

Heritage Ranking Form - Global Rank

Scientific Name: Juga sp. 1

Common Name: Basalt juga (snail)

Classification: Invertebrate Animal

Range Extent: BC = 100-1000 sq km (~40-400 sq miles)

Comments: Restricted to Columbia River Gorge

Area of Occupancy: D = 6-25 4-km² grid cells

Comments: Documented at 28 sites rangewide. Each site is very small.

Number of Occurrences: C = 21 - 80

Comments: 28 documented sites.

Population Size: BD = 50 - 2500 individuals

Comments: Guess based on number of known sites and number of individuals typically found.

Good Viability: B = Very few (1-3) occurrences with excellent or good viability or ecological integrity

Comments: All sites are very small.

Environmental Specificity: A = Very narrow. Specialist or community with key requirements scarce

Comments: Restricted to low elevation, pristine, cold springs in tributaries to Columbia River.

Short Term Trends: U = Unknown

Comments: None

Long Term Trends: CE = Decline of 30 - 80%

Comments: This is a guess, based on Duncan 2005. Sites lost to Columbia River dams, road and railroad construction.

Threat Impact: B = High

Comments: Threatened by water diversion, water pollution, elevated water temperature, increased sedimentation. Historically, logging and road/railroad building were threats, not clear if this is still a

Intrinsic Vulnerability: BC = Moderately vulnerable to not intrinsically vulnerable

Comments: None

Heritage Rank: G2

Comments: Restricted range, Narrow habitat requirements, few known populations. Has been destroyed at some former sites.

Rank Notes: None

Reference or Notes: Duncan, N. 2005. Conservation Assessment for Mollusk species associated with springs and spring runs: *Fluminicola* new species 2, 3, 11, *Vorticifex klamathensis sinitsini*, *Jufa* (*Oreobasis*) new species 2, and *Lyogyrus* new species 1. USDA Forest Service Region 6 and USDI Bureau of Land Management, Oregon and Washington. Frest, T.J. and E.J. Johannes. 1999. Field guide to survey and manage freshwater mollusk species. USDI Bureau of Land Management, US Fish and Wildlife Service, USDA Forest Service.

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