Bombus occidentalis

- Present
- Presence Expected
- Historical

NatureServe Canada

Ecosystem-based Automated Range (EBAR)

Date Generated: April 4, 2024; Version: 1.0; Stage: Expert Reviewed (National); Scope: Canadian

Synonyms Used: Bombus occidentalis occidentalis

0 240 480 km

Map centre: 117.6707° W 54.0586° N

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EBAR is relatively coarse scale data and not intended for all applications and analysis. Please see full disclaimer in metadata.

Input Records - 1 Avis, pers. comm. (Arthropod Observations), 76 BC Non-sensitive Element Occurrences, 2 BC Survey Observations, 418 BISON, 69 Bumble Bee Watch, 2187 Bumble Bees of North America, 709 GBIF, 55 iDigBio, 523 iNaturalist.ca, 26 iNaturalist.ca (original coordinates for obscured records), 207 iNaturalist.org, 4 MT Ranges, 137 Royal British Columbia Museum, 6 SK Element Occurrences; Expert Reviews - Elisha Mueller, Lisa Neame, Dan Bachen, Leona Svancara, BC Experts, Joel Gibson, Syd Cannings, James Strange, 2 Anonymous

Ecosystem-based Automated Range (EBAR) Metadata

Species

National Scientific Name:	*Bombus occidentalis* Greene, 1858
Scientific Name Reference:	Williams, P.H. 2021. Not just cryptic, but a barcode bush: PTP re-analysis of global data for the bumblebee subgenus Bombus s. str. supports additional species (Apidae, genus Bombus). Journal of Natural History 55(5-6): 271-282.
National English Name:	Western Bumble Bee
National French Name:	Bourdon de l'Ouest; Bourdon de l'Ouest de la sous-espèce occidentalis
Element National ID:	916921
Element Global ID:	916920 (go to NatureServe Explorer)
Element Code:	IIHYM24252
Endemism Type:	N
Canadian COSEWIC Name:	Bombus occidentalis occidentalis
Canadian COSEWIC ID:	1267

Rank/Status

Global Rank:	G3 (reviewed April 08, 2018)
National Rank (Canada):	N3 (reviewed 2021)
Subnational Ranks (Canada):	AB=S2S3, BC=S4, SK=S2S3
National Rank (United States):	NNR
Subnational Ranks (United States):	AZ=S2?, CA=S1, CO=S3S4, ID=S3, MT=SNR, ND=SNR, NE=SNR, NM=SNR, NV=SNR, OR=S1S2, SD=SNR, UT=S1S2, WA=S2S3, WY=S3
National Rank (Mexico):	None
Subnational Ranks (Mexico):	None
Canadian SARA Status:	Threatened/Menacée (December 08, 2023)
Canadian COSEWIC Status:	Threatened (May 02, 2014)
US ESA Status:	None

Range Map

Date Generated:	April 04, 2024
Version:	1.0
Stage:	Expert Reviewed (National)
Scope:	Canadian
Metadata:	Primary Species - *Bombus occidentalis* Greene, 1858; Synonyms - *Bombus occidentalis occidentalis* Greene, 1858 Input Records - 1 Avis, pers. comm. (Arthropod Observations), 76 BC Non-sensitive Element Occurrences, 2 BC Survey Observations, 418 BISON, 69 Bumble Bee Watch, 2187 Bumble Bees of North America, 709 GBIF, 55 iDigBio, 523 iNaturalist.ca, 26 iNaturalist.ca (original coordinates for obscured records), 207 iNaturalist.org, 4 MT Ranges, 137 Royal British Columbia Museum, 6 SK Element Occurrences; Expert Reviews - Elisha Mueller, Lisa Neame, Dan Bachen, Leona Svancara, BC Experts, Joel Gibson, Syd Cannings, James Strange, 2 Anonymous
Comments:	None Please see spatial data for Ecoshape-level reviewer comments.
Disclaimer:	Please review our methods document before using EBAR. EBAR range data are relatively coarse scale and appropriate for screening and education purposes, but are not intended for all types of applications and analysis. The absence of data in any geographic areas does not necessarily mean that a species is not present.

An ecoshape with a presence value does not necessarily mean that a species is present throughout the entire geographic area.

Presence Definitions: (Please see Comments above for any exceptions)

Present - the species is found within the ecoshape based on species observation data, Element Occurrences, Source Features, Canadian Federal Critical Habitat, or expert opinion.

Presence Expected - expert opinion the species may be present, or the ecoshape overlapped with a range estimate or a habitat suitability model.

Historical - all species occurrence data within the ecoshape contains observation data greater than 40 years old or an Element Occurrence (EO) that was ranked as Extirpated or Historical (EO Rank of H, H?, X or X?).

Usage Type Definitions: (Please see Comments above for any exceptions)

Breeding - the species is thought to breed within the ecoshape based on eBird Breeding and Behaviour Codes or expert opinion.

Possible Breeding - the species is probably or possibly breeding within the ecoshape based on eBird, BBA or jurisdiction Breeding and Behaviour Codes, or on expert opinion.

Map Projection: North America Albers Equal Area Conic (WKID 4269)

Credits

Suggested Citation: NatureServe Canada, 2020. Ecosystem-based Automated Range (EBAR) for Bombus occidentalis, Version 1.0, Expert Reviewed (National) (Canadian Scope). Ottawa, Canada. Retrieved from [insert url] on [insert date]

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Project Website: www.natureserve.org/canada/ebar

Contact: ebar-kba@natureserve.ca

Input References:

Avis, pers. comm. (Arthropod Observations) - Libby and Rick Avis, pers. comm. 2021; 2022
BC Non-sensitive Element Occurrences - British Columbia Conservation Data Centre
BC Survey Observations - British Columbia Conservation Data Centre
BISON - United States Geological Survey
Bumble Bee Watch - The Xerces Society, Wildlife Preservation Canada, York University, University of Ottawa, The Montreal Insectarium, The London Natural History Museum, BeeSpotter. 2020. Data accessed from Bumble Bee Watch, a collaborative website to track and conserve North America's bumble bees. Available from http://www.bumblebeewatch.org/app/#/bees/lists (accessed *11 February 2020*)
Bumble Bees of North America - Richardson, L. L. 2019. Bumble bees of North America occurrence records database. www.leifrichardson/bbna. Data accessed 11-21-2019.
GBIF - Global Biodiversity Information Facility
iDigBio - Integrated Digital Biocollection
iNaturalist.ca - California Academy of Sciences and the National Geographic Society
iNaturalist.ca (original coordinates for obscured records) - California Academy of Sciences and the National Geographic Society
iNaturalist.org - California Academy of Sciences and the National Geographic Society
MT Ranges - Montana Natural Heritage Program
Royal British Columbia Museum - RBCM (https://royalbcmuseum.bc.ca/)
SK Element Occurrences - Saskatchewan Conservation Data Centre

Reviewers by Taxa:

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