

# Heritage Ranking Form - State Rank

**Scientific Name:** Bombus occidentalis

**Common Name:** Western bumblebee

**Classification:** Invertebrate Animal

**Range Extent:** U = Unknown

Comments: Formerly statewide. Significant declines in W OR. Unknown status in E OR. Current range in state unknown.

**Area of Occupancy:** EF = 26-500 4-km<sup>2</sup> grid cells

Comments: Difficult to assess. 75 4-km<sup>2</sup> grid cells currently known, but species is not well studied.

**Number of Occurrences:** AB = 1 - 20

Comments: 5 current EOs. May be more; species is not well studied.

**Population Size:** U = Unknown

Comments: None

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

Comments: Only 1 EO with 20+ individuals, and even at this site, B. occidentalis was rare.

**Environmental Specificity:** U = Unknown

Comments: None

**Short Term Trends:** AB = Decline of >80%

Comments: Robin Thorpe has documented major declines in SW OR since the 1990s. See Thorpe 2008 and Evans et al. 2008.

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

Comments: Species was believed widespread As recently as 1980's

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

Comments: Threats from introduced pathogens, habitat loss & degradation.

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

**Heritage Rank:** S1S2

Comments: Assigned range rank because of uncertainty about distribution and status of species in Oregon.

Rank Notes: None

Reference or Notes: Thorp, R. W. 2008. Franklin's Bumble Bee, *Bombus (Bombus) franklini* (Frison) (Hymenoptera: Apidae). Report on 2006-2007 Seasons (Submitted 10 March 2008).; Rao, S. and W. P. Stephen. 2007. *Bombus (Bombus) occidentalis* (Hymenoptera:Apiformes): in decline or recovery? *The Pan-Pacific Entomologist* 83: 360-362.; Evans, E., R. Thorp, S. Jepsen, S.H. Black. 2008. Status review of three formerly common species of bumble bee in the subgenus *Bombus*. Xerces Society. 63 pp.

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