



MISSION

Providing opportunities for stakeholders to cooperate in promoting and sustaining the health of the watershed and its communities.





🟊 WHO WE ARE

Members of the North Santiam Watershed Council are local volunteers who share an interest in improving the health of the watershed in partnership with interested landowners and land managers. Utilizing scientific assessments, the council facilitates projects, partnerships, and actions that improve watershed health.

NSWC BOARD MEMBERS

Operations Committee

Brad Nanke, Chair, City of Salem **Brent Stevenson**, Vice Chair, Santiam Water Control District **John Caruso**, Secretary/Treasurer, Marion County

Steering Committee

Suzette Boudreaux, Little North Fork Santiam Sub-basin Tom Fencl, Middle North Santiam Sub-basin Mike Kroon, Natural Resources, ODF Jan Irene Miller, At Large, Landowner Debbie Paul, At Large, Linn SWCD Bill Sanderson, Recreation & Economic I Lawrence Schwabe, Grand Ronde Tribe Jon Tucker, Lower North Santiam Sub-basin Vacant – At Large, Economic II

STAFF

Rebecca McCoun Council Coordinator Sarah Dyrdahl Regional Projects Coordinator Lance Wyss Regional Projects Coordinator Eric Andersen Regional Monitoring Coordinator

DETROIT

North Santiam River Watershed

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FINANCIAL SUMMARY: 2013-2015

Revenue	
Federal	\$ 98,464
State	\$ 240,052
Local	\$ 20,000
Foundation	\$ 105,811
Donations	\$ 17,232
Total Revenue	\$ 481,559

Expenses	
Salaries	\$ 184,711
Operating Costs	\$ 20,846
Project Costs	\$ 265,579
Total Expenses	\$ 471,136



Cascade Pacific Resource, Conservation & Development, a 501(c)(3) non-profit organization, is the North Santiam Watershed Council's Fiscal Sponsor & Employer of Record To learn more visit: http://www.cascadepacific.org



WATERSHED RESTORATION SUMMARY

Lower North Santiam Sub-Basin	Activity	2012 2015	
Stout Creek	Riparian Planting & Instream Large Wood	2013-2015	
Valentine Creek	Riparian Planting	North Santiam	
Bear Branch	Riparian Planting	Watershed	
Hatch Side Channel	R. Planting, Instream Large Wood, Crossings	Restoration	
Cold Creek	R. Planting, Instream Large Wood, Crossings		
Middle North Santiam Sub-Basin	Activity	Riparian Planting Acres	
		72	
Snake Deford Confluence	Riparian Planting & Instream Large Wood		
Snake Deford Restoration	Riparian Planting & Instream Large Wood	Number of Native Plants	
Mad Creek	Linn County Bridge	Planted	
Upper North Santiam Sub-basin	Activity	73,515	
Upper North Santiam River	Instream Large Wood	Number of Large Wood	
Horn Creek	Instream Large Wood	Instream Structures Added	
Marion Creek	Instream Large Wood		
Lower North Santiam 2015-2016 Planned Activities		22	
		Number of Improved	
Dieckman Slough	Riparian Planting & Instream Large Wood	Crossings	
Bird Haven Slough	R. Planting, Instream Wood, Crossing	2	









RESTORATION



Snake Deford Creek Restoration Project

The North Santiam Watershed Council has been working with landowners in the Snake Deford Creek sub-basin since 2008. The restoration projects in the Snake Deford sub-basin were funded by the Oregon Watershed Enhancement Board (OWEB), BLM Title II project grants, and by the USDA Farm Services CREP program. Projects have included adding large wood structures to the streams, removing non-native invasive plant species, planting native trees and shrubs, and installing livestock exclusion fencing in the riparian areas. Two undersized culverts have also been replaced with larger structures that now allow year round fish passage.

In 2014, the NSWC worked with Joseph Yost, a local Mill City streamside landowner to install large wood for fish habitat, control invasive species (invasive ivy, holly, and blackberry), and plant close to 10,000 native trees and shrubs along Snake Deford just upstream of the confluence with the North Santiam River. The watershed council will help the landowner maintain the project site until the riparian plantings are free to grow.



Sarah Dyrdahl, Regional Projects Coordinator and landowner Joseph Yost (March 2015). Nearly 10,000 native trees and shrubs were planted along Snake Deford Creek.

Cold Creek Restoration Project Completed in 2014

OWEB Restoration grant funds were used to build on an existing Natural Resources Conservation Service (NRCS) Riparian Wetlands Reserve Program (WRP) project between Cold Creek and a reach of the lower North Santiam River. The WRP placed two permanent conservation easements on 331 acres with the intent of restoring riparian gallery forest to the North Santiam River riparian corridor. Cold Creek is a small, year-round tributary to the North Santiam River, that flows through the project area. OWEB grant funds were used to **replace two undersized culverts** located along Cold Creek that were impeding passage of adult and juvenile threatened Upper Willamette River Chinook and Winter Steelhead. Funds were also used to **place 30 large wood fish habitat structures** in the stream, **restore an alcove for Oregon chub**, **treat noxious weeds** and **plant approximately 3,900 native trees and shrubs** along the tributary.

*Project partners included two landowners, Marion SWCD, NRCS/ WRP, USFWS and the USFS.







The North Santiam Model Watershed Program

Since 2009, the Bonneville Environmental Foundation (BEF), the Meyer Memorial Trust (MMT) and the Oregon Watershed Enhancement Board (OWEB) have worked together on a unique approach to watershed restoration in Oregon's Willamette River basin. The North Santiam, South Santiam, and Calapooia Watershed Councils started working regionally to form the Santiam-Calapooia Model Watershed Collaboration and are one of the seven organizations that were chosen to participate in the Model Watershed Program.

In the North Santiam Watershed, Stout Creek, Valentine Creek, and Bear Branch Creek are part of the Model Watershed Restoration Program. All three watersheds are located in the upper extent of the Lower North Santiam Watershed, which drains approximately 113 square miles of land. It is the most heavily populated portion of the watershed, containing the communities of Jefferson, Marion, Stayton, and Lyons. Geren Island, the drinking water facility for the City of Salem, is also located in this portion of the watershed. Thus, water quality in each of these sub-basins impacts the water quality of the North Santiam River. All three tributaries in the program are listed as essential salmonid habitat and exceed summer temperature standards. It is for the above reasons these tributaries were chosen for the Model Watershed Program. The NSWC is using the lessons learned and tools developed through restoration and monitoring in these sub-watersheds to expand their efforts to improve overall watershed health to the entire North Santiam River Basin.



North Santiam Model Watershed Accomplishments (2008-2015)

Model Water- shed	# of Projects	Re-vegetation Acres
Bear Branch	6	27
Valentine Creek	5	9
Stout Creek	14	24



NORTH SANTIAM FOREST COLLABORATIVE

In the fall of 2013 the North Santiam Watershed Council, with grant funding provided by the National Forest Foundation, assisted with the formation of the North Santiam Forest Collaborative. The collaborative is a "decision making" group of stakeholders that is assisting the US Forest Service Detroit Ranger District and the watershed council with identifying and prioritizing restoration activities in the Upper North Santiam watershed.

Mission: The mission of the North Santiam Forest Collaborative is to draw upon the knowledge base of a diverse collaborative to identify and address the issues and opportunities that will ultimately improve the ecosystem function and resilience of the headwaters of the North Santiam River Watershed while contributing to the economy and job market of the North Santiam Canyon.

In the spring of 2014, with the help of the natural resource specialist from the Detroit Ranger District, over 40 potential restoration projects were identified in the Breitenbush sub-basin. In the spring of 2015, three natural resource subcommittees were formed: 1. Roads, Fish Passage & Fish Habitat, 2. Recreation & Trails, 3. Vegetative Management (fuels & invasive weeds) & Wildlife Habitat. The subcommittees will be meeting separately in the coming year to further discuss and prioritize restoration activities in the Breitenbush Watershed.



An "All Lands Approach" We all rely on the watershed systems for various reasons: recreation, timber, special forest products, we call it home, it provides fish and wildlife habitat, it contains road systems we rely on and it can be our drinking water source. With such diverse uses and sometimes competing interests we need to take a holistic approach to managing these lands.





US FOREST SERVICE PARTNERSHIP

Detroit Lake Logs: From "Hazards to Habitat"

Since the construction of the Big Cliff and Detroit Dam wood can no longer pass downstream, so it collects in Detroit Lake. Every spring the US Forest Service Detroit Ranger District sweeps and removes the wood from the lake for summer boater safely. From 2009 to 2014 the US Forest Service donated approximately 300 large wood pieces to the North Santiam Watershed Council to use for instream habitat restoration projects below the dams. In stream large wood structures help retain sediments, creates pools and can help provide shade and protection for all aquatic life. The donated large wood was used in restoration projects on Snake Deford Creek, Stout Creek, Dieckman Creek and Cold Creek.





Large wood decked for Lower North Santiam Project



MONITORING

The North Santiam Watershed Council (NSWC) engages in water quality and effectiveness monitoring at many of their restoration project sites.

The NSWC's **water quality monitoring** efforts involved monthly sampling for the bacteria *E.coli*, dissolved oxygen, pH, specific conductivity, temperature, turbidity, total suspended solids, combined nitrate-nitrite and total phosphorus. By analyzing the results over a long term, the NSWC will have a better understanding of stream health and where to prioritize restoration action. Sampling sites are located throughout the Lower North Santiam basin, including Stout Creek, Valentine Creek, Bear Branch and Marion Creek. The water quality monitoring efforts were funded through grants by the Oregon Watershed Enhancement Board and the Oregon Department of Environmental Quality



Project **effectiveness monitoring** is one of the tools used to determine if our restoration actions, such as stream side planting, livestock fencing and in-stream wood placement are achieving the goals that the NSWC set out to achieve. During the summer of 2013 field season, the NSWC assessed stream temperature, the quality of stream habitat for fish, and the conditions of the stream side areas, such as the presence of invasive species. Project effectiveness monitoring occurred at a total of six sites: two on Stout Creek, two on Valentine Creek and two on Bear Branch. Funding for project effectiveness monitoring is through the Oregon Watershed Enhancement Board, the Bonneville Environmental Foundation and Meyer Memorial Trust.



The mean percent of the mid canopy layer of the riparian zone composed of nonnative invasive plants decreased at all 4 treatment sites. The graph shows a decline in invasive species where restoration and ***plant establishment** are occurring in the North Santiam Model watersheds 2010-2013.

> ST = Stout Creek BB = Bear Branch Creek VT = Valentine Creek

*Plant establishment (spring, summer, and fall treatments using Best Management Practices) continue for up to five years or until plantings are free to grow.





COMMUNITY ENGAGEMENT

Minto Fish Collection Facility Tour September 2013



CREP Tour September 2013



Invasive Species Awareness Booth - Stayton Summerfest 2014

"Your Watershed Your Community"

The North Santiam Watershed Council takes actions to help increase public awareness and participation in the watershed council and its activities, and provides needed information to landowners on activities that will help them protect and improve the health

of the watershed. July 2013 through June 2015 Activities Minto Fish Collection Facility Tour Fall 2013 Evans Creek Slide Tour October 2013 CREP Restoration Tour Fall 2013 Invasive Weed Workshops Spring & Summer 2014 Niagara County Park Ivy Pulls Spring 2014 Earth Day Booth at Santiam High School April 2014 Stayton Summerfest Booth July 2014 Stayton Wilderness Park Weed Pull July 2014

Detroit Lake Shoreline & Riverside Clean Up 2014 Camp Taloali Tree Planting February 2015 Jawbone Flats Open House June 2015



First Annual Detroit Lake Shoreline & Riverside Clean Up September 2014





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