

FY 2009 RESEARCH PROBLEM STATEMENT

Use this form to submit a problem statement

Submittal via E-mail is preferred: Save the form and give it a new, descriptive name, then send to:
barnie.p.jones@odot.state.or.us

ODOT Research Unit
200 Hawthorne Ave. SE, Suite B-240
Salem, OR 97301-5192

Office Phone: (503) 986-2700
FAX Phone: (503) 986-2844

TITLE

Inventory of fish habitat quality in the Willamette Valley

PROBLEM (Description of need)

The Endangered Species Act (ESA) warrants that threatened species be given special consideration and protection if their population dips low enough. A number of Northwest fish species are either protected under the ESA, or are likely to be listed in the near future. One of the best tools for assisting fish species recovery is the removal of barriers to fish passage. However, without prior knowledge of which areas above fish barriers is most habitable, the removal of fish barriers will not provide maximum benefit for the effort and funding spent.

PROPOSED RESEARCH, DEVELOPMENT OR TECHNOLOGY TRANSFER ACTIVITY

Create a GIS data layer inventory of the quality parameters for fish habitat in the Willamette Valley. The inventory will begin with layers of simple, easy to estimate or measure parameters such as flow, summer/winter temperatures, and perhaps dissolved oxygen. If there is a need to add more parameters at a later date, future studies can be performed using other metrics and the results added to the inventory. The data layer could be added to USGS StreamStats.

BENEFITS

The resulting GIS layer inventory will be an invaluable tool when attempting to maximize areas of pristine fish habitat by retrofitting, replacing or removing minimal barriers to fish passage. Such a tool will provide valuable insight for compliance with the Endangered Species Act, and could foster future research in the area.

CONTACT PERSON:

Name, address phone number and e-mail

Adam Stonewall, USGS
2130 SW 5th Ave
Portland OR 97201
503-251-3276
stonewal@usgs.gov

FOR RESEARCH UNIT USE ONLY

NCHRP
SPR
POOLED FUND
STATE
OTHER

PLEASE RENAME THE COMPLETED FORM WITH A SHORT NAME RELATING TO THE RESEARCH TOPIC.

Submittal of this form via E-mail is preferred. Send to: barnie.p.jones@odot.state.or.us