

Status of Pacific Lamprey

- Tribes Culturally Important
- Federal Species of Concern (USFWS)
- Oregon State Sensitive Species
- Washington Priority Species
- Idaho State Endangered Species
- California State Species of Concern

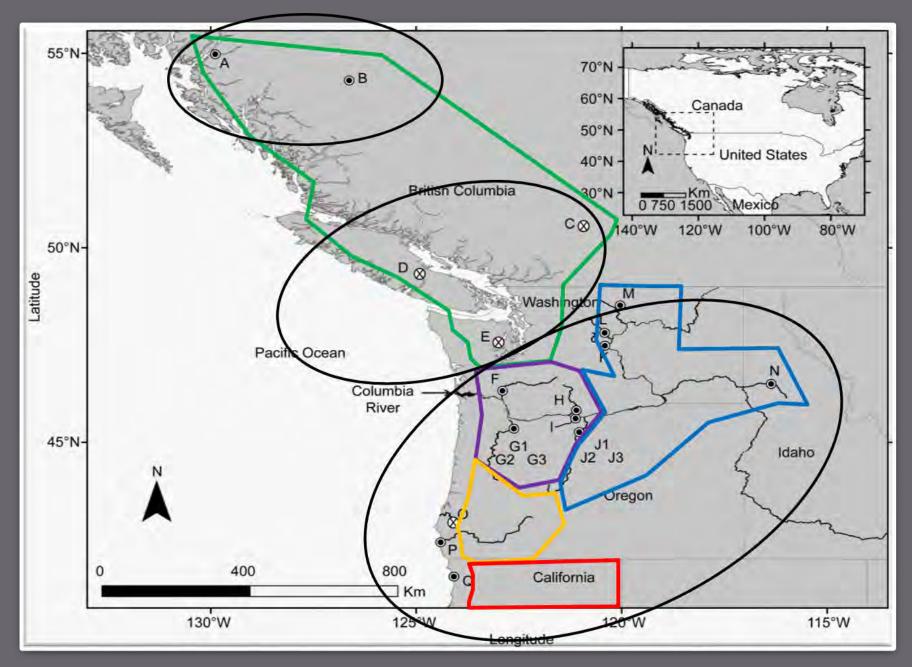


Conservation Timeline

- 1993 Oregon designates PL as State Sensitive Species
- 1994 Northwest Power and Planning Council and Bonneville Power Administration start funding lamprey work
- 1995 Columbia River Status Report
- 1995 Columbia River Lamprey Technical Workgroup
- 1999 Bonneville daytime counts resume
- 2000 Adult translocation program Umatilla Tribe
- 2002 Commercial harvest banned in Oregon

Listing History

- 2003 Petition to List 4 Species:
 - Pacific, River, Western Brook and Kern Brook lampreys
- 2004 "Not warranted" decision for all species
 - River, Western Brook and Kern Brook lampreys
 - Insufficient information
 - Pacific Lamprey
 - Agreed there were declines
 - No defined listable entity (distinct population segment)



Hess J.E. et al. (2013) Mol Ecol, 22(11), 2898-2916.

Conservation Timeline

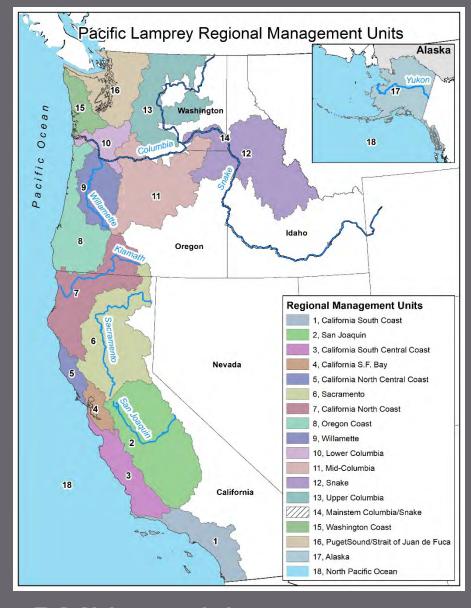
- 2004 Willamette Falls License Lamprey Passage Plan
- 2006 Rocky Reach License Lamprey Mgmt Plan
- 2008 USACE 10 year Lamprey Passage Plan
- 2008 Priest Rapids License Lamprey Mgmt Plan
- 2009 Wells License Lamprey Management Plan
- 2010 Clackamas License Lamprey Passage Plan

CRITFC Lamprey Summit I - 2004

Lamprey Summit II - 2008

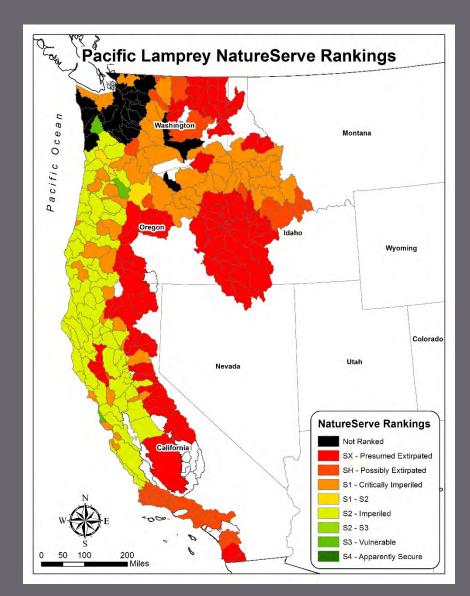
Fish Accords - 2008

Pacific Lamprey Conservation Initiative - 2008



RMUs and Assessment 2011-2012

Pacific Lamprey Conservation Initiative



Conservation Agreement 2012

Oregon Zoo

Yakama Nation

Umatilla Tribes

Warm Springs Tribes

Cow Creek Band of Umpquas

Grand Ronde Tribes

Siletz Tribes

Blue Lake Rancheria Tribe

Mechoopda Tribe

Wiyot Tribe

Yurok Tribe

Coos, Lower Umpqua Siuslaw Tribes

California Dept of Fish and Wildlife

Oregon Dept of Fish and Wildlife

Idaho Dept of Fish and Game

Washington Dept of Fish and Wildlife

Alaska Dept of Fish and Game

Portland Metro

City of Portland Environmental Services

Portland General Electric

Bonneville Power Administration

U.S. Army Corps of Engineers

U.S. Bureau of Indian Affairs

U.S. Bureau of Land Management – CA, ID & OR

U.S. Bureau of Reclamation

US Fish and Wildlife Service – Regions 1, 7 & 8

U.S. Forest Service – Regions 1, 4, 5 & 6

National Marine Fisheries Service

Pacific States Marine Fish Commission

Lower Columbia River Estuary Partnership

Columbia Land Trust

Salmon Creek Watershed Council

California Dept of Water Resources

U.S. Environmental Protection Agency – Region 10

Grant County PUD

Chelan County PUD

- 2010 Best Management Practices Document
- 2011 Tribal Restoration Plan
- 2012 Lamprey Summit III/Conservation Agreement
- 2013 Regional Implementation Plans
- 2017 Lamprey Summit IV
- 2018 Assessment revised OR, WA, ID, AK and CA
- 2019 ODFW completes Conservation Plan for Lampreys
- 2020 Best Management Guidelines (revised BMPs)





ODFW



- Signatory to Conservation Agreement
- Statewide lamprey coordinator Ben Clemens
- Coastal, Columbia, & Snake Conservation Plan for Lampreys in Oregon (CPL)
- Developed per Native Fish Conservation Policy
- Supports efforts for Pacific Lamprey by
 - Tribes
 - U.S. Fish & Wildlife Service
 - Others
- Covers 3 other lamprey species

Anadromous parasitic STATUS: SENSITIVE STATUS: SENSITIVE STATUS: SENSITIVE Resident & non-feeding STATUS: SENSITIVE

(4-7")

Management strategies

- 1. Education & outreach (New)
- 2. Passage & screening (New & Existing)
- 3. Protect & restore habitat (Existing)
- 4. Water conservation (Existing)
- 5. Translocation (New)
- 6. Establish in-water work BMPs (New)
- 7. Modify angling regulations on non-native fishes (New & Existing)
- 8. Pinniped mgmt (Existing)

Research, Monitoring, & Evaluation

- 1. Improve distribution data (New & Existing)
- 2. Prioritize artificial obstructions for passage & screening (New)
- 3. Inform passage & screening (New)
- 4. Improve biological knowledge (New)
- 5. Estimate take (New & Existing)
- 6. Assess complex, large-scale threats (New)
- 7. Assess translocation (New)
- 8. Estimate adult abundance (New & Existing)
- 9. Monitor diversity (New)

Implementation

- Complements work by partners
- Collaborative approach
- Leverage existing work
- Grants for particular projects
- Adaptive management



- Signatory to Conservation Agreement
- Pacific Lamprey is a priority species
- The PHS List is a catalog of habitats and species considered to be priorities for conservation and management
- WDFW/USFWS IPA position



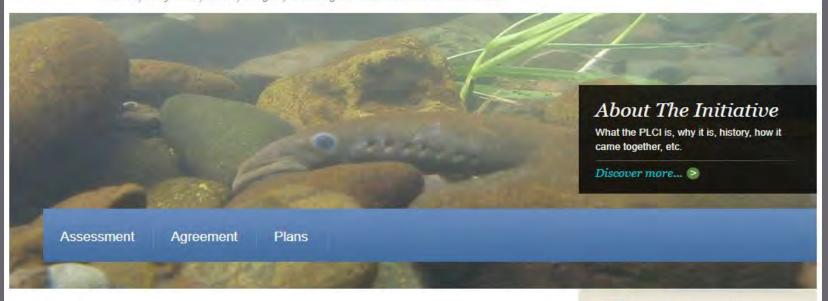




Pacific Lamprey Conservation Initiative

follow the fws online

Alaska, California, Idaho, Oregon, Washington and Native American Tribes



FEATURES

Best Management Practices to Minimize Adverse Effects to Pacific Lamprey

BEST MANAGEMENT PRACTICES TO MINIMIZE ADVERSE EFFECTS TO PACIFIC LAMPREY (Entosphenus tridentatus)



This document provides Best Practices that can be incorporated into any stream disturbing activity on lands managed by the Forest Service and Bureau of Land Management throughout the range of Pacific lamprey.

View the full document

INITIATIVE UPDATES

RECENT INITIATIVE-RELATED MEETINGS









Featured Topics

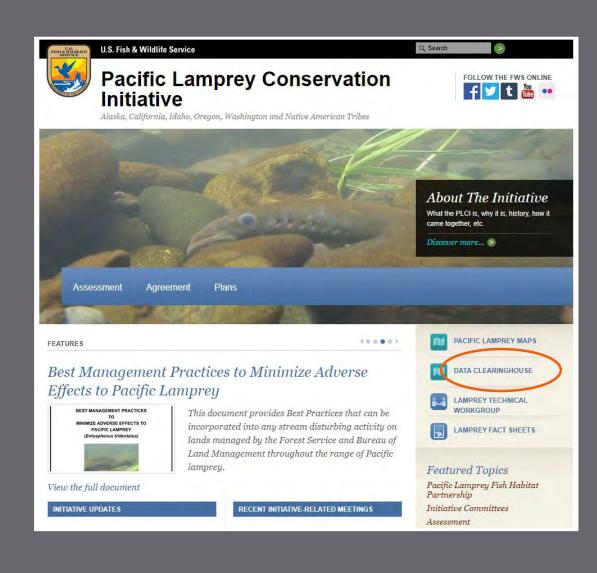
Pacific Lamprey Fish Habitat Partnership

Initiative Committees

Assessment

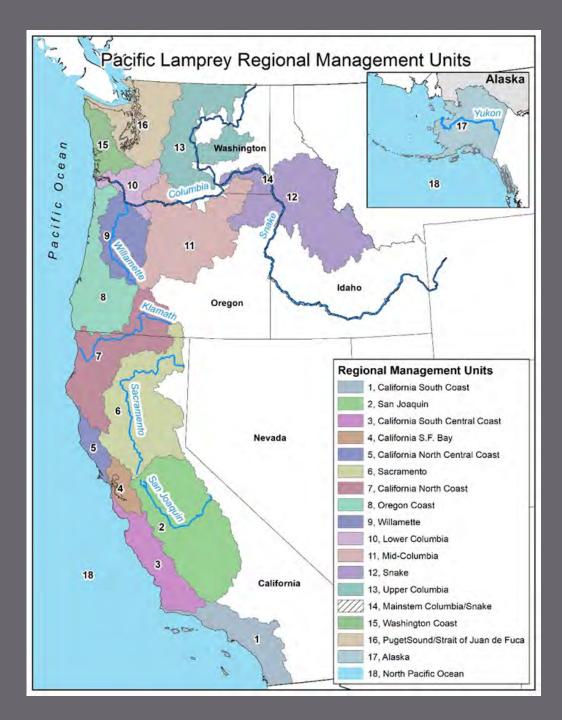
Lamprey Technical Workgroup

- Subgroups
 - Juvenile entrainment& dredginginvestigations
 - Tagging
 - Genetics & eDNA
 - Adult passage
 - Restoration
 - Contaminants
 - Ocean Phase
 - SOLAR
 - Outreach
 - Aquaculture



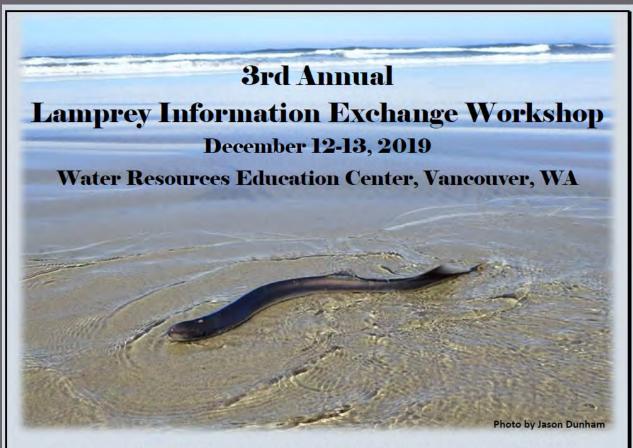
RMU Groups

- Local biologists and managers
- Share information & resources
- Collaborate
 across
 organizations
- Develop Regional Implementation Plans annually
- RIPs available online!



Lamprey Project Funding

- Projects selected from priority projects proposed in Regional Implementation Plans
- BPA Pacific Lamprey
 Columbia River Basin Projects
 - FY18 \$250K 3 projects
 - FY19 \$240K 7 projects
 - FY20 \$240K 6 projects
- National Fish Habitat Partnership
 - FY18 \$65K 2 projects
 - FY19 \$40K 1-2 projects
 - FY20 TBD



Sponsored by the Lamprey Technical Workgroup and HDR

Please join your fellow lamprey enthusiasts in a lively two-day workshop where we will learn and exchange the newest information about lamprey.

Schedule of Events

Thursday, December 12th

Friday, December 13th

8:30 am - Check-in

9:00-9:15 - Greeting and Invocation

9:15-11:00 - Tribal Research and TEK Session

11:15-12:15 - Regulatory and Management Session

12:15-1:30 - Lunch and Poster Session

1:30-3:15 - Methodologies Session

3:30-4:30 - Open Topic Speed Session 5:00 - Happy Hour Discussions @ Loowit Brewing 8:15 am - Check-in

8:30-10:15 - Species Other Than Pacific Lamprey Session

10:15-11:15 - Contaminants Speed Session

11:30-1:15 - New Passage Improvements Session

1:15-1:30 - Recap and Adjourn

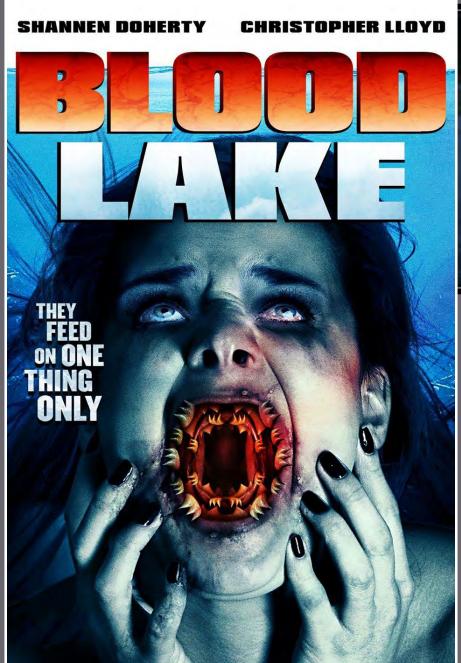
4th Annual
Lamprey
Information
Exchange

January 12-14, 2021 Vancouver, WA

Barriers to Tidal Connectivity

Pacific Marine and Estuarine Fish Habitat Partnership California Fish Passage Forum
Pacific Lamprey Conservation Initiative

- Identify existing efforts underway to document restrictions to tidal connectivity in U.S. West Coast and Alaska estuaries
- Host a workshop to identify gaps and technical (science and data) information needed to address ways to reduce restrictions as well as share tools and products developed.





"Jeremy experiences the bite of the lamprey first hand to demonstrate why these bloodsucking creatures are so dangerous to swimmers."





