

Smooth Glenwood Pyrg (*Pyrgulopsis chamberlini*)**Species Status Statement.**Distribution

The currently understood distribution of this freshwater snail is two springs near the town of Glenwood in Sevier County, Utah.

Table 1. Utah counties currently occupied by this species.

Smooth Glenwood Pyrg
SEVIER

Abundance and Trends

The population status of smooth Glenwood pyrg is currently unclear. This species was last collected in 1993 and was noted to be abundant (Hershler, 1995), but a quantitative assessment is not yet available.

Statement of Habitat Needs and Threats to the Species.Habitat Needs

In general, snails in the genus *Pyrgulopsis* are usually associated with rheocrenes (a rheocrene is a spring that emerges from the ground as a flowing spring), aquatic vegetation, and hard surfaces (Hershler 1998). Specific habitat for this species is not well known, but has been generally described as a rheocrene with water temperature of 18 degrees Celsius and conductivity of 396 (Hershler 1995). Hershler (1998) noted that one spring was deeply entrenched and more mineralized than the other spring.

Threats to the Species

The restricted distribution of this species in Utah makes it susceptible to catastrophic events that degrade spring habitat. Additionally, one of the springs was highly impacted by recreational activity in the mid 1990s (Hershler 1995; Hershler 1998).

Table 2. Summary of a Utah threat assessment and prioritization completed in 2014. This assessment applies to the species' entire distribution within Utah. For species that also occur elsewhere, this assessment applies only to the portion of their distribution within Utah. The full

threat assessment provides more information including lower-ranked threats, crucial data gaps, methods, and definitions (UDWR 2015; Salafsky et al. 2008).

Smooth Glenwood Pyrg
Very High
Small Isolated Populations
High
Recreational Activities

Rationale for Designation.

Smooth Glenwood pyrg lives in only two springs in Sevier County, Utah. Thus its population is susceptible to catastrophic events. Surveys are needed to better understand the distribution and status of this species in Utah, and monitoring of threats will help ensure the persistence of this species. Smooth Glenwood pyrg is included in the Conservation Agreement for Springsnails in Nevada and Utah (Springsnail Conservation Team 2017).

Economic Impacts of Sensitive Species Designation.

Sensitive species designation is intended to facilitate management of this species, which is required to prevent Endangered Species Act listing and lessen related economic impacts. An ESA listing of smooth Glenwood pyrg would impact management and development of water resources in the town of Glenwood and elsewhere in Sevier County. There would also be increased costs of regulatory compliance for many land-use decisions and mitigation costs.

Literature Cited.

- Hershler, R. 1995. Field survey and preliminary taxonomy of Great Basin springsnails. Final report for Cooperative Agreement P 852-A1-0035 between U.S. Department of the Interior, Bureau of Land Management, and the Smithsonian Institution.
- Hershler, R. 1998. A systematic review of the hydrobiid snails (Gastropoda: Rissooidea) of the Great Basin, western United States. Part I. Genus *Pyrgulopsis*. *The Veliger* 41: 1–132.
- Salafsky, N., D. Salzer, A.J. Stattersfield, C. Hilton-Taylor, R. Neugarten, S.H.M. Butchart, B. Collen, N. Cox, L.L. Master, S. O'Connor, and D. Wilkie. 2008. A standard lexicon for biodiversity conservation: unified classifications of threats and actions. *Conservation Biology* 22: 897–911.
- Springsnail Conservation Team. 2017. Conservation Agreement for Springsnails in Nevada and Utah. Nevada Division of Wildlife and Utah Division of Wildlife Resources agreement. 13 pp plus signatory pages.

Utah Division of Wildlife Resources [UDWR]. 2015. Utah Wildlife Action Plan: A plan for managing native wildlife species and their habitats to help prevent listings under the Endangered Species Act 2015-2025. Publication Number 15-14, 385 pp.