

Alaska Natural Heritage Program

Conservation Status Report

Bombus vagans Smith, 1854

Common Name: Half-black Bumble Bee

ELCODE: IIHYM24030	Taxonomic Serial No.: 714845
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Synonyms: *Pyrobombus vagans* Smith, 1854

Taxonomy Notes: Note that one of these 2 specimens from University of Alaska Museum Insect Collection was DNA barcoded and that suggested it had been initially misidentified. The DNA barcode data suggest that specimen is *B. flavifrons*. This leaves only a single historic (1958) specimen which may also be misidentified. This makes it likely that this species does not occur in Alaska.

Report last updated – June 12, 2017

Conservation Status

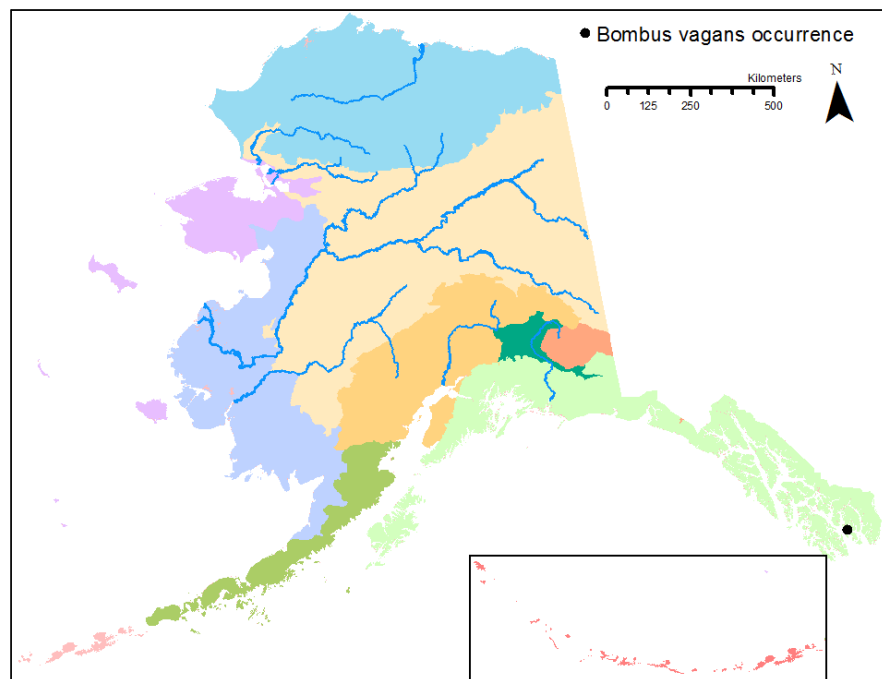
G5 S1	ASRS: not yet ranked
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Occurrences, Range

Number of Occurrences: 1; number of museum records: 1 (University of Alaska Museum Insect Collection).

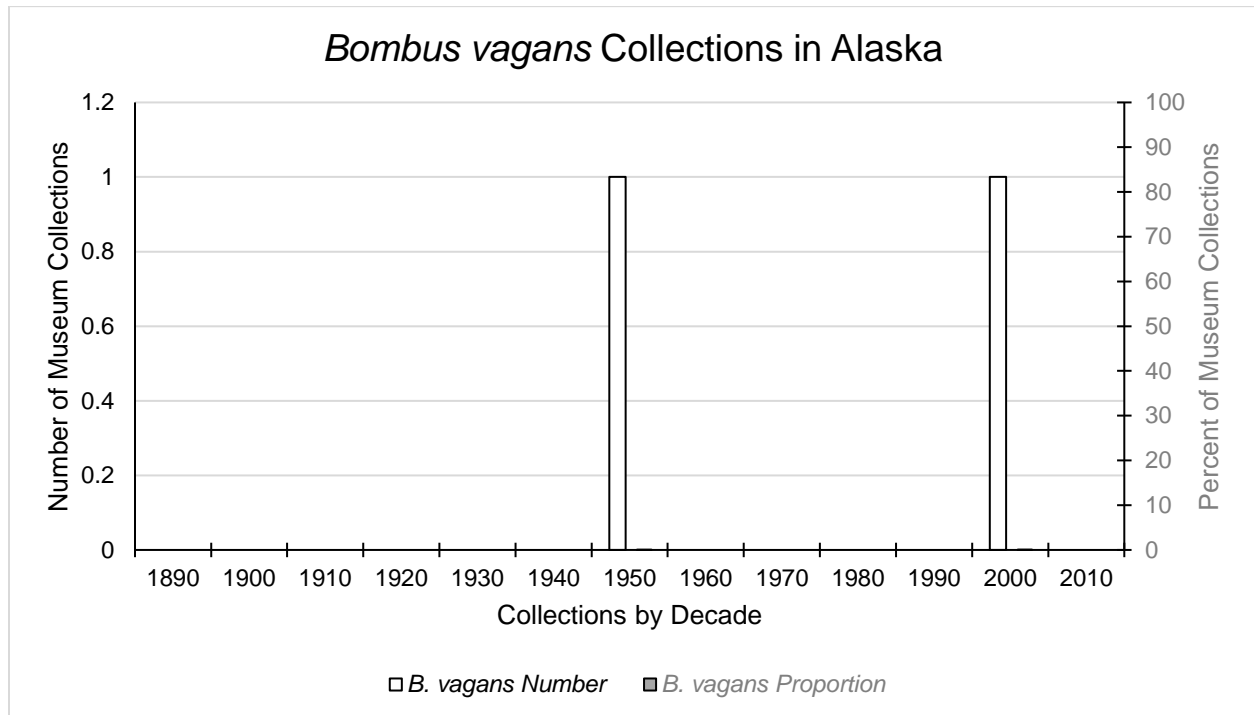
AK Range Extent: N/A (only 2 points 1780 km apart); 4-km² grid cells: 2; Alaska Peninsula and Ketchikan.

North American Distribution: Primarily eastern U.S. and Great Plains into Canadian Great Plains. Scattered occurrences into Alberta and British Columbia and Pacific Northwest.



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 vagans* to all *Bombus* species.



Short-term: Unknown, insufficient data.

Long-term: Unknown, insufficient data.

Threats

Scope and Severity: Unknown

Ecology

Habitat: forests, wetlands, urban areas

Known Alaskan Floral Associates: unknown

Nesting behavior: Usually underground but sometimes found above ground

Parasitism: Unknown species that occur in Alaska.

Literature

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.

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