Washington Status Factors

Elcode IMGAS62030

Gname PROPHYSAON COERULEUM

Gcomname BLUE-GRAY TAILDROPPER

Number of Occurrences

B = 6 - 20

Comments 6-20 occurrences. See Frest and Johannes (2000).

Number of Occurrences with Good Viability

C = Few (4-12) occurrences with good viability

Comments 10 sites with good viability in Jefferson, Skamania, King, and Lewis Counties, Washington (Frest

and Johannes, 2000; table 7).

Population Size

U = Unknown

2000).

Range Extent

D = 1,000-5,000 km 2 (about 400-2,000 square miles)

Comments Puget Trough, south through th

Puget Trough, south through the western Cascade Range of Washington. It is also suspected to occur on the east slope of the Cascade Range (Kelley et al., 1999). Extends from the Willamette River Valley, Oregon, to Olympia, Washington; also Thurston and King Counties, Washington

(Frest and Johannes, 2000).

Area of Occupancy

C = 4-20 km 2 (about 1,000-5,000 acres)

D = 20-100 km 2 (about 5,000-25,000 acres)

LC = 40-200 km (about 25-125 miles)

LD = 200-1,000 km (about 125-620 miles)

Comments Recent live sites are in Jefferson, Lewis, Skamania, and King counties, Washington (Frest and

Johannes, 2000).

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

U = Unknown. Long-term trend in population, range, area occupied, or number or condition of occurrences unknown

Comments

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

D = Declining. Decline of 10-30% in population, range, area occupied, and/or number or condition of occurrences

Comments

Not found recently by Branson (1977; 1980). Most previously recorded sites are now in urban areas. Declining over most of its wide range, except southwestern Oregon (Frest and Johannes, 2000).

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 Moderate

Comments

Logging and agricultural expansion occurs in almost all known range; grazing and urbanization have extirpated most historic sites (Frest and Johannes, 2000).

Number of Appropriately Protected and Managed Occurrences

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

Comments

Intrinsic Vulnerability

A = Highly Vulnerable. Species is slow to mature, reproduces infrequently, and/or has low fecundity such that populations are very slow (> 20 years or 5 generations) to recover from decreases in abundance; or species has low dispersal capability such that extirpated populations are unlikely to become reestablished through natural recolonization (unaided by humans). Ecological community occurrences are highly susceptible to changes in composition and structure that rarely if ever are reversed through natural processes even over substantial time periods (> 100 years).

Comments Experienced massive habitat loss (Frest and Johannes, 2000).

Environmental Specificity

C = Moderate. Generalist or community with some key requirements scarce.

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

Comments

Found in a wide range of moist and mixed conifer forests. In open or dry areas, it is usually located in sites with relatively higher shade and moisture levels than those of the general forest habitat. It is typically found in moist plant communities, such as big-leaf maple and sword-fern. This slug is usually associated with leaf and needle litter, wood chips from decomposing logs, mosses, and is known to browse on mycorrhizal fungi species. Fecal analysis in spring of 1998 showed fungal hyphal fragments and structures associated with mycorrhizal fungi root attachment. Spores of hypogeous fungi were also found (Kellev et al., 1999).

Other Considerations

Recent DNA work by Wilke and Davis (2000) suggests the possibility of a morphometric radiation of this species; though it is likely this species may represent several subspecific taxa in southwestern Oregon (Frest and Johannes, 2000).

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Greasons

BCD Sources

New Sources

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