

## Ribbed Dagger (*Pupoides hordaceus*)

### **Species Status Statement.**

#### Distribution

The distribution of this snail in Utah is not well known. The only documented Utah occurrences of ribbed dagger are from Garfield County (Chamberlin and Berry 1930; Chamberlin and Berry 1931; Gregg 1942; Pilsbry 1948). The species is documented from San Miguel County, Colorado near the Utah border (Pilsbry 1948), but it is unknown whether this species is present in Utah's neighboring San Juan County (Oliver and Bosworth 1999). Ribbed dagger is also documented from Arizona's Apache, Navajo, and Coconino counties, which all adjoin Utah (Pilsbry 1948). These occurrences suggest the species could possibly be present in San Juan and Kane counties in Utah.

Table 1. Utah counties historically occupied by this species. There are no recent observations to verify the presence of this species in these counties.

<b>Ribbed Dagger</b>
GARFIELD

#### Abundance and Trends

Abundance information is not available for this species, and no live specimen collections have been documented (Oliver and Bosworth 1999).

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

#### Habitat Needs

Habitat descriptions and needs for this species are currently unknown (Oliver and Bosworth 1999).

#### Threats to the Species

Since little is known about the distribution and habitat needs for this species, threats have not been identified for ribbed dagger (Oliver and Bosworth 1999).

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).

<b>Ribbed Dagger</b>
<b>No Identified Threats - Data Gaps Only</b>

### **Rationale for Designation.**

Little is known about the distribution, population status, habitat needs, and threats for ribbed dagger in Utah, which precludes appropriate conservation actions for this species. In order to develop an understanding of the distribution and status of this species in Utah, managers need to conduct occasional surveys, and monitor potential threats. These activities will help prevent the possibility of Endangered Species Act listing of this species.

### **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 ribbed dagger would have unknown economic impacts for Utah, especially since there are no recent collections of this species. Designated Sensitive Species with no identified threats, only data gaps, will be researched until concerns are allayed, or specific threats are identified for management. Habitat requirements are not known for this species, so specific habitats cannot be protected at this time.

### **Literature Cited.**

- Chamberlin, R.V. and E. Berry. 1930. Mollusca from the Henry Mountains and some neighboring points in Utah. Bulletin of University of Utah 21 (2):1-8.
- Chamberlin, R.V. and E. Berry. 1931. A new mollusk of the genus *Pupoides* from southern Utah. Proceedings of the Biological Society of Washington 44:7-8.
- Gregg, W.O. 1942. Additional Utah records. Nautilus 55:143-144.
- Oliver, G.V. and W.R. Bosworth. 1999. Rare, imperiled, and recently extinct or extirpated mollusks of Utah: a literature review. Report to the Utah Division of Wildlife Resources, Publication Number 99- 29. Salt Lake City, Utah, USA.
- Pilsbry, A.H. 1948. Land Mollusca of North America (north of Mexico). The Academy of Natural Sciences of Philadelphia 3(2), part 2:521-1113.
- 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.

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.