

Alaska Natural Heritage Program Conservation Status Report

Bombus melanopygus Nylander, 1848

Common Name: Black Tail Bumble Bee

ELCODE: IIHYM24150	Taxonomic Serial No.: 714820
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Synonyms: *Pyrobombus melanopygus* Nylander, 1848; *Bombus edwardsii* Cresson, 1878; *Bombus melanopyge* Nylander, 1848

Report last updated – November 10, 2020

Conservation Status

G5 S5

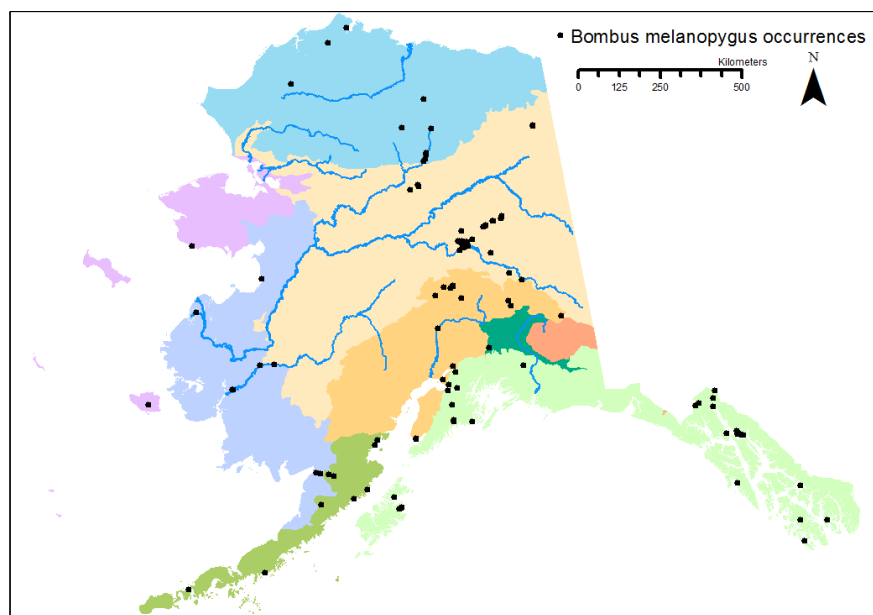
Occurrences, Range

Number of Occurrences: 108; number of museum records: 1478 (American Museum of Natural History, Ohio State University, Canadian National Collection, U.C. Riverside, Illinois Natural History Survey, University of Kansas, University of Alaska Museum Insect Collection, U.C. Davis, Koch et. al 2015, Yale Peabody Museum)

AK Range Extent: 1,452,372 km²; 4-km² grid cells: 112; Wide distribution in Alaska from the arctic coastal plains to Seward Peninsula and YK Delta to Alaska Peninsula, Interior and Coastal Rainforest.

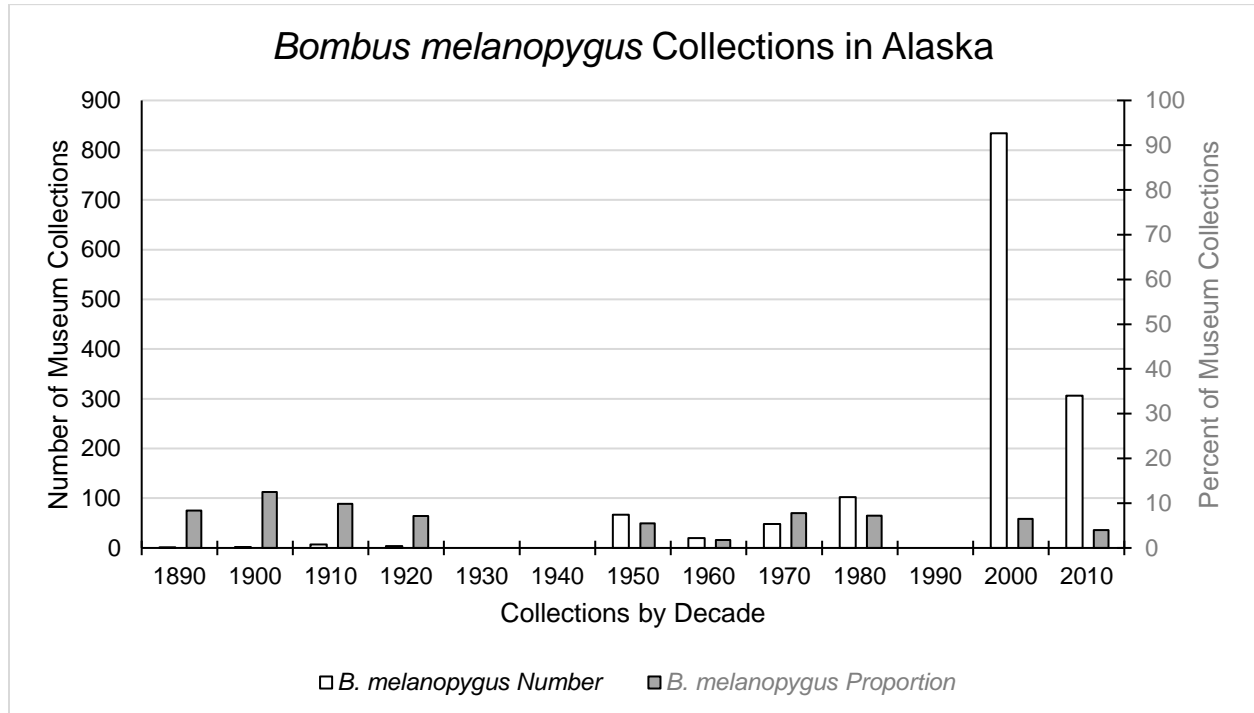
North American

Distribution: Wide range in Alaska and south to British Columbia and the Pacific Northwest and southern California. Found in the Great Basin and south to Arizona and eastward to Rocky Mountains. Rare in Alberta, Saskatchewan, Manitoba, Quebec, and Newfoundland



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 melanopygus* to all *Bombus* species.



Short-term: decline in collection number and proportion, however does not appear to be significant

Long-term: appears stable, relatively same proportion collected of all *Bombus* species since the late 1800s

Threats

Scope and Severity: Unknown.

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

Ecology

Habitat: tundra and boreal forest, mountain meadows, urban areas, forested areas.

Known Alaskan Floral Resources: *Chamerion angustifolium*, *Chamerion latifolium*, *Epilobium parviflorum*, *Hedysarum alpinum*, *Hedysarum boreal* spp. *mackenzii*, *Melilotus albus**, *Pyrola* spp., *Trifolium repens**

*denotes non-native species

Nesting behavior: underground, also found in birdhouses, building insulation.

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>

Pampell, R., Sikes, D., Pantoja, A., Holloway, P., Knight, C., Ranft, R. 2015. Bumble Bees (Hymenoptera: Apidae: *Bombus* spp.) of interior Alaska: Species composition, distribution, seasonal biology, and parasites. *Biodiversity Data Journal* 3: e5085. doi: 10.3897/BDJ.3.e5085

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.

University of Alaska Museum Insect Collection. <http://dx.doi.org/doi:10.7299/X75D8S0H>. (Records Accessed 24th February 2017).