



# R & E Grant Application 11-13 Biennium

Project #:  
11-001

## *Aldrich Ponds Fishing Enhancement Project*

### ***Project Information***

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**R&E Project Request:** \$48,088.00  
**Match Funding:** \$53,622.00  
**Total Project:** \$101,710.00  
**Start Date:** 7/1/2011  
**End Date:** 12/31/2011  
**Project Email:** jeff.neal@state.or.us  
**Project Biennium:** 11-13 Biennium  
**Organization:** ODFW - John Day Field Office

### ***Technical Contact***

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**Name:** Jeff Neal  
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John Day, OR 97845  
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### ***Applicant Information***

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**Name:** Brent Smith  
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John Day, OR 97845  
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### ***Past Recommended or Completed Projects***

Number	Name	Status
17-052	Equipment for John Day Invasive Fish Management	Approved

### ***Project Summary***

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This project is part of ODFW's 25 Year Angling Plan.

**Activity Type:** Access

**Summary:** The project will partially rehabilitate two trout lakes owned by ODFW on the Phillip Schneider Wildlife Area near Dayville, OR. The lakes were trophy trout fisheries for many years but have partially filled from silt/weed accumulation and lost their cool water sources. Stewart Lake (8.6 acres) no longer provides a fishery due to summer kill from excessive amount of

rotting aquatic vegetation, reduced water depth, and loss of its cool water supply. Roosevelt Lake (4.5 acres) is choked with aquatic vegetation and has a failing water supply ditch.

**Objectives:**

- Drain and excavate Stewart Lake with heavy equipment to a 12 ft. max depth to prevent future summer fish kills.
- Use some of the excavation spoils to create two fishing access piers and an irregular shoreline.
- Re-connect the original large spring to Stewart Lake to prevent summer fish kills.
- Remove trees from dam on Stewart Lake and Roosevelt Lake as per directive by OR Water Resource Dept. (see attached)
- Re-construct the log boom around Stewart Lake outlet as per directive by OR Water Resource Dept. (see attached)
- Replace the water supply ditch to Roosevelt Lake with 2,300 feet of 10" pipe and install a fish screen at the point of diversion.
- Re-construct the log boom around Roosevelt Lake outlet as per directive by OR Water Resource Dept.
- Place signs along the hiking trail directing new anglers to each lake.

**Fishery Benefits:**

- Increasing the depth of Stewart Lake will prevent aquatic macrophytes from completely covering the lake surface will enhance fishing opportunity. The removal of several feet of decaying plant material that produce anaerobic conditions each summer and winter will enhance fish survival and enable carryover to occur again.
- The excavated lake bed material will be used to form two dirt fishing piers extending into the lake increasing access for anglers and creating an irregular shoreline.
- Re-connection of the spring to Stewart Lake will lower summer water temperatures and help with survival of stocked fish.
- Converting the Roosevelt Lake water supply (Flat Creek) from an open ditch to a pipe will provide increased delivery efficiencies and cooler temperatures for better fish survival and growth. The pipe conversion will also eliminate the reoccurring annual maintenance performed to the ditch. Ditch repair/maintenance is costly and is usually not performed in a timely manner. Water savings will also very likely provide additional instream flow to remain in Flat Creek.
- Installing a fish screen to the head of the Roosevelt water supply will prevent native Flat Creek fish from entering the pipe and being delivered to the lake.
- Tree removal from the dams and log boom placement will prevent future dam failure and is a requirement of our water storage rights.

**Watershed Benefits:**

- Removing anaerobic detritus from Stewart Lake and spring water re-connection will increase water quality that over-flows into Flat Creek.
- Piping of the Roosevelt Lake water supply ditch will significantly reduce the amount of water diverted from Flat Creek each summer.
- Tree removal and log boom construction will prevent future dam failure

and the watershed destruction this could cause.

**Current Situation:**

The Aldrich ponds are not accessible by vehicles and require anglers to hike nearly two miles of trails for access. The hiking trail to the ponds is not marked and crosses several game trails which causes first-time anglers much frustration in finding their way. Once at the ponds they find 75% of the surface is covered with aquatic weeds, so fishing is limited to a few small areas deep enough to have open water. The limited fishing area concentrates anglers into small areas. Many years of weed growth has accumulated on the lake bottom creating an anaerobic layer that robs oxygen from the stocked rainbows. Anglers have complained of not catching fish in Stewart Lake for the past 3 years even though the lake has been stocked with fingerlings each spring. Lake sampling with gillnets has occurred many times over the years and in recent years we have seen a decrease in number and size of fish in both lakes. For the last 2 years in Stewart Lake no fish were caught in gillnets.

**Alternatives:**

-If we do nothing anglers can still catch a few fish in Roosevelt Lake but space will be limited to 4 anglers at a time. At Stewart Lake our stocked fish will continue to die each summer and we will have to re-evaluate whether to continue with stocking efforts. Continue ditch maintenance on the Roosevelt Lake supply. This will take heavy equipment to clean the ditch under its current condition. It is not accessible by machinery until dry weather conditions. By that late in the year the fish have gone into survival mode and quit biting. A steady supply of cool water into each pond allows fish feeding activity and feeding throughout the summer.

-We could change our stocking program from fingerlings to legal or trophy trout. These would require waiting until mid-June for the roads to dry out, clearing the road enough for a large stocking truck to haul fewer but larger fish. Costs for raising these fish along with cost of stocking would be 10 times greater and the fish would probably die shortly after stocking because of the warmer water and lack of oxygen.

-We considered only working on Stewart Lake this year and forgoing the project on Roosevelt Lake for another year. This would require mobilizing heavy machinery twice. Stewart will take about a week to deepen and laying the pipe for Roosevelt Lake will take about two weeks. Doing both projects in the same year is much more cost effective.

**Designer:**

Jeff Neal (John Day District Fish Biologist)  
John Day Screen Shop

**Methods:**

Site Preparation: ODFW will open the drain to Stewart Lake a few months in advance. The drain is screened so any possible fish present can be removed before entering Flat Creek. Any fish captured in Stewart Lake will be moved to Roosevelt Lake. The Roosevelt Lake ditch will be shut off just prior to construction to dry the site. Any fish stranded will be moved from

the ditch back into Flat Creek.

Material Preparation: 2,300 feet of 10" HDP pipe, one spring box, and 100 feet of perforated pipe will be purchased and moved to the site. Cable for log booms and tar from the outlet pipe will be purchased and moved to the site. Trees will be cut from each dam with a few of the larger trees being used in each lake as fish habitat and log booms.

Construction: An equipment rental contract will be written providing 80 hours of tracked excavator with operator and 40 hours of dozer with operator. In early July equipment will be mobilized to the site, excavation begun in Stewart Lake, and spoils shaped into three earthen fishing platforms. A channel will be created re-connecting a large spring with the lake. Large, green trees will be anchored in five spots for fish habitat and two spots for log booms. Existing logs will be rearranged into additional fish habitat.

Equipment will then be moved to Roosevelt Lake ditch. Running water will have been shut off from the ditch preventing all silt transport. A fish screen and head gate will be constructed at the ditch head. After screen construction 2,300 ft. of HDP pipe will then be laid and buried from the screen to Roosevelt Lake.

Equipment will be used to clear a walking trail as it is removed from the pond construction area. Signs that direct anglers along the walking trail will then be placed along the trail.

<b>Inspector:</b>	ODFW John Day District Fish Staff and John Day Screening and Passage Program staff
<b>Funding Elements:</b>	R&E funds will be used for equipment mobilization, on-the-ground construction of the pond excavation, spring re-connection, shaping the excavated material into two fishing piers, log boom anchoring and trail clearing. It will also pay for pipeline materials and the Screen Shop construction hours, benefits, and per diem.
<b>Partners:</b>	Yes  John Day Screen Shop PW Schneider Wildlife Area staff Grant County Commissioners Grant County Economic Enhancement Council
<b>Existing Plan:</b>	Yes  This project will comply with ODFW's 25 Year Angling Enhancement Plan, the Grant County recreational fishing enhancement plan, and the Grant County Economic Enhancement Plan.
<b>Affected Contacted:</b>	Yes

**Affected Supportive:** Yes

**Affected Comments:** Grant County commissioners and economic council have requested this project to bolster recreational fishing in Grant County. They will be briefed as the project progresses and on success of the final product.

### ***Project Schedule/Participants/Funding***

Activity	Date	Participants
Drain Stewart Lake to dry out lake bed	6/1/2011	ODFW
Salvage and relocate fish from lake	6/10/2011	ODFW
Excavate Stewart Lake and construct fishing dikes	7/1/2011	ODFW and contractor
Place log booms around pond outlets and place trees for fish habitat	7/1/2011	ODFW & contractor
Reconnect spring to Stewart Lake	7/15/2011	ODFW & contractor
Dewater ditch at Roosevelt Lake	7/16/2011	ODFW
Refill Stewart Lake	8/1/2011	ODFW
Salvage and re-locate fish from ditch to Roosevelt Lake	8/1/2011	ODFW
Install bed and bury 2,300 ft. of pipe in ditch	8/10/2011	John Day Screen Shop
Install fish screen at point of diversion of pipe	8/11/2011	John Day Screen shop
Reconnect spring to pipe	8/15/2011	John Day Screen Shop
Open head gate and resume water flow to Roosevelt Lake	8/20/2011	ODFW
Re-contour ditch path and spread native grass seed	9/1/2011	John Day Screen Shop
Clear walking trail	8/20/2011	ODFW & contractor
Place signs that direct anglers along walking trail	8/20/2011	ODFW

**Affected Species:**

Rainbow Trout

### ***Project Permits***

Name	Issued By	Secured?	Date Secured	Date Expected
Water Storage rights	Water Resource Dept.	Yes	4/25/1961	1/1/0001
Fill Removal permit	DSL	No	1/1/0001	6/1/2011
Water resource permit	Water Resource Dept	No	1/1/0001	6/1/2011

### ***Project Monitoring***

Organization	Address	Activity	Frequency
ODFW district staff	,	Check growth of stocked fingerlings	each fall

### ***Project Maintenance***

Organization	Address	Activity	Frequency
ODFW staff	PO Box 9 John Day, OR 97845	Check water supply and lake drainage structures	Twice a year. Fish screen maintained weekly

## Project Match Funding

Funding Source	Cash	In-Kind	Other	Description	Total	Secured?	Conditions?	Comments
R&E Request	\$48,088.00	\$0.00	\$0.00		\$48,088.00	No	No	
ODFW Schneider Wildlife Area personnel	\$0.00	\$2,800.00	\$900.00	Log donation	\$3,700.00	Yes	No	
ODFW John Day Fish District	\$0.00	\$8,310.00	\$500.00	Project prepartation, inspection, maintenance, and monitoring	\$8,810.00	Yes	No	
ODFW John Day Screens Shop	\$0.00	\$41,112.00	\$0.00	Pipeline and fish screen construction, fish screen maintenance	\$41,112.00	Yes	No	
				Total Match Funding:	\$101,710.00			

## Project Budget

Item	Item Type	Units	Unit Cost	R&E Funds	Match Funds	Total
Dozer rental	Contracted Services	80	\$150.00	\$12,000.00	\$0.00	\$12,000.00
Equipment rental mobilization	Contracted Services	1	\$500.00	\$500.00	\$0.00	\$500.00
Excavator rental	Contracted Services	80	\$125.00	\$10,000.00	\$0.00	\$10,000.00
Backhoe - Screen shop	Equipment	80	\$32.00	\$0.00	\$2,560.00	\$2,560.00
Dump truck - Screen shop	Equipment	30	\$40.00	\$0.00	\$1,200.00	\$1,200.00
Excavator - Screen Shop	Equipment	80	\$25.00	\$0.00	\$2,000.00	\$2,000.00
benefits for all ODFW staff	Personnel	1050	\$15.00	\$3,600.00	\$12,150.00	\$15,750.00
Camping per diem for Screen Shop staff	Personnel	50	\$46.00	\$1,150.00	\$1,150.00	\$2,300.00
District staff	Personnel	177	\$30.00	\$0.00	\$5,310.00	\$5,310.00
John Day Screen Shop fish screen	Personnel	570	\$20.00	\$0.00	\$11,400.00	\$11,400.00
John Day Screen Shop pipeline	Personnel	240	\$20.00	\$4,800.00	\$0.00	\$4,800.00
ODFW Wildlife Area personnel	Personnel	80	\$20.00	\$0.00	\$1,600.00	\$1,600.00
HDP joints for cleanouts	Supplies/Materials /Services	12	\$120.00	\$1,440.00	\$0.00	\$1,440.00
HDP joints for corners	Supplies/Materials /Services	6	\$90.00	\$540.00	\$0.00	\$540.00
High Density Polyurethane pipe 10"	Supplies/Materials /Services	2300	\$6.00	\$13,800.00	\$0.00	\$13,800.00
Logs for log booms	Supplies/Materials /Services	18	\$50.00	\$0.00	\$900.00	\$900.00
Screen material and concrete	Supplies/Materials /Services	1	\$15,000.00	\$0.00	\$15,000.00	\$15,000.00
Signs	Supplies/Materials /Services	6	\$8.00	\$48.00	\$0.00	\$48.00
Steel cable for log booms	Supplies/Materials /Services	300	\$0.70	\$210.00	\$0.00	\$210.00
Vehicle mileage - Screen Shop	Travel	640	\$0.55	\$0.00	\$352.00	\$352.00
					Total Budget:	\$101,710.00

### ***Project Map***

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Project map is not defined.

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## ***Additional Files***

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