

Heritage Ranking Form - Global Rank

Scientific Name: Lomatium erythrocarpum

Common Name: Red-fruited Lomatium

Classification: Vascular Plant

Range Extent: A = <100 sq km (< ~40 sq mi)

Elkhorn Range, Baker-Union-Grant Cos., Oregon, U.S.A. 7 km² calculated with convex hull.

Population Size: E = 2,500 - 10,000 individuals

Comments: 6325 estimated in 2000s, counts fluctuate depending on timing of surveys and winter snow pack but probably not more than several thousand plants.

Number of

Occurrences: A = 1 - 5

Comments: Known only from a few sites. 5 EOs using 1 km separation distance.

Area of Occupancy: C = 3-5 4-km² grid cells

Comments: 5 4 km² grid cells occupied.

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

Comments: 2 EOs with good viability.

Environmental

Specificity: Not Evaluated

Comments: None

Short Term Trends: G = Relatively Stable (<=10% change)

Comments: Most sites are stable or increasing.

Long Term Trends: U = Unknown

Comments: None

Threat Impact: B = High

Comments: Hikers, trail maintenance crews, mountain goats, though these have so far had minimal impact on populations. Climate change may be the greatest threat leading to loss of alpine habitat.

Intrinsic Vulnerability: B = Moderately vulnerable

Comments: None

Heritage Rank: G1G2

Comments: Endemic to a small, high elevation area of the Blue Mountains of eastern Oregon. While only a few populations are known, they appear to be stable with an estimated total population of about 6000 plants. Although there are some documented impacts from mountain goats, a non-native species introduced to the area in the 1980s, plant populations remain stable. Climate change is a major threat to this high-elevation species. Monitoring should continue to keep tabs on these threats.

Rank Notes: Calculator Rank (unrevised)=G2. Changed to G1G2 due to the potential impacts of climate change. Calculated rank fluctuates depending on threat score (very high = G1).

Reference: Yates, G. 2006. Lomatium erythrocarpum monitoring. Wallowa-Whitman National Forest. Yates, G. 2005. Final report, Lomatium erythrocarpum survey. Wallowa-Whitman National Forest. US Forest Service. 2012. Natural Resources Information System (NRIS) database, Lomatium erythrocarpum observations. Region 6, USFS.

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Rank Author:

Oregon Biodiversity Information Center
Institute for Natural Resources
Portland State University
Mail Stop: INR, PO Box 751
Portland, OR 97207-0751
503-725-9950
www.orbic.pdx.edu