

Heritage Ranking Form - State Rank

Scientific Name: *Rana pretiosa*
Common Name: Oregon spotted frog
Classification: Vertebrate Animal

Heritage Rank: **S1**

Rank Date: 4/1/2016

Comments: Several sites are isolated from each other because of species' limited dispersal ability. Species may be extirpated from approximately 90% of its historic range (Hayes 1997, Haycock 2000, USFWS 2011). Many remaining sites are small. Significant threats.

Range Extent: E = 5,000-20,000 sq km (~2,000-8,000 sq mi)

Comments: 21,113 sq km range extent based on records since 2000.

Population Size: F = 10,000 - 100,000 individuals

Comments: 13,140 very rough population estimate based on surveys at remaining sites. Reported in USFWS Final Listing package (2014)

Number of Occurrences: 0

Comments: 83 EOs, of which about half are pre-2000 and likely extirpated. USFWS (2011) states *Rana pretiosa* is known from 32 sites in OR as of 2011. Currently occurs in the Klamath Basin and Cascades.

Area of Occupancy: F = 126-500 4-km² grid cells

Comments: 168 4km² grid cells based on extant EOs since 2000.

Good Viability: C = Few (4-12) occurrences with excellent or good viability or ecological integrity

Comments: 2 to 6 EOs with good viability (USFWS 2011).

Environmental Sensitivity: Not Evaluated

Comments: None

Short Term Trends: E = Decline of 30 - 50%

Comments: None

Long Term Trends: AC = Decline of >70%

Comments: Decline of 70-90% of its historic range

Threat Impact: A = Very High

Comments: Loss of habitat (hydrological alteration, development), fragmented habitat coupled with low dispersal ability, non-native predators and vegetation, drought, occasionally livestock grazing, Chytrid fungus (and other diseases), pesticides. Across range, 75% of sites surveyed had some degree of human-related hydrological alteration (USFWS 2011). Small populations are vulnerable to stochastic

Intrinsic Vulnerability: Not Evaluated

Comments: None

Rank Notes: None

References: ORBIC Biotics database | Cushman, K. A. and C. A. Pearl. 2007. A conservation assessment for the Oregon spotted frog (*Rana pretiosa*). USDA Forest Service Region 6. Available at <http://www.fs.fed.us/r6/sfpnw/issssp/species-index/fauna-amphibians.shtml> | Adams, M. J. et.al. 2014. Short-term occupancy and abundance dynamics of the Oregon spotted frog (*Rana pretiosa*) across its core range. USGS report 2014-1230. Available at <http://www.fs.fed.us/r6/sfpnw/issssp/documents3/inv-rpt-ha-rana-pretiosa-usgs-monitoring-2014.pdf> | US Fish and Wildlife Service. 2011. Species assessment and listing priority assignment form: *Rana pretiosa*. Available online: <http://www.fs.fed.us/r6/sfpnw/issssp/documents/planning-docs/cp-fws-candidate-ha-rana-pretiosa-2011-05.pdf> | Haycock, R.D. 2000. COSEWIC status report on the Oregon spotted frog, *Rana pretiosa*, in Canada. Report to the Committee on the Status of Endangered Wildlife in Canada. Committee on the Status of Endangered Wildlife in Canada, Ottawa. 19 pp. | Hayes, M.P. 1994. The spotted frog (*Rana pretiosa*) in western Oregon. Part I. Background. Part II. Current status. Oregon Department of Fish and Wildlife Technical Report 94-1-01. Unpublished Report. | U Fish and Wildlife Service. 2014. *Rana pretiosa* final listing package. Revised threats matrix analysis. Available at: http://www.fws.gov/wafwo/species/osf/OSF_Final%20Listing_Threats%20Synthesis.pdf |

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