iPhone, iPad or other eReader. The books can be reached via the link on the DNR’s main website <http://www.wvdnr.gov/> and “Free Wildlife eBooks” can be found on the right side under the heading “Publications/Programming” or go directly to them at this address: <http://www.wvdnr.gov/Publications/Ebooks.shtm> Hint: In some of the pamphlets, the print is quite small; however, just click on the text and expands to a large size.



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