R & E Grant Application 17-19 Biennium

Project #: 17-007

Statewide Tag Reward Study

Project Information

Requested Cycle:	17-1
R&E Project Request:	$16,607
Other Funding:	$24,000
Total Project:	$40,607
Spending Start Date:	7/1/2015
Spending End Date:	6/30/2017
Project Start Date:	7/1/2015
Project End Date:	6/30/2017
Organization:	Oregon Department of Fish and Wildlife

Applicant Information

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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 Statewide

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The purpose of this project is to evaluate the relative catch of various sizes of hatchery rainbow trout in four fisheries throughout the state of Oregon, and evaluate factors that influence catch. Results will be used to inform future fisheries management.

Overall Project Goals

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

The goals of this project are to evaluate the relative catch of various sizes of hatchery rainbow trout in four fisheries throughout the state of Oregon, and evaluate factors that influence catch. R&E funds will be used to continue the tag-reward program to achieve project goals

Primary objectives of R&E funding

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

Estimate relative catch of three sizes of hatchery rainbow trout at four fisheries in Oregon during 2017-2019.

Estimate the relative cost per fish caught of each size of hatchery rainbow trout during 2017-2019.

Current Situation/Justification

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

Preliminary R&E-funded tag-reward studies have indicated that size of fish stocked may influence exploitation of hatchery rainbow trout. However, the degree of this effect was variable among fisheries. Larger fish are more expensive to raise, but the additional cost can be offset if exploitation of larger fish increases proportional to additional costs. Results of this study can help us optimize fish size for stocking as well as determining optimal stocking rates. Such data would be lacking without this study and would be cost-prohibitive with traditional creel surveys.

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.

This project will increase the overall efficiency of our hatchery rainbow trout stocking program thus improving our management of recreational fisheries thereby increasing the enjoyment of recreational anglers. Additionally we can also identify where size of fish stocked influences

catch consequently increasing return to angler and increase size of fish caught in some locations.

Percent benefit split between Commercial and Recreational anglers:

0 % Commercial
100 % Recreational

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

There are no commercial fisheries for rainbow trout.

This project has been identified as an ODFW priority for:

Statewide

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

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

Identify any plan or other document that identifies this priority.

25-year angling plan, Inland Fisheries Priorities

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

No

This project is intended to benefit the following species:

Rainbow Trout

This project will benefit anglers or fishery by providing:

Angling Opportunity
Monitoring/Research

Angling Opportunity

This project will:

Improve the opportunity for anglers to catch fish (better stocked fish, trapping)

Monitoring/Research

This project will be used to evaluate:

Hatchery releases and/or stray rates

Has this project been reviewed or developed by an individual with appropriate qualifications (i.e ODFW biometrician, research professor)?

Yes
Project was reviewed by the ODFW Fisheries Biometrician.

Is this study critical to fishery management decisions?

Yes
Outside of the few R&E-funded tag-reward study we have little to no information on exploitation of catchable hatchery trout, of which we stock millions annually. Data from this study are critical to ensure that we are utilizing resources property within our hatchery program.
Yes
Results of this study will inform size of fish to stock in the future, and help us identify the characteristics of lakes that are better suited to stocking of larger fish. Changes to the stocking

program in Lake-of-the-Woods and Wallowa Lake have already been made based on the results from the pilot study.

Is there a plan to repeat this monitoring or research in the future?

Yes

Dependent upon the results, this type of assessment and monitoring may continue. Results of work down so far have shown that this type of study is a cost effective way to assess multiple waterbodies across the state.

Will the data be reported or published?

No

Project Description

Schedule

Activity	Date	RE Funding
Order Floy tags	Mar, 17	Yes
Post signage	Apr, 17	Yes
Tag fish and begin administration of the project	Apr, 17	Yes
Analyze data write report	Dec ,18	Yes

Permits

Permit	Secured?	Date Expected
	No	

Project Design and Description

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

Relative exploitation of each size of fish will be estimated using high-reward tagging programs at Garrison, Timothy, Lost, and Clear lakes. Tag reward programs rely on voluntary reporting of visibly-tagged fish by the angling public. A key component of this program is the inclusion of monetary reward tags to encourage reporting and estimate reporting rates of non-reward tags. Reporting rates are then applied to provide estimates of catch within a given treatment group (i.e., size of fish). Once reporting rates are established, they can be used to estimate harvest in fisheries without the use of reward tags. Tag reward studies have the ability to assess harvest, survival, natural and fishing mortality, growth, and migration of various recreational fish species.

We will tag approximately 800 stocked trout with nonreward floy tags. If all anglers voluntarily returned the floy tags from fish they harvested, this would give us an estimate of total harvest. This would be a naïve estimate however, because we know that not every angler is going to return the non-reward tags. As a result, we will also tag a 70 fish with $50 reward tags. We will assume that every angler who catches a fish with a reward tag will return it to collect their reward. This will allow us to estimate the reporting rate of non-reward tags and consequently, provide an estimate of total catch. If reporting rates are similar among fisheries with reward tags, they may be applied to other fisheries without the use of reward tags, only non-reward tags. This will allow us to generate total catch estimates on fisheries in the future for only the cost of non-reward floy tags ($.67/tag) and the cost of tagging the fish.

Engineering

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

No

Project Management and Maintenance

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

ODFW Biologists will maintain the signage associated with each study.

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

Will the project require ongoing maintenance?

No

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

No

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?

[{"source":"ODFW","type":"In-Kind","secured":"Secured","dollarValue":24000,"comments":"In-kind match used to tag fish, manage project and analyze data\n"}]

Other Funding Source	Type	Secured	Dollar Value	Comments
ODFW	In-Kind	Secured	24000	In-kind match used to tag fish, manage project and analyze data
		Total	24000	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
District/hatchery staff time	4	6000.00	24000	0	0	24000
		SUBTOTAL	24000	0	0	24000
IN-HOUSE PERSONNEL						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
CONTRACTED SERVICES						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
TRAVEL						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
SUPPLIES/MATERIALS						
Floyt tags	3840	0.67	0	0	2573	2573
Reward (gift cards)	280	50.00	0	0	14000	14000
		SUBTOTAL	0	0	16573	16573
EDUCATION/OUTREACH						
Advertising/signage	40	0.85	0	0	34	34
		SUBTOTAL	0	0	34	34
EQUIPMENT						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
FISCAL ADMINISTRATION						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
		BUDGET TOTAL	24000	0	16607	40607

Internal Review Results

Review Score: 2.7 out of 3

(0 = Do Not Fund, 1 = Strengthen Proposal, 2 = Recommend, 3 = Strongly Recommend)

Summary of Review Team Comments

While the team is supportive of improving access facilities, the review team was not supportive of this proposal as written. This project and 17-009 should be combined and funded primarily by other funding sources and overall project development should be coordinate with or through the technical resources at the Marine Board. The team felt RE would be more appropriate as match for these other funding sources. Scores included seven 0s and two 1s.

Specific Review Team Comments

While access is supported, RE should not be paying for this exclusively.
The ramp improvements at a motorized location would be more appropriate for another funding source such as marine board with some RE funding as match.

Funding table shows $2000 match, but Budget shows $5635 match. This is a discrepancy.

Marine board funding and technical assistance needs to be incorporated into this project.

There is no engineering review listed (ODFW, OSMB, Siletz Park, or otherwise). Seems like this type of work should have some design work, or at least have an engineer look at the proposed repair. Engineering is needed to ensure long term success of this project, especially to ensure ADA compliance, permitting, and local codes are met.

Keeping the ramp in good shape seems to be merited but it needs to be done right.
The application needs strengthening, with more explanation/demonstration of what will be done. What alternatives have been explored? Has OSMB reviewed this proposal and the current condition? They may have some guidance or assistance to provide.

Specific Review Team Questions

No design/plans included for construction, just general verbal description. Was there any development of alternatives? E.g. pre-cast extension of ramp, or other alts. Will there be any addition of rip-rap at toe of ramp to reduce future scouring?

Please explain why the Marine Board is not involved in the design and implementation of this project.

Please explain the boating and public use at this site. Does angler use constitute 100% of use? If not, then explain why you are asking anglers for nearly all of the costs.

Permitting for this and the ramp needs to be explored further. This need a Joint F/R permit. Have you looked into the need for DEQ permits and floodplain development permits especially for parking and restroom developments?

Additional Files

Budget Information

Maps

Photos

Design Information

Management Plans and Supporting Documents

Permits and Reviews

Partnerships

Public Comment

Administrative Documents

- REIS
- Signature Page

Completion Report

A completion report has not been submitted for this project.