

# Heritage Ranking Form - State Rank

**Scientific Name:** Castilleja levisecta

**Common Name:** Golden Paintbrush

**Classification:** Vascular Plant

**Range Extent:** Z = Zero (no occurrences believed extant; presumed extinct)

Historical range in Oregon about 600 sq. km calculated using convex hull for extirpated occurrences.

**Population Size:** Z = Zero, no individuals believed extant (presumed extinct)

Comments: Natural populations in Oregon are presumed extirpated. Population sizes of experimental garden plots are unknown.

**Number of Occurrences:** Z = 0 (zero; presumed extinct)

Comments: Four experimental garden populations in Oregon using 1km separation distance. All natural populations are extirpated. Fish and Wildlife Service (2007) states there are 11 extant populations in OR and WA, with only 2 of these stable.

**Area of Occupancy:** Z = Zero (no occurrences believed extant; presumed extinct)

Comments: Four 4km<sup>2</sup> grid cells occupied by experimental garden populations; no known natural populations exist in Oregon. 5 extirpated occurrences.

**Good Viability:** A = No occurrences with excellent or good (A or B) viability or ecological integrity

Comments: None

**Environmental Specificity:** Not Evaluated

Comments: None

**Short Term Trends:** 0

Comments: The taxon is apparently extirpated from Oregon and southwest Washington. Extant occurrences elsewhere face ongoing threats, including habitat disturbance or loss, herbivory, competition with non-native species, and impacts from recreation or other human use of sites.

**Long Term Trends:** 0

Comments: None

**Threat Impact:** AB = Very High - High

Comments: Conversion of habitat to agricultural or rural residence uses, mining of habitat for gravel, grazing (native animals and introduced rabbits), trampling, and invasion of habitat by native conifers and non-native shrub and grass species.

**Intrinsic Vulnerability:** B = Moderately vulnerable

Comments: Does not tolerate grazing. There is limited evidence of colonization following disturbance.

**Heritage Rank:** SX

Comments: Species has not been confirmed in Oregon since 1938. Only existing sites are experimental garden plots.

Rank Notes: None

Reference: US Fish and Wildlife Service. 2004. Reintroduction plan for Golden Paintbrush (*Castilleja levisecta*). Prepared by Washington Natural Heritage Program for USFWS Western Washington Office. 44 pp.  
US Fish and Wildlife Service. 2007. Golden paintbrush (*Castilleja levisecta*) 5-year review summary and evaluation. Western Washington Office, 39 pp.

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