

## Heritage Ranking Form - State Rank

**Scientific Name:** *Bombus morrisoni*  
**Common Name:** Morrisoni Bumble Bee  
**Classification:** Invertebrate Animal

**Heritage Rank:** **S1S2**

Rank Date: 6/28/2016

Comments: Substantial declines and no recent records for OR. Potential for significant threats. However, surveys need to be completed.

**Range Extent:** F = 20,000-200,000 sq km (~8,000-80,000 sq mi)

Comments: Range extent of known records, from Xerces, = 151,099 sq km.

**Population Size:** Not assessed

Comments: None

**Number of Occurrences:** B = 6 - 20

Comments: Based on Xerces information, there would be about 16 EOs. The most recent of these is from 1968.

**Area of Occupancy:** G = 501-2,500 4-km<sup>2</sup> grid cells

Comments: Area of extent of known records (from Xerces), buffered to 5km = 516 4-km<sup>2</sup> grid cells. However, there may be additional sites not recorded.

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

Comments: Historically wide distribution in OR, but no records in the state since 1968 (Xerces data, Hatfield 2014)

**Environmental Sensitivity:** Not Evaluated

Comments: None

**Short Term Trends:** CE = Decline of 30 - 80%

Comments: Average short-term decline of 57% (Hatfield et al. 2014) rangewise, but surveys needed in

**Long Term Trends:** U = Unknown

Comments: None

**Threat Impact:** U = Unknown

## Comments:

Threats not documented but may include pesticide use, competition with non-native species, pathogens introduced from managed bees, habitat loss.

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

Rank Notes: None

References: Xerces Geodatabase | Hatfield, R., Jepsen, S., Thorp, R., Richardson, L. & Colla, S. 2014. *Bombus morrisoni*. The IUCN Red List of Threatened Species 2014: e.T44937666A69004519.  
<http://dx.doi.org/10.2305/IUCN.UK.2014-3.RLTS.T44937666A69004519.en>. Downloaded on 28 June 2016. |

Rank Author: E Gaines

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