

# Heritage Ranking Form - State Rank

**Scientific Name:** Mirabilis macfarlanei

**Common Name:** Macfarlane's four-o'clock

**Classification:** Vascular Plant

**Range Extent:** B = 100-250 sq km (~40-100 sq mi)

Narrowly endemic to portions of the Snake, Salmon, and Imnaha River Canyons in Wallowa County in northeastern Oregon. 121 km<sup>2</sup> calculated by convex hull.

**Population Size:** DE = 1000 - 10,000 individuals

Comments: Approximately 3500 in counts in 1990s; no detailed numbers reported since then.

**Number of Occurrences:** A = 1 - 5

Comments: 4 EOs using 1 km separation distance.

**Area of Occupancy:** C = 3-5 4-km<sup>2</sup> grid cells

Comments: 4 4km<sup>2</sup> grid cells occupied.

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

Comments: One EO with good viability.

**Environmental Specificity:** B = Narrow. Specialist or community with key requirements common

Comments: Open river canyon slopes.

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

Comments: None

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

Comments: None

**Threat Impact:** 0

Comments: Grazing, fire, non-native species, road grading, weed spraying. Known sites have few direct threats but have the potential to be affected. Moderately vulnerable to climate change.

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

**Heritage Rank:** S1

Comments: In Oregon, there are only 4 occurrences with an estimated 3500 plants (as of the 1990s). Many potential threats, limited range.

Rank Notes: None

Reference: None

Rank Date: 1/29/2013

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