

Heritage Ranking Form - State Rank

Scientific Name: *Bombus caliginosus*
Common Name: Obscure Bumble Bee
Classification: Invertebrate Animal

Heritage Rank: **S3**

Rank Date: 6/28/2016

Comments: Substantial rangewide declines have been documented, but information on Oregon status is minimal. Collected recently at a few sites across the range in Oregon. More comprehensive surveys in Oregon are needed. Difficult to distinguish this bee from more common species (Hatfield et al. 2014).

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

Comments: Range extent of Xerces records: 80,366 sq km

Population Size: Not assessed

Comments: None

Number of Occurrences: C = 21 - 80

Comments: Approximately 52 EOs using a 5km buffer around known points. Most of these are prior to

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

Comments: 257 collections sites (Xerces data), buffered to 5km yielded 2,134 4-km² grid cells.

Good Viability: C = Few (4-12) occurrences with excellent or good viability or ecological integrity

Comments: Unknown, but only 8 sites with post-2000 records.

Environmental Sensitivity: Not Evaluated

Comments: None

Short Term Trends: U = Unknown

Comments: Hatfield et al. (2014) report average range wide declines of 64%, but information on declines in OR is unknown.

Long Term Trends: 0

Comments: None

Threat Impact: C = Medium

Comments:

Habitat loss to agricultural or urban development (McFrederick and LeBuhn 2006).

Intrinsic Vulnerability: Not Evaluated

Comments: None

Rank Notes: None

References: Hatfield, R., Jepsen, S., Thorp, R., Richardson, L. & Colla, S. 2014. *Bombus caliginosus*. The IUCN Red List of Threatened Species 2014: e.T44937726A69000748. <http://dx.doi.org/10.2305/IUCN.UK.2014-3.RLTS.T44937726A69000748.en>. Downloaded on 28 June 2016. | Xerces Geodatabase | McFrederick, Q. S., G. LeBuhn. 2006. Are urban parks refuges for bumble bees *Bombus* spp. (Hymenoptera: Apidae)? *Biological Conservation*, 129(3): 372-382 <http://dx.doi.org/10.1016/j.biocon.2005.11.004>.

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