

Heritage Ranking Form - State Rank

Scientific Name: *Pyrgulopsis robusta*
Common Name: Jackson Lake springsnail
Classification: Invertebrate Animal

Heritage Rank: **S2S3**

Rank Date: 7/7/2016

Comments: Relatively large but patchy distribution across eastern OR. Sensitive to local extirpation. At least some large populations.

Range Extent: F = 20,000-200,000 sq km (~8,000-80,000 sq mi)

Comments: 44,417 sq km range extent, but that does not include Snake River records along Idaho border. Regardless, this category encompasses the full range extent in OR.

Population Size: Not assessed

Comments: None

Number of Occurrences: B = 6 - 20

Comments: At least 9 EOs with separation distance of 1 km. Likely more.

Area of Occupancy: E = 26-125 4-km² grid cells

Comments: 37 4km² grid cells based on existing EOs buffered to 1 km. Occurs in isolated populations in the Oregon Interior Basin and in the South Fork Malheur River, in Harney and Lake Counties, as well as one or two spring sites in the Lake Abert area of Lake County, OR (Frest and Johannes 1995; Hershler 1998; Bowler 2004). The Columbia River population is currently known to occur at 17 sites in Oregon and Washington (Andrews 2011).

Good Viability: BC = Very few to few (1-12) occurrences with good viability

Comments: Limited information, but abundant at at least one site.

Environmental Sensitivity: D = Broad. Generalist or community with all key requirements common

Comments: None

Short Term Trends: G = Relatively Stable (<=10% change)

Comments: None

Long Term Trends: 0

Comments: None

Threat Impact: BC = High - Medium

Comments:

Actions that alter hydrology or water quality, habitat degradation, exotic gastropods.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Rank Notes: None

References:

Frest, T. J. and E. J. Johannes. 1995. Interior Columbia Basin mollusk species of special concern. Final report: Interior Columbia Basin Ecosystem Management Project, Walla Walla, WA. Contract #43-0E00-4-9112. 274 pp. plus appendices.

Andrews, H. 2011. Species Fact Sheet: *Pyrgulopsis robusta*. Available at:

<http://www.fs.fed.us/r6/sfpnw/issssp/species-index/fauna-invertebrates.shtml>

Hershler, R. 1998. A systematic review of the hydrobiid snails (Gastropoda : Rissooidea) of the Great Basin, western United States. Part I. Genus *Pyrgulopsis*. *Veliger* 41: 1-132.

Bowler, P.A. 2004. Petition to list the Jackson Lake springsnail (*Pyrgulopsis robusta*), Harney Lake springsnail (*Pyrgulopsis hendersoni*), and Columbia springsnail (*Pyrgulopsis new species 6*) as Threatened or Endangered. Report submitted to the United State Secretary of the Interior, Washington, D.C. , July 2004. 59 pp.

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