

Alaska Natural Heritage Program

Conservation Status Report

Bombus centralis Cresson, 1864

Common Name: Central Bumble Bee

ELCODE: IIHYM24100	Taxonomic Serial No.: 714793
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Synonyms: Pyrobombus centralis Cresson, 1864

Taxonomy Notes:

Report last updated – June 8, 2017

Conservation Status

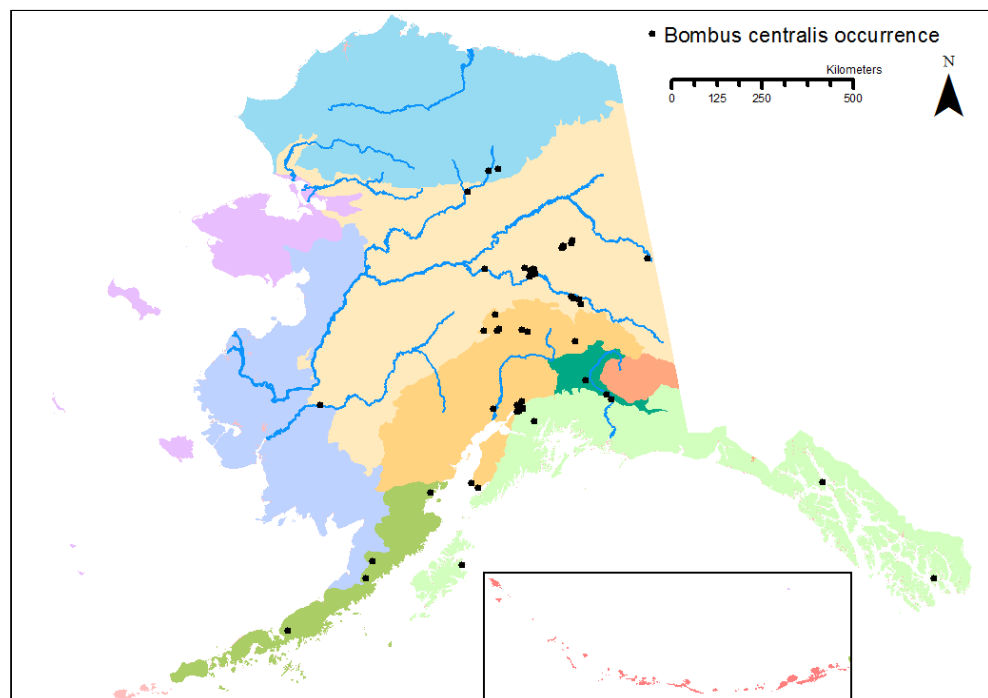
G4G5 S4	ASRS: not yet ranked
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Occurrences, Range

Number of Occurrences: 58; number of museum records: 3,247 (U.C. Riverside, University of Alaska Museum Insect Collection,)

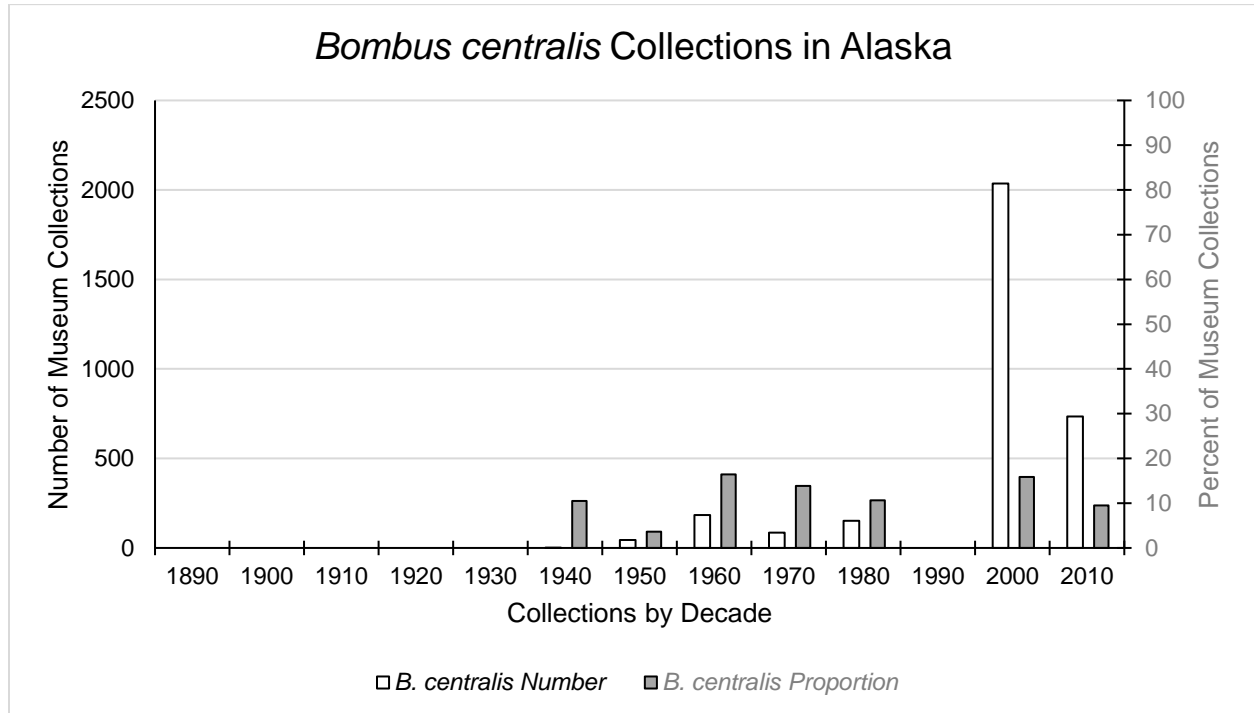
AK Range Extent: 1,125,249 sq km; 4-km² grid cells: 61; Brooks Range south to Interior and Alaska Range Transition to the Kenai Peninsula and Copper River Basin. Occasional occurrence in YK Delta and the Coastal Rainforests.

North American Distribution:
 Common west of the Rocky Mountains to Sierra Mountains, south to Mexico, north to the Great Basin and Pacific Northwest and southern British Columbia. Scattered north to Alaska.



Trends

Trends are based on museum voucher collections of all *Bombus* species. Short-term trends are focus the past two decades (2000's and 2010s), whereas long-term trends are based on all years. Data originate from museum voucher collections only and are summarized by decade. White bars indicate the number of voucher collections for the species. Grey bars indicate the percent of *Bombus centralis* to all *Bombus* species.



Short-term: Appears stable (<10% change) in the last two decades.

Long-term: Appears stable (<10% change) since collections of the 1940s.

Threats

Scope and Severity: unknown

Comments:

Intrinsic Vulnerability: Not intrinsically vulnerable. Found widespread in Alaska and associated with multiple floral resources.

Ecology

Habitat: meadows, grassy areas, boreal forest

Known Alaskan Floral Resources: *Hedysarum alpinum*

Nesting behavior: Underground.

Parasitism: Unknown

Ecological Integrity of Occurrences: Current and future Landscape Condition Models have occurrences intact with high ecological integrity.

Literature

GBIF.org (7th April 2017) GBIF Occurrence Download <http://doi.org/10.15468/dl.nvc9vf>

idigbio.org. (2017), 43395 records, accessed on 2017-03-01T21:39:42.991495, contributed by 10 Recordsets, Recordset identifiers:

<http://www.idigbio.org/portal/recordsets/a6eee223-cf3b-4079-8bb2-b77dad8cae9d> (43165 records); <http://www.idigbio.org/portal/recordsets/271a9ce9-c6d3-4b63-a722-cb0adc48863f> (56 records); <http://www.idigbio.org/portal/recordsets/4f436daa-01d5-4be6-b5c3-fdd255677536> (51 records); <http://www.idigbio.org/portal/recordsets/ea5f19e-ff6f-4d09-8b55-4a6810e77a6c> (37 records); <http://www.idigbio.org/portal/recordsets/5e893602-84ca-4c8c-bac1-99111c777582> (27 records); <http://www.idigbio.org/portal/recordsets/da67ebd9-52de-444d-b114-e23c03111ac6> (27 records); <http://www.idigbio.org/portal/recordsets/69037495-438d-4dba-bf0f-4878073766f1> (12 records); <http://www.idigbio.org/portal/recordsets/6539877e-82dc-485c-ad3d-038f383d5431> (9 records); <http://www.idigbio.org/portal/recordsets/db4bb0df-8539-4617-ab5f-eb118aa3126b> (6 records); <http://www.idigbio.org/portal/recordsets/fc628e53-5fdf-4436-9782-bf637d812b48> (5 records)

Koch JB, Cordes N, Solter LF, Griswold TL, Ikerd HW, Cameron SA, Lozier JD, Strange JP, Stewart I (2015): US *Bombus*, contemporary survey data of North American bumble bees (Hymenoptera, Apidae, *Bombus*) distributed in the United States. v2.4. ZooKeys. Dataset/Occurrence. <http://ipt.pensoft.net/resource?r=usbombus&v=2.4>

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Williams, P. H., Thorp, R. W., Richardson, L. L., & Colla, S. R. (2014). *Bumble bees of North America: an identification guide*. Princeton University Press.

Woodard, H. (Feb. 28, 2017). Personal communication, email of collection data.

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