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Phil Rockefeller Washington

February 23, 2012

MEMORANDUM

TO: Council Members

FROM: Lynn Palensky

SUBJECT: Progress update on Lamprey Synthesis Report

In the final programmatic recommendations for the lamprey projects in the RME/AP review, the Council called for follow-up documents (described below) to be developed during the project funding period. The Co-Chairs of the Lamprey Technical Work Group, Christina Luzier (US Fish and Wildlife Service) and Dave Ward (CBFWA Members Advisory Group), will present a progress update and an overview of the draft report to the Council on the group's work.

The <u>Synopsis of Lamprey-Related Projects Funded through the Columbia River Basin Fish and Wildlife Program</u> is anticipated to be submitted to the ISAB for review in April, 2012.

In its <u>Final Review of 2010 Proposals for the Research, Monitoring, and Evaluation and Artificial Production Category</u> the ISRP suggests: the Inter-Agency Lamprey Technical Working Group would be a possible group of experts that could write a basinwide synthesis including major conclusions that could be drawn at this point with supporting evidence, status and trends, and a candid evaluation of whether tributary habitat projects are improving lamprey returns. A draft outline could be developed based on comments from this RM&E review, other project reviews, and ISAB suggestions (ISAB 2009-3). The ISAB should review the synthesis.

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Columbia River Basin Lamprey Technical Workgroup



Synopsis of Lamprey-Related Projects Funded Through the Columbia River Basin Fish and Wildlife Program





Columbia River Basin Lamprey Technical Workgroup

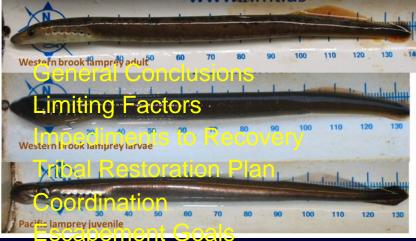


Synopsis of Lamprey-Related Projects Funded Through the Columbia River Basin Fish and Wildlife Program

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Summary of Lamprey Projects

Respor



Status
Brook Lamprey





Pacific Lamprey Research and Restoration 1994-026-00



First Lamprey Project

Findings Widely Applicable

Important Components

Translocation

Low-Elevation Structures

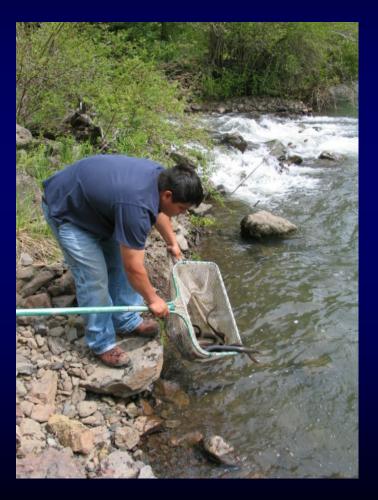
Genetics

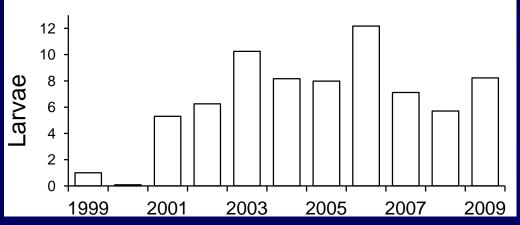


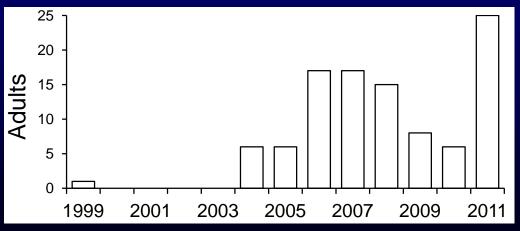
Pacific Lamprey Research and Restoration

1994-026-00

Translocation

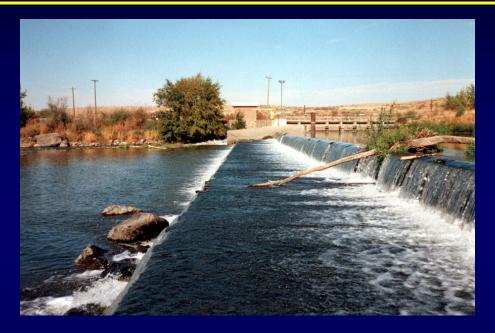








Pacific Lamprey Research and Restoration 1994-026-00



Low-Elevation Structures

Pacific Lamprey Genetics



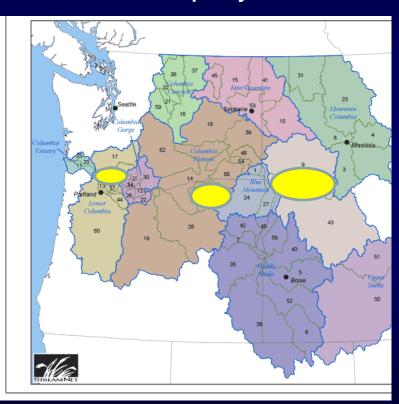


Early Lamprey Survey Projects



Habitat Use and Population Dynamics of Lampreys in Cedar Creek

2000-014-00



Objectives

Abundance
Spawning Requirements
Migration Timing

Status of Pacific Lamprey in Idaho

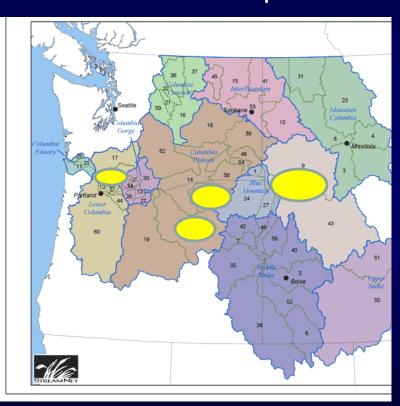
2000-028-00



Early Lamprey Research Projects

Lamprey Identification and Thermal Requirements

2000-029-00



Objectives

Differentiate Species
Temperature Requirements

Innovative Project

Upstream Migration, Timing, and Habitat Use

2000-052-00



Current Lamprey Survey Projects

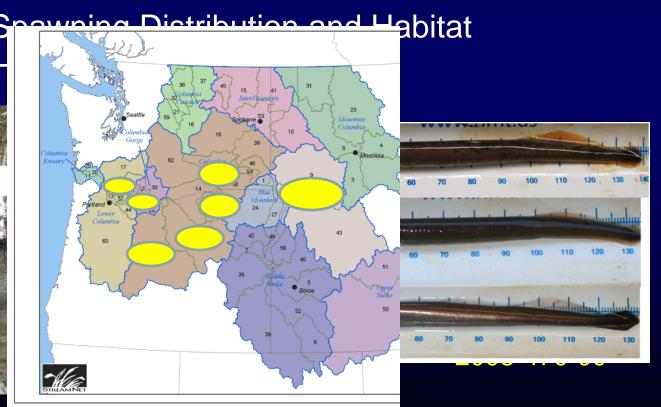


Objectives

Larval Distribution and Habitat

Species Composition

Larval and Adult Abundance

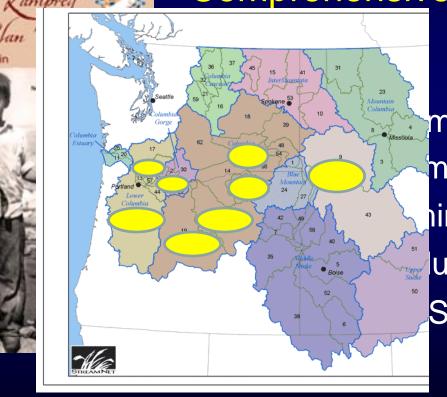




Implement Tribal Pacific Lamprey Restoration Plan 2008-524-00



Comprehensive Basin-Wide Project



m and Tributary Passage mentation Strategies ninants/Water Quality ucation Stages



Willamette Falls Lamprey Escapement Estimate 2008-308-00

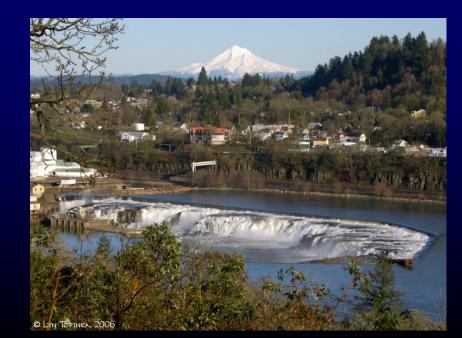




Objectives

Estimate Lamprey Escapement Develop Long-Term Index

2010 Passage = 22,000-36,000 2010 Harvest = 4.4% - 7.3%





Columbia River Basin Lamprey Technical Workgroup



Response by LTWG to ISRP Questions

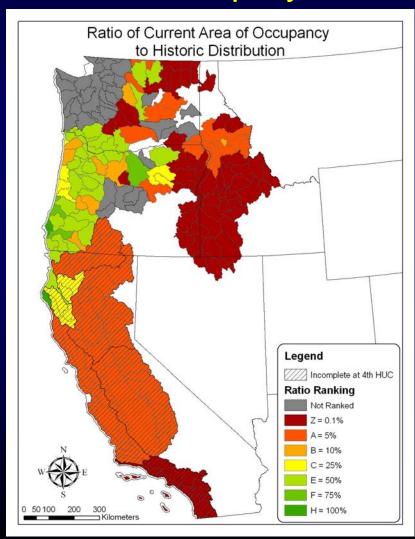
- 1. General Conclusions
- 2. Limiting Factors
- 3. Impediments to Recovery
- 4. Tribal Restoration Plan
- 5. Coordination
- 6. Escapement Goals
- 7. Status
- 8. Brook Lamprey

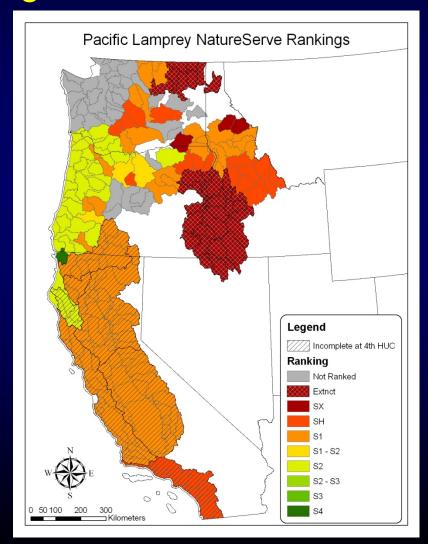


General Conclusions and Status



Are lamprey recovering in the basin?

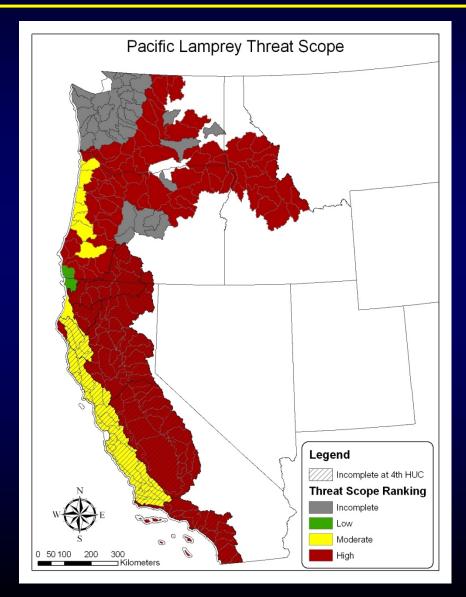






Limiting Factors



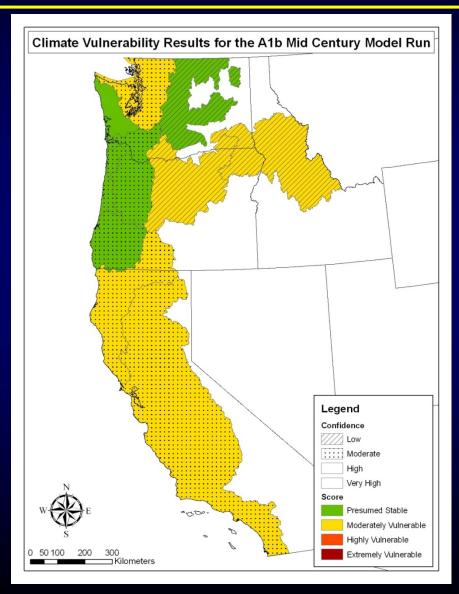


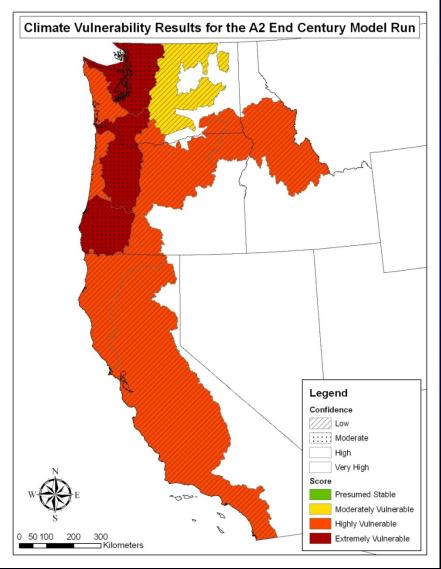
- 1. Passage
- 2. Dewatering and flow management
- 3. Stream and floodplain degradation
- 4. Poor water quality
- 5. Predation
- 6. Ocean conditions
- 7. Climate change



Climate Change







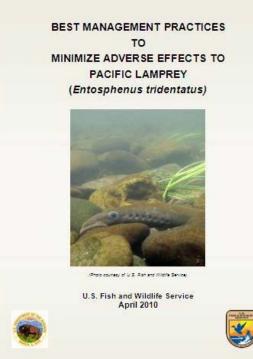


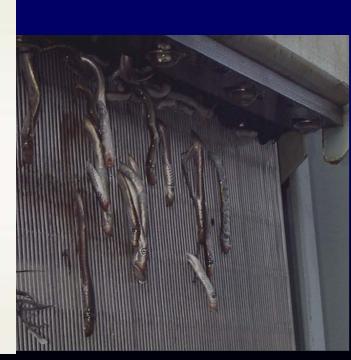
Impediments to Recovery



- 1. Lack of resources
- 2. No requirement for recovery
- 2. Slow progress on fixes









Tribal Restoration Plan



Finalized in December 2011

- Mainstem and tributary passage and habitat
- Supplementation and augmentation
- Contaminants and water quality
- Outreach and education
- Research, monitoring and evaluation

Not a master plan though incorporates information in other regional lamprey planning documents



Other Plans



U.S. Army Corps of Engineers

- 10 year Passage Plan for lamprey
- NPCC Fish and Wildlife Program
- PUD and State Lamprey Plans
- USFWS Pacific Lamprey Assessment and Template for Conservation Measures
- Assessment
- Conservation Agreement
- Regional Implementation Plans
- Lamprey Summit III



Coordination and Metrics



- Coordination has improved
- Key issues like sampling efficiencies, tag development, survival estimation, and escapement are being worked on
- Monitoring and evaluation to provide such metrics is needed
- Workgroup members working on these issues and collaborate
- Forums for discussion have increased



Western Brook Lamprey



- Genetic analyses for WBL indicate fine scale population structure
- Funding for non-anadromous lamprey status research is needed



Columbia River Basin Lamprey Technical Workgroup



Synopsis of Lamprey-Related Projects Funded Through the Columbia River Basin Fish and Wildlife Program

