

Bombus affinis

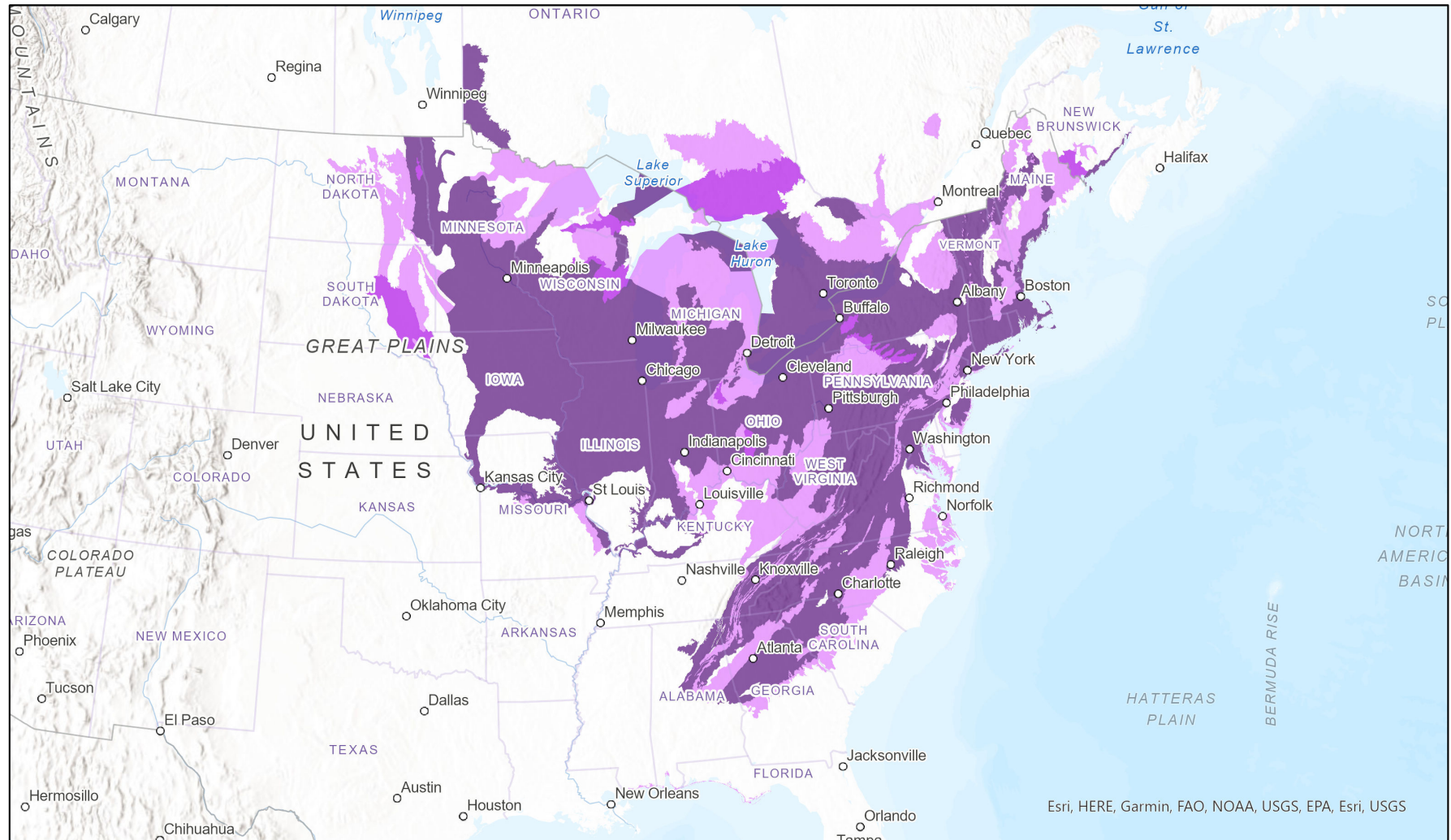


- Present
- Presence Expected
- Historical

Ecosystem-based Automated Range (EBAR)

Date Generated: July 3, 2020; Version: 1.0; Stage: Expert Reviewed; Scope: Global

Synonyms Used: None



Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, Esri, USGS

0 425 850 km

Input Records - 541 Bumble Bee Watch, 11139 Bumble Bees of North America, 5707 GBIF, 239 iDigBio, 239 iNaturalist, 92 ON Element Occurrences, 2 ON Observations, 1 PA Element Occurrences, 317 US Element Occurrences; Expert Reviews - 1 (average star rating = 4.0)

Map centre: 84.2007° W 40.4147° 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.

Ecosystem-based Automated Range (EBAR) Metadata

Species

National Scientific Name:	Bombus affinis
National English Name:	Rusty-patched Bumble Bee
National French Name:	Bourdon à tache rousse
Element National ID:	728947
Element Global ID:	108845 (go to NatureServe Explorer)
Element Code:	IIHYM24020
Endemism Type:	N

Rank/Status

Global Rank:	G2 (reviewed April 07, 2018)
National Rank (Canada):	N1 (reviewed 2017)
Subnational Ranks (Canada):	NB=SH, ON=S1, QC=SNR
National Rank (United States):	NNR
Subnational Ranks (United States):	CT=SH, DC=SNR, GA=SH, IL=S1, IN=S1, KY=SH, MA=SH, MD=SH, ME=SH, MI=SH, MN=SNR, NC=S1, ND=SH, NH=SH, NJ=SNR, NY=SH, OH=S1, PA=S1, RI=SNR, SC=SH, SD=SNR, TN=S1, VA=S1, VT=SH, WI=S1, WV=S1
National Rank (Mexico):	None
Subnational Ranks (Mexico):	None
Canadian SARA Status:	Endangered/En voie de disparition (June 20, 2012)
Canadian COSEWIC Status:	Endangered (April 25, 2010)
US ESA Status:	None

Range Map

Date Generated:	July 03, 2020
Version:	1.0
Stage:	Expert Reviewed
Scope:	Global
Metadata:	Primary Species Name - <i>Bombus affinis</i> (Williams et al., 2014) Input Records - 541 Bumble Bee Watch, 11139 Bumble Bees of North America, 5707 GBIF, 2018 iDigBio, 239 iNaturalist, 92 ON Element Occurrences, 2 ON Observations, 1 PA Element Occurrences, 317 US Element Occurrences; Expert Reviews - 1 (average star rating = 4.0)
Comments:	None
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:	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?).
Map Projection:	North America Albers Equal Area Conic (WKID 4269)

Credits

Suggested Citation:	NatureServe Canada, 2020. Ecosystem-based Automated Range (EBAR) for <i>Bombus affinis</i> , Version 1.0, Expert Reviewed (Global Scope). Ottawa, Canada. Retrieved from [insert url] on [insert date]
License:	Ecosystem-based Automated Range (EBAR) Project, Copyright NatureServe Canada 2020 under CC BY 4.0 (creativecommons.org/licenses/by/4.0/)
Project Website:	www.natureserve.org/natureserve-network/canada/biodiversity-data/ebar-range-mapping
Contact:	ebar-kba@natureserve.ca

Input References:

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*) (<http://www.bumblebeewatch.org/app/#/bees/lists>)

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. (www.leifrichardson.org/bbna)

GBIF - Global Biodiversity Information Facility (<https://www.gbif.org>)

iDigBio - Integrated Digital Biocollection (<https://www.idigbio.org/>)

iNaturalist - California Academy of Sciences and the National Geographic Society (<https://www.inaturalist.org/>)

ON Element Occurrences - Natural Heritage Information Centre, Ontario Ministry of Natural Resources and Forestry

ON Observations - Natural Heritage Information Centre, Ontario Ministry of Natural Resources and Forestry

PA Element Occurrences - Pennsylvania Natural Heritage Program

US Element Occurrences - NatureServe and its Natural Heritage Programs

Reviewers by Taxa:

Invertebrate Animal - Ants, Wasps, and Sawflies - James Glasier, David McCorquodale

Invertebrate Animal - Bee Flies - Joel Kits

Invertebrate Animal - Bumble Bees - COSEWIC, Rich Hatfield

Invertebrate Animal - Butterflies and Skippers - Taylor Davis, Mark Elderkin, Chris Friesen, Sylvain Giguere, Cary Hamel, Terrell Hyde, Jessica Petersen, Christian Schmidt, Stephanie Shepherd

Invertebrate Animal - Caddisflies - Andrew Rasmussen, Eleanor Gaines, Kyle Johnson

Invertebrate Animal - Dragonflies and Damselflies - Taylor Davis

Invertebrate Animal - Flower Flies or Hoverflies - Colin Jones, Jeff Skevington

Invertebrate Animal - Giant Silkworm and Royal Moths - Richard Westwood

Invertebrate Animal - Grasshoppers - Chris Bomar, David Cuthrell, Terrell Hyde, Dan Johnson, Colin Jones, James Miskelly, Randi Mulder

Invertebrate Animal - Mason Bees - Jeremy Siemers, Lusha Tronstad

Invertebrate Animal - Mayflies - Lukas Jacobus

Invertebrate Animal - Millipedes and Centipedes - Joel Gibson

Invertebrate Animal - Other Beetles - David Cuthrell, Colin Jones

Invertebrate Animal - Other Flies and Keds - Joel Gibson

Invertebrate Animal - Other Insects - Joel Gibson, Colin Jones, Joel Kits

Invertebrate Animal - Other Moths - Mike Burrell, Taylor Davis, Joel Gibson, Daniel Hipes, Kyle Johnson, Colin Jones, John Klymko, Randi Mulder, Gregory Pohl, Christian Schmidt, Sarah Semmler, Robert Somes, Lusha Tronstad, Richard Westwood

Invertebrate Animal - Papaipema Moths - Kyle Johnson, Gregory Pohl, Sarah Semmler

Invertebrate Animal - Robber Flies - Joel Gibson

Invertebrate Animal - Stoneflies - Suzanne Carrière, Boris Kondratieff

Invertebrate Animal - Terrestrial Snails - Annegret Nicolai

Invertebrate Animal - Tiger Beetles - John Acorn, Taylor Davis, David McCorquodale, Robert Somes

Invertebrate Animal - Tiger Moths - Randi Mulder, Christian Schmidt

Invertebrate Animal - Worms, Leeches, and other Annelids - Joel Gibson

Nonvascular Plant - Liverworts - Richard Caners, Suzanne Carrière, Justin Fulkerson,

Nonvascular Plant - Mosses - Bruce Bennett, Richard Caners, Suzanne Carrière, Sue Vrilakas

Vascular Plant - Adder's-tongues, Grapeferns, and Moonworts - Wasyl Bakowsky, Jacques Labrecque, Diana Sawatzky

Vascular Plant - Dicots - Wasyl Bakowsky, Ryan Batten, Bruce Bennett, Diana Bizecki Robson, Sean Blaney, Owen Boyle, Gwen Brewer, Malissa Briggler, Suzanne Carrière, Varina Crisfield, Taylor Davis, Kevin Doyle, Karro Frost, Craig Freeman, Justin Fulkerson, Joyce Gould, Jill Handwerk, Bonnie Heidel, Daniel Hipes, Jacques Labrecque, Eric Lamb, Kristi Lazar, Sarah Lee, Joe Lemeris, William Nichols, Nebraska Heritage Program, Michael J. Oldham, John Pearson, Jennifer Penny, Andrea Pipp, Michael Rudy, Diana Sawatzky, Alfred Schotz, Jason Singhurst, Benoît Tremblay, Sarah Vinge-Mazer, Virginia Natural Heritage Program, Sue Vrilakas, Brenda Wichmann, Theo Witsel, Steve Young

Vascular Plant - Leptosporangiate Ferns - Ryan Batten, Jacques Labrecque

Vascular Plant - Monocots - Derek Anderson, Wasyl Bakowsky, Ryan Batten, Diana Bizecki Robson, Owen Boyle, Suzanne Carrière, Varina Crisfield, Taylor Davis, Kevin Doyle, Bonnie Heidel, Justin Fulkerson, Andrea Pipp, Jacques Labrecque, Kristi Lazar, Joe Lemeris, Nebraska Heritage Program, William Nichols, Michael J. Oldham, John Pearson, Michael Rudy, Alfred Schotz, Benoît Tremblay, Sarah Vinge-Mazer, Sue Vrilakas, Virginia Natural Heritage Program, Brenda Wichmann, Steve Young

Vertebrate Animal - Mammals - Todd Atwood, Ian Abernethy, Dan Bachen, Pierre-André Bernier, Christina Davy, Jonah Evans, Jason Fisher, Graham Forbes, Chuck Hayes, Casey Heimerl, Daniel Hipes, Chris Johnson, Cori Lausen, Randi Mulder, Nebraska Heritage Program, Cory Olson, Stephen Petersen, Jeremy Siemers, Virginia Natural Heritage Program, Ryan Wilson

Vertebrate Animal - Turtles - Ian Abernethy, Dan Bachen, Amanda Bennett, Pierre-André Bernier, Gwen Brewer, Paul Crump, Taylor Davis, Christina Davy, Paul Frese, Eleanor Gaines, Sylvain Giguere, Carol Hall, Casey Heimerl, Daniel Hipes, Michael Jones, Joe Lemeris, Dustin Lynch, Joshua Megyesy, Nebraska Heritage Program, Nathan Shepard, Jeremy Siemers, Travis Taggart, Virginia Natural Heritage Program, Brian Zarate