

CONSERVATION QUARTERLY

FALL 2011

SUCCESSFUL RESTORATION PROJECT IN ENTIAT SLOWS EROSION WHILE IMPROVING FISH HABITAT

In the summer of 2010, Cascadia Conservation District, in partnership with landowners and the US Bureau of Reclamation, undertook a salmon habitat restoration project. This project will not only help salmon recovery, but will also assist landowners by slowing the erosion they were experiencing at abnormal rates on their streambank along the Entiat River. One year and several high flows later, the project is performing as designed and is considered a success.

habitat for the Endangered Species Act-Listed Upper Columbia River Spring-run Chinook salmon, Steelhead, and migratory populations of Bull trout. One of the biggest factors affecting fish survival in this stretch of the Entiat River is the lack of Large Woody Debris.

The portion of the Entiat River where this project is located contains spawning, rearing, and migratory

The long term goal of the Preston Reach/Yurt project is to reestablish woody riparian vegetation at the site.

Preston Reach/Yurt site pre-construction in August 2010.



Preston Reach/Yurt site post construction in September 2011.

To do this, the project proposed to combine the installation of 14 Large Woody Debris structures along 645 linear feet of existing bank with an accompanying 100 foot wide 1.9 acre riparian planting zone behind it.

Prior to restoration, the Preston Reach/Yurt site was experiencing an accelerated erosion rate of approximately 6-10 feet per year. The streambank was vertical, and most of the woody riparian vegetation had been cleared from the bank and the adjoining floodplain leaving a grassy meadow vulnerable to erosion.

In order to establish the riparian vegetation, a wet planting bench was excavated below the Ordinary High Water Line with a riparian planting zone behind the wet bench at existing grade. The bench varies in width from approximately 20 to 30 feet and the depth was cut from 3 to 4 feet then transitioned at a gentle slope to the existing grade. The bench created a narrow, frequently wetted floodplain planted with species such as willows, dogwoods, and alders. The remaining 100 foot width was planted with riparian species such as

(Continued on page 2)

POSTAL

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US
POSTAGE
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PERMIT # 40
Wenatchee,



2012
NATIVE
PLANT
SALE

See page 3 for more information and an order form.

SUCCESSFUL RESTORATION PROJECT

(Continued from page 1)

Ponderosa pine, and native shrubs.

The theory behind this is that the 100 foot band of plantings will provide the root structure necessary to stabilize the river bank, slowing erosion to a more natural or normal rate while eventually reintroducing woody debris back into the river.

The installation of the Large Woody Debris structures will provide immediate habitat complexity benefitting fish while protecting the streambank from accelerated erosion, thus giving the new riparian plants time to establish.

Ongoing monitoring of the constructed project indicates a plant survival rate of approximately 75%, no

displacement of any of the log structures, and minimal erosion of the bank behind the structures. As the plantings continue to grow, less and less of the construction and wood structures will be visible.



Large Woody Debris structures and riparian plantings at Preston Reach/ Yurt site in September 2011.

ICICLE RIVER MIDDLE SCHOOL STUDENTS ASSIST CONSERVATIONISTS AT LOCAL RESTORATION SITE



Icicle River Middle School students help plant native vegetation at a riparian restoration site on Chumstick Creek.

Local landowners, Icicle River Middle School (IRMS), and Cascadia Conservation District have joined forces this fall for a riparian clean-up and restoration project in Leavenworth. A riparian area is the vegetated area along or around a body of water, such as a river, lake, or stream.

John and Wendy Fishburne have been working with Cascadia to devise a management plan for the riparian area and adjacent hillside on their property along Chumstick Creek. This fall, they expressed a wish to have local students involved in the restoration project.

Work was conducted over a two-week period. During the clean-up portion, over one hundred 8th graders from IRMS removed old garbage caches from

LARGE WOODY DEBRIS FORUMS PLANNED

From culvert replacements to on-farm improvements to instream structures, a lot of work addressing salmon habitat needs has been accomplished.

Over the next several years, large wood and engineered log structures will be more common habitat projects. These types of projects address a critical habitat need for fish, and they also bring with them a number of questions and concerns.

In order to make sense of the variety of approaches to wood projects and address the hazards of these projects, Chelan County is working with a number of project proponents, including Cascadia Conservation District, to develop guidelines for large wood projects. Topics to be addressed include long-term maintenance costs, liability, ownership, safety, and design. There will be a number of opportunities for the local community to participate in the development of these rules.

For additional information please contact Cascadia Conservation District at (509) 664-9370 or www.cascadiacd.org.

the hillside, dug out invasive Himalayan blackberry roots, and hauled bags of invasive weeds out of the project site. Perhaps the most exciting find was a several-hundred-pound engine part a group of students and teachers managed to drag up the hillside and into the awaiting dumpster.

The same students returned to the site the following week to plant native trees and shrubs. They were taught proper planting techniques and learned about the importance of riparian areas for fish and overall stream health, such as bank stabilization, shade for cooling water temperatures, and filtration of pollutants by root systems.

The students plan on returning to the Fishburnes' to help Cascadia with monitoring the success and progress of the planting site.

Thank you to the Fishburnes, the Washington Conservation Corps, and the Icicle River Middle School 8th graders and staff for their hard work and enthusiasm!

For more details and pictures of this event, visit our blog: ccdconservationconversation.blogspot.com.

Cascadia has worked with many landowners throughout Chelan County to improve natural resource management and stewardship. For example, this year Cascadia is collaborating with four landowners to plant riparian vegetation along a one-mile stretch of stream bank on the Entiat River.

Restoring riparian areas by first removing invasive weeds and trash and then planting native vegetation has many benefits, not only to the environment but, to the landowner. Some of the benefits include reduced loss of property due to erosion, invasive weed suppression, increased property value, flood attenuation, and improved water quality and fish habitat.

If you own streamside property in Chelan County great opportunities exist for you to get help restoring your land! Contact Cascadia at (509) 664-9370 or www.cascadiacd.org to get more information.



ANNUAL NATIVE PLANT SALE

Cascadia Conservation District is now accepting orders for our annual native plant sale. This year we will be offering 14 different plant species suitable for a variety of planting projects. Many of the plants are also considered fire-resistant and make excellent choices for your FireWise landscape.

The plants are available as bare-root stock, meaning they do not come in pots or burlap bags. They are harvested from the field in winter when the plants are dormant and arrive ready to be replanted in your landscape.

The plants are sold in bundles of 10 stems with the exception of the Ponderosa pine. Ponderosa pine are offered in either bundles of 25 stems or bags of 200 stems. An order form is included below.

A color brochure with photos and information on the plant species we are offering is available on our website at www.cascadiacd.org or by calling our office at (509) 664-9370. **All orders must be received by February 15, 2012.**

Plants are sold on a first-come, first-served basis and quantities are limited. A minimum 50% deposit is required to hold your order. Fully

prepaid orders are appreciated. We are sorry, but we are unable to accept credit cards at this time. When completing your order form, please select one of the two available pick-up dates.

Plants will be distributed at the Stemilt Growers Warehouse in north Wenatchee. A map to the pick-up site will be sent to you along with a reminder as your selected pick-up date approaches. Please be aware that any unclaimed plants will be considered abandoned and used for conservation projects. There are *no* refunds for plant orders not picked up.

Please refer to our website, www.cascadiacd.org, for a list of commonly asked questions related to the plant sale. Inquiries should be directed to Julia Leach, AmeriCorps Intern, at (509) 664-9370.

In addition to the plant sale, we are also sponsoring a free workshop titled "Native Planting 101." The workshop will be held on **Saturday, February 4, 2012 from 12:30-4:30pm**, in the Chelan County PUD auditorium at 327 North Wenatchee Ave. in Wenatchee. "Native Planting 101" will cover a wide variety of topics including how to prepare your site for planting and planting for success.

The workshop will also feature local native plant restoration experts.

For more information or to RSVP contact our office at (509) 664-9370 or visit our website at www.cascadiacd.org. Space is limited, so reserve your spot today!

STOCK TYPES

1-0 bareroot (1-0)
Grown in seedbed for one year. They represent the smallest stock type and therefore the easiest to plant correctly, however, plan for weed control.

2-0 bareroot (2-0)
Grown two years in seedbed. They are bigger and better able to compete with surrounding vegetation and can withstand light to moderate browsing by wildlife.

plug
Container grown in greenhouse for one year. Roots are still encapsulated in soil. They are similar to 1-0 stock in terms of planting ease, competition with surrounding vegetation, and susceptibility to browsing.



Cascadia Conservation District 2012 Native Plant Sale

Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone Number: _____
 Email Address: _____

Plant	Stock	Height	Sold As	# Bundles	Price/Bundle	Order
Conifers:						
Ponderosa Pine	2-0	12"+	200 per bag	_____	x \$120.00 each	= _____
Ponderosa Pine	2-0	12"+	25 per bundle	_____	x \$30.00 each	= _____
Deciduous Trees:						
Quaking Aspen	2-0	12"+	10 per bundle	_____	x \$15.00 each	= _____
Rocky Mountain Maple	1-0	12"+	10 per bundle	_____	x \$13.50 each	= _____
Vine Maple	2-0	12"+	10 per bundle	_____	x \$14.50 each	= _____
Shrubs:						
Black Hawthorne	1-0	12"+	10 per bundle	_____	x \$14.50 each	= _____
Blue Elderberry	1-0	12"+	10 per bundle	_____	x \$13.50 each	= _____
Evergreen Huckleberry	plug	3-6"	10 per bundle	_____	x \$47.50 each	= _____
Golden Currant	1-0	12"+	10 per bundle	_____	x \$13.00 each	= _____
Mock Orange	2-0	12"+	10 per bundle	_____	x \$15.00 each	= _____
Red Osier Dogwood	1-0	12"+	10 per bundle	_____	x \$13.50 each	= _____
Russet Buffaloberry	1-0	12"+	10 per bundle	_____	x \$13.00 each	= _____
Serviceberry	1-0	12"+	10 per bundle	_____	x \$14.50 each	= _____
Woods Rose	1-0	12"+	10 per bundle	_____	x \$14.50 each	= _____
Ground Cover:						
Kinnikinnick	plug	3-6"	10 per bundle	_____	x \$32.50 each	= _____

Ordering Instructions

- Complete order form.
- Select a pick-up day.

_____ **March 31, 2012**
 10am-1pm
OR
 _____ **April 14, 2012**
 10am-1pm

Plant distribution will take place at the Stemilt Growers Warehouse in north Wenatchee.

A map to the pick-up site will be mailed to you with your receipt.
- Please bring or mail your order form with payment to:

Cascadia Conservation District
 215 Melody Lane
 Wenatchee, WA 98801

Questions?
(509) 664-9370

Thanks for supporting your local conservation district!

Minimum 50% deposit is required to guarantee order.

Subtotal = _____

Add 8.1% WA State Sales Tax

Total = _____

We do not accept credit cards at this time.
Sorry for any inconvenience.

For office use only: receipt # _____ paid _____ outstanding balance _____

WE NEED YOU...



...TO JOIN OUR BOARD OF SUPERVISORS...

Cascadia Conservation District is self-governed by a Board of Supervisors who work to establish priorities, set policy and direct the work of Cascadia staff. Registered voters residing within the Cascadia Conservation District boundary* who are interested in guiding conservation efforts in Chelan County are encouraged to run for office. Board members are unpaid volunteers who serve a three-year term and must be available to attend monthly meetings.

To announce your candidacy:

1. Obtain an information form and nominating petition by calling our office: (509) 664-9370 or visiting our website: www.cascadiacd.org.
2. Collect signatures from at least 25 registered voters in the District.
3. Submit completed information form by December 15, 2011. Include the nominating petition to get your name printed on the ballot.

*The Cascadia Conservation District boundary currently includes all of Chelan County except for the incorporated cities of Wenatchee and Chelan.

...AND TO VOTE!

If you don't have the time to serve on the Board, then make your voice heard by voting for your preferred candidate.

Registered voters within the District boundary are eligible to vote. The election will be held during the annual Pear Day conference on January 18, 2012 in the lobby of the Wenatchee Convention Center from 8:30 am to 3 pm.

For questions regarding the election please call us at (509) 664-9370.

WELCOME ABOARD!

Cascadia is pleased to welcome our new AmeriCorps intern, Julia Leach.

Julia graduated from Western Washington University with a Bachelors of Science in Biology and a minor in Environmental Science and Music. After an extended backpacking vacation in New Zealand, she settled in Leavenworth last year. Julia now enjoys exploring the Central Cascades wilderness with her family and 7-month old Alaskan malamute, Lupine.



CASCADIA
CONSERVATION DISTRICT

215 Melody Lane Wenatchee, WA 98801
(509) 664-9370 • www.cascadiacd.org

Board of Supervisors

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Mike Sandidge, *Resource Specialist*
Susan Dretke, *Resource Specialist II*
Julia Leach, *AmeriCorps Intern*

This newsletter is funded in part by grants from the Washington State Conservation Commission, the Washington State Department of Ecology and other public and private granting entities.

Please Remember to Recycle

UPCOMING MEETINGS & EVENTS

Cascadia Conservation District Board Meetings

November 17 3:30pm, at 215 Melody Lane in Wenatchee (Methow Room)
December 15 3:30pm, at 215 Melody Lane in Wenatchee (Tonasket Room)
January 19 3:30pm, at 215 Melody Lane in Wenatchee (Tonasket Room)
Meetings are open to the public. Attendees asked to check in at front desk.

Entiat Habitat Subcommittee Meetings

November 17 from 9am-12pm at the Chelan County Fire District #1, 206 Easy Street in Wenatchee
December 15 from 9am-12pm at 215 Melody Lane in Wenatchee (Wenatchee room)
January 19 from 9am-12pm at 215 Melody Lane in Wenatchee (Wenatchee room)

Entiat Watershed Planning Unit (EWPU) meeting

January 4 from 9am-12pm at Entiat Grange Hall, 14108 Kinzel St., Entiat

Wenatchee Watershed Planning Unit Meeting

January 25 from 9am-12 pm, location TBD
Contact Mary Jo Sanborn at (509)-667-6532 for more information.

Wenatchee Habitat Subcommittee Meeting

November 16 from 9am-12pm in Leavenworth
December (date TBD) from 9am-12pm in Leavenworth
January 18 from 9am-12pm in Leavenworth
Meetings are usually held at the fire hall or CPUD on Chumstick Hwy. For more information, visit the Chelan County Natural Resources Department website at <http://www.co.chelan.wa.us/nr/>.

NCW Community Success Summit

November 16, 9am-3pm at The Commons at Chief Joseph Dam, Bridgeport
For more information contact Nancy Warner with the Initiative for Rural Innovation & Stewardship (IRIS) at (509) 881-1812 or nwarner@applecapital.net or visit the IRIS website at irisncw.org.

Ties to the Land - A workshop for the whole family

Dates and locations to be determined
For more information please visit <http://ext.wsu.edu/forestry> or contact Andy Perleberg, WSU Extension Forester, (509) 667-6540; andyp@wsu.edu
Maintain family ties to the land from generation to generation

Cascadia Conservation District has launched a blog: Cascadia's Conservation Conversation!

Please check it out at: <http://ccdconservationconversation.blogspot.com/>

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