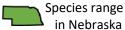
Nebraska Bumble Bee Identification Guide (Females)

This guide separates bees into three sections based on the color of the first tergite: (1) T1 is yellow, (2) T1 is yellow AND the body has orange coloration, or (3) T1 is black. See reverse side for an ID checklist.

Key (See reverse side for descriptions)

 \mathbf{C} Common \mathbf{T} = Tergite



* Males very similar

to B. fervidus, see

Look-alikes on

reverse side.

SGCN Species of Greatest Conservation Need

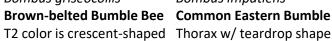
Bombus pensylvanicus

American Bumble Bee

If first abdominal segment is yellow:



Bombus griseocollis

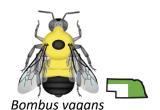




Bombus bimaculatus **Two-spotted Bumble Bee** Yellow "W" shape on T2



Bombus impatiens **Common Eastern Bumble Bee**

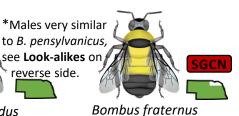


Half Black Bumble Bee Spot on thorax is black/yellow

Southern Plains Bumble Bee

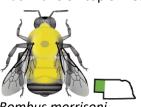
T1/T2 hairs appressed/lay flat

White/pale hairs on shoulders



Bombus appositus

Bombus fervidus **Yellow Bumble Bee** Black hairs on top of head



Bombus morrisoni Morrison's Bumble Bee All yellow thorax

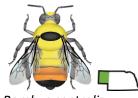


I Bombus huntii **Hunt's Bumble Bee** T1+T4 orange, T2-3 yellow

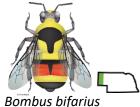
With orange coloration:



Bombus rufocinctus **Red-belted Bumble Bee** Color extremely variable

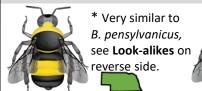


Bombus centralis I Central Bumble Bee T1-2 yellow, T3 orange



White-shouldered Bumble Bee I Two Form Bumble Bee Hair short and even

If first abdominal segment is black:

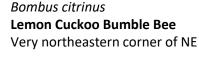


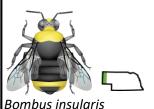
Bombus auricomus **Black and Gold Bumble Bee**

Yellow hairs on top of head



Bombus nevadensis **Nevada Bumble Bee** Large; Mainly central/west NE

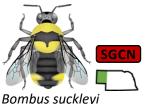




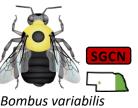
Indiscriminate Cuckoo Bumble Bee Montane species; Uncommon here



Bombus occidentalis **Western Bumble Bee** T6 white



Suckley's Cuckoo Bumble Bee Uncommon in NE



Variable Cuckoo Bumble Bee Very short hair; Uncommon

Steps for Identifying a Bumble Bee:

- 1. After determining you have a bumble bee (not a carpenter bee, wasp or fly) check to see if it is a female or a male, and if it is a cuckoo bee.
 - Female: pollen basket on hind leg (shiny, hairless zone); 6 tergites
 - Male: No pollen basket on hind leg; 7 tergites; some with bulgy eyes
 - · Cuckoo: No pollen basket on hind leg, instead with dense, long hair

2. Examine the **hair color** on the following sections and record if it is black, yellow, mixed (black and yellow), orange, or white:

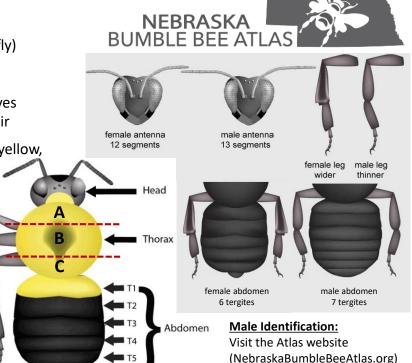
- Head:
 - ☐ Front of the face
 - ☐ Top of the head
- Thorax:
 - ☐ Front of (A), between (B), and behind (C) the wings
 - ☐ Side of thorax/under the wings
 - ☐ Is there a circle or stripe between the wings?
 - ☐ Is there a central black notch in the behind the wings?
- Abdomen:
 - ☐ What color is T1? T2? T3? ...T6?
 - Does the color cover the entire tergite or is it crescentshaped? Is there a gap of color in the middle or on the edges of one or more tergites?
- 3. Make sure your photos show the features in the above checklist.

Key Term Descriptions:

Common: A species that is common and abundant throughout its range.

<u>Tergite:</u> A tergite is an abdominal segment. Females have 6 tergites, males have 7. The tergite nearest the thorax is called Tergite 1 or "T1" and the terminal segment is called Tergite 6 or "T6." The hair color of each tergite helps determine the species ID.

<u>Species of Greatest Conservation Need (SGCN):</u> An SGCN is an evidence-supported rare or declining species that is in need of conservation. The Nebraska Game and Parks Commission prioritizes these species when planning conservation efforts.



Look-alikes!

for alternative guides.

 American vs Black-and-Gold Bumble Bee: American has black hairs on top of the head, Black-and-Gold has yellow. T1 of Black-and-Gold is all yellow, whereas American is often times ½ black and ½ yellow.

Photos need to include: Top of head and T1

American (Male) vs Yellow Bumble Bee (Male): American has mixed hair colors (yellow and black) behind the wings and on the sides of the thorax, Yellow bumble bee does not. Often, T7 of American will have orange coloration.

Photos need to include: Thorax and T6/T7

Bumble bee illustrations on front and back: Paul Williams (identification and color patterns); Elaine Evans, Rich Hatfield (bee body design)