R & E Grant Application 25-27 Biennium

Project #: 25-019

Siuslaw High School STEP Hatchery

Project Information

Requested Cycle:	25-2
R&E Project Request:	$54,484
Other Funding:	$111,170
Total Project:	$165,654
Spending Start Date:	12/15/2025
Spending End Date:	12/31/2026
Project Start Date:	1/1/2024
Project End Date:	12/31/2026
Organization:	Oregon Department of Fish and Wildlife

Applicant Information

Name:	Christine Clapp
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Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Location Information

Where is it?

The project will occur on private land owned or managed by another party

Landowner Information

Name:	Siuslaw School District
Address:	2111 Oak St Florence, OR, 97439
Phone:	541-997-2651
Email:	agrzeskowiak@siuslaw.k12.or.us

Site Description

Street Address, nearest intersection, or other descriptive location.

2975 Oak St, Florence Oregon
Location is on the Northwest side of the Siuslaw High School

Directions to the site from the nearest highway junction.

From 101, turn west on 35th St in Florence and then left on Oak St to the High School

Following project completion, public anglers will be allowed the following level of access to the project site:

Limited access

Please describe what leases, easements, agreements are in place to ensure angler access to the project site, and what is the length of each agreement.

There won't be public access, but educational tours will be available upon request. ODFW access to the property is included in the Siuslaw School District's letter of commitment (attached).

Dominant Land Use Type:

Institutional

Project Location

General Project Location.

County:	Lane
Town/City:	Florence
ODFW Dist:	Mid Coast
Stream/Lake/Estuary Name:	NA
Sub-basin:	Siuslaw
Tributary of:	NA

Specific Project Location.

Latitude	Longitude
43.992208	-124.106490

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

This project would complete the construction and installation of a recirculating aquaculture system (RAS) at Siuslaw High School to enhance their existing aquaculture curriculum and provide hands-on learning for high school students enrolled in the program, as well as outreach and engagement activities for middle school and elementary students.

Overall Project Goals

Describe the primary goals or outcomes of the entire project, including elements not requesting funding from R&E.

Establish a recirculating aquaculture system at Siuslaw High School to enhance their existing aquaculture curriculum.

Train students in aquacultural practices for future career opportunities.

Incubate 20,000 rainbow trout eggs (stock 53) and rear juveniles for release of 7,000 fingerlings (1000 fish per pound) in January and 10,000 sub-adults (30-40 fish per pound) at the end of the school year.

Incubate Siuslaw winter steelhead eggs (stock 38) for the STEP Egg to Fry Program.

Provide fish for recreational anglers and established angler education programs at Cleawox Lake including family fishing events, field trips for local schools, Honeyman State Park guests, Watershed Camp, and Camp Cleawox (Girl Scout Camp).

Primary objectives of R&E funding

Please describe the measurable objectives for the R&E portion of the funding request.

Electrical: Install 3 complete 120V branch circuits to power industrial grade receptacles on two walls, lighting and an outdoor receptacle.

Install new garage door for upgraded hatchery building.

Purchase and install pumps, biofilters, tanks and water lines (details attached)

Build-out hatchery shed to accommodate egg incubation, water quality and circulation equipment, student supplies and a shop sink.

Install and plumb three 6 ft circular tanks in the outdoor rearing area.

Build an overhead structure to cover the outdoor rearing area.

Purchase and install a Sensaphone alarm system

Current Situation/Justification

Please describe the current situation and explain why this funding is needed.

Florence STEP and the Siuslaw School District have already contributed a lot of time and money towards this project. Both organizations have been awarded multiple grants to pay for portions of the project, but a larger grant is needed to finish the build out the hatch house and rearing area. ODFW has also invested staff time in designing the RAS system and will contribute more time to complete the installation. Many supplies, including tanks, fittings and covers will be repurposed from the Oregon Hatchery Research Center and Munsel Creek Hatchery and transported by staff. Local grants are still being pursued, but R&E funding is

necessary.

Recreation and Commercial Benefit

This project will provide benefits to:

Recreational fisheries

Explain how this project will contribute to current (and/or potential) fishing opportunities, access, or fisheries management.

The primary purpose of the hatchery will be education, but releases will contribute to recreational trout fishing in Cleawox Lake and may benefit ODFW family fishing events, field trips for local schools, the Siuslaw Watershed Council's Watershed Camp, Camp Cleawox (Girl Scout camp), and Honeyman State Park guests.

This project will indirectly benefit fisheries management by introducing new generations of students to careers in fisheries science and aquaculture using climate friendly and water efficient recirculating aquaculture system (RAS) technology. This learning laboratory will provide students with valuable hands-on experience in data collection, water quality monitoring, fish biology, fish health and behavior, as well as the plumbing, mechanics and maintenance involved with recirculating aquaculture systems. Participating in this program will benefit students pursuing careers in many different fields.

Percent benefit split between Commercial and Recreational anglers:

0 % Commercial
100 % Recreational

Please explain, or justify, how the percentage split was determined:

This project will not have an impact on commercial anglers.

This project has been identified as an ODFW priority for:

Local/watershed

Does this project directly support implementation of the ODFW Strategic Plan and/or current Fish Division priorities?

Yes

This project also addresses ODFW's strategic goals by diversifying use and enjoyment of Oregon's fish and wildlife resources (goal 2) and expanding support for fish and wildlife (goal 3). This project with indirectly contribute to both of these goals by educating youth and providing hands-on learning.

Please briefly explain when this was identified as a priority and what process or workgroup was used to identified this as an ODFW priority.

This project was proposed after the Munsel Creek STEP Hatchery in Florence became inoperable due to water quality issues and erosion concerns. While developing field opportunities for HS aquaculture students, the idea of an on-campus learning lab and RAS hatchery was proposed as an alternative to the Munsel Creek Hatchery.

Identify any plan or other document that identifies this priority.

ODFW's 25-Year Recreational Angling Enhancement Plan – Goal to enhance, develop and promote diverse and productive recreational fishing opportunities. This project will provide rainbow trout for recreational angling.

ODFW's Climate and Ocean Change Policy – RAS minimize water use and waste discharge,

improve efficiency, and increase control of environmental factors. RAS may become an important tool for ODFW.

Is this project part of an approved Salmon-Trout Enhancement Program (STEP) activity?

Yes

Yes, this program is being developed and guided by the Mid Coast STEP District and Florence STEP group. The STEP propagation project application is underway and approval will be provided as a condition of funding.

This project is intended to benefit the following species:

Rainbow Trout

This project will benefit anglers or fishery by providing:

Education/Outreach

Education/Outreach

This project will:

Educate the public about angling opportunities and fisheries in Oregon
Teach the public about fishing basics, fishing gear, fishing techniques, and/or fishing etiquette
Teach the public about fish (ecology, life history) and/or fish habitat needs
Teach the public about watershed health and it's relation to the health of fish populations
This program will do all of these things peripherally with students being taught as "the public".

This project will also provide a hands-on opportunity for students to learn about aquaculture, fish biology, aquatic ecology and water quality. Currently, aquaculture students assist ODFW with winter steelhead trap operations at Whittaker Creek from Jan through the end of March each year. Continuation of this field work partnership with ODFW will provide a real world application in a natural environment to supplement their RAS laboratory studies. At the Whittaker Creek trap, students help with fish capture, identification, marking, spawning and release. The high school aquaculture students also mentor Siuslaw Elementary School students during the Egg to Fry Program each spring. When this project is completed, high school students will be able to pass on their knowledge and interest in aquaculture to younger generations and use the hatchery to showcase their work to elementary and middle school students as well as their high school peers. There are currently 1200 students enrolled in K-12 for the 2025-2026 school year, so there is a lot of potential to expand the program to engage students of all ages.

In addition, there are other projects under consideration to teach these students about watershed health, water quality, and fish habitat through long-term monitoring of restoration sites in the Siuslaw Basin.

The main focus of this project is to:

Support established education program

Is this education/outreach associated with ODFW efforts?

Yes
STEP
Angler education

This education/outreach effort will target:

Youth (< 18 years old)
New anglers
Current anglers

Returning anglers (those who used to fish but don't currently)
Underserved populations
School groups

Number of people targeted by this proposal:

120

Estimate the average amount of time that each attendee will participate in the proposed effort.

180

Explain the duration/frequency of the proposed outreach effort.

100-120 students will be involved with the hatchery each school year. Each student will spend 1 hour per school day at the hatchery, for approximately 180 hours per school year. For 100 students, that is 18,000 hours. The program will also include education and outreach to other students in the ~1200 student body population.

Will the developed materials be available for use by other organizations or the public(i.e curriculum, teaching techniques, educational strategies, materials)?

No

Project Description

Schedule

Activity	Date	RE Funding
Site clean-up, complete	2024-2025	No
Building repairs including new roof, drywall, plywood, interior painting	2025	No
Complete electrical installation and replace the garage door	2026	Yes
Build overhead structure to cover the outdoor rearing area	Spring 2026	Yes
Complete build-out of hatch house and outdoor rearing area including installation of plumbing, head tank, pumps, filters, alarm system, incubation trough, rearing circulars, and a shop sink.	Spring-Summer 2026	Yes
Receive first batch of 20,000 triploid stock 53 rainbow trout eggs from Oak Springs Hatchery	September 2026	No
Submit completion report	October 2026	No

Permits

Permit	Secured?	Date Expected
No NPDES permit required	No	
Contractor will provide building permit for overhead structure	No	
DEQ confirmed that this program is small and is considered a non-permit discharge	No	

Project Design and Description

Please describe in detail the methods or approach that will be used to achieve the project objectives.

ODFW engineer Charles Matteson designed this RAS hatchery using the current best practices and a biological schedule provided through a RAS course. Oak Springs hatchery staff have been involved with the design and additional ODFW hatchery staff will be consulted prior to and during installation.

Engineering

Does the project involve capital improvement, engineering, site grading or other construction?

Yes

Part of an ODFW program like STEP

Project Management and Maintenance

What is the life expectancy of R&E funded construction, structures, equipment, supplies, data or

fishery?

The life expectancy of R&E funded construction is expected to be a minimum of 50 years. Equipment should last 10-30 years. Much of the equipment is being repurposed from the OHRC and would be given back to ODFW in the event of program closure.

Who is responsible for long term management, maintenance, and oversight of the project beyond what is funded by R&E.

Siuslaw High School students and staff will be responsible for daily maintenance activities at the facility. Repairs and long term maintenance needs will be the responsibility of the Siuslaw School District Maintenance Department. Assistance will be available through ODFW STEP and the Florence STEP group.

Will the project require ongoing maintenance?

Yes

Yes. Ongoing maintenance needs consist of cleaning tanks, troughs and system components and servicing pumps and filters.

Is there a plan to collect baseline data and to conduct monitoring efforts to measure the effectiveness of the project?

Yes

Yes, monitoring data will be collected to track mortality, size and growth rates at various life stages and evaluate the success of the recirculating aquaculture system.

Project Funding

Funding

Have you applied for OWEB funding for this project?

No

Has this proposal, or similar proposal for this project location, previously been denied by OWEB or other funding source?

No

Other Funding Source	Type	Secured	Dollar Value	Comments
Perkins Foundation	Cash	Secured	14,000	Purchased 2 biofilters, pumps, air compressor, 100 gal aquarium with filter and pump. Completed.
3 Rivers Foundation	Cash	Secured	14,200	Hatch house roof repair (partial) and new insulation
Western Lane	Cash	Secured	5,000	Framing and plywood for hatch house building (Dan Rankin)
Siuslaw School District	Cash	Secured	2,300	Asbestos inspection. Completed.
Siuslaw School District	In-Kind	Secured	10,800	Clean out building and remove asbestos. Maintenance staff time. Completed.
Redd Zone	In-Kind	Secured	7,200	Donating upgraded mist incubator for Egg to Fry Program incubation only. Students will learn about trough and mist incubation.
Florence STEP	Cash	Secured	5,320	Contributed to roof repair, 400 lbs of gravel in the rearing yard, concrete removal in the building, City of Florence permits and fees
Florence STEP	In-Kind	Secured	1,500	Tanks and parts from Munsel Creek Hatchery
Florence STEP	In-Kind	Secured	10,000	Skilled volunteer time: 200 hours, $50/hour (Brummett and Olson). Already completed. Actual time much higher and includes more people. This also doesn't include volunteer time for the next year
Siuslaw School District	In-Kind	Secured	3,750	Aquaculture teacher (Amy Tregoning) time for program development, planning, securing grants. 75 hours already completed at the volunteer rate of $50/hour. Doesn't include time spent over the next year.

Siuslaw School District		Secured	0	Students completed a project to design a hatchery, mentored Egg to Fry classrooms at the Elementary school and assisted with Whittaker Creek trap operations from January through the March
ODFW Engineering	In-Kind	Secured	25,600	212 hours have been spent on project development. Another 300 are planned to reach project completion. Using the skilled volunteer rate of $50/hour, this is a contribution of over $25,600
ODFW STEP	In-Kind	Secured	11,500	80 hours have been spent on project development. Another 150 are planned to reach project completion. Using the skilled volunteer rate of $50/hour, this is a contribution of over $11,500
		Total	111,170	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
Charles Matteson, ODFW Engineering			25,600			25,600
Florence STEP volunteers (Brummett and Olson)			10,000			10,000
Amy Tregoning (Siuslaw HS) program development and planning			3,750			3,750
Christine Clapp, ODFW STEP			11,500			11,500
		SUBTOTAL	50,850			50,850
IN-HOUSE PERSONNEL						
Clean out building and remove asbestos - completed			10,800			10,800
		SUBTOTAL	10,800			10,800
CONTRACTED SERVICES						
roof repair and insulation - completed				14,200		14,200
New framing and plywood in building - completed				5,000		5,000
Asbestos inspection - completed				2,300		2,300
roof repair, 400 lbs gravel, concrete removal				5,320		5,320
Electrical upgrade - Lighthouse Electric					4,800	4,800
		SUBTOTAL		26,820	4,800	31,620
TRAVEL						
		SUBTOTAL				
SUPPLIES/MATERIALS						
Exterior paint and primer - Sherwin Williams					784	784
		SUBTOTAL			784	784
EDUCATION/OUTREACH						
		SUBTOTAL				
EQUIPMENT						
Redd Zone mist incubator	1	7,200	7,200			7,200
Biofilters, air compressor, aquarium with filter/pump				14,000		14,000
Tanks and parts from Munsel Creek Hatchery			1,500			1,500
Sensaphone cabinet, alarms, wiring					3,600	3,600
Head tank and stands	1	10,000			10,000	10,000
Websteel building kit, concrete piers and installation					30,000	30,000
Plumbing parts (see attachment for itemized list)					2,200	2,200
Pumps and housing					3,100	3,100
		SUBTOTAL	8,700	14,000	48,900	71,600
FISCAL ADMINISTRATION						
		SUBTOTAL				
		BUDGET TOTAL	70,350	40,820	54,484	165,654

Internal Review Results

Review Score: 3.4 out of 5

(1 = Do Not Fund, 2 = Strengthen Proposal, 3 = Recommend with Conditions, 4 = Recommend, 5 = Strongly Recommend)

Summary of Review Team Comments

The review team thought this was a beneficial project that provides a great opportunity for education and student development.

Specific Review Team Comments

If the STEP propagation permit has not been approved for this facility yet, should R&E funds be recommended at this time? If the R&E Grant is awarded, should it be contingent upon STEP propagation permit approval?

Specific Review Team Questions

Will there be any ground disturbance from this project? If so, have cultural surveys been completed?

No ground disturbance. The structures are already in place, and plumbing will be installed above ground.

I like the idea of funding being contingent upon STEP propagation approval.

What about a mini-grant through the STEP program? Could they help fund, or pay for some portions of this project?

A mini-grant would help, but we need a lot more than $2000.

Additional Files

Budget Information

Electrical bids	*All electrical bids for hatch house*
Garage	*quote for garage door and installation*
Plumbing parts list	*list of plumbing parts and costs*
Web Steel Building quote	*quote for overhead structure over rearing area*

Maps

map	*map of the high school hatchery location*

Photos

Design Information

Management Plans and Supporting Documents

Permits and Reviews

Partnerships

Public Comment

letter of support	*Letter of support from Siuslaw School District*
letter of support	*letter of support from Florence STEP*

Administrative Documents

signature page	*signature page for ODFW applicants*

Completion Report

A completion report has not been submitted for this project.