



## Greetings!

I am delighted to share with you the 2009-2011 Legislative Report for the Oregon Department of Fish and Wildlife's Fish Restoration and Enhancement Program (R&E Program). Since 1989, the R&E Program, under the guidance of the citizen-led R&E Board, has provided over \$42 million to a wide variety of sport and commercial fishery projects throughout Oregon. With the increase in the R&E Surcharge in January 2010, the R&E Board was able to double the funds supporting on-the-ground projects, funding additional projects that support Oregon's anglers and benefit fish and their habitats.

The R&E Program is committed to making sport fishing in Oregon easy, fun and enjoyable. R&E funded projects directly support the science-based management of Oregon's native fish and their habitat, as well as the production of quality hatchery fish to enhance fishing opportunities. The R&E Program also provides benefits for trout, warmwater, and saltwater fishing opportunities. Projects funded by the R&E Program include fishing access improvements, educational programs, creel surveys, habitat enhancement, and fish passage restoration. The R&E program will also continue to provide significant funding for the 25 Year Angling Enhancement Plan, a roadmap ODFW adopted in 2008 to further develop and enhance Oregon's recreational fisheries.



The R&E Program also enhances commercial fishing by funding projects that provide long-term, sustainable benefits to the troll and gillnet fishing fleets. One example of a commercially funded project is the increased production of hatchery Chinook salmon stocks destined for the troll and gillnet fisheries in the lower Columbia River. Commercial funds also have supported a variety of fish habitat projects that improve spawning and rearing habitats —projects that benefit both commercial and sport fisheries.

The R&E Program strives to fund a balanced mix of projects that restore and enhance Oregon's fisheries statewide by working with fisheries professionals, local government agencies, and angler groups. R&E Program funds are typically matched by dollars or in-kind contributions from project sponsors and their partners like the Oregon Wildlife Heritage Foundation, Association of Northwest Steelheaders, Oregon State University, Oregon Watershed Enhancement Board, along with many others. In the 2009-11 biennium, the R&E Program allocated more than \$5.1 million to a variety of projects, matched by more than \$9.6 million in matching contributions – a return of \$2 for every dollar spent by the R&E Program. These connections have helped create valuable partnerships, increased the ability of local angler groups to develop and manage projects, and provided economic benefits to rural communities throughout Oregon.

Finally, I would like to thank the fishing public for its support of our efforts to conserve and enhance Oregon fisheries. It is our mission to ensure that every R&E dollar is well spent and provides real benefits to Oregon fish and their habitats.

Sincerely,

Roy Elicker,  
Director



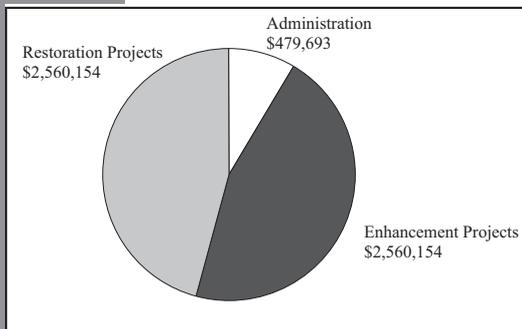
## What is the Fish Restoration and Enhancement Program?

On June 29, 1989, the Oregon Fisheries Restoration and Enhancement Act of 1989 was signed into law. The act established the Restoration and Enhancement Program (R&E program) at the Oregon Department of Fish and Wildlife (ODFW). This act allowed the Oregon Department of Fish and Wildlife to undertake a comprehensive program to fund:

- fish habitat;
- new hatchery equipment and support new hatchery technology;
- additional public access to fishing waters;
- liberation equipment, such as fish stocking trucks;
- public education;
- new fishways and fish screening;
- aquatic inventories; and
- angler access.

With these additional funds, the R&E program will continue to seek out and fund more privately sponsored projects and support ongoing ODFW programs that are integral to fisheries management. These programs include creel surveys, fish research and monitoring, angler education, and hatchery infrastructure and maintenance. Additional funding also supports projects that meet the goals of the ODFW 25 Year Recreational Angling Enhancement Plan, as well as habitat restoration projects that provide quality rearing and spawning habitat for fish that support Oregon's recreational fisheries. R&E projects create economic stimulus in rural and urban communities throughout Oregon. Many local businesses not only supply materials for local R&E enhancement projects but also receive economic income from the anglers participating in fisheries that benefit from R&E Program activities.

Program expenditures are allocated in the same proportion as the revenues received from commercial and recreational contributions. For example, recreational surcharge fees accounted for 79% of the revenue generated for the program in the past biennium while the commercial fees generated 21%. Thus, after accounting for administrative program costs, roughly 79% of program funding has been granted to projects which provide direct benefits to recreational fisheries.



The R&E program, through the actions described above, increases sport fishing opportunities and also seeks to improve the commercial salmon fishery. To generate funding for the program, a \$2

surcharge on all sport fishing licenses was dedicated to R&E along with all revenues from commercial gillnetting and troll fishing permits fees (\$74 and \$65, respectively). A fee of \$0.05 per pound on all commercial salmon troll and gillnet landings was also dedicated to the R&E program. These surcharges and fees became effective January 1, 1990, and continued through December 31, 2009, which was the original sunset date for the program. At the beginning of 2010, the Oregon legislature extended the sunset date from December 2009 to December 2019. At the same time the legislature approved a \$2 increase to the angling license surcharge (now \$4), which has enabled the R&E Program to meet the rapid increase in funding requests over the last few years.



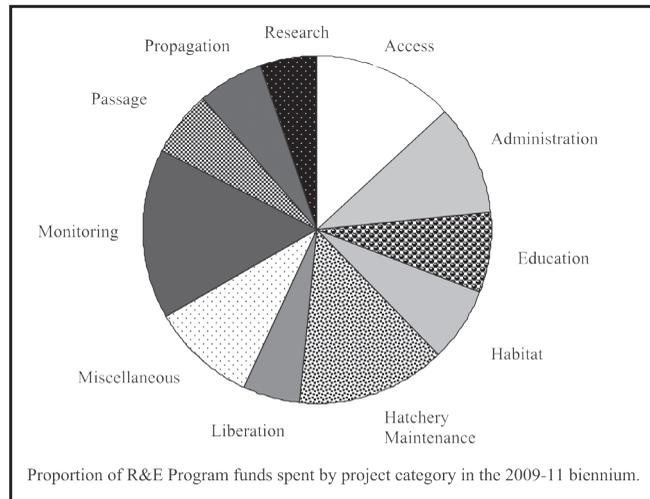


## How Does the R&E Program Benefit Oregon Anglers?

The R&E program is a direct way for anglers to benefit from the fisheries they participate in as angler license fees predominantly support the program. Other examples of direct angler benefits funded by R&E are youth angling events, urban fishing events, angling education classes, and angler recruitment and retention programs that target the diverse angling population in Oregon. The R&E program supports many research and monitoring projects that directly connect to development and implementation of recovery plans for Endangered Species Act or Oregon Sensitive Species listed fish species. Many of these fish species provide important sport-fishing opportunities.

The R&E program is not just for freshwater fish, it also benefits marine species that provide valuable sport fishing opportunities. This biennium, R&E provided the non-profit organization, Oregon Coalition for Educating Anglers (OCEAN), with funds to purchase rockfish and coho safe-release devices for dispersal at the annual Saltwater Sportsmen's Show. The canary and yelloweye rockfish species are currently prohibited species, though many marine anglers still catch these species while targeting ocean salmon and other rockfish. Reducing the bycatch mortality of these prohibited species will help rebuild these stocks, which have made ocean fishing regulations more complicated in the last decade due to their "overfished" status. Funds were also provided for three well-attended angler education events which were held at different locations along the coast and hosted by staff from ODFW's Marine Resources Program.

R&E funding provides additional direct angler benefits by supporting Salmon and Trout Enhancement Program (STEP) hatchery maintenance projects. The ODFW Salmon and Trout Advisory Committee "mini-grant" program, which supports many small grant projects undertaken by STEP groups and educators, is also funded by R&E. Some examples of mini-grant projects are: wild winter steelhead broodstock collection; incubation tanks for egg hatching in school classrooms; habitat enhancement projects; and resources for educational outreach programs that focus on fish propagation, conservation and/or habitat.



This biennium R&E funded crucial repairs on many of our large liberation trucks. These trucks are used to stock a majority of trout and salmon in the northwest, southwest, and high desert regions. Important ODFW hatchery maintenance projects that ensure continued operations would not be completed without R&E support. Some examples include replacements or repairs for old tractors, water system valves, aerators and fish pumps.

## What Types of Projects Does the R&E Program Fund?

The R&E Program is divided into two components — restoration and enhancement. Restoration projects generally fall into four categories: hatchery repairs, maintenance, and equipment; fish liberation equipment; fish ladders, screens and passage; and miscellaneous projects such as creel surveys, and research and monitoring of fish populations. Examples of restoration projects funded in the 2009 - 2011 biennium include:

- Sevenmile Creek Fish Passage Design Project - The purpose of the project was to change two irrigation diversion structures on Sevenmile Creek to ensure fish passage for salmonid species, ensure that maximum flows remain in stream, and repair a defunct fish screen. The original diversion structures could not be accurately adjusted to deliver lesser amounts of water in response to a decrease in water needs.



- Fall Chinook and Coho Fishery Monitoring Program – Funding was providing for overall monitoring and evaluation of Coos River fall Chinook program. This data will help estimate the hatchery contributions to fall Chinook fisheries, and stray rates for hatchery fish to determine their impact on wild populations.
- Crooked River Redband Trout Research – This project obtained information on the interspecific relationship between redband trout and mountain whitefish in the Crooked River below Bowman Dam, and helped determine how stream flow conditions impact abundance and distribution of redband trout and mountain whitefish in the same area.
- Salmon River Hatchery Fish Pump - Funds were provided to replace the old fish pump with a new one which would allow the hatchery to increase the size and number of fish (chinook, coho, steelhead and rainbow trout) being loaded into the liberation truck while also increasing the survival rate of the fish being loaded, which in turn makes more fish available for the fisheries.

Enhancement projects generally fall into the categories of angler access, public education, habitat improvement, new hatchery technology and equipment, new fishways or screens, research and monitoring and other miscellaneous projects such as bathrooms, and invasive fish eradication projects. Examples of the types of projects funded in the 2009-2011 biennium include:

- Phillips Reservoir Fishery Restoration- This is an experimental project to reduce the number of illegally introduced yellow perch in Phillips Reservoir in order to improve the fishery for both rainbow trout and yellow perch.
- ODFW Angler Education Trailers – Funding was provided to help outfit six educational trailers with all the necessary materials to deliver to youth angling events around the state.
- Fiddle Creek Stream Enhancement - This project created a 50ft riparian buffer, 1.2 miles in length on Fiddle Creek, one of the most productive coho streams in Oregon, by establishing native vegetation for soil stability, nutrient retention, providing shade (in time), and the improvement of overall water quality.

- Ceratomyxa Impacts on Upper Klamath River Salmon – By defining the distribution of this lethal parasite, the fish that support it's lifecycle, and the conditions that result in this highly infectious area, the results of this study will contribute to future management decisions which reduce disease effects basin-wide and allow for the successful reintroduction of salmon into the upper basin.
- St. Louis Ponds ADA Path – This project provided access for youth and adult disabled anglers to all of the primary fishing ponds at the ODFW St. Louis Ponds public angling area by constructing an ADA accessible asphalt pathway, and acquiring equipment necessary for maintaining the paths so they remain safe and easily usable.

Given that anglers provide funding for the program, each project proposal is reviewed for direct fisheries benefits before funding approval. The nature of the benefit varies depending on the type of project. Many projects may fall into several categories and have multiple objectives and outcomes.

## Partnerships and the R&E Program

Developing and maintaining partnerships is a major focus of the R&E program. Through funding matches with organizations such as the Oregon Wildlife Heritage Foundation and the Association of Northwest Steelheaders, many proposals for sport fishing projects that provide positive and immediate benefits for Oregon anglers become a reality. Creative R&E partnerships allow ODFW to implement projects that otherwise would not be done due to lack funding or staffing. R&E partnerships provide the public the opportunity to participate in hands-on activities and get a better understanding of resources and recreational fishery management challenges. Partnerships also help to build trust and support between the public and ODFW and foster communication and support. Through collaborating on small local projects with angling organizations, the R&E program helps build public advocacy for fishery resources in Oregon communities that is reflected in local and statewide political support for the program and ODFW.



Below is a listing of program partners which have contributed funds or volunteer time to R&E projects in 2009-2011:

### R&E Program Partners in 2009-2011

Program Partner	Cash	In-kind	Organization Type
Bean Foundation	x		Grant Foundation, Trust
Carpenter Foundation	x		Grant Foundation, Trust
Dussin Family Charitable Trust	x		Grant Foundation, Trust
Meyer Memorial Trust	x		Grant Foundation, Trust
TLC Federal Credit Union	x		Non-Profit Firm
Boy Scouts of America		x	Non-Profit Organization
Wild Horse Foundation	x		Non-Profit Organization
Klamath Basin Rangeland Trust		x	Non-Profit Organization
Blue Mountain Habitat Restoration Program	x		Non-Profit Organization - Conservation
Friends of Fox Creek	x	x	Non-Profit Organization - Conservation
Jackson Bottom Wetlands Preserve		x	Non-Profit Organization - Conservation
Lomakatski Restoration Project		x	Non-Profit Organization - Conservation
Lower Columbia River Estuary Partnership		x	Non-Profit Organization - Conservation
Mule Deer Foundation		x	Non-Profit Organization - Conservation
National Center for Conservation Science and Policy	x		Non-Profit Organization - Conservation
National Fish and Wildlife Foundation	x		Non-Profit Organization - Conservation
Oregon Wildlife Heritage Foundation	x		Non-Profit Organization - Conservation
Rainland Fly Casters		x	Non-Profit Organization - Conservation
The Freshwater Trust		x	Non-Profit Organization - Conservation
The Nature Conservancy Blue Sky Program	x		Non-Profit Organization - Conservation
Tillamook Estuaries Partnership	x	x	Non-Profit Organization - Conservation
Umpqua Watersheds, Inc.		x	Non-Profit Organization - Conservation
Walama Restoration Project		x	Non-Profit Organization - Conservation
Warrenton High Fisheries, Inc.	x	x	Non-Profit Organization - Education
Western Governors' Association	x		Non-Profit Organization - Government Cooperation
Oregon Hunters Association	x	x	Non-Profit Organization - Hunting
Rocky Mountain Elk Foundation		x	Non-Profit Organization - Hunting
Association of Northwest Steelheaders		x	Non-Profit Organization - Sportfishing
Bay Area Sportsman Association	x		Non-Profit Organization - Sportfishing
Oregon Anglers Research Society	x		Non-Profit Organization - Sportfishing
Central Oregon Flyfishers		x	Sportfishing Organization
Flyfishers Club of Oregon	x		Sportfishing Organization
McKenzie River Guides Association		x	Sportfishing Organization
Middle Rogue Steelheaders	x		Sportfishing Organization
North Coast Salmon and Steelhead Enhancement Fund Inc.	x		Sportfishing Organization
OCEAN		x	Sportfishing Organization
Curry Anadromous Fishermen	x	x	STEP Organization / Sportfishing Organization
Oregon South Coast Fishermen		x	STEP Organization / Sportfishing Organization



Program Partner	Cash	In-kind	Organization Type
City of Tillamook	x	x	City Government
City of West Linn	x	x	City Government
Eugene Water and Electric Board	x		City Government
Medford Water Commission		x	City Government
The City of Dallas		x	City Government
Baker County		x	County Government
Columbia Soil and Water Conservation District		x	County Government
Coos County Parks Department		x	County Government
Curry Soil and Water Conservation District	x		County Government
Deschutes Valley Water District		x	County Government
Juvenile Community Justice Department		x	County Government
Polk Soil and Water Conservation District		x	County Government
Bureau of Land Management		x	Federal Government
Bureau of Reclamation		x	Federal Government
Crater Lake National Park Fisheries Program		x	Federal Government
Federal Emergency Management Agency	x		Federal Government
Job Corps Wolf Creek Center		x	Federal Government
NOAA Fisheries	x		Federal Government
US Department of Agriculture - NRCS	x		Federal Government
Sportfish Restoration Fund	x		Federal Government
US Army Corps of Engineers		x	Federal Government
US Fish and Wildlife Service	x		Federal Government
US Forest Service - Resource Advisory Committee	x	x	Federal Government
Astoria High School -Fishery Technology Program		x	State Government
Deer Ridge Correctional Institution		x	State Government
Department of Environmental Quality	x		State Government
Oregon Department of Agriculture	x		State Government
Oregon Department of Forestry		x	State Government
Oregon Forest Resources Institute		x	State Government
Oregon Parks and Recreation Department	x		State Government
Oregon State Parks	x	x	State Government
Oregon State University	x		State Government
Oregon State University Extension Service		x	State Government
Oregon Water Resource Department	x		State Government
Oregon Watershed Enhancement Board	x		State Government
Riverbend Youth Authority		x	State Government
Salmon Trout Enhancement Program		x	State Government
Washington Department of Fish and Wildlife	x		State Government
Pacific Salmon Commission	x		State and Federal
Nez Perce Tribe		x	Tribal Government
Rickreall Watershed Foundation	x	x	Charitable Foundation
Safeway Foundation	x		Charitable Foundation
Samuel S. Johnson Foundation	x		Charitable Foundation
Oregon Community Foundation	x		Charitable Foundation



Program Partner	Cash	In-kind	Organization Type
Brad's Bait and Tackle		x	Business
CHS Garden Center	x		Business
Douglas Timber Operators		x	Business
Howard Prairie Resort		x	Business
McPheeters Turf and Nursery	x	x	Business
Paulina Lake Resort Operators		x	Business
Portland General Electric		x	Business
Rask Excavating		x	Business
Steele and Associates Architects LLC		x	Business
Teevin Brothers Land and Timber	x		Business
Anderson Perry Inc.		x	Engineering Firm
Gramor Development	x		Commercial Real Estate Developer
Forest Capitol Partners		x	Forest Management Investment Company
Bend Metro Park and Recreation District		x	City Government
City of LaGrande	x	x	City Government
City of Lebanon		x	City Government
City of Madras		x	City Government
City of Rainier	x	x	City Government
City of Rockaway Beach	x	x	City Government
Ecotrust	x		Think Tank
Oregon International Port of Coos Bay	x	x	Port
Port of Astoria		x	Port
JWTR, LLC		x	Private landowner / Business
John and Linda Pugh		x	Private landowner
McCormack Ranch	x		Private landowner
Little Butte Creek Watershed Council		x	Watershed Council
Lower Columbia River Watershed Council		x	Watershed Council
Lower Rogue Watershed Council	x	x	Watershed Council
Smith River Watershed Council		x	Watershed Council
South Coast Watershed Council	x	x	Watershed Council
Upper Rogue Watershed Association		x	Watershed Council

## How Does the R&E Program Benefit Commercial Fishing?

The Salmon River Hatchery used R&E funds to construct anti-predator netting for its fish ponds, excavate an abatement pond, purchase components for an intake pump motor and replace a 21-year-old tractor, all of which allowed this hatchery to continue its operations, and improve survival of its Chinook and coho salmon. This hatchery plays a large role in supporting the commercial salmon fisheries in the ocean and the Lower Columbia River. A rock weir at the Klaskanine

Fish Hatchery was finally repaired with R&E funds after being badly damaged in a flood. This allowed for the restoration of proper water flow and fish passage at a hatchery site which produces 350,000 coho and 700,000 fall Chinook salmon smolts destined for commercial ocean troll and Youngs Bay gillnet fisheries. The Waite Ranch Tidal Estuary Restoration Project received funds to conduct assessments and baseline monitoring for a project which will restore 10 miles of tidal channel habitat in the Siuslaw River and provide critical rearing habitat for coho and Chinook salmon as they head to the ocean.



The purchase of 75,000 coded-wire-tags for the Oregon South Coast Fishermen and Elk River Hatchery will allow them to determine the best acclimation and release strategies for their fall Chinook hatchery program so they can maximize contributions to the commercial ocean fishery, while also evaluating stray rates to protect the genetic integrity of wild populations.

## Who Can Apply for R&E Program Funding?

Any public or private non-profit organization may request funds to implement fish restoration or enhancement projects. Typical applicants include:

- Educational institutions;
- Fishing organizations;
- Government agencies;
- Soil and Water Conservation Districts;
- Angler clubs;
- Watershed councils.

The R&E application process has approximately four annual “windows” when applications are accepted. There are eight funding cycles in a biennium, and these cycles allow for projects to be developed and submitted on a continual basis and avoid having all project applications coming in at once. Approximately 20-60 project applications are received each cycle, and although cost share is not required, projects that have multiple partners and show high degrees of match funding are usually preferred by the Restoration and Enhancement Review Board. Angler groups that have federal tax exempt status are especially encouraged to apply. The application is located at <https://nrimp.dfw.state.or.us/RE/> and is a “paperless” on-line application. Applicants complete an electronic R&E application form that becomes the “Project Proposal”. Applicants need to provide a description of the proposed project, the work to be undertaken, the benefits provided to recreational and/or commercial fisheries, a detailed budget, and any other pertinent information. The time frame between the R&E application deadline and the availability of funds for approved projects is approximately 6 months. Once all of the complete proposals are received for a given review

cycle, they will be reviewed in a three-part process, with the first part being a review by an ODFW internal review team. The review team provides scoring and comments from a panel of experts with regard to technical merit and how the proposed project fits within ODFW agency policies and goals.

The second review is by the R&E Board. The legislation that established the R&E Program in 1989 also established a citizen’s advisory board to assist ODFW in administering the R&E program. The R&E Board consists of seven members that are appointed by the Oregon Fish and Wildlife Commission. Each member can serve no more than two, four-year terms. The membership represents the public-at-large, commercial fishing, and sport fishing interests. Board members meet four times a year to review grant applications and conduct other program business. Specifically, the R&E Board does the following:

- Work with ODFW staff to actively solicit a variety of proposals that provide direct benefits to fisheries throughout Oregon;
- Serve as “ambassadors” for ODFW in their communities and encourage local R&E projects;
- Review and make funding recommendations on projects submitted for funding by various organizations;
- Seek public input concerning projects.

Approximately 2-3 weeks before an R&E Board meeting, proposals are sent to R&E Board members along with the ODFW internal review team rankings and comments. At Board meetings, Board members discuss projects and decide which projects to recommend to the Oregon Fish and Wildlife Commission (Commission) for approval. The Board reviews projects for consistency with ODFW fish management objectives and for their contribution to recreational and/or commercial fisheries, fish conservation and recovery, or other fishery attributes. Applicants or other members of the public may make brief statements regarding any project. Applicant presentations typically outline the project, its value, and responses to any concerns expressed by the internal ODFW review or R&E Board. All R&E Board meetings are advertised and open to the public.



The final part of review is by the Commission. Projects that have been recommended for funding by the R&E Board are presented to the Commission by R&E Program staff for final approval. Typically, the Commission follows R&E Board recommendations and applicants do not make presentations.

The R&E program also has two ODFW staff committed to the program. Program staffing consists of one full time R&E Program Coordinator and an R&E Program Administrative Assistant. Administration funding directly comes from R&E Funds and overhead in 2009-11 was 8 percent of the overall program budget.

All applicants are notified of the R&E Board or Commission decisions after the meeting. Successful applicants will receive a grant agreement after the Commission meeting. The agreement will include terms and conditions of project approval and funding commitments. The applicant is responsible for obtaining all local, state, or federal permits required for the project before grant funds are awarded.

## Current R&E Board Members

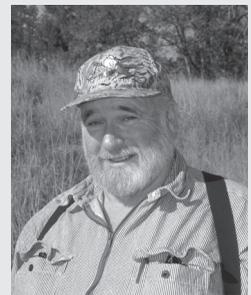


**Bob Bumstead** is a retired school teacher, who now teaches for Pacific University's College of Education in Eugene. He represents sport anglers.



**Dixie Boley**, a part owner of Fisherman Direct from Gold Beach, represents the seafood processing industry.

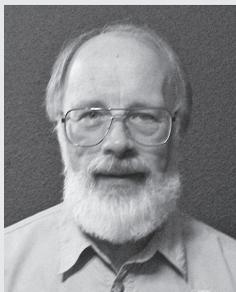
**Gary "Suds" Soderstrom**, a commercial fisherman from Clatskanie, represents the gillnet fishing industry.



**Jack Glass**, a full time fishing guide from Troutdale, represents sport anglers.



**Lonnie Johnson**, a retired printing press operator from Grants Pass, represents sport anglers.



**Bill Lovelace**, a retired real estate broker from Baker City, represents the public-at-large.



**Terry Learned**, a commercial fisherman and dory boat builder from Pacific City, represents the troll fishing industry.



## ***R&E Board Member Perspective***

***Selling Oregon seafood is MY THING! At Fishermen Direct, a small retail/wholesale/processing seafood business in Gold Beach, Oregon, I get to sell the "taste" of Oregon's Commercial Fisheries to locals and visitors. Tasting Oregon-caught Chinook salmon is an opportunity not-to-be missed. Being the daughter of an avid trout fisher, the wife of a commercial fisherman for thirty-two years, a partner in a 40-foot salmon trolling vessel, and an elementary school teacher in Oregon has made my dedication to Oregon's fishery resources strong. As a Board Member for the Restoration and Enhancement Program I am delighted to have the opportunity to encourage the restoration and enhancement of this Great Natural Bounty.***

Oregon's fishery resources can be experienced in so many ways: watching a salmon frantically swimming upriver to spawn; feeling the smooth, silky water, the life blood of fishes; sensing the not-so-sweet smell of a salmon carcass, ending its life cycle; hearing the splash of a fish jumping to catch the perfect bug for dinner; enjoying the delectable taste of grilled Chinook at the summer BBQ. As a member of the commercial fishing community the tasting of fish is near and dear to my heart. I firmly believe that the best way to encourage the protection of this natural resource is to enable people to see it, feel it, smell it, hear it and taste it. The satisfaction I get when a customer reports, "That was the best fish I have ever eaten!" puts a spring in my step and dedication in my heart to provide that taste of Oregon.

The future of Oregon's fishery resources faces many challenges: the alteration and loss of marine and freshwater habitat; competing land-use issues and territorial sea plan changes, differing opinions about the best way to manage fisheries, and predicting climate change and how it will affect Mother Nature. The search to balance these events and competing interests with what is best for Oregon's fishes and fisheries is a tremendous challenge. Promoting ways to help, with

the monies available, is what the R&E Board strives to accomplish. The different backgrounds of the seven R&E Board members help put these challenges facing fish and people into perspective. This is the strength of this working group. Enhancing and restoring habitat, providing funding for new research, aiding with hatchery upgrades, and finding ways to teach and encourage new fishers in Oregon are only a few of the ways the R&E Board helps the Citizens of Oregon see, feel, smell, hear and taste fish.



**Dixie Boley, R.E. Board Member**



## Project Showcase

### Project 09-050 JWTR Fishing Access and Enforcement Project

This project provided funds for road closure administration and maintenance, materials (gates, a fence, angling access maps), equipment rental, and an OSP camera for law enforcement. These items are critical in the habitat restoration and protection efforts being implemented on this important JWTR property. Limiting access within this area will allow vegetation to flourish, fish and wildlife species to exist without harassment, and assist in fish and wildlife population expansion. Limiting access will also decrease illegal and illicit activities such as road destruction, stream damage from four wheelers, trash dumping, and poaching, which have all been chronic issues at this site. Without reduction of these activities, the landowner would have been forced to deny access to all who would like to hunt and fish on this property. There may also be opportunities for habitat restoration activities over time on this site in the future.

**R&E Program Investment: \$36,840**  
**Total Project Cost: \$904,426**  
**Funding Source: Sport**



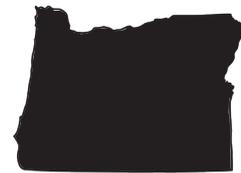
***"JWTR lands represent not only the single largest private land holding in the state, but also some of the most important wildlife habitats***

***and hunting and angling access points in our region. This partnership between JWTR, The Wildlife Heritage Foundation, Oregon Hunters Association, Mule Deer Foundation, Rocky Mt. Elk Foundation, and ODFW through the R&E grant funding program and its sister program, Access and Habitat, has clearly helped to ensure not only that public access to these lands continue, but also that critical habitats and the wildlife that call them home are protected from destructive***

***activities such as off-road vehicle use and egregious garbage dumping. Continued abuse of the privilege offered by JWTR to access these areas was threatened by the bad apples that mistreat and vandalize this property. Thanks to R&E's funding, those that appreciate the resource can still enjoy it."***

**Jonathan Muir**  
 ODFW Assistant District Wildlife Biologist  
 Klamath Watershed District

### Statewide



### Project 09-058 Safe-Release Educational Materials for Marine Fishing

This project purchased coho and marine fish safe release devices for distribution to marine recreational anglers. These educational materials included: laminated fish identification cards for coho salmon; a coho safe release "de-hooker" device; and a bottom fish release devices that were accompanied by instructions and a bag. These items were dispersed using three avenues: 1) A quantity of these items were given to ODFW port samplers working among strategic marine boat docks and boat ramp locations on the Oregon coast; 2) Another portion of these devices and materials were distributed at the annual "Salty Dog Convention" which attracts about 400 marine anglers in Newport; 3) Anglers were also able to request these items through the OCEAN organizational website.

**R&E Program Investment: \$14,000**  
**Total Project Cost: \$14,960**  
**Funding Source: Sport**

***"With the help of the R&E Program we are now able to help educate and distribute information and fish saving devices to many more people. Our efforts have wide sweeping benefits to Oregon. By improving the health of threatened fish, we also contribute to the economic health of our***



*economy. Ocean sport fishing provides recreation for thousands of people. It also supports an entire fishing economy, our coast communities, and greatly affects the upriver spawning of endangered salmon runs."*

**Edmund Keene**  
President, OCEAN

### **Project 09-181** **ODFW Angler Education Trailers**

This project assisted in funding six Aquatic and Angling Education Trailers. These are attractive trailers outfitted with all the necessary angling education materials for youth angling events. They have an advertising "skin" on the outside of the trailer that functions like a mobile billboard as the trailer is pulled from place to place.

**R&E Program Investment: \$24,400**  
**Total Project Cost: \$42,400**  
**Funding Source: Sport**

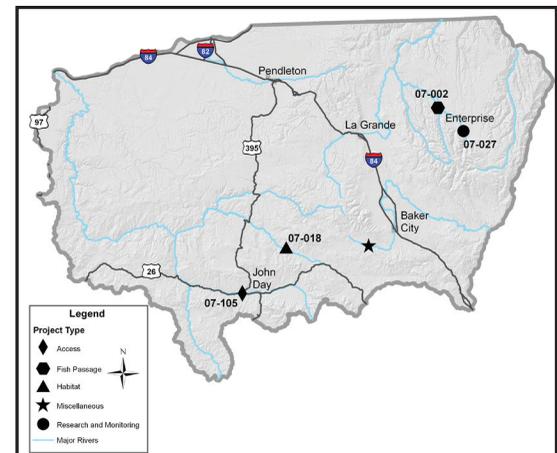


*"This project is an example of a great partnership between R&E, the Oregon Wildlife Heritage Foundation, STEP, and Angler Education programs to give our public fishing events a unified look and increased opportunities to share the joy of angling to all ages."*

**Shahab Farzanegan**  
ODFW Aquatic and Angling Education Coordinator

## **Project Showcase**

### **Northeast Region**



### **Project 09-151** **Lostine River Radio Telemetry Passage Assessment**

This grant funded the purchase of 100 radio tags to help determine how seasonal changes in flow conditions and the presence of diversion structures affect the spawning behavior and productivity of Chinook salmon along the Lostine River. Since the 1950s, numerous watershed assessments have found that low flow conditions and irrigation diversion structures in the Lostine River may have negative impacts on fish movement during spawning migrations. Chinook salmon migrate to Lostine River spawning grounds between May 1st and September 30th. The lowest flow conditions usually occur in August and September, corresponding to the





latter part of the dry season, but this can be exacerbated by concurrent irrigation withdrawals. Before work begins to improve flow conditions on the Lostine River, it is important to understand how flow currently changes throughout the spawning season, and how it affects spawning behavior and passage.

**R&E Program Investment: \$25,228**  
**Total Project Cost: \$79,739**  
**Funding Source: Commercial**

**Project 09-057**  
**Phillips Reservoir Fishery Restoration**

This grant funded materials and staff time needed to help reduce the number of illegally introduced yellow perch in Phillips Reservoir in order to improve the fishery by increasing the growth and survival of stocked rainbow trout, the most prized target species in the reservoir. They also hope to increase the average length of remaining yellow perch in the reservoir by reducing competition for zooplankton, the primary food source for both rainbow trout and yellow perch. Resulting increases in zooplankton abundance could also help control the volume of blue-green algae, which creates a water quality and human health risk. The Phillips Reservoir was once well-known for rainbow trout fishing, but since the introduction of yellow perch, angler days have dramatically declined. A reduction in yellow perch



abundance will serve as the first step towards improving trout fishing on the reservoir and restoring angler

participation and enthusiasm to previously observed levels.

**R&E Program Investment: \$19,961**  
**Total Project Cost: \$54,079**  
**Funding Source: Sport**

*“Funding by the R&E Program and a strong working relationship between Baker County and the ODFW Northeast Region has provided the foundation for carrying forward this important management activity to help restore the Phillips Reservoir fishery. Experimental removal of over-abundant yellow perch gives us the opportunity to assess the efficacy of this technique and determine its role in future management.”*

**Tim Bailey**  
 ODFW Fish Biologist  
 La Grande District

**Project 09-183**  
**Phillips Reservoir Creel Survey**

This project evaluated the contribution of fall sub-legal rainbow trout to the Phillips Reservoir fishery and the effectiveness of mechanical perch removal in achieving improved growth and survival of stocked rainbow trout and increased sized of yellow perch. In addition, the survey documented angler use of the reservoir as compared to pre-yellow perch introduction.

**R&E Program Investment: \$23,485**  
**Total Project Cost: \$26,311**  
**Funding Source: Sport**

*“Having had no funding for seasonal personnel in over a decade, this R&E grant was critical in providing the means for the La Grande Fish District to conduct baseline fishery monitoring at Phillips Reservoir. As a number of management actions are taken to restore this once productive fishery, this information will be a component of measuring success over the long-term.”*

**Tim Bailey**  
 ODFW Fish Biologist  
 La Grande District



**Project 09-029  
Morgan Lake Development**

This project funded renovations at Morgan Lake, a very popular angling destination for local residents as well as out of town visitors outside of La Grande. Renovations included replacement of two poorly designed pit restrooms with vault toilets; installation of a small floating dock next to the boat launch area to provide mooring, fishing and swimming opportunities; and construction of four fishing piers along the south end of the lake. The lake is stocked annually with 23,000 fingerling and 2,000 legal size rainbow trout. Special events such as the Optimist Club Fishing Derby and the ODFW Free Fishing Day draw as many as 400 participants each year.

**R&E Program Investment: \$67,556**  
**Total Project Cost: \$125,292**  
**Funding Source: Sport**

*enhancements, vandalism has decreased and the natural vegetation and environmental degradation has slowed immensely, so recovery after peak seasonal use is much quicker. We have also experienced a great deal of positive feed back and a commitment to future support for the next phase of improvements."*

**Mark Touhey**  
 Parks Director  
 Parks and Recreation Department  
 City of La Grande

**Project 09-034  
Luger Pond Handicap Fishing Access Improvement**

This project funded construction of an ADA accessible fishing infrastructure on an existing gravel pit pond located on the Umatilla National Forest. The project included construction of a floating fishing dock, and an ADA accessible trail that included four pads for wheelchair fishing. There were previously 15 gravel pit ponds in the area that were stocked with trout, but none provided ADA access. ODFW stocked 1,000 legal-sized rainbow trout in the pond to help in developing this fishery. This was a unique opportunity to provide a handicap accessible site in a remote forest setting.

**R&E Program Investment: \$9,173**  
**Total Project Cost: \$13,197**  
**Funding Source: Sport**

*"The project is an example of yet another opportunity for the R&E Program to partner with the Umatilla National Forest to provide a unique angling opportunity. This project will provide handicap anglers with the opportunity to fish for rainbow trout within a remote and beautiful forest setting in the Blue Mountains."*

**Tim Bailey**  
 ODFW Fish Biologist  
 La Grande District

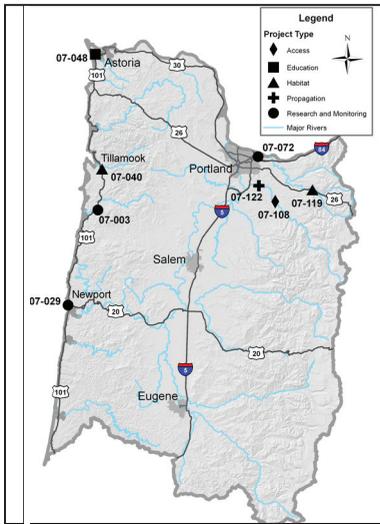


*"The Fish Restoration and Enhancement Program grant saved a popular fishing site from being "over loved" into disrepair. With the new*



# Project Showcase

## Northwest Region



### Project 09-159 Spawning of White Sturgeon in the Willamette River

This proposal funded white sturgeon spawning sampling efforts in the Willamette River below Willamette Falls to characterize white sturgeon

reproduction in the area. The feasibility of estimating juvenile sturgeon levels from the data collected was also evaluated. Information from this project has assisted in white sturgeon management through: 1) identification of spawning habitat and 2) providing recommendations for in-season modifications to hydropower operations (i.e. water flow) to improve spawning habitat and juvenile recruitment in the lower Willamette River.

**R&E Program Investment: \$44,187**  
**Total Project Cost: \$88,674**  
**Funding Source: Sport**

*“Our work, which would not have been possible without a generous grant from the Restoration and Enhancement Board, confirmed a white sturgeon spawning site in the lower Willamette River. This is only the second confirmed spawning location in the Columbia River Basin downstream of Bonneville Dam, and our results suggest that the lower Willamette River may be an additional source of production for this important white sturgeon population.”*

**Tucker Jones**  
 ODFW White Sturgeon Project Leader

### Project 09-054 Astoria High School Fisheries Technology Program

R&E funds were used to fund one science teacher position at Astoria High School. This allowed the Fisheries Technology course to continue through the academic years of 2009- 2011. Astoria High School (AHS) Fisheries Technology is a year-long advanced course in aquaculture and fisheries science providing hands-on experience. Training occurs in the AHS hatchery and at off-campus sites. Without this funding, the current budget issues would have forced the elimination of the Fisheries Technology Program from the school curriculum.

**R&E Program Investment: \$20,400**  
**Total Project Cost: \$45,400**  
**Funding Source: Commercial**

### Project 09-032 McKenzie River Creel and Angler Preference Survey

This project funded personnel and supply costs to implement a 2-year statistical creel and angler preference survey on the Upper McKenzie River to determine catch rates of native and hatchery trout, fishery impacts to native fish, and angling preferences. In May 2008, the Oregon Fish and Wildlife Commission directed ODFW to perform this survey. The last statistical creel targeting trout on the Upper McKenzie River was conducted in 1983. Fisheries management (stocking practices and regulations) and public use of the fishery have vastly changed in the last quarter century. Creel information collected will be compared to the results of previous surveys, where applicable, and will be used to guide management decisions for this popular recreational fishery.

**R&E Program Investment: \$121,297**  
**Total Project Cost: \$162,104**  
**Funding Source: Sport**

*“R&E funding has allowed fishery managers to collect current information about trout angling on Leaburg Lake and the upper McKenzie River, as well as*



*licensed anglers' preferences for trout fishing this river. Among other things, creel results will allow managers to determine how changes to McKenzie River trout stocking impacted angler catch rates from 2009 to 2010. Information such as this will be used to help improve the McKenzie River hatchery and wild trout fisheries."*

**Kelly Reis**

Assistant District Fish Biologist  
Springfield Field Office

*enjoyed having actual fish specimens to examine and biologists to teach them how to properly identify fish, so they knew which ones they could keep and which ones they needed to release. Not only does this assist anglers in following regulations, it may also help with the rebuilding of the two overfished species that are encountered in the marine recreational fisheries."*

**Lynn Mattes**

ODFW Project Leader  
Recreational Groundfish and Halibut

**Project 09-179**  
**Marine Recreational Angler Education Events**

This project funded three angler education open houses, presenting information on proper fish identification, fisheries management, research, fish release methods and regulations. This provided a chance for anglers and ODFW staff to interact one-on-one in an educational format, rather than at public meetings. Two similar events were held in 2009, during which time ODFW was encouraged by the public to continue with similar events in other parts.

**R&E Program Investment: \$3,440**  
**Total Project Cost: \$3440**  
**Funding Source: Sport**

**Project 09-185**  
**St. Louis Ponds ADA Path**

This project constructed approximately 2,320 linear feet of ADA accessible pathway to provide disabled youth and adult anglers the ability to access all of the primary fishing ponds at the ODFW St. Louis Ponds public fishing site. This pathway now provides a primary travel corridor to facilitate disabled angler access to ponds 1, 2, 3, 4, 5 and 6.

**R&E Program Investment: \$69,600**  
**Total Project Cost: \$76,626**  
**Funding Source: Sport**



*"This project provided ODFW staff and an Oregon State University student intern with the opportunity to interact with marine recreational anglers in a one on one, hands-on, educational setting. Many folks who participated really*



*"Funding provided by the ODFW R&E Program supported construction of an asphalt path that will allow disabled anglers to access six popular fishing ponds at the ODFW St. Louis Ponds public fishing area. This path will provide a means for disabled*



*anglers to access multiple ADA-accessible fishing piers and platforms that will be constructed in the near future."*

**Jeff Boechler**

ODFW Watershed Manager  
North Willamette Watershed District

*"This project is an example of a great partnership between the R&E program, the Oregon Wildlife Heritage Foundation, and a dozen private donors that will provide quality fishing for disabled anglers to fish for hatchery salmon, steelhead, and trout."*

**Rod Brobeck**

Oregon Wildlife Heritage Foundation

**Project 09-258  
Jetty Creek Fish Passage  
Technical Assistance**

This project provided fish passage by removing a concrete impoundment which was acting as a complete fish passage barrier. It also sought to improve fish screening at the water intake while expanding municipal water storage. Additional design and permit work was required to begin the restoration phase of this project.

**R&E Program Investment: \$40,249**

**Total Project Cost: \$118,760**

**Funding Source: Commercial**

*"The City of Rockaway Beach and the Lower Nehalem Watershed Council are working to open passage to 1.8 miles of prime coho habitat near the mouth of the Nehalem River. This project will also improve water quality for the city's residents. R&E funds have been critical in maintaining momentum for a project with so many important benefits."*

**Jennifer Holderman**

Coordinator  
Lower Nehalem Watershed Council

**Project 09-059  
Eagle Fern Park Acclimation Facility**

This project funded the purchase of equipment and supplies for the installation of an acclimation pond. This pond now acclimates spring Chinook on Eagle Creek, a lower Clackamas River tributary near Portland. This project also improved angling opportunities by slowing the migration of adult spring hatchery Chinook and concentrated on fish in areas accessible to anglers.

**R&E Program Investment: \$56,300**

**Total Project Cost: \$86,830**

**Funding Source: Sport**

**Project 09-172 & 09-039  
Kids Fishing Camp at Camp Angelos**

This project funded staff, rental, and supply costs associated with the Camp Angelos Youth Fishing Camp. The camp is a one-week resident camp for 80 boys and girls ages 9-14 (some disadvantaged), where campers learn about different types of angling, fishing equipment and safety, the ecology of streams and ponds, as well as fish conservation challenges. Costs for running the camp include daily meals, lodging, all equipment and professional instruction from volunteers provided by the ODFW, the Association of Northwest Steelheaders, and the Oregon Bass and Panfish Club.



**R&E Program Investment: \$18,200**

**Total Project Cost: \$92,118**

**Funding Source: Sport**

*"Fish Camp is one of the ways we hope to reconnect kids with nature. Fishing can arouse the curiosity in all of us about what's in the water, around the bend, or just over that hill."*

**Rod Brobeck**

Oregon Wildlife Heritage Foundation



## Project 09-065 Clackamas Hatchery Predator Netting

The Clackamas Fish hatchery used R&E funds to purchase and install netting materials to cover 3, 80' X 300' asphalt rearing ponds for the purpose of bird exclusion. The fish reared in these ponds include Clackamas River Spring Chinook, Sandy River Wild Spring Chinook, Big Cr. Coho and South Santiam Summer Steelhead. The ponds were open and subject to predation by Blue Herons, Mergansers, Mink, Osprey and Otter. These predators caused an average annual loss of 125,000 smolts (9%) per year and this loss rose to 17.7% in 2008-2009. Valuable commercial and sport fisheries were both impacted by these losses. The hatchery staff had tried other methods with very little lasting success, but has already had much success with the new nets.

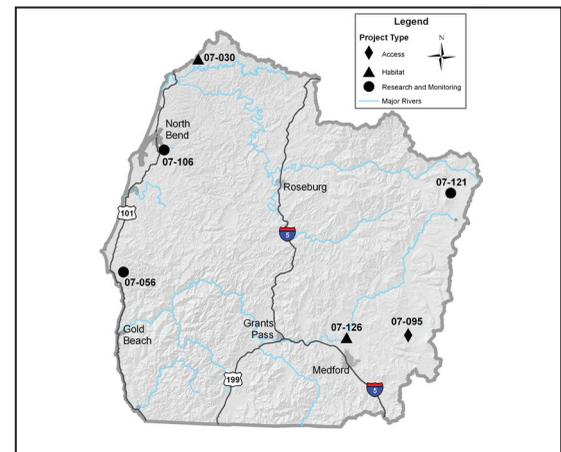
**R&E Program Investment: \$12,501**  
**Total Project Cost: \$35,701**  
**Funding Source: Sport**

*"With a project grant from the R&E program, Oregon Wildlife Heritage Foundation and donated materials and labor from Portland General Electric, the Oregon Department of Fish and Wildlife's Clackamas Hatchery crew was able to construct netting coverage for 3 large asphalt ponds. This protection from bird predation will restore smolt release to production levels and enhance sport and commercial fishing opportunities."*

**Daniel Straw**  
 Clackamas Fish Hatchery Manager

## Project Showcase

### Southwest Region



## Project 09-160 Big Butte Creek Spring Chinook Habitat Enhancement

This project provided habitat enhancement for spring Chinook in Big Butte Creek through the addition of whole trees to the stream channel. Approximately 30 whole trees (with limbs and rootwads) were placed in the Big Butte stream channel to assist in accruing gravel for spawning. Ancillary project objectives were to provide over-wintering habitat for juvenile coho and steelhead, and to increase stream connectivity to the floodplain.

**R&E Program Investment: \$29,990**  
**Total Project Cost: \$35,024**  
**Funding Source: Sport**





***“This project was a partnership between private landowners, a timber company, the Upper Rogue Watershed Association and the R&E program. The R&E program provides a critical funding source for this project, large wood structures in Big Butte Creek. This is the first time a project of this type has been done in Big Butte Creek and will yield important data for future projects.”***

**Peter Mazzini**  
 Coordinator  
 Upper Rogue Watershed Association

**Project 09-169  
 ROCK-ED**

This project funded the construction of a building at Rock Creek Hatchery to house the ROCK-ED program in Douglas County. ROCK-ED is a natural resources-based education project that will provide a variety of conservation and stewardship exhibits, programs, and experiences through an outdoor education center, which will feature forestry, aquatic, wildlife, and ecology information about Rock Creek and other watersheds in Douglas County.

**R&E Program Investment: \$49,500**  
**Total Project Cost: \$292,000**  
**Funding Source: Sport**

***“The Joe Mercep Umpqua River Foundation’s dream to build an outdoor education facility in Douglas County became a reality through a most generous grant from the R&E program and widespread support of other partners throughout our communities. The \$300,000-plus ROCK-ED project, which includes nearly \$50,000 of matching R&E funds, kicked off construction of a 1,300 sq. ft. classroom, an interpretive trail, and an outdoor gathering place with over 100 people attending its ground-breaking celebration on Earth Day in April 2010.”***

**Dave Loomis**  
 Project Manager  
 ROCK-ED

**Project 09-041  
 Umpqua Coho Genetic Pedigree Project**

This project funded personnel and supply costs associated with the final year of the Umpqua Coho Genetic Pedigree Project. The project began in 2001 as a Conservation Hatchery Incentive Program (CHIP) to study experimental supplementation of coho salmon. Progeny from wild and hatchery stock were released into the stream using various hatchery rearing scenarios. Genetic samples have been taken from all returning adults since 2002. DNA fingerprinting is being used to track reproductive success of the various pedigrees through two full generations. The last cohort of adults from the second generation returned in the fall of 2009. The purpose of the project was to evaluate the effectiveness and impacts of using hatchery coho to speed the recovery of wild coho populations. This project needed to continue throughout 2010 in order to follow two complete generations of coho salmon replicated within three cohorts.

**R&E Program Investment: \$44,160**  
**Total Project Cost: \$86,782**  
**Funding Source: Commercial**



***“Indeed this project has fostered the cooperation and partnership of multiple groups to evaluate the effectiveness of coho supplementation programs. Although analysis of all aspects of this study are not yet complete, the newest paper***



*submitted to Molecular Ecology by Theriault V. (OSU, Hatfield Marine Science Center), G. Moyer (USFS Conservation Genetics Laboratory), L. Jackson (ODFW Roseburg), M. Blouin (OSU Dept. of Zoology, Corvallis) and M. Banks (OSU, Hatfield Marine Science Center) has shown that even hatchery practices such as using wild brood stock, or releasing the progeny as unfed fry can produce fish that have lowered reproductive fitness in the wild. It appears that more work is needed to better understand natural breeding behaviors in order to help threatened populations."*

**Laura Jackson**  
 ODFW District Fish Biologist  
 Umpqua Watershed District

*hatchery would be in far worse condition. Without R&E program this project would not have been done and our fish production would have been in jeopardy."*

**Mark C. Bushman**  
 Senior Technician  
 Elk River Hatchery

### **Project 09-173 Butterfield Lake Angler Access Enhancement**

This project helped develop an improved road allowing access to the lake for liberation trucks, and provided better access for anglers with small boats. Funds were also used to develop and improve shoreline trails, info kiosks, and docks for anglers.

**R&E Program Investment: \$23,200**  
**Total Project Cost: \$45,700**  
**Funding Source: Sport**



*"The Butterfield Lake Access Project is a cooperative project between Coos County Parks Department and ODFW to provide for the stocking of trout and improved access to anglers and campers at Riley Ranch. This "new" fishery became available with Coos County's acquisition of the former privately owned Riley Ranch, which includes Butterfield Lake. In addition to trout angling, the lake is also inhabited by a mix of warmwater fish species."*

**Mike Gray**  
 ODFW District Fish Biologist  
 Charleston Field Office



### **Project 09-016 Elk River Hatchery Valve Replacement Project**

This project funded excavation of the existing valve and pipeline, removal and replacement of the existing electric powered actuator, installation of a manual actuator, and testing for proper operation of leak proof connections and seals.

Previously, a 30-inch valve in the main hatchery supply line was leaking at 60 gallons per minute with one pump in operation. Normal summer operation is three pumps, which would triple the loss to 180 gpm. The valve was not designed to pass water unless in the open position. Failure of the valve could have significantly reduced annual production at Elk River Hatchery. This project was accomplished in an extremely short period of time as the hatchery water supply had to be shut off.

**R&E Program Investment: \$51,000**  
**Total Project Cost: \$51,960**  
**Funding Source: Commercial**

*"As a state funded facility we do not have a lot of extra money so without the R&E program and the significant help from the staff and the board, our*



## Project 09-018 Fall Chinook and Coho Fishery Monitoring Project

This project funded components of a study to monitor and evaluate the Coos River STEP

Fall Chinook Salmon Program by conducting mark/recapture studies, spawning surveys, and angler creel for both fall Chinook and unmarked coho fisheries. This project had four related parts. The first portion of the project evaluated STEP propagation projects and overall Coos River fall Chinook program fish contribution to the ocean and Coos Basin fall Chinook fisheries. The second evaluated hatchery stray rates into areas of natural production and the potential impacts on wild fish. The third evaluated whether the Coos River fall Chinook fish propagation program is being conducted in a manner that minimizes adverse ecological impacts to area watersheds; and the final project part was to monitor the recreational harvest of unmarked coho in the proposed future Coos River basin coho fishery.

**R&E Program Investment: \$173,726**

**Total Project Cost: \$236,454**

**Funding Source: Commercial**

*“The major component of this project is to evaluate the Coos Basin fall Chinook hatchery program by identifying the beneficial contribution of hatchery Chinook to the fishery along with looking at the possible impacts of hatchery strays on the spawning grounds. The R&E program is the major funding component for this project. Without the R&E program we would not be able to conduct this important monitoring and evaluation project.”*

**Gary Vonderohe**

ODFW Assistant District Fish Biologist  
Charleston Field Office

## Project Showcase

### Southeast Region

## Project 09-002 2009 Little Deschutes River Boat Launch Project

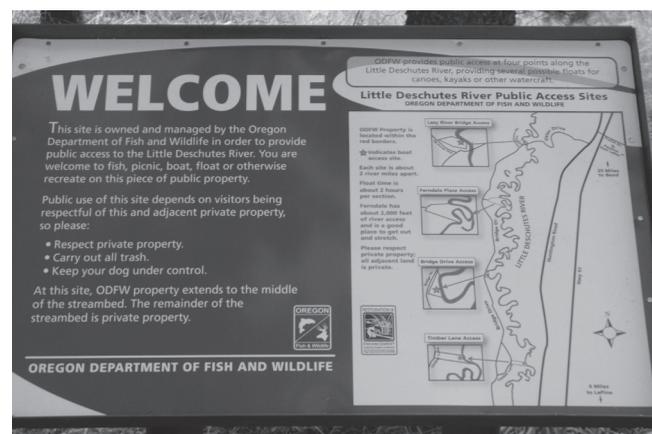
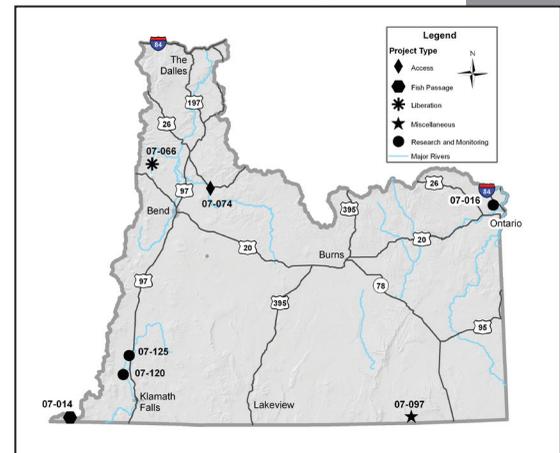
This project helped improve fishing access near La Pine on the Little Deschutes River off three properties

owned by the State of Oregon. In the area between Sunriver and Gilchrist, the Little Deschutes had limited public parking, boat ramps, and developed access points. The project added parking, three boat ramps (with fish habitat and erosion reduction structures), demarcated property boundaries, improved trails, and signage at all three properties.

**R&E Program Investment: \$12,000**

**Total Project Cost: \$40,963**

**Funding Source: Sport**



*“The Little Deschutes River project was made possible with funding from the Restoration and Enhancement Program, Sunriver Anglers and over*



**700 hours of hands-on work from Deschutes Juvenile Services. With all of these supporters, ODFW was able to open up four sites on the Little Deschutes River for fishing and several miles for floating and fishing. The Little Deschutes River flowing through mostly private property, accessing this river to fish or float previously allowed by permission-only, was typically only given to friends or family members."**

**Kurt Cundiff**  
ODFW Tech Services Coordinator  
High Desert Region

**Project 09-60  
Shevlin Pond Rehabilitation and Enhancement**

R&E funds were used for dredging activities on Shevlin Pond near Bend. Dredging the pond will help restore fishing capacity by removing silt that had reduced the pond to half its size and depth. As the previous depth, trout could not survive in the pond as it was too shallow and temperatures were too high in the summer. The pond has special regulations in place that only allow children (age 17 and under) to fish.

**R&E Program Investment: \$12,000**  
**Total Project Cost: \$40,963**  
**Funding Source: Sport**

*"The dredging of Shevlin Pond funded by Restoration and Enhancement grant funds exemplifies a long and fruitful partnership between Bend Parks and Recreation District, Oregon Department of Fish and Wildlife and the Central Oregon Flyfishers."*

**Paul Stell**  
Bend Parks and Recreation District

**Project 09-228  
Mann Lake Treatment to Remove Invasive Goldfish**

This project was provided funds for the purchase of rotenone to eradicate introduced gold fish in southeast Oregon's Mann Lake. The lake experienced a loss of productivity, a decline in habitat and an increase in

turbidity all due to the presence of invasive goldfish. All of these factors had negatively affected the prized cutthroat trout fishery. By eradicating goldfish, ODFW hopes to see a return of natural habitat and an increase in the growth and survival of cutthroat trout in the lake, while also improving habitat for many migratory bird species that pass through the area.

**R&E Program Investment: \$41,947**  
**Total Project Cost: \$127,789**  
**Funding Source: Sport**



*"Restoration and Enhancement funding was critical to implementing the Mann Lake Treatment project. Fisheries managers and anglers worked together to take advantage of the on-going drought and low water in Mann Lake to restore the popular cutthroat trout fishery. The project represents a successful collaboration between ODFW, BLM, Burns Paiute Tribe, Mann Ranch, Oregon anglers, and the local community to impede the advancement of invasive species in Oregon."*

**Shannon M. Hurn**  
ODFW District Fish Biologist  
Malheur Watershed District

**Project 09-220  
Burns Ponds Improvement Project**

This project helped connect the east and west ponds of Burns Pond to provide expanded fishing opportunities for the public. The east pond was deepened 12 to 15 feet to support a put-and-take trout fishery. A channel between the two ponds was constructed to allow



continual water flow from the west pond. The west pond water source is supported by a subsurface spring which maintains water levels throughout the year. A foot bridge was also constructed to allow traffic between the ponds. Shrubs and vegetation were planted on the periphery of disturbed areas to improve wildlife habitat and nesting.

**R&E Program Investment: \$41,947**  
**Total Project Cost: \$127,789**  
**Funding Source: Sport**

*“Restoration and Enhancement dollars were used to expand the area available to anglers visiting Burns pond and improve the habitat for hatchery origin rainbow trout. Crowds are common at the local pond, especially during the kid oriented free fishing weekend event. Having a fishing pond for families to utilize for a fun, relaxed day is invaluable to furthering appreciation of the outdoors.”*

**Shannon M. Hurn**  
 ODFW District Fish Biologist  
 Malheur Watershed District

## **Project 09-27** **Ceratomyxa Impacts on Upper Klamath River Salmon**

This project provided funding for surveying *Ceratomyxa shasta* parasite levels where parasite levels are high in the Klamath Watershed. This project was initiated with R&E program funds in the 2007-2009 biennium. Surveys results were analyzed to identify host habitat use and determine the conditions that promote parasite colonization. Genetic analyses of the parasite were conducted at each step to determine if particular parasite strains play a role in infection. The distribution of *C. shasta* in the Williamson and lower Sprague Rivers has not been examined since the 1980’s, and recent severe infections by *C. shasta* have caused high mortality in migrating juvenile salmon in the lower Klamath River during the past decade. High levels of *C. shasta* have also been detected in the Williamson River and the upper Klamath basin. Defining the parasite’s distribution, the fish that support its lifecycle, and the conditions that result in this highly infectious disease, are critical to

making decisions that will reduce disease effects basin-wide and allow successful reintroduction of salmon into the upper Klamath basin.

**R&E Program Investment: \$80,700**  
**Total Project Cost: \$118,065**  
**Funding Source: Commercial**



*“This research topic was identified by stakeholders among the salmon fishing community of coastal southern Oregon as critical to the successful reintroduction of salmonids in the upper Klamath River. Funding by the ODFW R&E Program supported a graduate student who investigated why levels of a salmon parasite are high in the Williamson River.”*

*“This collaborative research between ODFW and Oregon State University identified stocked rainbow trout for sportfishing are susceptible to becoming infected creating high parasite levels, but unexpectedly these fish supported a parasite strain that does not cause mortality in the native redband trout or the Chinook salmon proposed for reintroduction.”*

**Jerri Bartholomew**  
 Associate Professor  
 Oregon State University Department of Microbiology



### **Project 09-33 Sevenmile Creek Fish Passage Design Project**

Repairs to defunct fish screens on two irrigation diversion structures on Sevenmile Creek were funded to ensure fish passage for salmonids and

guarantee that maximum stream flows remain instream. The Lower Sevenmile Ditch (LSD) and Bluesprings (BS) diversions on Sevenmile Creek were built to divert large quantities of water for irrigation. Some of the water users associated with these diversions have made changes in their water management; resulting in less water being diverted, and more water being leased in-stream. The old diversion structures could not be accurately adjusted to deliver lesser amounts of water which were needed by a new water management regime.

**R&E Program Investment: \$27,500**  
**Total Project Cost: \$89,353**  
**Funding Source: Sport**

*“ODFW’s R&E program provided essential funds to adapt an irrigation diversion structure on Sevenmile Creek to assure fish passage to an additional 8 stream miles and assure maximum flows remain instream.”*

**Carolyn Doehring**  
 Restoration Director  
 Klamath Basin Rangeland Trust

### **Project 09-20 Wood River Redband Trout Habitat**

This project funded the addition of large and small woody material and gravel to the Wood River to be used by all life stages of redband trout. In the future, this habitat will benefit bull trout, Chinook salmon, and possibly steelhead. This one-mile area of the Wood River provides a majority of the redband trout spawning habitat in the Wood River and is also the most critical spawning habitat for redband trout in the entire Wood River Watershed. Previously, spawning gravel was limited with most spawning occurring in a concentrated area. By adding gravel, the trout will be less concentrated and will spread out during spawning. This should reduce predation, allow for more redds to be made, and reduce risk of redd failure due to fungus or other disease. The gravel addition should also increase productivity for redband fry by increasing aquatic insect numbers.

**R&E Program Investment: \$10,746**  
**Total Project Cost: \$48,281**  
**Funding Source: Sport**

*“The support from the R&E board has allowed for the continued recovery of one the West’s premier trophy trout fisheries. Early monitoring has documented use of the spawning gravel and large wood by all life stages of redband trout. With the support and partnerships of R&E, private landowners, USFWS and Klamath Basin Rangeland Trust the trophy redband trout fishery in the Klamath basin will continue to improve.”*

**William R. Tinniswood**  
 ODFW Assistant District Fish Biologist  
 Klamath Watershed District Office



## 2009-2011 R&E Project List

Administration		Total Project Cost	R&E Funds	Activity	Restoration/Enhancement
	Administration	\$449,693	\$449,693	Administration	n/a
	Administration - Electronic Application Support	\$30,000	\$30,000	Administration	n/a
Commercial		Total Project Cost	R&E Funds	Activity	Restoration/Enhancement
09-009	Claskanine Hatchery Freezer Renovation Project	\$22,270	\$10,850	Miscellaneous	Enhancement
09-054	Astoria High School Fisheries Technology Program	\$45,399	\$20,400	Education	Enhancement
09-151	Lostine River Radio-Telemetry Passage Assessment	\$79,739	\$25,228	Monitoring	Enhancement
09-204	Gene Expression in Hatchery and Wild Steelhead Fry	\$30,000	\$30,000	Research	Enhancement
09-225	Chetco River Chinook Salmon Coded Wire Tag Study	\$25,005	\$13,125	Propagation	Restoration
09-232	South Coast Fall Chinook Spawning Surveys	\$23,988	\$14,268	Monitoring	Restoration
09-234	Big Creek Hatchery Valve Replacement	\$7,324	\$4,500	Hatchery Maintenance	Restoration
09-235	Clatsop County Fisheries and Sandy Coho Fish Food	\$161,225	\$20,000	Propagation	Enhancement
09-004	Salmon River Hatchery Predator Netting	\$18,789	\$15,205	Hatchery Maintenance	Restoration
09-016	Elk River Hatchery Valve Replacement Project	\$51,960	\$51,000	Hatchery Maintenance	Restoration
09-026	South Fork Improvements and Youngs Bay Pilings	\$117,949	\$96,537	Hatchery Maintenance	Restoration
09-027	Ceratomyxa impacts on upper Klamath River salmon	\$118,065	\$80,700	Research	Enhancement
09-046	Elk R Chinook Freshwater Harvest and Escapement	\$169,131	\$85,045	Monitoring	Restoration
09-176	Indian Creek Hatchery Oxygenation System	\$13,283	\$10,063	Propagation	Restoration
09-187	Warrenton High Hatchery Water Upgrade & Filtration	\$63,314	\$45,814	Education	Restoration
09-205	NCWD Hatcheries Digital Microscope Project	\$15,710	\$9,451	Propagation	Enhancement
09-209	Fox Creek Restoration	\$88,490	\$46,230	Habitat	Restoration
09-222	South Fork Claskanine Hatchery Diversion Repairs	\$137,624	\$26,865	Passage Maintenance	Restoration
09-238	Bandon Hatchery Repair and Maintenance Bundle	\$40,545	\$33,635	Hatchery Maintenance	Restoration
09-240	Elk River Hatchery Pump Repair	\$9,000	\$8,000	Hatchery Maintenance	Restoration
09-241	Hatch House Equipment	\$70,750	\$64,750	Hatchery Maintenance	Enhancement
09-245	Salmon River Hatchery Restoration Bundle	\$35,000	\$35,000	Hatchery Maintenance	Restoration
09-248	Waite Ranch Tidal Estuary Restoration Project	\$102,380	\$69,000	Habitat	Enhancement
09-258	Jetty Creek Fish Passage Technical Assistance	\$118,761	\$40,249	Passage	Enhancement
Sport		Total Project Cost	R&E Funds	Activity	Restoration/Enhancement
09-006	STAC Mini Grant Program	\$50,000	\$50,000	Miscellaneous	Enhancement
09-007	STEP Classroom Incubator Chiller Units	\$25,000	\$25,000	Education	Enhancement
09-011	Coquille River Coho Creel Survey	\$38,812	\$29,422	Monitoring	Restoration
09-018	Fall Chinook and Coho Fishery Monitoring Project	\$236,454	\$173,726	Monitoring	Restoration
09-022	Little Butte Meander Restoration Implementation	\$503,200	\$75,000	Habitat	Enhancement
09-030	Goodpasture Boat Landing Project	\$819,973	\$50,000	Access	Enhancement
09-032	McKenzie River Creel and Angler Preference Survey	\$162,105	\$121,297	Monitoring	Restoration
09-033	Sevenmile Creek Fish Passage Design Project	\$89,353	\$27,500	Passage	Restoration
09-034	Luger Pond Handicap Fishing Access Development	\$13,197	\$9,173	Access	Enhancement
09-035	North Coast Trout Creel Survey	\$116,606	\$84,414	Monitoring	Restoration
09-036	Restoration Emergency Account	\$50,000	\$50,000	Miscellaneous	Restoration
09-037	Enhancement Emergency Account	\$25,000	\$25,000	Miscellaneous	Enhancement
09-049	Full Circle Schools Restoration Ecology Program	\$215,043	\$19,800	Education	Enhancement
09-050	JWTR Fishing Access and Enforcement Project	\$904,426	\$36,840	Access	Enhancement
09-051	East End Mooring Basin - Fish Cleaning Station	\$113,500	\$11,625	Miscellaneous	Enhancement



09-057	Phillips Reservoir Fishery Restoration	\$53,929	\$19,811	Miscellaneous	Enhancement
09-064	Nehalem Hatchery Restoration Bundle	\$63,305	\$34,165	Hatchery Maintenance	Restoration
09-065	Clackamas Hatchery Predator Netting	\$35,701	\$12,501	Hatchery Maintenance	Restoration
09-150	Fawcett Creek Fish Passage Engineering Project	\$92,935	\$31,840	Passage	Restoration
09-152	Creeks and Kids Watershed Workshops	\$18,703	\$15,263	Education	Enhancement
09-153	Progress Ridge Lake Floating Dock	\$75,040	\$18,000	Access	Enhancement
09-156	Mobile Educational Fish Aquarium	\$33,283	\$24,611	Education	Enhancement
09-158	NW Region Liberation Truck Maintenance Bundle	\$56,405	\$41,405	Liberation	Restoration
09-159	Spawning of White Sturgeon in the Willamette River	\$88,674	\$44,187	Research	Restoration
09-160	Big Butte Cr Spring Chinook Habitat Enhancement	\$35,024	\$29,990	Habitat	Enhancement
09-161	Oak Springs Middle Pond Flow Enhancement	\$98,312	\$87,364	Hatchery Maintenance	Restoration
09-167	Smith River Restoration Materials Salvaging	\$35,825	\$30,000	Habitat	Enhancement
09-169	ROCK-ED	\$292,000	\$49,500	Education	Enhancement
09-172	2010 Kids Fish Camp at Camp Angelos	\$50,968	\$8,000	Education	Enhancement
09-173	Butterfield Lake Angler Access Enhancement	\$47,700	\$23,200	Access	Enhancement
09-174	Central Oregon Angling Guides	\$6,050	\$4,300	Education	Enhancement
09-177	Jefferson County Youth Fishing Pond	\$139,240	\$54,000	Access	Enhancement
09-178	Kloan Composting Toilet	\$60,303	\$27,789	Access	Enhancement
09-188	Cheadle Lake Water Pump	\$30,500	\$15,800	Miscellaneous	Enhancement
09-192	Alea Hatchery Restoration Bundle	\$42,334	\$25,124	Hatchery Maintenance	Restoration
09-194	Duffy (Gleason) Cr Fish Passage Project	\$106,963	\$15,000	Passage	Restoration
09-195	Umpqua Basin Fishing Promotion	\$4,150	\$1,350	Education	Enhancement
09-196	Loren's Pond Enhancement Project Phase I (Design)	\$29,775	\$23,825	Access	Enhancement
09-197	Willamette Valley Ponds Aquatic Vegetation Control	\$51,366	\$43,000	Miscellaneous	Enhancement
09-200	Paulina Lake Blue Chub Control Project	\$11,640	\$7,050	Miscellaneous	Enhancement
09-206	Life Cycle Monitoring Hatchery Fish Lift	\$65,600	\$25,600	Miscellaneous	Restoration
09-207	Adair Pond Water Control Structure	\$33,437	\$15,621	Miscellaneous	Enhancement
09-208	Charleston Marina Fish Cleaning Station Roof	\$15,750	\$14,000	Miscellaneous	Enhancement
09-210	Munsel Cr. hatchery chiller unit	\$15,317	\$12,317	Propagation	Restoration
09-211	Sun Creek Selective Fish Passage Facility	\$138,341	\$35,700	Passage	Restoration
09-213	Grande Ronde River Greenway Acquisition	\$140,000	\$50,000	Access	Enhancement
09-217	Pitcher Ranch Passage and Screening Design	\$37,540	\$12,600	Passage	Restoration
09-219	North Powder Pond Fishing Access Improvement	\$18,300	\$14,700	Access	Enhancement
09-220	Burns Ponds Improvement Project	\$32,500	\$22,000	Miscellaneous	Enhancement
09-221	TumTum River Trout Habitat Project	\$82,869	\$17,355	Habitat	Enhancement
09-226	Irrigon Hatchery 8" fish pump	\$43,500	\$23,500	Propagation	Restoration
09-227	Long Tom River Cutthroat Migration Study	\$49,845	\$27,695	Research	Enhancement
09-020	Wood River Redband Trout Habitat	\$48,281	\$10,746	Habitat	Enhancement
09-021	Fish Pump Replacement	\$54,000	\$49,500	Hatchery Maintenance	Restoration
09-023	Trask Hatchery ForkLift	\$25,050	\$20,050	Miscellaneous	Restoration
09-029	Morgan Lake Development	\$125,292	\$67,556	Access	Enhancement
09-039	Kids Fish Camp at Camp Angelos	\$41,150	\$10,200	Education	Enhancement
09-041	Umpqua Coho Genetic Pedigree Project	\$86,782	\$44,160	Research	Restoration
09-044	Alea Hatchery Maintenance Building Restoration	\$15,000	\$15,000	Hatchery Maintenance	Restoration
09-045	Liberation Truck #63 Water Re-Circulation System	\$5,000	\$5,000	Liberation	Restoration
09-053	Nehalem Fish Transportation Tank & Truck Project	\$102,160	\$85,000	Liberation	Restoration
09-058	Safe Release Educational Materials for Marine Fish	\$14,960	\$14,000	Education	Enhancement
09-059	Eagle Fern Park Acclimation Facility	\$86,830	\$56,300	Liberation	Enhancement



09-060	Shevlin Pond Rehabilitation and Enhancement	\$14,850	\$8,500	Access	Enhancement
09-061	South Coast Spawning Surveys	\$28,445	\$22,486	Monitoring	Restoration
09-062	West Linn Cat Walk Replacement	\$215,400	\$115,200	Access	Enhancement
09-063	Siuslaw Adult Winter Steelhead Trap Repair	\$6,119	\$3,119	Propagation	Enhancement
09-165	Leaburg Hatchery Aquatic Education Park	\$28,732	\$20,234	Education	Enhancement
09-170	Drews Valley Ranch Passage Design	\$44,650	\$20,400	Passage	Restoration
09-171	Salmon River Hatchery Fish Pump	\$56,030	\$56,030	Liberation	Restoration
09-181	ODFW Angler Education Trailers	\$42,400	\$24,400	Education	Enhancement
09-183	Phillips Reservoir Creel Survey	\$26,311	\$23,485	Monitoring	Restoration
09-215	Roaring R. Hatchery Pressure Vessel-Triploid Prg.	\$29,750	\$19,750	Propagation	Restoration
09-008	STEP Fish Food Program	\$2,595,024	\$140,471	Propagation	Enhancement
09-179	Marine Recreational Angler Education Events	\$3,440	\$3,440	Education	Enhancement
09-185	St. Louis Ponds ADA Path	\$76,626	\$69,600	Access	Enhancement
09-199	Canby Pond Angling Access Improvements	\$23,968	\$5,680	Access	Enhancement
09-228	Mann Lake Treatment to Remove Invasive Goldfish	\$127,790	\$41,947	Miscellaneous	Restoration
09-242	Farmer Creek Passage Enhancement	\$20,000	\$10,000	Passage	Enhancement
09-243	Fiddle Creek Stream Enhancement	\$98,044	\$21,921	Habitat	Enhancement
09-246	Cedar Creek Hatchery Moist Air Incubator	\$16,500	\$11,000	Hatchery Maintenance	Restoration
09-249	Oregon Hatchery Research Center Fish Display	\$11,650	\$8,500	Education	Enhancement
09-251	Tide Gate Fish Passage Study	\$51,970	\$30,250	Passage	Enhancement
09-252	Rickreall Watershed Council Fish Trap and Haul	\$21,798	\$7,042	Passage	Enhancement
09-253	Umpqua Boat Ramp Repair Project	\$10,383	\$3,911	Access	Enhancement
09-255	Oregon Crucial Habitats Decision Support System	\$495,684	\$35,000	Education	Enhancement
09-256	John Day District Equipment 2010	\$16,510	\$15,290	Miscellaneous	Enhancement
09-257	Gage Property Habitat Restoration Project	\$100,917	\$32,625	Habitat	Enhancement
09-259	NWWD Acclimation Pond Upgrades	\$29,785	\$21,945	Propagation	Restoration
09-262	NWWD Fishery Management Support	\$42,500	\$35,000	Monitoring	Restoration
09-263	NWWD Radio Telemetry Studies	\$62,100	\$38,600	Research	Enhancement
09-264	Grand Ronde WS District Fishery Monitoring	\$22,708	\$5,308	Monitoring	Restoration
09-265	Phillips Reservoir Trap Nets	\$23,409	\$13,161	Miscellaneous	Enhancement
09-266	Klamath WS District Fish Sampling Equipment	\$9,910	\$9,910	Monitoring	Restoration
09-267	Portable Fish Pump for South Coast Chinook Smolts	\$89,187	\$22,747	Liberation	Enhancement
09-268	2011 Kids Fish Camp	\$47,290	\$9,860	Education	Enhancement
09-269	Web-based GIS Reporting of Hatchery Data	\$53,218	\$42,004	Monitoring	Enhancement
09-270	Boat Ramp Signs to Prevent Illegal Fish Release	\$6,397	\$5,147	Education	Enhancement
09-271	Camp Sherman Hatchery Property Enhancement	\$19,040	\$10,000	Education	Enhancement
09-272	Electrofishing Raft - Deschutes Redband Monitoring	\$44,521	\$23,741	Research	Restoration
09-275	SWWD Sampling and Survey Equipment	\$11,619	\$11,619	Monitoring	Restoration
09-277	Mid-Columbia Creel Handheld CWT Detectors	\$10,000	\$10,000	Monitoring	Restoration
09-278	Warmwater Fish Habitat Structures	\$36,552	\$11,400	Miscellaneous	Enhancement
09-279	Coos-Coquille-Tenmile Fish District Equipment	\$38,500	\$11,575	Miscellaneous	Restoration
09-280	Crooked River Redband Trout Genetic Analyses	\$7,520	\$4,000	Monitoring	Enhancement
09-281	Willow White Horse Lahontan Cutthroat Trout	\$202,737	\$10,000	Monitoring	Restoration
09-282	Malheur District Cycle 8 Request	\$21,769	\$21,769	Monitoring	Enhancement
09-283	Umpqua District General and Safety Equipment	\$46,734	\$8,484	Monitoring	Restoration
09-285	Wallowa Lake Limnology	\$20,855	\$15,855	Monitoring	Restoration
09-286	Big Creek Hatchery Tractor	\$41,500	\$20,000	Hatchery Maintenance	Restoration
09-287	Fall River Fish Troughs	\$154,138	\$100,000	Propagation	Enhancement



09-288	Youngs Bay Forklift Replacement	\$28,600	\$23,500	Hatchery Maintenance	Restoration
09-289	Strategic Rotenone Study	\$97,855	\$43,215	Miscellaneous	Enhancement
09-290	Rock Creek Maintenance Bundle	\$59,370	\$44,250	Hatchery Maintenance	Restoration
09-291	Gold Lake Brook Trout Removal	\$24,677	\$14,252	Miscellaneous	Enhancement
09-298	Electrofishing Boat for South Willamette WD	\$11,432	\$11,432	Monitoring	Restoration
09-299	NCWD Equipment and Supplies	\$28,605	\$28,605	Miscellaneous	Restoration
09-300	Junction City Pond Barrier Boulders	\$8,857	\$4,335	Miscellaneous	Enhancement
09-302	Umpqua Fish District Electrofishing Boat	\$95,574	\$57,450	Monitoring	Enhancement
09-303	Fish Sampling Equipment	\$12,454	\$12,154	Education & Monitoring	Enhancement
09-304	Wallowa District Forest Pond Signs	\$5,200	\$3,200	Access	Enhancement
09-305	Wallowa District Marine Equipment	\$12,000	\$10,000	Monitoring	Restoration
09-306	Field Computers for Data Collection and Navigation	\$13,541	\$13,541	Monitoring	Enhancement
<b>Total</b>		<b>\$14,641,381</b>	<b>\$5,324,592</b>		

For more information, please contact:  
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