### Washington Status Factors

<table>
<thead>
<tr>
<th>Elcode</th>
<th>IMGAS80150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gname</td>
<td>PRISTILOMA ARCTICUM CRATERIS</td>
</tr>
<tr>
<td>Gcomname</td>
<td>CRATER LAKE TIGHTCOIL</td>
</tr>
</tbody>
</table>

#### Number of Occurrences

<table>
<thead>
<tr>
<th>A</th>
<th>1 - 5</th>
</tr>
</thead>
</table>

**Comments**
The Interagency Species Management System (via BLM) lists one locality in Washington in the Gifford Pinchot National Forest.

#### Number of Occurrences with Good Viability

<table>
<thead>
<tr>
<th>B</th>
<th>Very few (1-3) occurrences with good viability</th>
</tr>
</thead>
</table>

**Comments**
Majority of occurrences extant in Oregon (Burke et al., 1999; Frest and Johannes, 2000). The Interagency Species Management System (via BLM) lists one locality in Washington in the Gifford Pinchot National Forest.

#### Population Size

<table>
<thead>
<tr>
<th>U</th>
<th>Unknown</th>
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**Comments**

#### Range Extent

<table>
<thead>
<tr>
<th>A</th>
<th>&lt;100 km² (less than about 40 square miles)</th>
</tr>
</thead>
</table>

**Comments**
Although it has been found in only 3 localities (including about 8 sites), these areas are widespread (Burke et al., 1999). Note this is the undescribed species from Henderson (1929). Most localities in Oregon. The Interagency Species Management System (via BLM) lists one locality in Washington in the Gifford Pinchot National Forest.

#### Area of Occupancy

<table>
<thead>
<tr>
<th>U</th>
<th>Unknown</th>
</tr>
</thead>
</table>

| LU | Unknown |

**Comments**

#### Long-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

| U  | Unknown |

**Comments**
Long-term trend in population, range, area occupied, or number or condition of occurrences unknown

#### Short-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

| U  | Unknown |

**Comments**
Short-term trend in population, range, area occupied, and number and condition of occurrences
Threats

A = Substantial, imminent threat. Threat is moderate to severe and imminent for most (≥ 60%) of the population, occurrences, or area. Ecological community occurrences are directly impacted over a widespread area, either causing irreversible damage or requiring long term recovery.

Scope High
Severity Moderate
Immediacy High

Comments
Activities that compact soils, reduce litter and/or vegetative cover, or impact potential food sources (i.e., livestock grazing, heavy equipment use, ORVs, and camping on occupied habitats) would be deleterious to the survival and productivity of this and similar species. Natural porous soils and litter provide cover necessary for protection against temperature and humidity extremes, as well as for hiding or escape from predators. While the microclimate ranges tolerated by this species are not known, it is apparent that without suitable habitat, those ranges would be exceeded. Depending on specific site characteristics, removal of ground shading overstory would also impact this species by allowing excessive fluctuations in ground temperature and humidity. These effects may be less extreme at higher elevations and on wetter sites, but no studies have been done to evaluate such a theory, or to determine under what conditions the overstory might be less important. These snails appear to occur on wetter sites than in general forest conditions, so activities that would lower the water table or reduce soil moisture would degrade the habitat. Intense fire that burns through the litter and duff layers is devastating to most gastropods, and even light burns during seasons when these animals are active can be expected to have more serious impacts than burns during their dormant periods. Effects of fire retardant chemicals on small snails are not known and may be deleterious. Removal of logs and woody debris from occupied habitats for firewood gathering for campfires, or by a burn would degrade the habitat. Snowmobiling or skiing would impact these snails if snow, over their occupied habitats, is compacted, losing its insulative properties and allowing the litter or ground to freeze (Burke et al., 1999).

Number of Appropriately Protected and Managed Occurrences

B = Few (1-3) occurrences appropriately protected and managed

Comments
The Interagency Species Management System (via BLM) lists one locality in Washington in the Gifford Pinchot National Forest.

Intrinsic Vulnerability

B = Moderately Vulnerable. Species exhibits moderate age of maturity, frequency of reproduction, and/or fecundity such that populations generally tend to recover from decreases in abundance over a period of several years (on the order of 5-20 years or 2-5 generations); or species has moderate dispersal capability such that extirpated populations generally become reestablished through natural recolonization (unaided by humans). Ecological community occurrences may be susceptible to changes in composition and structure but tend to recover through natural processes given reasonable time (10-100 years).

Comments
The species is vulnerable to some activities, such as grazing, prescribed fire, and recreation activities that might establish high use (dispersed or developed) campsites on the occupied habitat of a small population, and possibly salvage or other silvicultural activities (Burke et al., 1999).

Environmental Specificity

B = Narrow. Specialist or community with key requirements common.

Comments
No information specific to the ecology of Pristiloma arcticum crateris was available as of December 1998. Found above 610 meters elevation in moist conifer forests and among mosses and other vegetation near wetlands, springs, seeps, and riparian areas. Specimens may be found on logs, among sedges, attached to decaying leaf surfaces, in litter, or inside other shells (Kelley
et al., 1999). Appears to be an annual taxon which occurs in Ponderosa pine/ Douglas fir forest openings of two sorts: spring-fed meadows with abundant sedges and grasses; and along mountain streams; with considerable elevation range (Frest and Johannes, 2000).

Other Considerations

Grank S1  Grank Date 11/27/2002

Greasons
The Interagency Species Management System (via BLM) lists one locality in Washington in the Gifford Pinchot National Forest. There appear to be many possible threats to its existence.

BCD Sources

New Sources