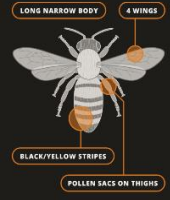

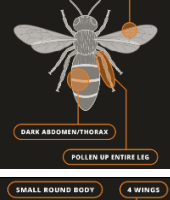
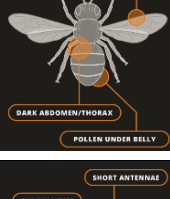
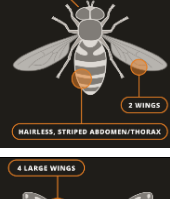



Yellowknife Community Science Pollinator Field Guide

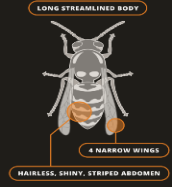
Protocol:

- 1) Find a patch of flowers and measure out a 1m by 1m observation site
- 2) Observe pollinators entering site for 5 minutes
- 3) Only record a pollinator visit when it has landed on a flower inside your observation site
- 4) Pollinators can be counted twice if they land on a flower in your observation site, leave, and then re-enter your site and land on a flower
- 5) Have fun watching pollinators!




Community Scientist:		
Pollinator Category	ID Info	Key Features
Honey Bee		<ul style="list-style-type: none"> • Long narrow body • 4 wings • Black/yellow stripes • Pollen sacs on thighs
Bumble Bee		<ul style="list-style-type: none"> • Round bulbous body • 4 wings • Fuzzy striped abdomen • Pollen sacs on thighs
Mining Bee/Sweat Bee		<ul style="list-style-type: none"> • Small narrow body • 4 wings • Dark abdomen/thorax • Pollen up entire leg
Leafcutter Bee		<ul style="list-style-type: none"> • Small round body • 4 wings • Dark abdomen/thorax • Pollen under belly
Hover Fly		<ul style="list-style-type: none"> • Short antennae • Bulging eyes • 2 wings • Hairless, striped abdomen/thorax
Butterfly/Moth		<ul style="list-style-type: none"> • 4 large wings • Colourful patterns and shapes

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<p>Wasp</p>		<ul style="list-style-type: none"> • Long streamlined body • 4 narrow wings • Hairless, shiny, striped abdomen
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Bumble Bees Found in Yellowknife

Pollinator	Photo ID	Key Features
<p>Confusing Bumble Bee <i>Bombus perplexus</i></p>	 <p>(c) Denis Doucet – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Queen: 18-20 mm • Worker: 11-14 mm • Male: 13-14 mm
<p>Frigid Bumble Bee <i>Bombus frigidus</i></p>	 <p>(c) C Graydon, some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Queen: 17-19 mm • Worker: 8-11 mm • Male: 10-15 mm
<p>Orange-Rumped Bumble Bee <i>Bombus melanopygus</i>²</p>	 <p>(c) protectedareas-temp, some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Queen: 16-19 mm • Worker: 10-16 mm • Male: 11-14 mm



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<p>Brown Tailed Bumble Bee <i>Bombus mixtus</i></p>	 <p>(c) Kris Ethington – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none">• Queen: 15-17 mm• Worker: 10-14 mm• Male: 11-14 mm
<p>Two Ranked Bumble Bee <i>Bombus bifarius</i></p>	 <p>(c) christian_nunes – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none">• Queen: 15-19 mm• Worker: 8-14 mm• Male: 8-13 mm
<p>Northern Bumble Bee <i>Bombus polaris</i></p>	 <p>(c) ColinDJones – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none">• Queen: 18-22 mm• Worker: 10-16 mm• Male: 14-16 mm
<p>Yellow-Faced Bumble Bee <i>Bombus flavifrons</i></p>	 <p>(c) Don Sutherland – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none">• Queen: 16-18 mm• Worker: 10-13 mm• Male: 10-14 mm


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<p>White-Tailed Bumble Bee <i>Bombus cryptarum</i></p>	 <p>(c) sydcannings – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none">• Queen: 19-21 mm• Worker: 13-17 mm• Male: 14-17 mm
<p>Heath Bumble Bee <i>Bombus jonellus</i></p>	 <p>(c) sydcannings – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none">• Queen: 16 mm• Worker: 10-11 mm• Male: 10-12 mm
<p>Yellow-Banded Bumble Bee <i>Bombus terricola</i></p>	 <p>(c) Denis Doucet – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none">• Queen: 19-21 mm• Worker: 10-15 mm• Male: 13-15 mm




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<p>Gypsy Cuckoo Bumble Bee <i>Bombus bohemicus</i></p>	 <p>(c) sydcannings – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Queen: 17-19 mm • Male: 11-17 mm
<p>Indiscriminate Bumble Bee <i>Bombus insularis</i></p>	 <p>(c) pumakit – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Queen: 16-20 mm • Male: 11-16 mm

Other Bees Found in Yellowknife



Pollinator	Photo ID	Key Features
<p>Sweat Bee</p>	 <p>(c) johanna_s, some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Small narrow body • 4 wings • Dark abdomen/thorax • Pollen up entire leg

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<p>Mining Bee</p>	 <p>(c) Claire Moxon-Waltz – some rights reserved (CC BY)</p>	<ul style="list-style-type: none"> • Small narrow body • 4 wings • Dark abdomen/thorax • Pollen up entire leg • Tear drop shaped abdomen • Males have long hair on face that look like eyebrows
<p>Leafcutter Bee</p>	 <p>(c) Denis Doucet – some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Small round body • 4 wings • Dark abdomen/thorax • Pollen under belly • Large jaws
<p>Masked Bee</p>	 <p>(c) C Graydon, some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Slender all black bee • Males have white pattern or “mask” on face • Relatively hairless

<p>Honey Bee</p>	 <p>(c) C Graydon, some rights reserved (CC BY-NC)</p>	<ul style="list-style-type: none"> • Long narrow body • 4 wings • Black/yellow stripes • Pollen sacs on thighs
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Other Pollinators Found in Yellowknife

Pollinator	Photo ID	Key Features
<p>Butterflies</p>	 <p>no rights reserved (CC0)</p>	<ul style="list-style-type: none"> • 4 large wings • Colourful patterns and shapes • Antenna have a bulb at the end
<p>Moths</p>	 <p>(c) Dick – some rights reserved (CC BY-NC-SA)</p>	<ul style="list-style-type: none"> • can be colourful or cryptic • can look similar to butterflies but have feathered or hooked antennae

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Hover Fly



(c) wylde wastelander – some rights reserved (CC BY-NC)

- Short antennae
- Bulging eyes
- 2 wings
- Hairless, striped abdomen/thorax

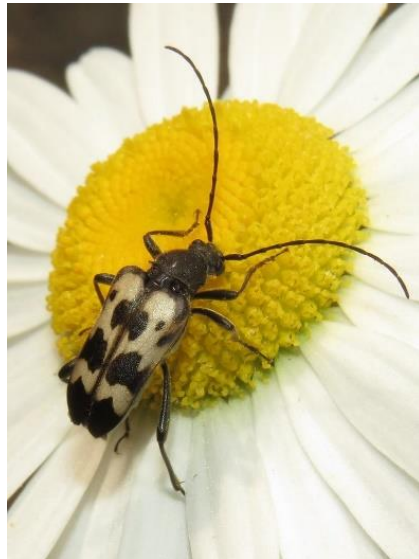
Bee Fly



(c) Brett Hillman – some rights reserved (CC BY-NC)

- Short antennae
- Bulging eyes
- 2 wings
- Hairy and similar to a bumble bee, striped abdomen/thorax

Beetle



(c) Stuart Tingley – some rights reserved (CC BY-NC)

- Wings tucked into harder outer shell

**POLLINATOR
PARTNERSHIP**
C A N A D A

Wasp



(c) Matt Muir – some rights reserved (CC BY-SA)

- Long streamlined body
- 4 narrow wings
- Hairless, shiny, striped abdomen