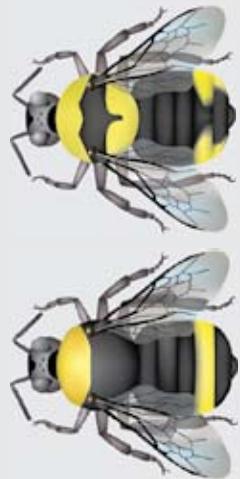


The look-a-like bees have yellow hair on the 4th abdominal segment, as opposed to *B. occidentalis* with black or white hair on the 4th abdominal segment.

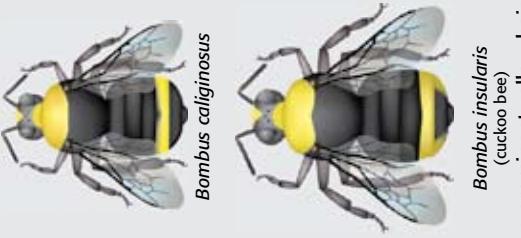


Bombus sukkleyi
(cuckoo bee)

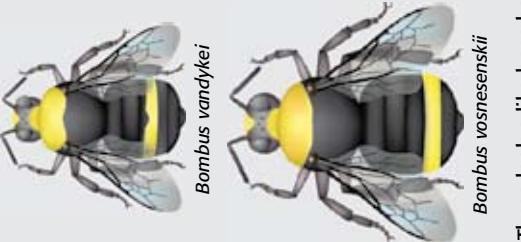


Bombus californicus

Similar female bees with yellow on the 4th abdominal segment



Bombus calligaster



Bombus vandykei



Bombus vosnesenskii



These look-a-like bees have prominent yellow hair on the face, as opposed to *B. occidentalis* with all black hair on the face.



Yellow-headed bee Black-headed bee

These three varieties of *B. occidentalis* represent the most commonly found color patterns. Some bees are intermediate between these varieties.

Similar female bees with yellow on the head



Central coastal California



Northern California to British Columbia, east to Montana



Rocky Mountains to Alaska

Historic range of *Bombus occidentalis*



Map based on Milliron 1971, *A Monograph of the Western Hemisphere Bumblebees*.

Other common bumble bees of western North America

There are around 30 bumble bee species present in western North America. Females of some of the most commonly found bees are pictured here. Some species pictured have varieties with different coloration.

For more identification information, visit www.discoverlife.org and www.bugguide.net

Found in coastal areas



Bombus melanopygus
(edwardsii)



Bombus bifarius
(nearcticus)

Found in the mountains and northern areas



Photo by Derrick Ditchburn
www.xerces.org/bumblebees

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If you find *Bombus occidentalis*, please contact bumblebees@xerces.org.
Visit www.xerces.org/bumblebees for more information.

Funding for bumble bee conservation provided by the CS Fund.
Guide developed and illustrated by Elaine Evans, The Xerces Society.
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Bombus morrisoni



Bombus mixtus



Bombus nevadensis



Bombus huntii



Bombus griseocollis



Bombus appositus



Bombus melanopygus



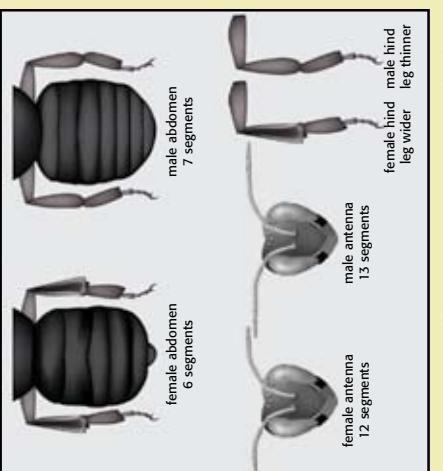
Bombus bifarius



POCKET GUIDE TO IDENTIFYING THE WESTERN BUMBLE BEE *BOMBUS OCCIDENTALIS*

Male or female?

Females have 6 abdominal segments versus 7 in males. Females have 12 antennal segments versus 13 in males. Female hind legs are wider than male hind legs.



Females are found through spring, summer and early fall. Workers and queens are both female. Males can be common in late summer and early fall. Females have pollen baskets (an indentation onto which they sometimes pack pollen) on their hind legs, and shorter antennae and abdominal pubescence. Males sometimes have larger eyes and longer antennae. Bumble bees pictured are described in this guide as all female bees.

Bombus griseocollis



Short-headed bee

Long-headed bee

Queen

B. vagans workers and *B. citrinus* males have yellow hair on the top of their heads. In addition, *B. vagans* have a longer face than do *B. affinis*.

Male

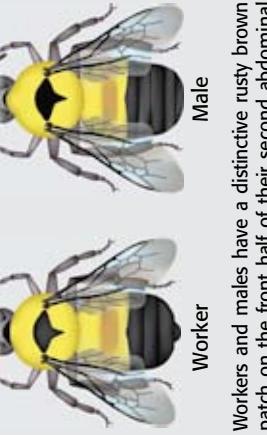
Bombus vagans worker
(cuckoo bee)



Similar bees without yellow at the rear of the second abdominal segment



Similar bees with yellow at the rear of the second abdominal segment



Identifying *Bombus affinis*

Historic range of *Bombus affinis*



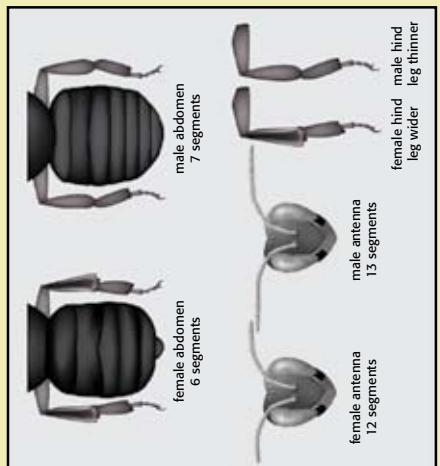
Map based on Milliron 1971, *A Monograph of the Western Hemisphere Bumblebees*.

The rusty patched bumble bee was once common in the eastern United States and the upper Midwest. They can still occasionally be found in isolated patches, but *B. affinis* has disappeared from most of its former range in recent years. Your efforts to search for this bee will help document their current range. The Xerces Society and scientists studying declining bumble bees will use this information to promote conservation of remaining *B. affinis* populations.

POCKET GUIDE TO IDENTIFYING
THE RUSTY PATCHED
BUMBLE BEE
BOMBUS AFFINIS

Male or female?

Females have 6 abdominal segments versus 7 in males. Females have 12 antennal segments versus 13 in males. Female hind legs are wider than male hind legs.

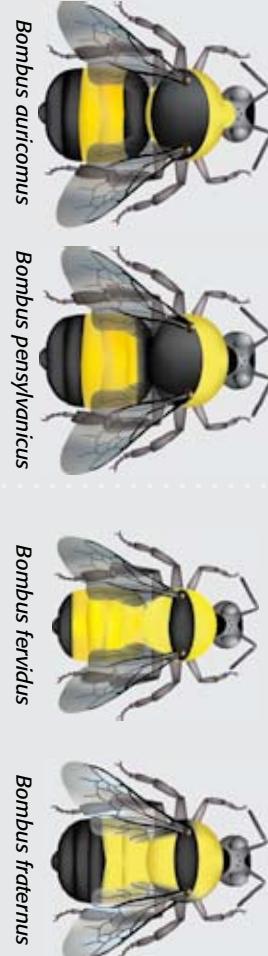


Females are found through spring, summer, and early fall. Males can be common in late summer and early fall. Females have pollen baskets (an indentation onto which they sometimes pack pollen) on their hind legs, and shorter antennae and longer hind legs. Males sometimes have larger antennae and shorter hind legs.

Other common bumblebees of eastern North America

There are around 20 bumble bee species present in eastern North America. Females of some of the most commonly found bees are pictured here. Some species pictured have varieties with different coloration.

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Bombus auricomus

Bombus pensylvanicus

Bombus fervidus

Bombus fraternus

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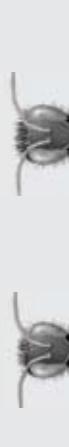
Females of *B. terricola* have a prominent patch of yellow hair on the front of their faces, while *B. pensylvanicus* have mostly black hair on the front of their faces. *B. auricomus* males have much larger eyes than *B. terricola* males.

B. auricomus *B. pensylvanicus*



Female *B. terricola* have short faces whereas *B. auricomus* and *B. pensylvanicus* have long faces.

B. terricola *B. pensylvanicus*



Females

Males

Male *B. terricola* have a prominent patch of yellow hair on the front of their faces while *B. pensylvanicus* have yellow hair along the rear of their thorax while *B. auricomus* males have black hair.

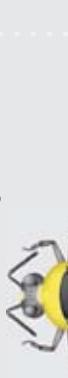
B. auricomus *B. pensylvanicus*



Males

Male coloration is similar to females, except for patches of long pale yellow hair on the top of their heads and the bottom of their faces.

B. auricomus Male



Male

Similar bumble bees



Females



Workers



Queens

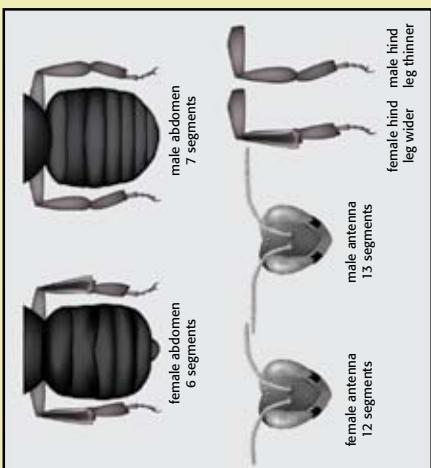
B. auricomus have yellow hair on top of their head *B. pensylvanicus* have yellow hair on the first abdominal segment. *B. auricomus* and *B. pensylvanicus* lack the fringe of brown hair on the fifth abdominal segment present on *B. terricola*.

Workers and queens have yellow on the front of the thorax as well as on abdominal segments two and three. The head and other abdominal segments are black with the exception of a fringe of brownish yellow hair on the far edge of the fifth abdominal segment. Queens are similar to workers except they are larger in size. There is variation in coloration across its range.

Identifying *Bombus terricola*

Females have 6 abdominal segments versus 7 in males.
Females have 12 antennal segments versus 13 in males.
Female hind legs are wider than male hind legs.

Male or female?



Historic range of *Bombus terricola*

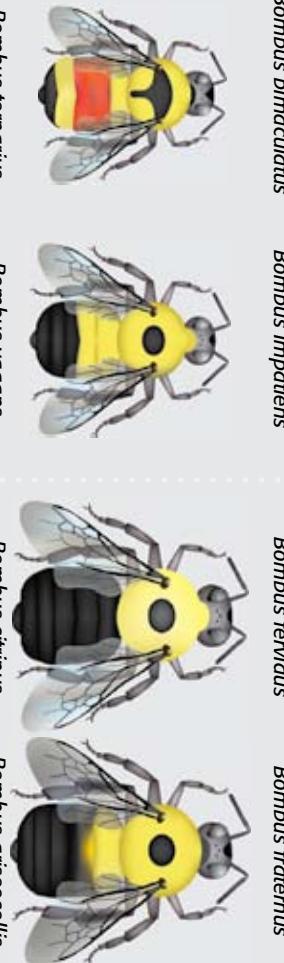


Map based on Milliron 1971, A Monograph of the Western Hemisphere Bumblebees.

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Other common bumble bees of eastern North America



www.xerces.org/bumblebees

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Use borderless printing for best results.



Fold in half along horizontal dotted line.



Fold accordion-style along three vertical dotted lines.