

Heritage Ranking Form - State Rank

Scientific Name: *Entosphenus tridentatus*
Common Name: Pacific Lamprey
Classification: Vertebrate Animal

Heritage Rank: **S1S2**

Rank Date: 2/21/2012

Comments: Although this species currently has a broad distribution in OR, it is experiencing significant declines due to loss of natural stream habitat. It is declining in all HUCs for which there is data.

Range Extent: G = 200,000-2,500,000 sq km (~80,000-1,000,000 sq mi)

Comments: Range extent in OR approximately 247,750sq km.

Population Size: FG = 10,000 - 1,000,000 individuals

Comments: Based on data in Luzier et al. 2011.

Number of Occurrences: C = 21 - 80

Comments: Present in 42 OR 4th field HUCs

Area of Occupancy: I = > 12,500 4-km² grid cells

Comments: This number was estimated from the stream area within occupied watersheds. Approximately 25,107 4 km sq grid cells covered by streams within occupied watersheds. Not all streams are occupied within the occupied watersheds.

Good Viability: C = Small percent (5-10%) of area with excellent or good viability or ecological integrity

Comments: Rangelwide decline in abundance and distribution. In OR, most secure populations along the South Coast, and even these have declined.

Environmental Sensitivity: Not Evaluated

Comments: None

Short Term Trends: C = Decline of 70 - 80%

Comments: Declines vary from 10% (as few HUCs on south coast) to 100% (NE OR).

Long Term Trends: D = Decline of 50 - 70%

Comments: None

Threat Impact: A = Very High

Comments:

Threatened by barriers to passage, climate change, water quality degradation, channelization, scouring, loss of side channels.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Rank Notes: Calculator Rank (unrevised)=S1. Rank modified to S1S2 because of large range extent in OR. It is relatively more secure along the OR coast.

References:

Luzier, C.W., H.A. Schaller, J.K. Brostrom, C. Cook-Tabor, D.H. Goodman, R.D. Nelle, K. Ostrand, and B. Streif. 2011. Pacific Lamprey (*Entosphenus tridentatus*) Assessment and Template for Conservation Measures. U.S. Fish and Wildlife Service, Portland, OR 282pp.

Rank Author: Gaines, Eleanor

Oregon Biodiversity Information Center, Institute for Natural Resources
Portland State University www.orbic.pdx.edu
Mail Stop: INR, PO Box 751 www.pdx.edu/inr
Portland, OR 97207-0751 503-725-9950