

2024-  
- 2025



*Annual  
Report*



Photo by Jade Lee

*The BC Bee Atlas is a flagship  
project by the Native Bee Society  
of BC*

# What is the BC Bee Atlas?

The BC Bee Atlas is a community science initiative of the Native Bee Society of BC to document the diversity, distribution and floral partners of BC's 500+ bee species. It is run in partnership with the Oregon State University Extension Service Master Melittologist Program.

## Why do we need an Atlas?

BC's native bees and other crucial pollinators are facing unprecedented challenges from habitat loss, climate change, introduced species, and pesticide use. Supporting these pollinators requires knowledge of where and when they occur, how they nest, and what plant species they use for pollen and nectar.

## How does it work?

Our 75+ highly trained volunteers have boots-on-the-ground across the province collecting museum-quality bee specimens. The iNaturalist app is used to record forage-plant data. Specimens are identified by experts to genus and species and associated with their plant hosts. The information is made public so that conservation efforts can preserve these keystone species for future generations. Online education and data management are supported by the Oregon State University Extension Service Master Melittologist Program.



**Oregon State University**  
Extension Service  
Master Melittologist



Photo by Gwendolyn Williams

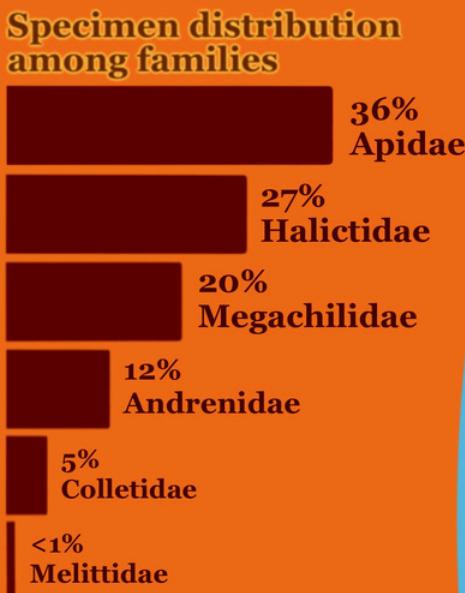
BC has the greatest bee diversity in all of Canada - 500+ species!

65% of BC's native bee species are data deficient

13% of ranked species are "vulnerable" or "imperiled"

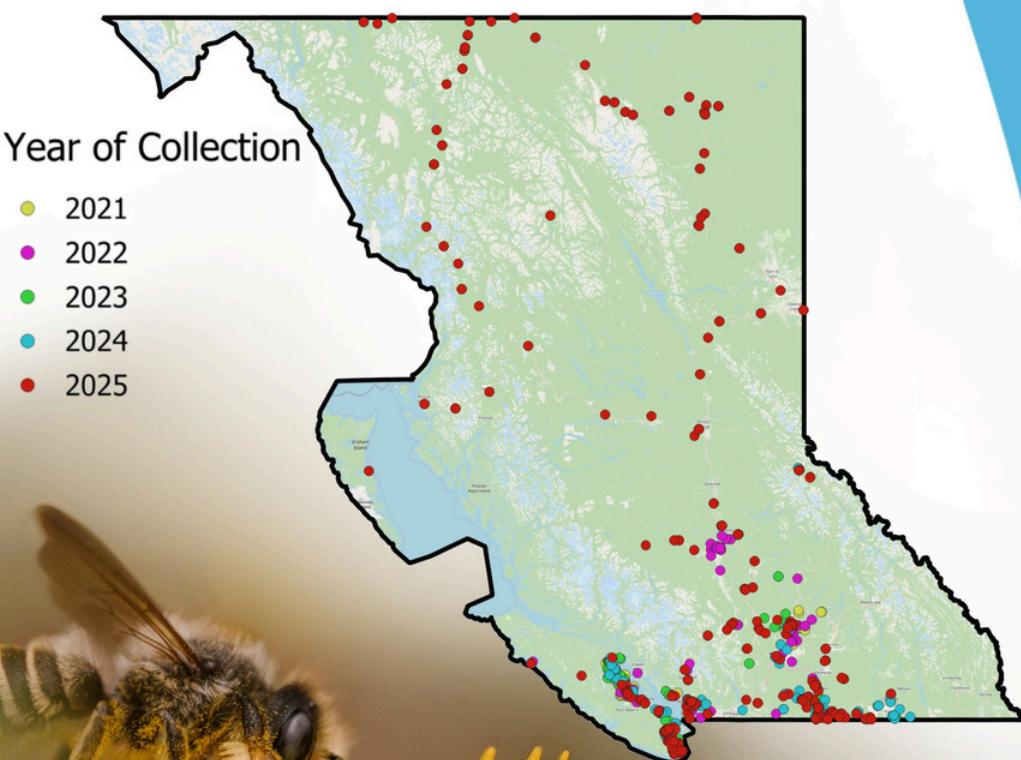


Photo by Jade Lee



## Data to Date:

2024 was our first official program year, bringing in 2467 specimens. With 80% of the 2024 specimens identified, the BC Bee Atlas has recorded 165 species - 33% of the known BC fauna! We are expecting 4000 - 5000 specimens from our 2025 collection efforts, including an increase in Northern species.



# BC Bee Atlas at a glance

4500+ specimens collected from 300+ plant species currently in our database



Records of 100% of BC bee families and 86% of BC bee genera!



75+ Melittologist students trained across the province

# Bee-Plant Network

Bees rely on flowering plants for pollen and nectar to feed themselves and their offspring, but not all flowers are the same to bees! Some specialist bees need specific flowers to provide appropriate nutrition to their offspring. Even generalist bees that can feed on many flowers have preferences. Our data on bee-plant relationships can inform restoration efforts to ensure that all bees have the food they need.



*Andrena astragali*, the death camas mining bee, uses only the pollen from this toxic plant to feed to her offspring



*Diadasia diminuta*, the globe mallow bee, collects pollen from streambank hollyhock



*Bombus vancouverensis*, the Vancouver bumble bee, was recorded on 32 different plants!

## Bee Genera

Macropis

Anthidiellum

Anthophora

Anthidium

Diadasia

Heriades

Epeolus

Coelioxys

Eucera

Triepelous

Melecta

Protandrena

Stelis

Ashmeadiella

Dianthidium

Megachile

Melisodes

Ceratina

Apis

Bombus

Agapostemon

Osmia

Halictus

Biastes

Colletes

Sphexcodes

Dufourea

Lasioglossum

Hoplitis

Hyaleus

Habropoda

Chelostoma

Nomada

Andrena

Perdita

Panurginus

## Plant Families

Primulaceae

Polemoniaceae

Dennstaedtiaceae

Lamiaceae

Cucurbitaceae

Orobanchaceae

Balsaminaceae

Plumbaginaceae

Verbenaceae

Acanthaceae

Fabaceae

Plantaginaceae

Malvaceae

Onagraceae

Cleomaceae

Amaryllidaceae

Geraniaceae

Papaveraceae

Crassulaceae

Campanulaceae

Convolvulaceae

Asteraceae

Liliaceae

Phrymaceae

Iridaceae

Asparagaceae

Montiaceae

Hypericaceae

Apocynaceae

Hydrophyllaceae

Boraginaceae

Caprifoliaceae

Ranunculaceae

Solanaceae

Anacardiaceae

Caryophyllaceae

Ericaceae

Apiaceae

Rhamnaceae

Grossulariaceae

Linaceae

Saxifragaceae

Polygonaceae

Sapindaceae

Hydrangeaceae

Poaceae

Rosaceae

Brassicaceae

Vibrinaceae

Berberidaceae

Salicaceae

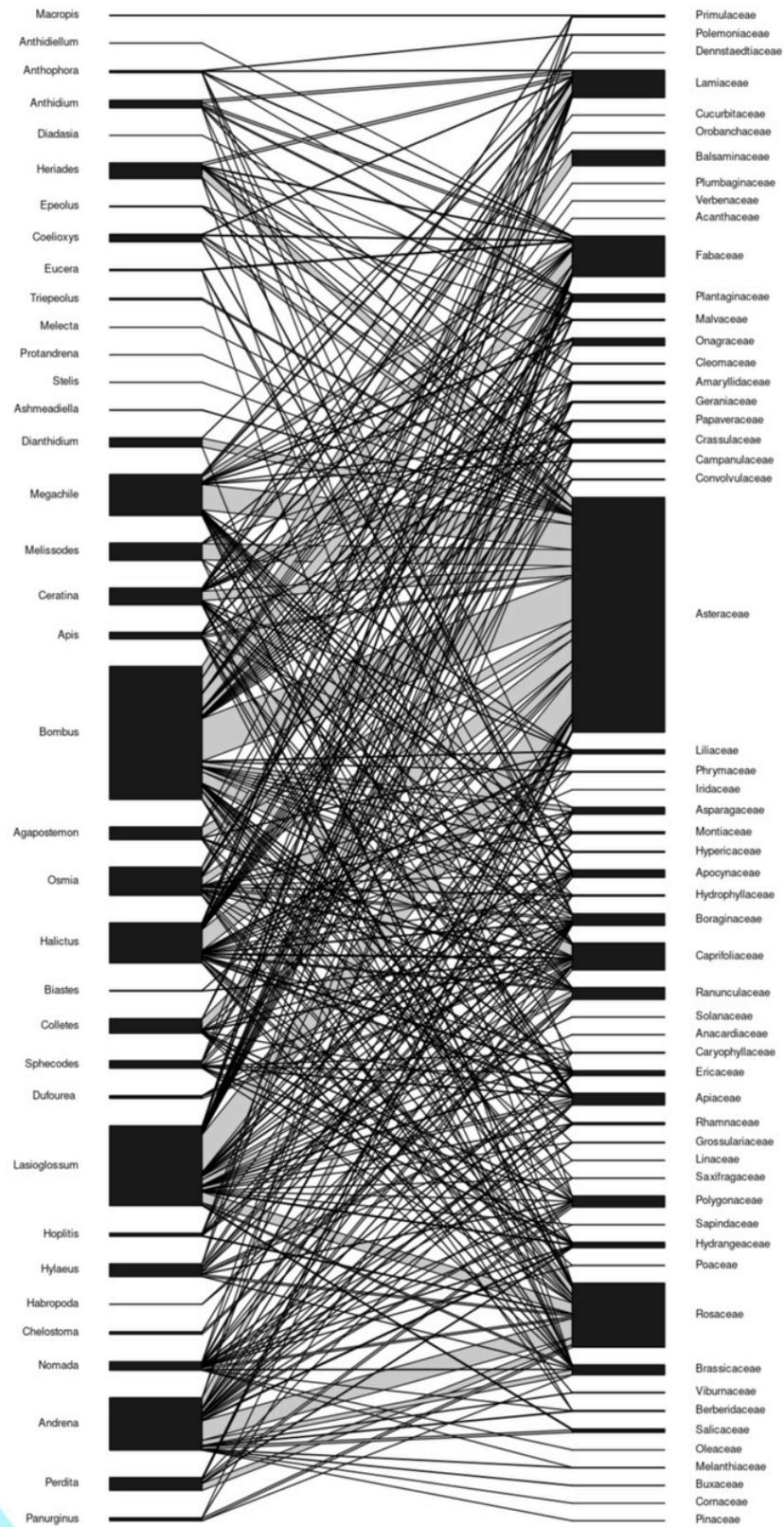
Oleaceae

Melanthiaceae

Buxaceae

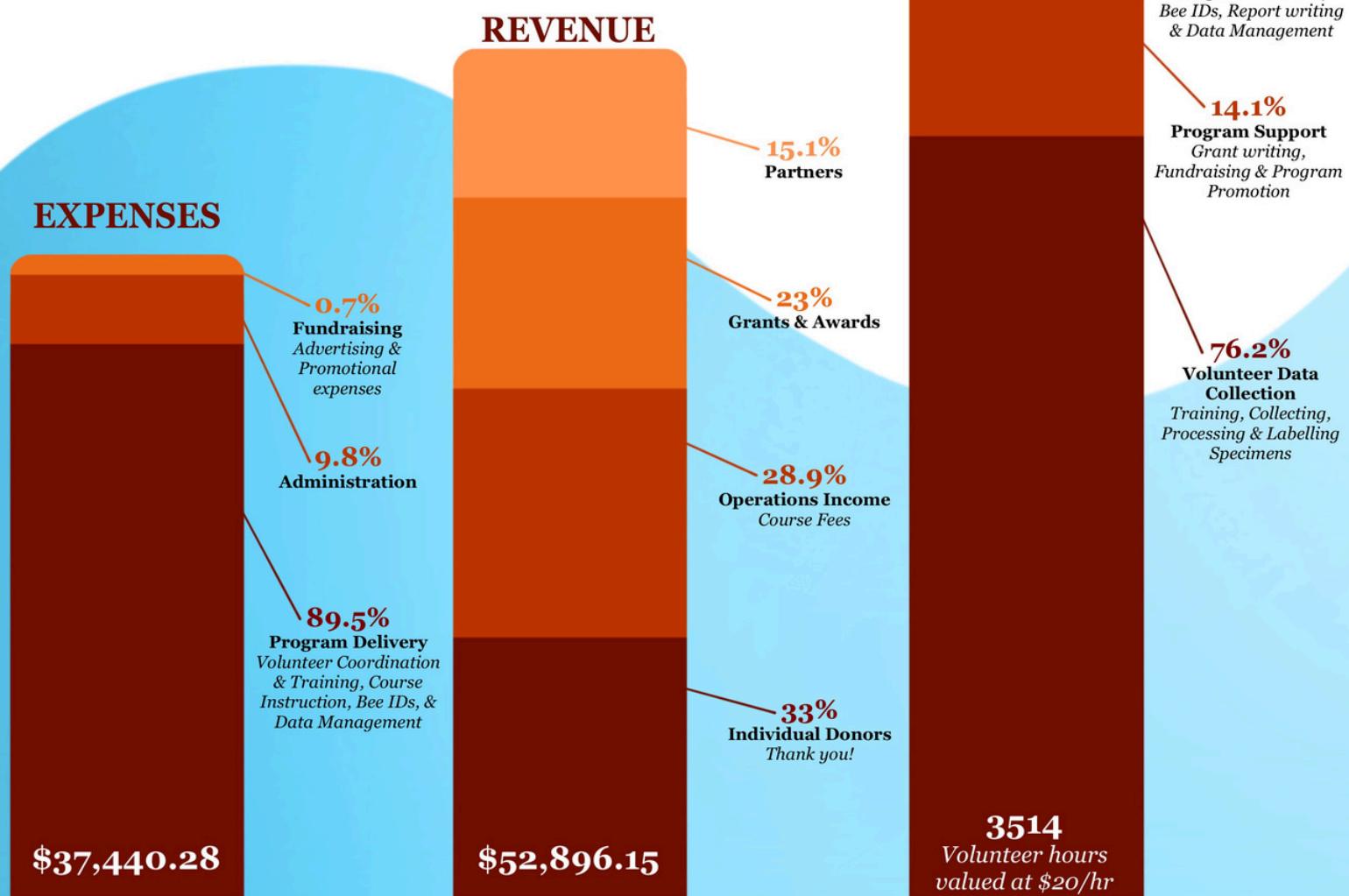
Cornaceae

Pinaceae



# 2024 - 2025 Financials

The 2024 - 2025 year was one of growth for our program. Our dedicated volunteer NBSBC grant writers and fundraisers were able to secure a BC Conservation and Biodiversity Award with our partner BC Nature. As well, a Habitat Conservation Trust Foundation Capacity Grant will come into effect in the 2025 - 2026 fiscal year. Along with individual donations, these funds allow for the contracting of a part-time Bee Atlas Lead to identify bees and coordinate the program. In addition, our Mini Bee Schools and BC Bee Course brought in sufficient revenue to cover costs, while also providing bursaries to students in need! The BC Bee Atlas continues to rely on the dedication of our volunteers for all our data collection, and the support of our community to keep the program growing.



\$2825 in course bursaries for indigenous and in-need participants



Over 3000 hours of volunteer time!

# Special Projects

*Our trained volunteers are busy contributing to native bee research and conservation!*



Photo by Lynda Stevens



Donor-supported work in the Kamloops areas resulted in a list of 34 species, including two species not previously recorded from BC, while other volunteers sought out rare specialists such as the oil collecting *Macropis nuda*.



In partnership with the City of North Vancouver, our data is being used to inform habitat management for pollinators in urban parks and boulevards. Over our 2024 collecting season, we increased the number of publicly available species records from the City of North Vancouver from 13 to 43!



Photo by Jakob Dullisse

A new species record for British Columbia! *Andrena sulcata* was collected on rabbitbrush in Kamloops.

In 2025, our volunteers continued to work with the City of North Vancouver, and also contributed to a bioblitz in Nanaimo. They completed surveys of bees in native plant seed fields on Vancouver Island, agricultural collections in Langley, and collections in northern and remote areas of BC.



# Publicly Accessible Data

Our data is shared yearly to the Global Biodiversity Information Facility (GBIF), and live-managed on the Ecdysis portal. **Explore all our data:**

Global  
Biodiversity  
Information  
Facility

Ecdysis  
Portal

OSU Master  
Melittologist  
Program

## Volunteer with us!

Join the OSU Master Melittologist Program to contribute data (Link above)  
Learn more about the Native Bee Society of BC and our programs:  
[bcnativebees.org](http://bcnativebees.org)



## Proudly Partnered with



Oregon State University  
Extension Service  
Master Melittologist

The BC Bee Atlas is the flagship project of the Native Bee Society of BC. It empowers British Columbian scientists to produce biodiversity data and make amazing discoveries about the province's wild bees and diverse flora. Online education and data management are supported by the Oregon State University Extension Service Master Melittologist Program.

