

Heritage Ranking Form - State Rank

Scientific Name: *Bombus fervidus*
Common Name: Yellow Bumble Bee
Classification: Invertebrate Animal

Heritage Rank: **S4?**

Rank Date: 6/28/2016

Comments: This species has declined elsewhere in its range, but status in OR is unclear. There are 13, widely spread, recently documented populations in OR. Surveys are needed. Threats and trends are unknown.

Range Extent: G = 200,000-2,500,000 sq km (~80,000-1,000,000 sq mi)

Comments: Range extent based on Xerces records: 243,161 sq km

Population Size: Not assessed

Comments: None

Number of Occurrences: D = 81 - 300

Comments: Approximately 80 EOs when the 460 Xerces records are buffered to 5 km.

Area of Occupancy: H = 2,501-12,500 4-km² grid cells

Comments: Area of occupancy, based on Xerces records buffered to 5 km; 3665 4-km² grid cells.

Good Viability: CD = Few to some (4-40) occurrences with good viability

Comments: Unknown, but only 73 collections at 13 sites post-2000. Status of these populations is unknown. At least one site had many individuals collected (Xerces data).

Environmental Sensitivity: Not Evaluated

Comments: None

Short Term Trends: U = Unknown

Comments: IUCN reports an average decline of 30% in the US. Declines in OR are not clear. (Hatfield 2014, Colla 2012).

Long Term Trends: U = Unknown

Comments: In US, long-term, steady declines (Hatfield 2014, Colla 2012). Declines in OR are unknown.

Threat Impact: U = Unknown

Comments:

Threats not documented but likely include pesticides, habitat loss, parasites.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Rank Notes: Calculator Rank (unrevised)=S4. Although this widespread species has experienced substantial declines in many places, its status in OR is not clear. Surveys needed.

References: Hatfield, R., Jepsen, S., Thorp, R., Richardson, L., Colla, S. & Foltz Jordan, S. 2015. *Bombus fervidus*. The IUCN Red List of Threatened Species 2015: e.T21215132A21215225. <http://dx.doi.org/10.2305/IUCN.UK.2015-4.RLTS.T21215132A21215225.en>. Downloaded on 28 June 2016. Xerces Geodatabase| Colla, S.R., Gadallah, F., Richardson, L., Wagner, D. and Gall, L. 2012. Assessing the Conservation Status of North American bumble bees using museum records. *Biodiversity and Conservation* 21(14): 1379-1391.

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