Funding Opportunities for Source Water Restoration and Protection







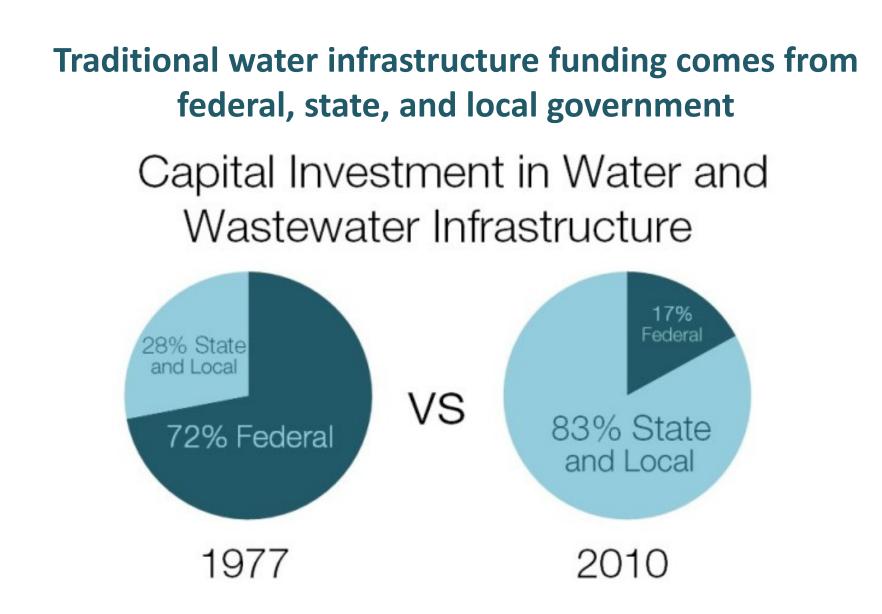






Drinking Water Providers Partnership

Julie Harvey - Oregon DEQ Marlies Wierenga – WildEarth Guardians Cathy Kellon – Geos Institute



Data: Congressional Budget Office. Graphic: Circle of Blue at https://www.circleofblue.org/2014/world/u-s-water-systems-deteriorated-slow-change-need-new-strategy-money/





Source Water Conservation & Restoration Financing Sources

- Local, public funding
- State and federal funding
 - Private funding



Source water financing – Questions to consider

What's the money for?

BMPs vs education campaign vs habitat project vs easement acquisition

> Who pays? Beneficiary (ratepayer) or others?

When do you need the money? One-time or restricted payment vs continuous or recurring revenue stream?

How much control do you want/need? Who sets financing terms? Liability? Ownership? Who can receive these funds and has the capacity to secure & manage them? Eligibility criteria? Transaction costs? Ability to repay debt?



Sample Funding Sources

LOCAL

- •Utility rates, surcharges, fees
- •Budget appropriation
- •Taxes (sales, property, income, etc.)
- •Fines
- •Special Districts
- •Bonds (borrowing)

STATE & FED

State Revolving Loan Funds + many other **grant and loan** options (DoC, USDA, HUD, FEMA, etc.)

PRIVATE

•Grants: Foundations, Corporations etc.

•Borrowing: PRI

OTHER

Asset management. E.g., diversify revenue streams if town/district owns forestland:

- Carbon credits
- Timber & special-forest products
- Water quality trading market
- Leasing in-stream water rights
- Easements



Sample Financing Mechanisms

LOCAL Who pays?

Utility rates, surcharges, fees
Budget appropriation financing
Taxes (sales pelpertyresident income calc.)
Fines ciaries
Sectial Districts Bonds (borrowing)

STATE & FED

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•Grants: Private foundations, Corporations etc.

•BorrowingOne-time or recurring income?

OTHER One Grants sife revenue streams if Asset managemetinges, ants sife revenue streams if town/district owns forest dimited duration • Carbon credits

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State Revolving Fund Grants and Loans



Lebanon/Albany South Santiam McDowell Creek Bates Site: Pre-project 2010

- ✓ Grants: Up to \$30,000 per public water system to reduce risk in source area - no match required
- ✓ Loans: Up to \$100,000, low interest. i.e. land acquisition or incentive based protection measures

- Drinking Water Source Protection Grants/Loans
 - ✓ part of DW SRF search for OHA Source Protection Fund
 - ✓ PWS must be applicant

McDowell Creek Bates Site: Post-project



DW Source Protection Grant Examples

Road Assessment and Engineering Design

(Lincoln City Water District, Glide Water Association) Turbidity Monitoring, Erosion Assessment & Riparian Restoration (Siletz Watershed, Umpqua Basin, Santiam Watershed) Rural Landowner Assistance for septic systems, animal management, private wells (Clackamas, McKenzie, Irrigon, Rivergrove)

Pesticide Stewardship and Waste Collection (Clackamas, Island City, Enterprise and Haines)

Algal Blooms

(Lowell, Cottage Grove, Salem, Springfield, South Coast lakes) Enhanced Assessment, GIS risk analysis

(Medford/Grants Pass, Clackamas, Bend, Prineville, Creswell, Cottage Grove, Langlois) Watershed Management Planning

(Seaside, Cottage Grove, Coburg,)

Other:

Signs, cameras and security fencing (Baker City)

Wetland Treatment of Stormwater Runoff (Eugene/Springfield)

State Revolving Fund Grants and Loans

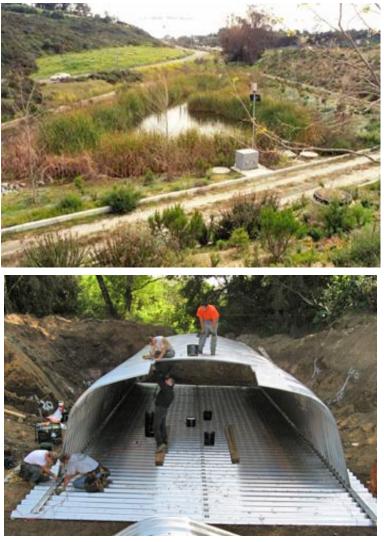
- Watershed protection projects through Clean Water State Revolving Fund
 - Aligned with DEQ's "Nonpoint Source Management Program Plan"
 - Sponsorship Option to combine nonpoint source control project with wastewater facility project financing - sponsored project done at no cost or substantially reduced cost due to low interest rate
 - Low interest loans available for land purchase or nonpoint source work
 - ✓ Local Community Loan use funds to establish a local loan fund for citizens



Eugene Springfield Metropolitan Wastewater Management Commission Riparian shading linked (financially) to treatment system improvements Partnership with MWMC and The Freshwater Trust

Other State Funding Sources

- Clean Water Act Nonpoint Source Grants (§ 319)
 - ✓ Generally < \$30K</p>
 - Must have 9-key elements watershed plan and address priorities in RFP – contact DEQ Basin Coordinators
 - ✓ Match required (40%)
- Supplemental Environmental Projects
 - Respondents to DEQ compliance and enforcement orders
 - ✓ SEP Option for up to 80% of monetary penalty to improve Oregon's environment



Rowdy Creek - Siuslaw National Forest

Sample Funding Sources

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•State Revolving Loan Funds (grant and loan financing)

Grants: Government, Foundations, Corporations etc.

THER

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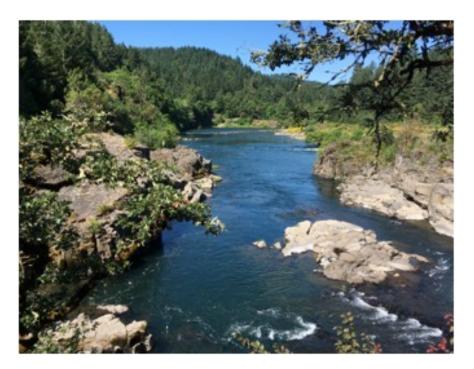
GRANT SOURCES

- **Federal***: USDA, NRCS, Forest Service, NOAA, EPA, Fish & Wildlife Service, Bureau of Reclamation, etc.
- State: OWEB, DEQ, ODFW, OWRD, ODA, OLCD, etc.
- Private: foundations and corporations

See also: Catalog of Federal Funding Source Watershed Protection

Drinking Water Providers Partnership

- Goal 1:
 - Restore and protect the health of watersheds which communities depend upon for drinking water while also benefiting aquatic and riparian ecosystems, including the native fish that inhabit them.











Drinking Water Providers Partnership

- Goal 2:
 - Support local partnerships between drinking water providers, landowners, and restoration practitioners.
- » Provide annual grants



"Watershed restoration is an important and effective way to provide clean, inexpensive drinking water to communities and protect native fish populations, particularly when downstream and upstream users work together."

https://www.workingwatersgeos.org/drinking-water-providers-partnership

Drinking Water Providers Partnership Funding:

- Public and private organizations pooling funds to improve health of drinking ٠ water watersheds and benefit aquatic life
- Locations: a drinking water source area with a federal (USFS/BLM) nexus ۲
- Funding: up to \$650,000/year total available; ullet
 - grant awards of \$10k-\$50k
- Types of projects: environmental conservation and restoration ٠
- Applicants: NGO's, tribes, municipalities,...federal \$ can go to most any org ۲
- Request for Proposals just released with applications due Jan. 29, 2019 ۲
- Review: Projects submitted from Oregon and Washington are reviewed and ۲ ranked by nonprofit and agency representatives







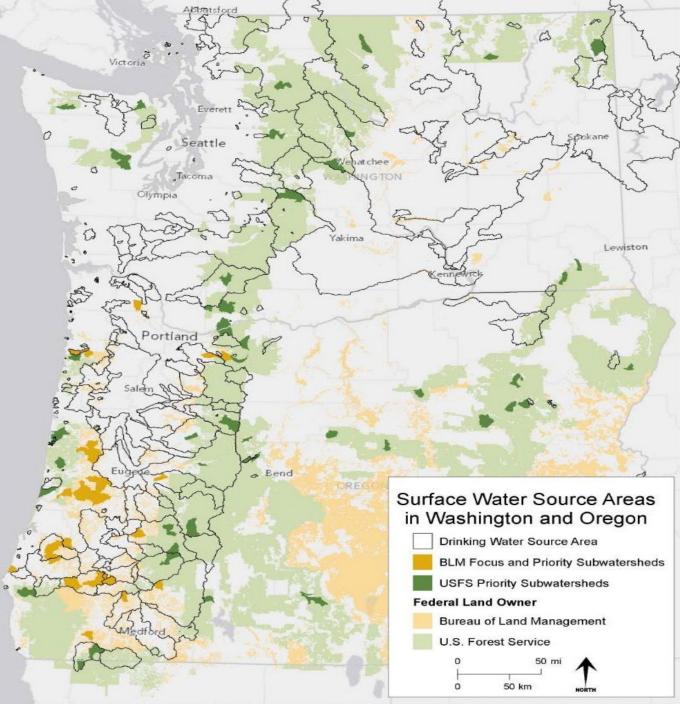








DWPP Grants – Surface Water Source Areas



Data sources: Washington Department of Health, Oregon Department of Environmental Quality, USDA-FS, Esri, Geos Institute

Examples of eligible DWPP projects

- Culvert removal and traditional culvert replacement with streambed simulation type culverts or bridges
- Addition of road drainage culverts to route road runoff
- Removal of dams or other large obstructions (not for permitting); breaching or removal of levees and tide gates
- Road decommissioning, road modification, storm-proofing
- Reestablishing river flow patterns, meanders, and channels that have been previously altered
- Restoring stream complexity and roughness, increasing streamflow travel times
- Reducing pesticide application rates and loadings in source area
- Installation of fencing

- Reforestation or replanting
- Development of educational flyers/brochures for purposes of public education
- Implementation of educational outreach projects emphasizing watershed resource conservation
- Planning and preparation for the purchase of lands within the drinking water source area
- Planning and preparation for the purchase of water for instream flow purposes
- Installation of signs at boundaries of zones or protection areas
- Development of an Ecosystem Services project in watershed to fund preservation areas



Drinking Water Provider Partnership: 2016 - 2018 Funded Projects



ID

Project Sites by Year 2016 Funded Projects

Stouts Fire Salmon and Watershed

Example: GLIDE, OR

- Problem: High risk of sediment delivery to the North Umpqua River (drinking water source for Glide) due to deteriorating culverts on Forest Service roads.
- Solution: Identify highest risk locations and restore roads to reduce hydrologic risk.
- DWPP funds were used to remove 8 crossdrain pipes; remove 4 old culverts at stream crossings and 8,000 cubic yards of fill; pull back steep road fill; prevent erosion with native straw, seed and slash.



Sample Foundation & Corporate Grant Sources



Spirit Mountain Community Fund

RESER FAMILY







A Weyerhaeuser





Youth. Environment. Community.



MEMORIAL TRUST

The Burning Foundation



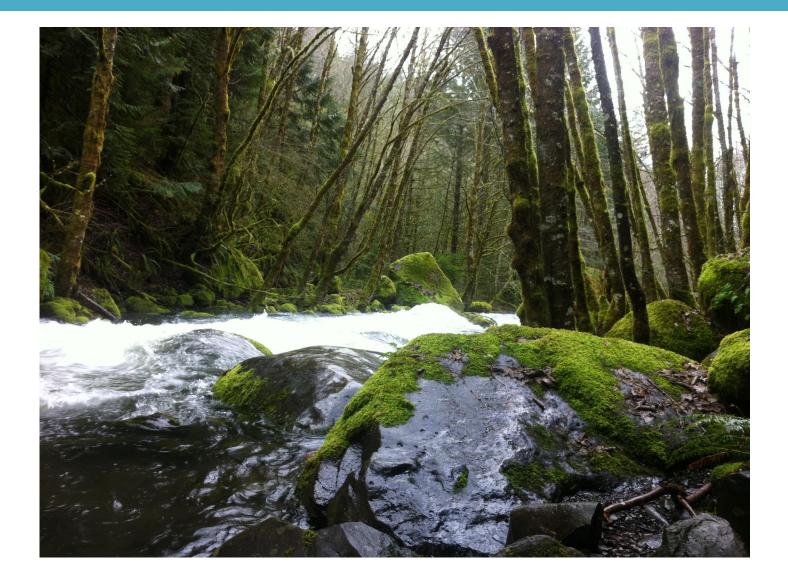
FOUNDATION



Things to consider about **private foundation grants**

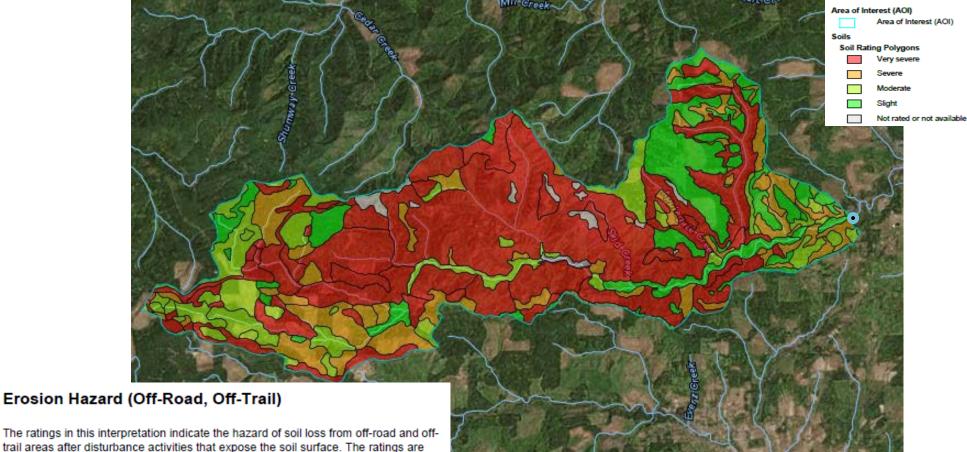
- Typically one-time awards
 - Multi-year awards less common
- Match usually required
 - Grants customarily used to leverage other funding
- Usually for assessment/planning processes, outreach/education, or project implementation (habitat work)
 - Not typically for capital expenses
- Administrative burden highly variable by source
- Municipalities/utilities may not be eligible recipients
 - Nonprofit and grassroots partner groups are good partners for securing/managing funding, leading on-the-ground work, etc.

Questions?



City of Dallas – The Challenge 1987 Rockhouse Creek fire lead to increased sediment in creek, Mercer Reservoir and severe erosion.

Drinking Water Source Area & NRCS Erosion Hazard (Off-Road, Off-Trail)



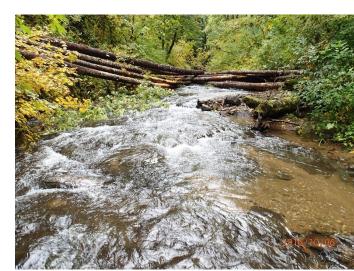
The ratings in this interpretation indicate the hazard of soil loss from off-road and offtrail areas after disturbance activities that expose the soil surface. The ratings are based on slope and soil erosion factor K. The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance.

City of Dallas – The Solution Drinking Water Supply Upper Rickreall Habitat Enhancement

Mutual goals and objectives met in drinking water watershed

- Air-lifted 522 logs for 34 new instream structures placed in 2016
- Improves fish passage and increases woody debris to slow flows in key salmon habitat watershed
- Significantly contributes toward cleaner and more sustainable drinking water supply downstream







Dallas/Rickreall

- Partners:
 - ✓ Polk SWCD
 - ✓ BLM
 - ✓ City of Dallas
 - Protect, keep a reliable, clean drinking water supply ✓ Rickreall Watershed Council
 - ✓ Hancock Forest Management
 - ✓ ...and more
- BLM, DWPP + multiple funding sources
- Strong partnerships led to successful **DEQ CWSRF** loan for City of Dallas land acquisition in drinking water source area



statesman journal

(Photo: Special to the Statesman

cities are growing and, it providers must balance with more demands on And there's a cost to over the next 20 year billion investment in

TWEET

Rivers and streams are the for more than one-half of a

restoring and protecting th water is more important ti

In the Rickreall watershed, which supplies drinking w community groups, landowners and government age nature's ability to help provide clean drinking water. Rickreall Creek has provided a reliable supply of d over 100 years but the creek is often clouded with treatment challenges and has been slowly filling its useful storage life for downstream ratepayers

upper Rickreall Creek is a proven method for re and improving water quality.

Earl Brown Timber companies partner to improve water sources

Oregon

By GAIL OBERST For the Capital Press DALLAS, Ore. - A distant Washington

January 20, 2017

& Sons

sells to

fruit grower

Family members

remain in place

at business

EO Media Group

By GEORGE PLAVEN

MILTON-FREEWATER,

Ore. - Earl Brown & Sons,

Oregon's largest grower and

packer of fresh apples, has

helicopter rises suddenly from a Coast Range forest above Dallas. A log dangles beneath it, hanging from a cable. "It's a bonus!" says Lucas

Hunt, project manager for the Rickreall Watershed Council and the Polk Soil and Water Conservation District. "There are two logs in that load!"? Hunt has reason to be excited. This project will help control sediment that is slowly filling Mercer Reservoir, the

source of the City of Dallas' drinking water. To accomplish improvements to nearly Rickreall C---five miles of upper Rickreall



Polk Soil and Water Conservation District staff tour a helicopter log placement project on private and public forest lands that will help improve C+ Dallas drinking water. THINGS TO DO

nimic what might niffer Bakke pointed to parcels of about 10 forest landowners for whom her company manages forestland. To help with the project. Hancock allowed access to the creeks flowing through those lands, contributed trees to place in streams, donated money and contributed time to review plans. "Our investors expect a

certain level of stewardship in the management of their assets" she said "This project

is an opportunity to show the public that managed forests are entirely compatible with clean drinking water, fish habitat and stream health.

The Rickreall project was one of 11 launched in Oregon in 2016, the first year of the unique Drinking Water Providers Partnership, a public-private collaboration aimed at funding municipal water improvements Other projects included agricultural fencing, culvert repairs and riparian improvements to Fiddle and Billy Moore creeks in Lane County, and plans to build cattle fencing to protect Baker City's municipal watershed.

All of those projects were

made possible by voluntary co-

operation between private land-

owners, public managers and

nonprofit agencies, according

to Cathy Kellon of the Geos

Institute. Kellon helps coor-

dinate the Partnership, which

includes the U.S. Forest Ser-

vice, U.S. Bureau of Land Management, Oregon Depart-

ment of Environmental Quali

ty, Washington Department of

Health, U.S. Environmental

Protection Agency and Wild-

Earth Guardians

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