



BUMBLE BEE BRIGADE

wiatri.net/inventory/bbb



WI Bumble Bees Need Our Help



rufocinctus



ternarius



frigidus



affinis



griseocollis



impatiens



bimactulatus



fervidus



borealis



perplexus



vagans



sandersoni



pennsylvanicus



auricomus



terricola



bohemicus



citrinus



variabilis



insularis



flavidus

Causes of Population Decline

- Habitat Loss
- Intensive Agriculture (pesticides, decreased floral diversity, disease and competition from commercial bees)
- Pesticides
- Disease
- Climate Change



Mission

To improve our understanding, management, and conservation activities of Wisconsin bumble bees.



Long-Term Objectives

- Develop an accurate map of species distributions
- Identify species-habitat associations
- Assess habitat conditions and determine conservation threats
- Determine baseline population status and monitor trends over time

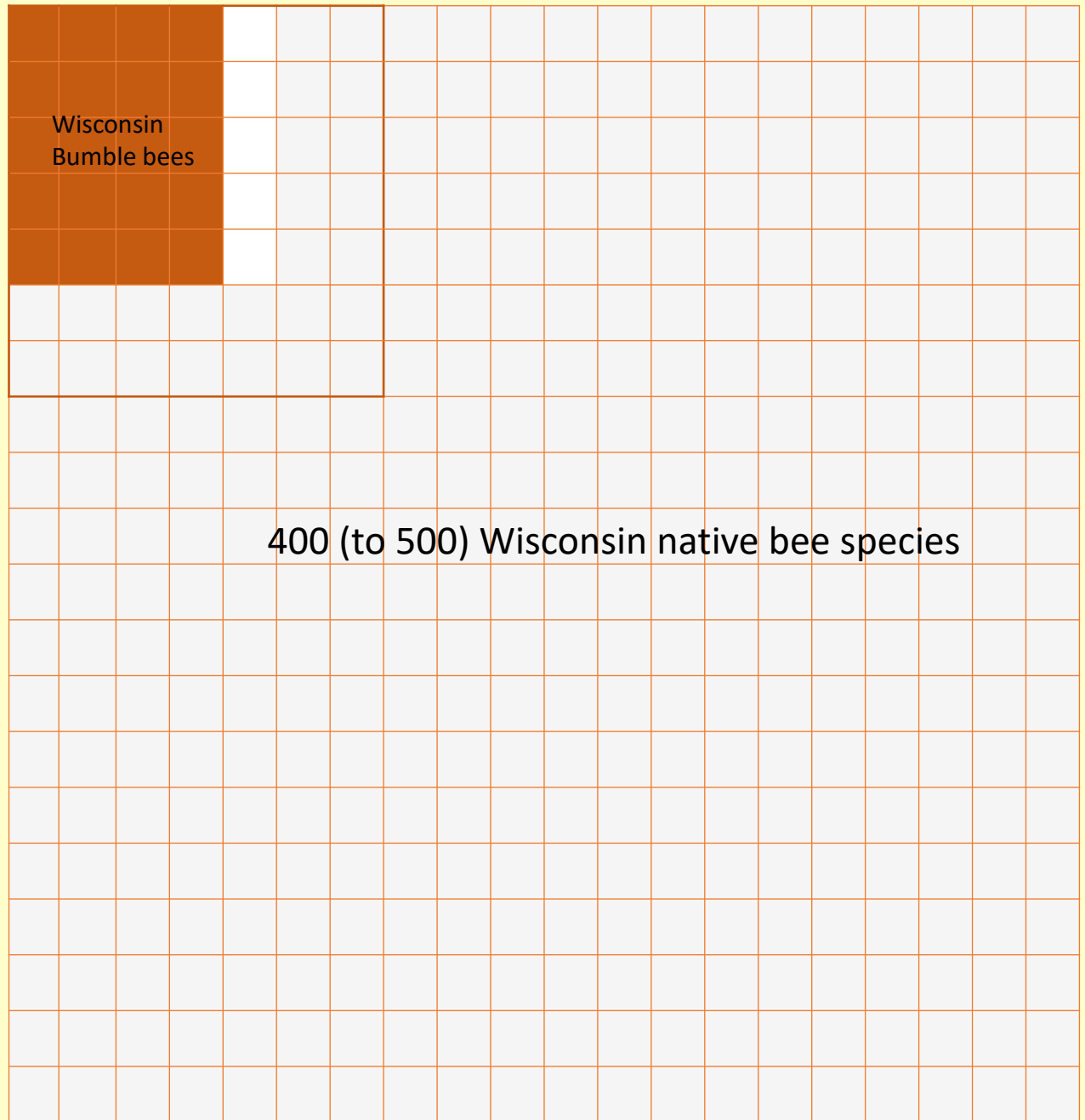
Wisconsin bee diversity:

85% are solitary
bee species

15% are social or
semi-social bees



Social, perennial,
European Honey bee:



400 (to 500) Wisconsin native bee species

Biology

- Social (queens, workers & males), annual colony
- Wide variety of habitats
- Most diverse in temperate & montane areas
- WI active mid April – early October (varies by species)
- Very hairy bodies, active early & later in day
- [Buzz pollination](#)



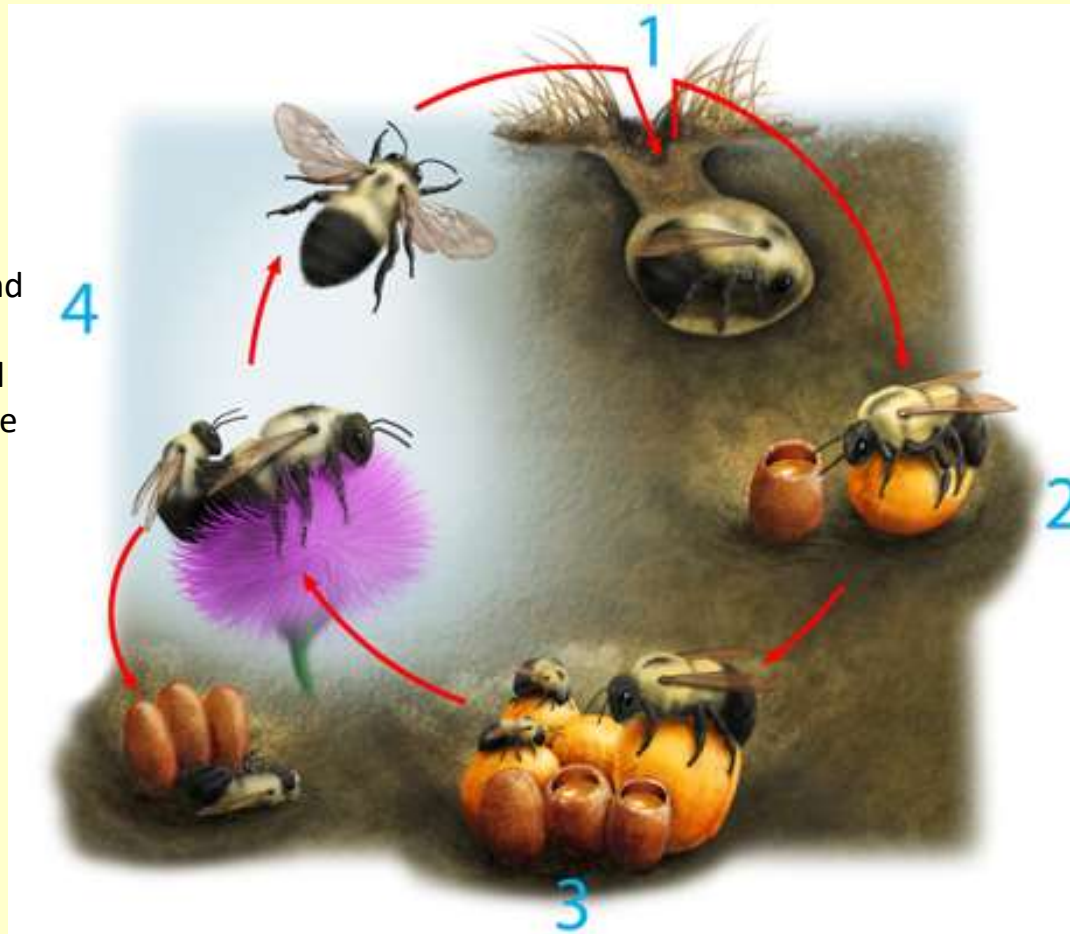
Biology

- Corbicula – pollen carrying structure



Biology

A queen emerges from hibernation in spring and finds a nest site, such as an abandoned rodent burrow.



In autumn the colony produces new queens and male bees, who leave to find mates. Newly mated queens hibernate and the rest of the bees die.

She creates wax pots to hold nectar and pollen, in which she lays and incubates her eggs.

When her daughters emerge as adults, they take over foraging and other duties

Biology- Nesting

- Social colonies founded by single queen
- Annual colonies--last only one season
- Nests have ~100-400 workers
- Nest in abandoned rodent burrows or under lodged grasses

*Conserve brush piles,
unmown areas*

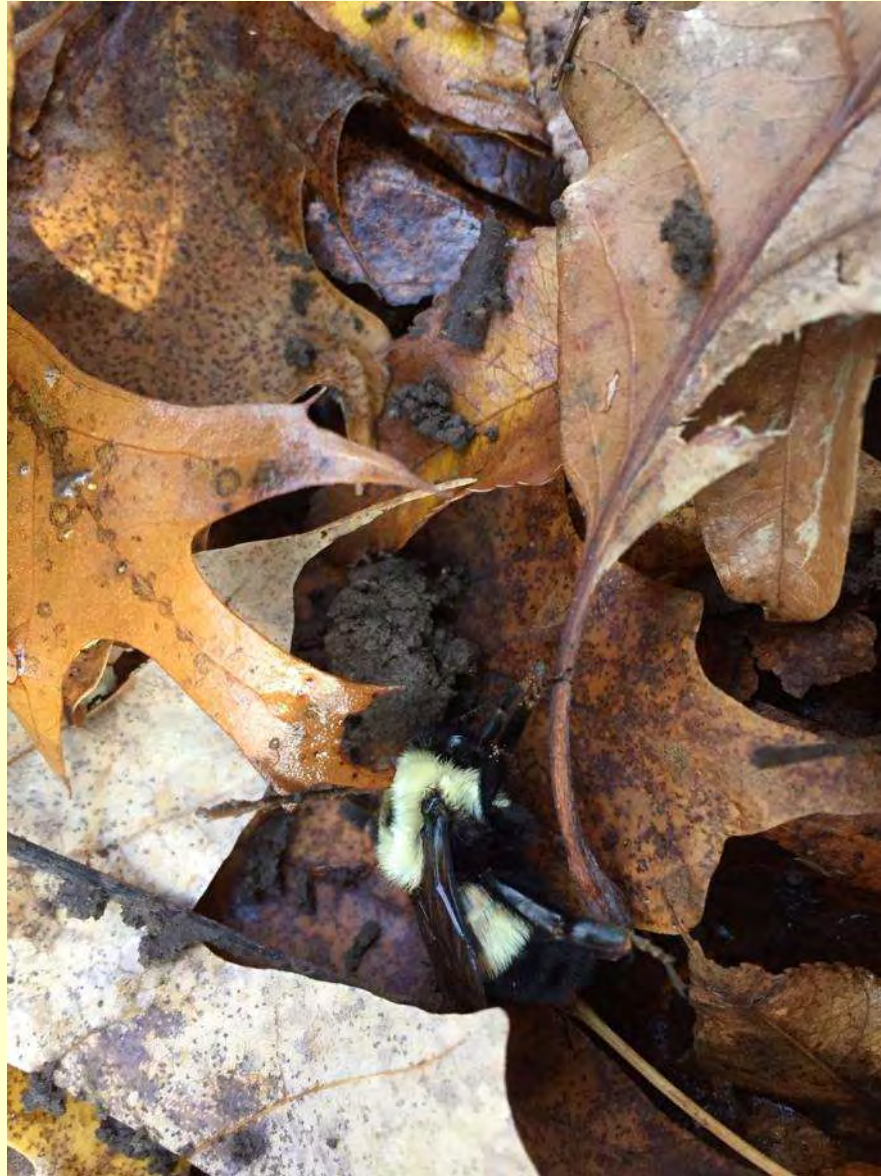


Bombus vagans on clover

Photos: Elaine Evans, Nancy Adamson, Eric Mader



Biology



Overwintering
B. affinis gyne

Photo credit: Brad Herrick

Cuckoo Bumble Bees

- 5 species in WI
- Social parasite, no corbicula on hind tibia
- Parasitize nests of other species



Lemon Cuckoo



Fernald Cuckoo



Indiscriminate Cuckoo

Cuckoo Bumble Bees

- Two very rare (possibly extirpated) from WI
- No recent records in WI



Ashton Cuckoo



Variable Cuckoo

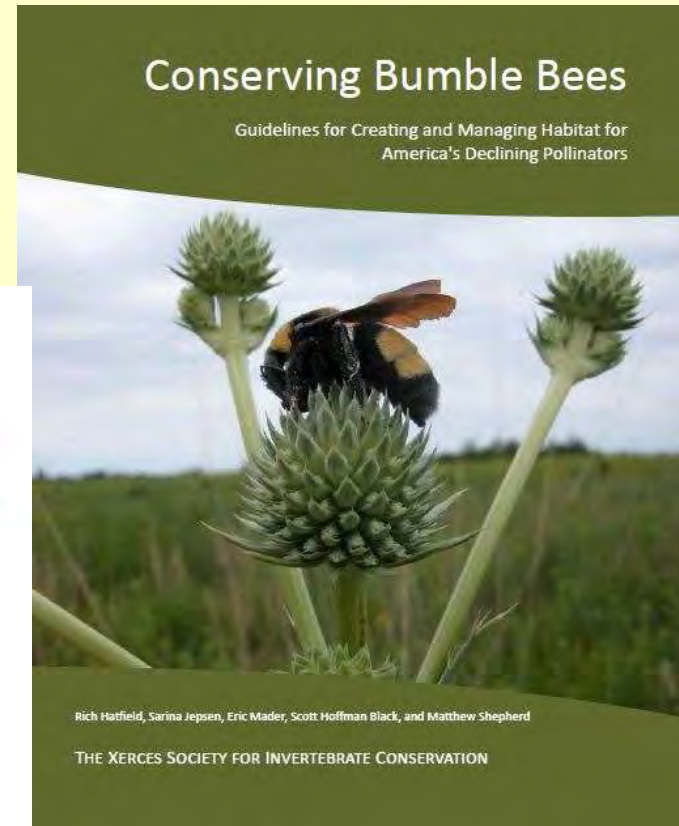
Commercial Bumble Bees



- Tomatoes
- Peppers
- Squash
- Strawberries
- Blueberries
- Cranberries

Things Bumble Bees Need

- Nesting Habitat
- Floral Resources
- Overwintering Habitat
- Water

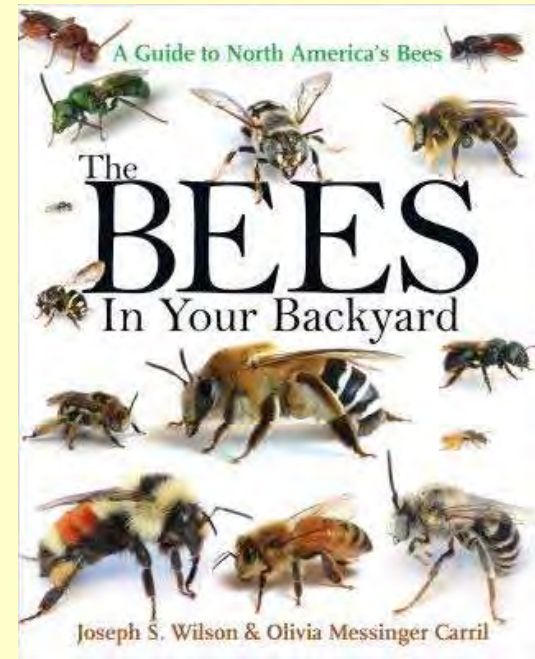


Habitat: A bee's eye view



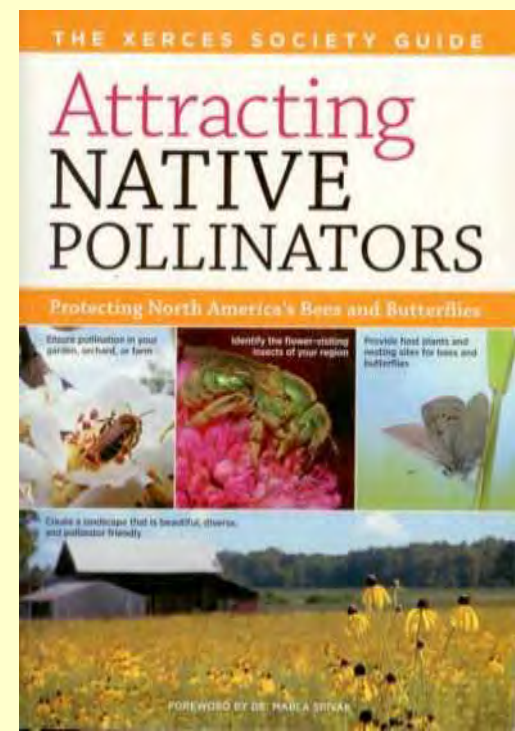
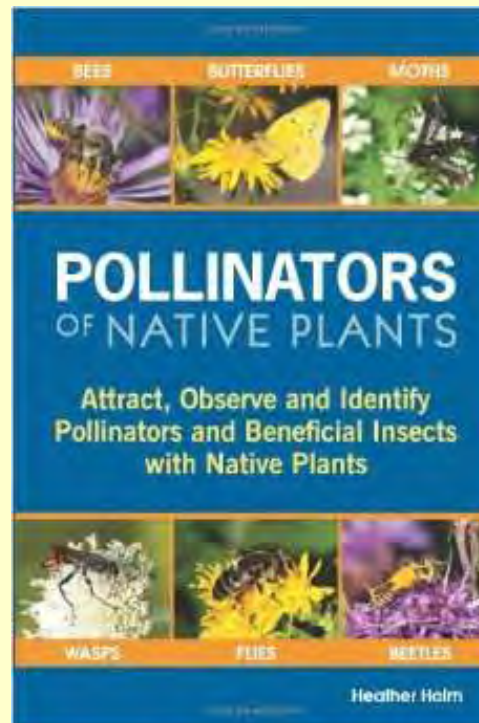
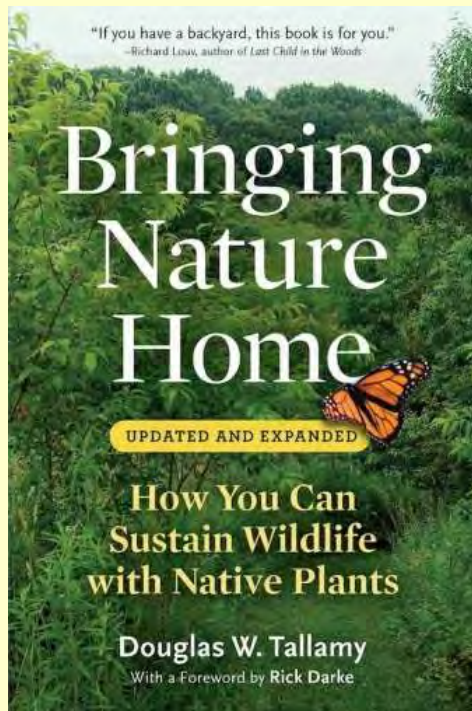
Native plant gardens with diverse, abundant floral resources; suitable nest sites, late season flowers and overwintering sites; no insecticides, especially systemic ones.

Resources

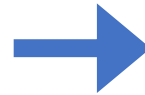
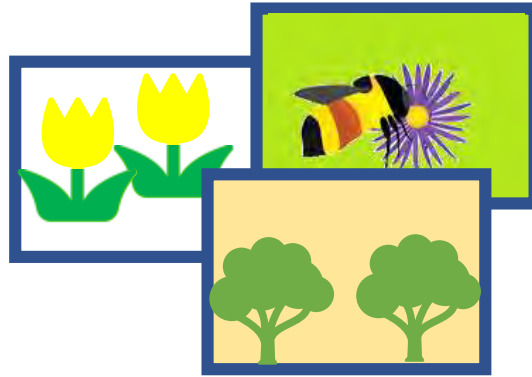
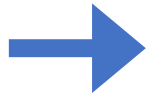


<http://bugguide.net>

<http://www.discoverlife.org/>



Methods



SURVEY

CURATE

SUBMIT

Photography-Based



Two Ways to Contribute

- ***Incidental observations*** are basic, casual, or unplanned sightings
- ***Small area surveys*** are conducted when you purposefully look for, photograph, count, and record the bumble bees that you see at a single location, following the guidelines in this manual.

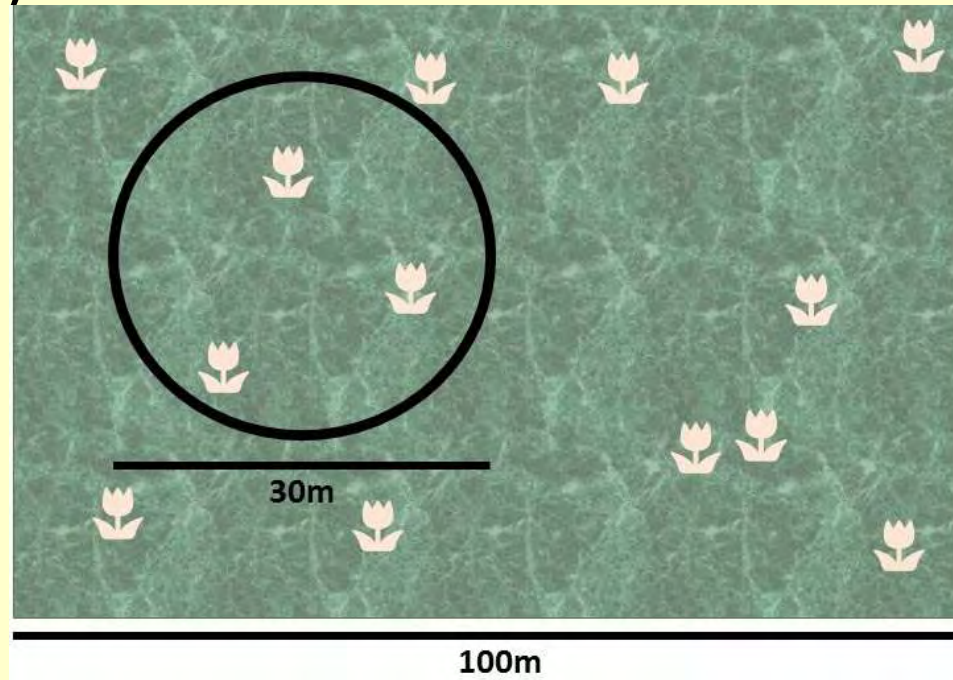
BOTH REQUIRE PHOTO VOUCHERS

Small Area Surveys

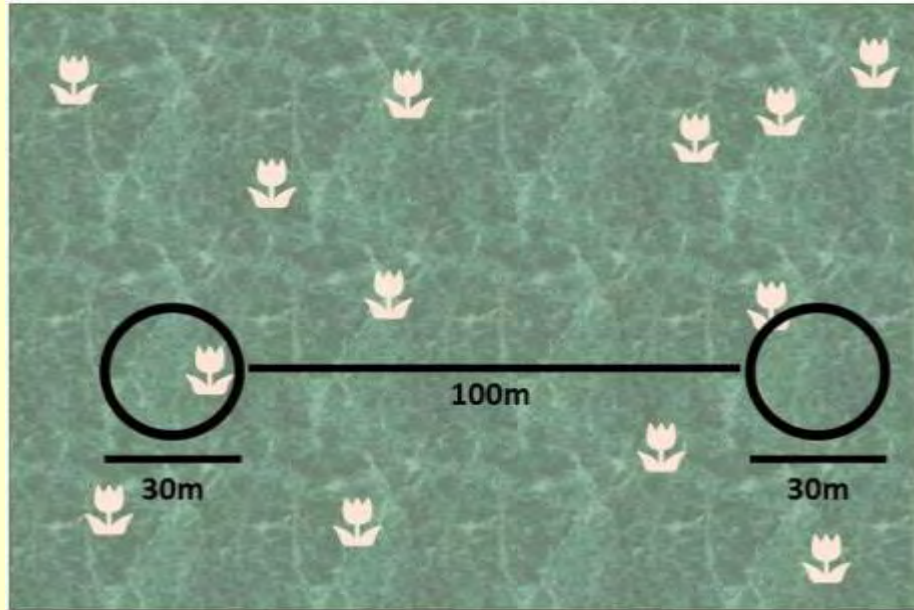
- Record basic survey information
- Stay within a 30m diameter area
- Count the number of bumble bees of each morph that you see
- Photograph at least one bee per morph
- Record number of bees (by male, female, queen), presence of nests, & photo names on Data Sheet
- Curate photos
- Summarize data on Summary Sheet
- Submit data online

Small Area Surveys- Where & When

- **Site:** general location, anywhere with blooming plants
- **Survey location:** specific area you survey (30m diameter)

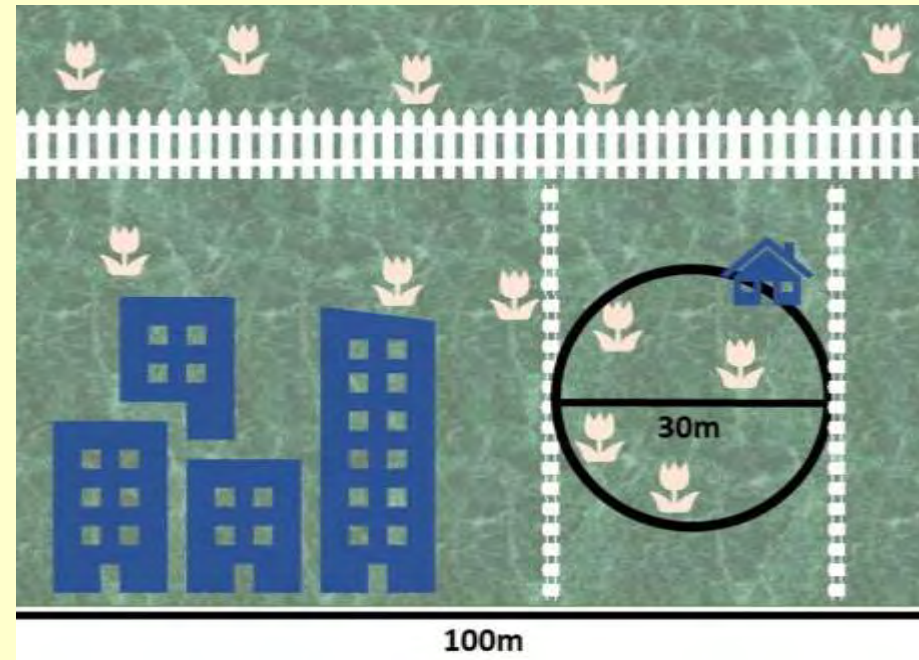


Small Area Surveys- Where & When



Large site: multiple surveys 100m apart

Obstructed site: survey open space in the circle



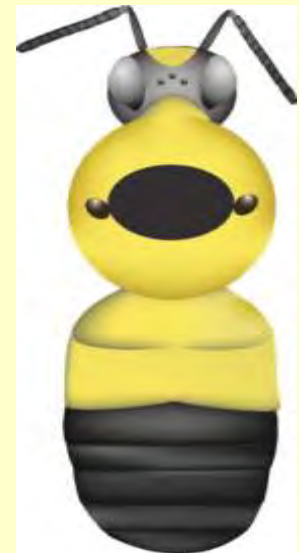
Small Area Surveys- Where & When

- Anywhere with flowering plants
- April/May-October
- Avoid rain, high winds, and severe weather
- Easier to photograph when cool



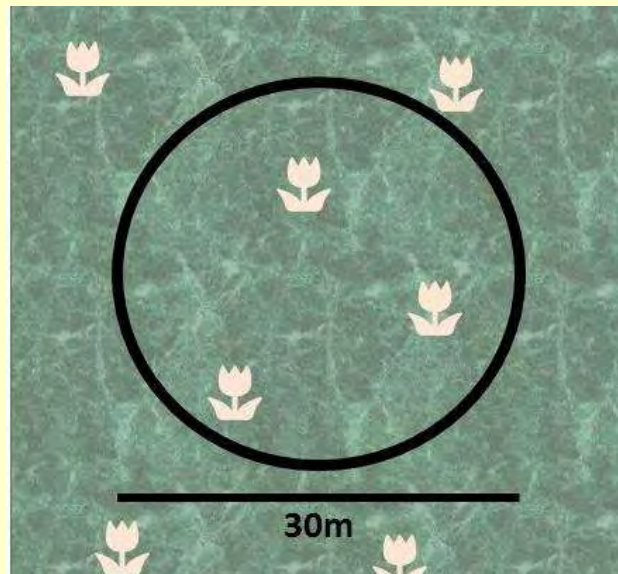
Small Area Surveys- Tallying Morphs

- Count the number of individuals of each morph seen
- **Morphs** are visually distinct groups based on
 - Color patterns
 - Size
 - Number of abdominal segments (males 7, females 6)
 - Presence of corbicula (pollen basket) on legs



Small Area Surveys- Survey Technique

- Use a measuring tape, pre-measured piece of rope, or your known stride length to measure a 30m diameter circle
- Check all flowering plants within the circle for bumble bees
- Tally each bee seen according to morph and take photos of each morph (not of every single bee)
- Do your best to avoid double-counting bees



Small Area Surveys- Data Sheet



Small Area Survey Datasheet- Page 1

Primary Observer		Additional Observer:	
Date:	Start Time:	End Time:	
LOCATION			
Site Name:		Details to find survey location:	
Latitude (DD):	Longitude (DD):		
Agricultural <input type="checkbox"/> Forest <input type="checkbox"/> Grassland/Shrubland <input type="checkbox"/> Wetland <input type="checkbox"/> Shoreline <input type="checkbox"/> Urban/Suburban/Rural Development <input type="checkbox"/> Right-Of-Way <input type="checkbox"/>			
BUMBLE BEE OBSERVATIONS			
Species & Casts (if known)	Morph Description (color pattern, size, shape)	Number (e.g., 3 or 10)	Additional Notes (to help with ID: nectar plants, photo numbers, etc.)
<input type="checkbox"/> Bumble bee nest observed	Species:	Description:	

Small Area Survey Datasheet- Page 2

<i>B. affinis</i> (Rusty Patched)			<i>B. auricomus</i> (Black and Gold)			<i>B. brouceatorius</i> (Two-spotted)			<i>B. bohemicus</i> (Achter's Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
Notes:			Notes:			Notes:			Notes:		
<i>B. borealis</i> (Western Andler)			<i>B. citrinus</i> (Lemon Cuckoo)			<i>B. fervidus</i> (Yellow)			<i>B. fervidus</i> (Female Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
Notes:			Notes:			Notes:			Notes:		
<i>B. fragilis</i> (Fragile)			<i>B. griseocollis</i> (Smokedhead)			<i>B. impatiens</i> (Common Eastern)			<i>B. insularis</i> (Island Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
Notes:			Notes:			Notes:			Notes:		
<i>B. pensylvanicus</i> (American)			<i>B. perplexus</i> (Common)			<i>B. rufocinctus</i> (Red-bellied)			<i>B. sandwichensis</i> (Sanderson's)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
Notes:			Notes:			Notes:			Notes:		
<i>B. terrestris</i> (Tolerant)			<i>B. terricola</i> (Yellow-legged)			<i>B. vagans</i> (Half-bled)			<i>B. variabilis</i> (Variable Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
Notes:			Notes:			Notes:			Notes:		

Small Area Surveys- Data Sheet



Small Area Survey Datasheet- Page 1

Primary Observer: <u>Eva Lewandowski</u>		Additional Observers: <u>Jay Watson</u>	
Date: <u>5/1/18</u>	Start Time: <u>8:05 am</u>	End Time: <u>8:55 am</u>	
LOCATION			
Site Name: <u>Teaney Park</u>		Details to find survey location: <u>from Thornburg Ave Parking, travel West on road along survey on SE side of aband.</u>	
Latitude (DD):	Longitude (DD):		
Agricultural <input type="checkbox"/> Forest <input type="checkbox"/> Grassland/Shrubland <input type="checkbox"/> Wetland <input type="checkbox"/> Shoreline <input type="checkbox"/> Urban/Suburban/Rural Development <input checked="" type="checkbox"/> Right-Of-Way <input type="checkbox"/>			
Bumble Bee Observations			
Species & Casts (if known)	Morph Description (color pattern, size, shape)	Number (e.g. 3 or III)	Additional Notes to help with ID (nectar plants, photo taken/numbers)
Female unknown	<u>1</u> - black face, yellow vertex - yellow abd, with black on abdomen	III	photos 2-9, 15-19, 23-26
<input checked="" type="checkbox"/> Bumble bees not observed	Species: <u>impatiens</u>	Description: <u>small bunch of grass near log</u>	

Submit survey data to Wisconsin Bumble Bee Brigade - <http://wbbbr.org/wisconsinbbee>

Small Area Survey Datasheet- Page 2

<i>B. affinis</i> (Rusty Patched)			<i>B. auricomus</i> (Black and Gold)			<i>B. binauculatus</i> (Tennessee)			<i>B. bohemicus</i> (Adelphi Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
<i>B. borealis</i> (Northern Archaic)			<i>B. citrinus</i> (Lemon Cuckoo)			<i>B. fervidus</i> (Yellow)			<i>B. flavus</i> (Femur Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
<i>B. frigidus</i> (Frost)			<i>B. griseocollis</i> (Brown-banded)			<i>B. impatiens</i> (Common Eastern)			<i>B. insularis</i> (Indicrebrate Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
<i>B. pensylvanicus</i> (American)			<i>B. perplexus</i> (Confused)			<i>B. rufocinctus</i> (Red-banded)			<i>B. sandersoni</i> (Sanderson's)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male
<i>B. ternarius</i> (Tricolored)			<i>B. terricola</i> (Yellow-banded)			<i>B. vagans</i> (Half-black)			<i>B. variegatus</i> (Variegate Cuckoo)		
Queen	Female	Male	Queen	Female	Male	Queen	Female	Male	Queen	Female	Male

photos 27-33

Submit survey data to Wisconsin Bumble Bee Brigade - <http://wbbbr.org/wisconsinbbee>

Small Area Surveys- Curating Photos

- Identify morphs in each image
- Select best photos of each morph's head, dorsal, and side views
- Crop and center selected images
- Ensure file size is less than 1MB

Small Area Surveys- Summary Sheet



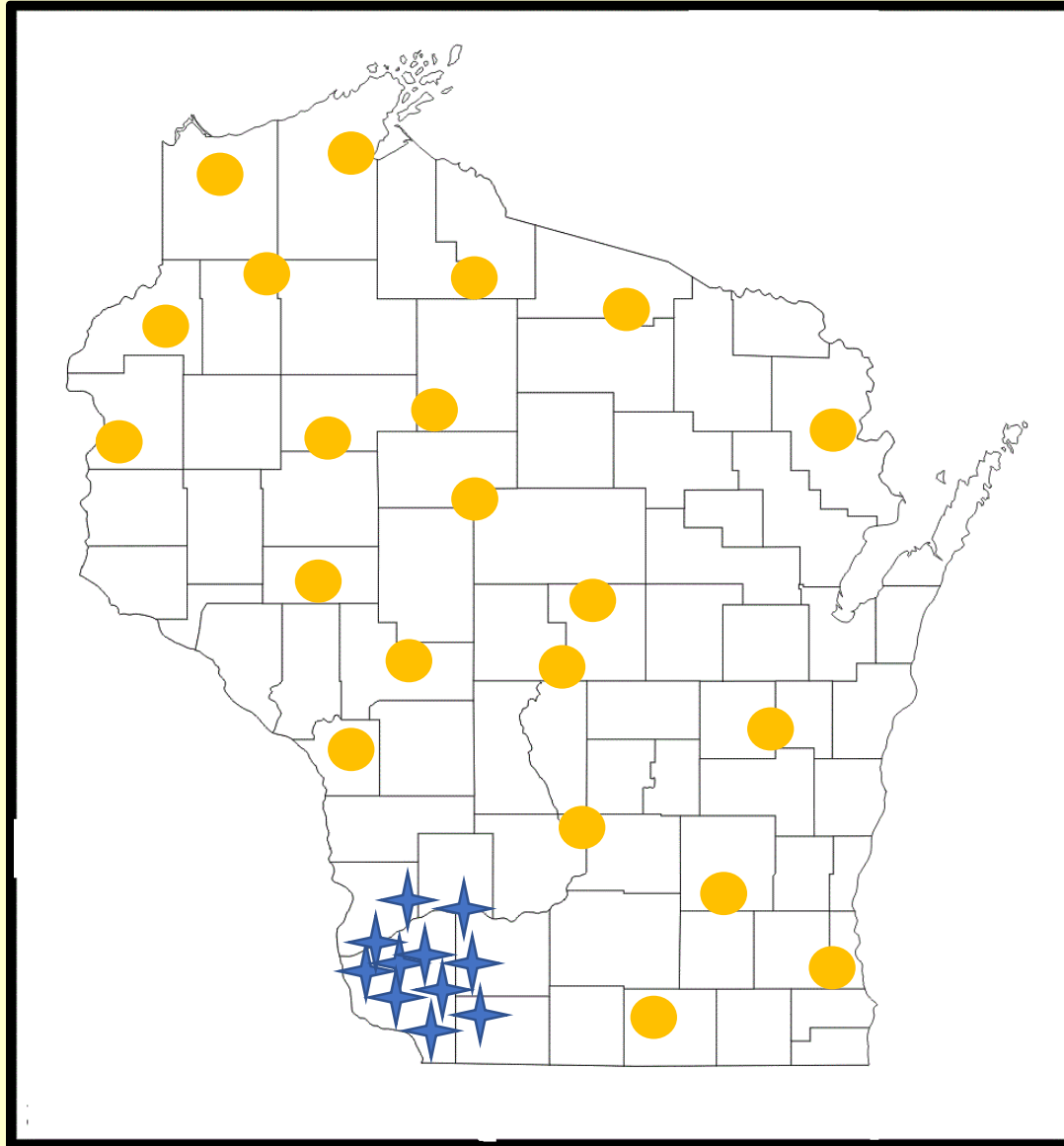
**BUMBLE BEE
BRIGADE**

Summary Sheet: After you have identified the bees in your survey photos, use this sheet to summarize your observations before submitting the data online.

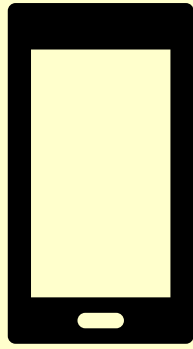
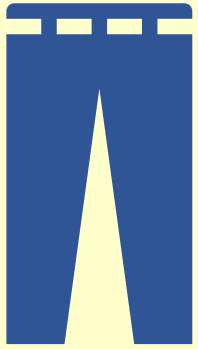
Survey Date 5/1/18 Site Name Tenney Park

Species (scientific name, common name)	Number of Males	Number of Females	Number of Queens	Nest (Y/N)	Photo Name/ID
<i>B. affinis</i> , rusty patched					
<i>B. auricomus</i> , black and gold					
<i>B. bimaculatus</i> , twospotted					
<i>B. bohemicus</i> , Ashton's cuckoo					
<i>B. borealis</i> , northern amber					
<i>B. citrinus</i> , lemon cuckoo					
<i>B. fervidus</i> , yellow					
<i>B. flavidus</i> , Fernald cuckoo					
<i>B. frigidus</i> , frigid					
<i>B. griseocollis</i> , brown-belted					
<i>B. impatiens</i> , common eastern		11		Y	20-22
<i>B. insularis</i> , indiscriminate cuckoo					
<i>B. pensylvanicus</i> , American		1			27, 30, 31
<i>B. perplexus</i> , confusing					
<i>B. rufocinctus</i> , redbelted		111			15-19
<i>B. sandersoni</i> , Sanderson's					
<i>B. ternarius</i> , tricolored					
<i>B. terricola</i> , yellowbanded					
<i>B. vagans</i> , half-black					
<i>B. variabilis</i> , variable cuckoo					
Unknown <i>Bombus</i> 1					
Unknown <i>Bombus</i> 2					
Unknown <i>Bombus</i> 3					

Small Area Surveys- Null Data



Safety First



Photographing and IDing Bumble Bees



Photographing and IDing Bumble Bees



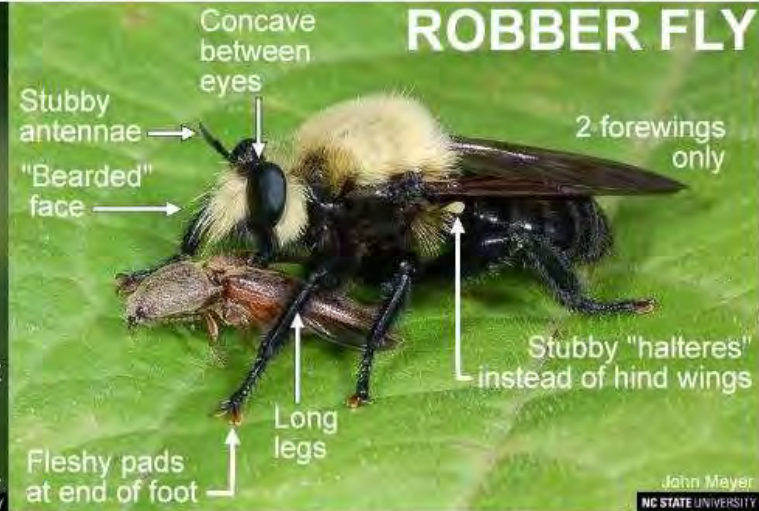
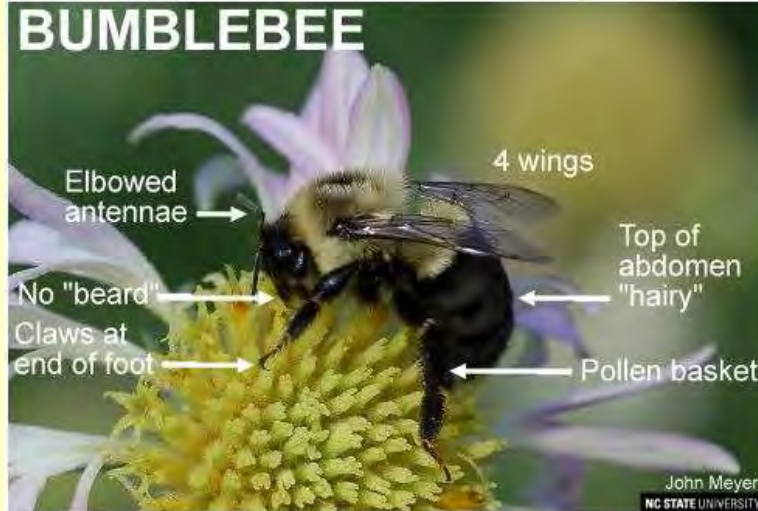
Photographing and IDing Bumble Bees

Bumblebee Look-A-Likes

Bumblebees are valuable pollinators that can sting

The two predatory flies

This is done to fool potential prey or their own predators



Characteristics For Separating Look-A-Likes From The Real Thing

	Bumblebee	Robber Fly	Hover Fly
Concavity between eyes	N	Y	N
Bearded face	N	Y	N
Long,elbowed antennae	Y	N	N
4 wings	Y	N	N
2 wings	N	Y	Y
Claws on foot	Y	N	N
fleshy foot pads	N	Y	Y



Bumble Bee vs similar looking bees



Eastern Carpenter Bee - *Xylocopa virginica* - Female



<https://beespotter.org/topics/mimics/>

Bumble Bee vs similar looking bees



Antonio Liberta

Carlin's Miner (*Andrena carlini*)



Mining Bee (*Andrena* sp.)

Bumble bee vs similar looking bees



Honey bee

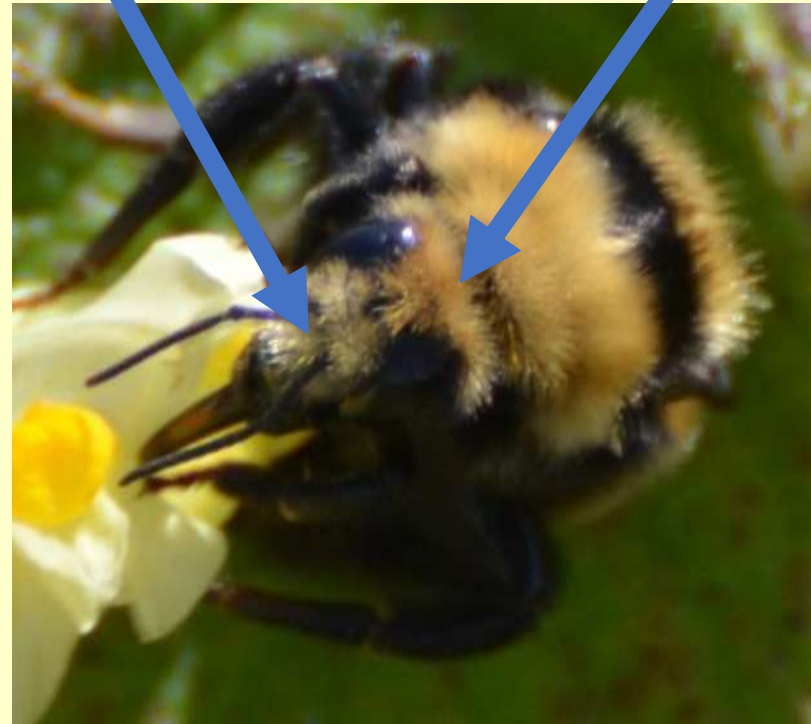


Bumble bee

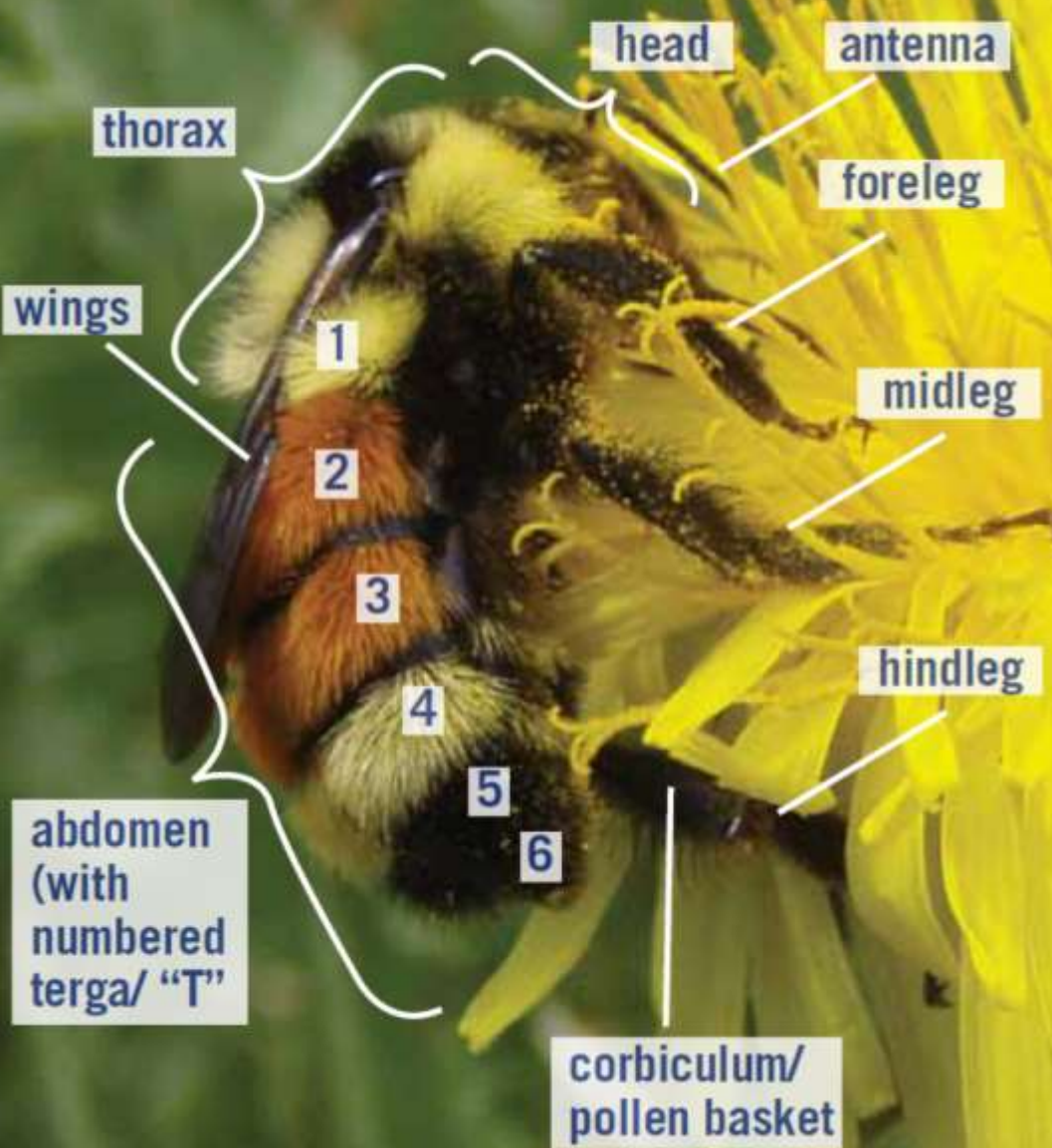
Key Features

Face Color

Vertex Color



Bombus borealis



Bombus ternarius, queen

Female vs Male



female abdomen
6 segments



male abdomen
7 segments



female antenna
12 segments



male antenna
13 segments



female leg
wider male leg
thinner

Males don't sting

Female vs Male



Corbicula



Bombus impatiens
common eastern bumble bee



Bombus bimaculatus
twospotted bumble bee



Bombus griseocollis
brownbelted bumble bee



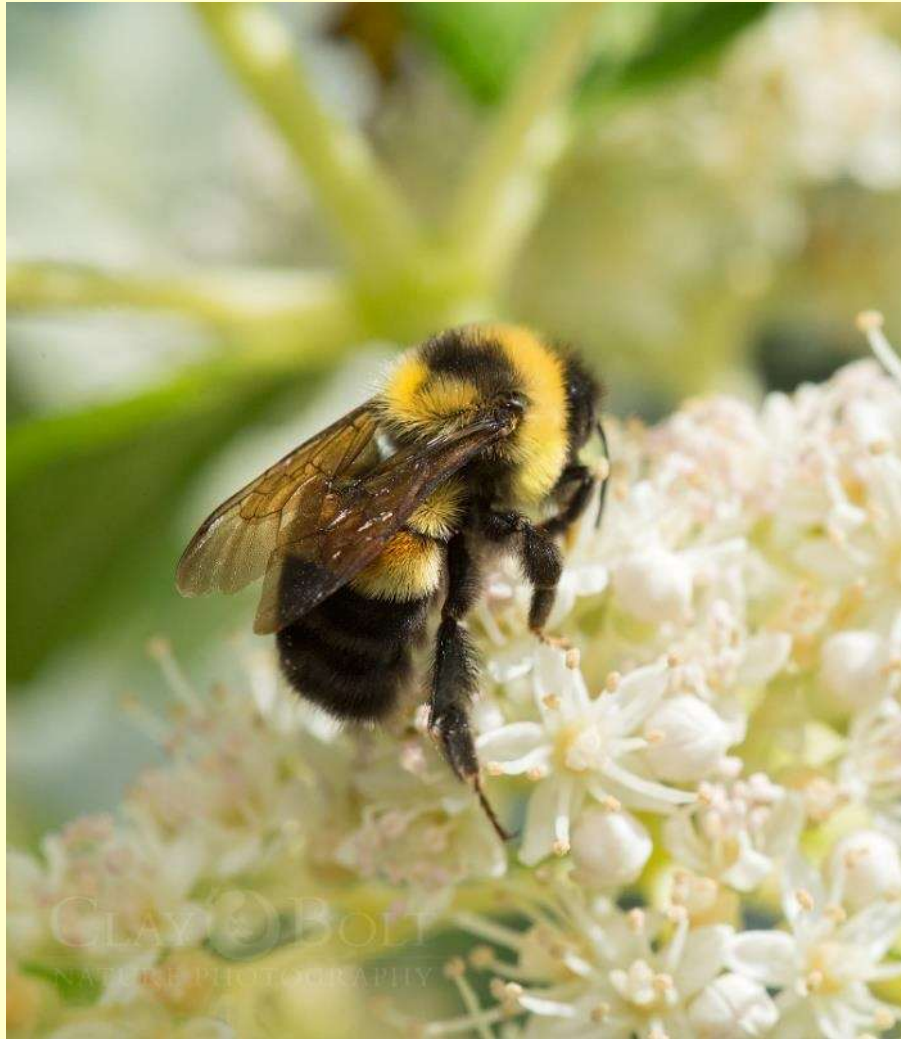
Bombus auricomus
black and gold bumble bee



Bombus vagans
half black bumble bee



Bombus affinis
rusty patched bumble bee



Bombus rufocinctus
redbelted bumble bee



Bombus ternarius
tricolored bumble bee



Bombus terricola
yellow-banded bumble bee



Species often confused with yellow-banded



B. auricomus



B. pensylvanicus

Species often confused with yellow-banded



Bombus terricola (left), *Bombus pensylvanicus* (center) and *Bombus auricomus* (right)

Bombus borealis
northern amber bumble bee



Photography Tips

- Camera type
 - point & shoot, DSLR & phone cameras (≥ 8 megapixels)
 - Experiment with your camera
 - macro setting, auto exposure and auto focus might be best
- Be calm. While the bees are nectaring and/or collecting pollen, you can be quite close without disturbing them.



Photography Tips

- Series of photos
 - dorsal (top), side & face views
- After taking photos of one bee, take a “spacer” photo
- Patience & practice



Confusing Bumble Bee (*Bombus perplexus*) - queen

Key Views to Photograph



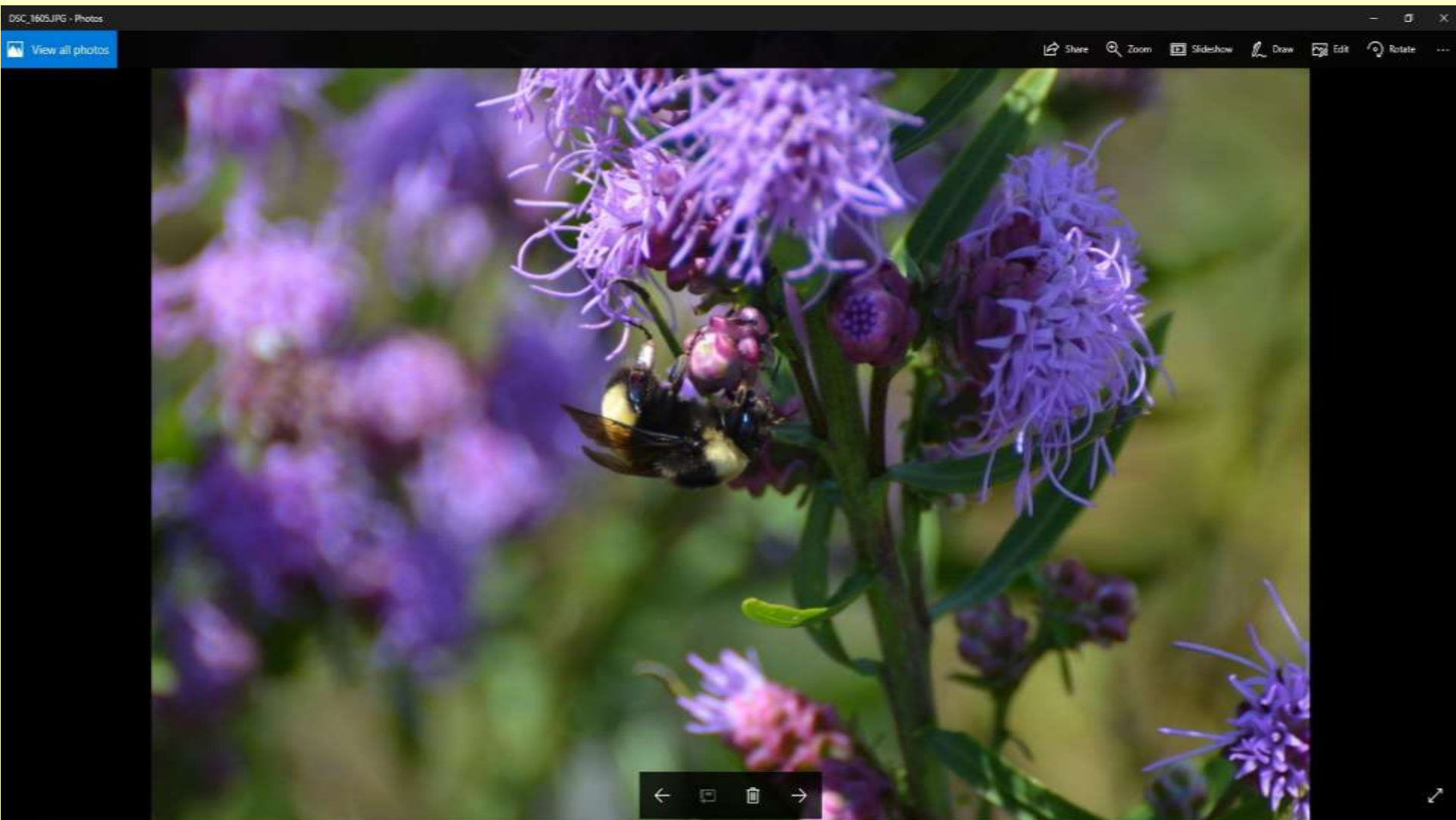
Lemon Cuckoo (*Bombus citrinus*) - female

Curating Photos



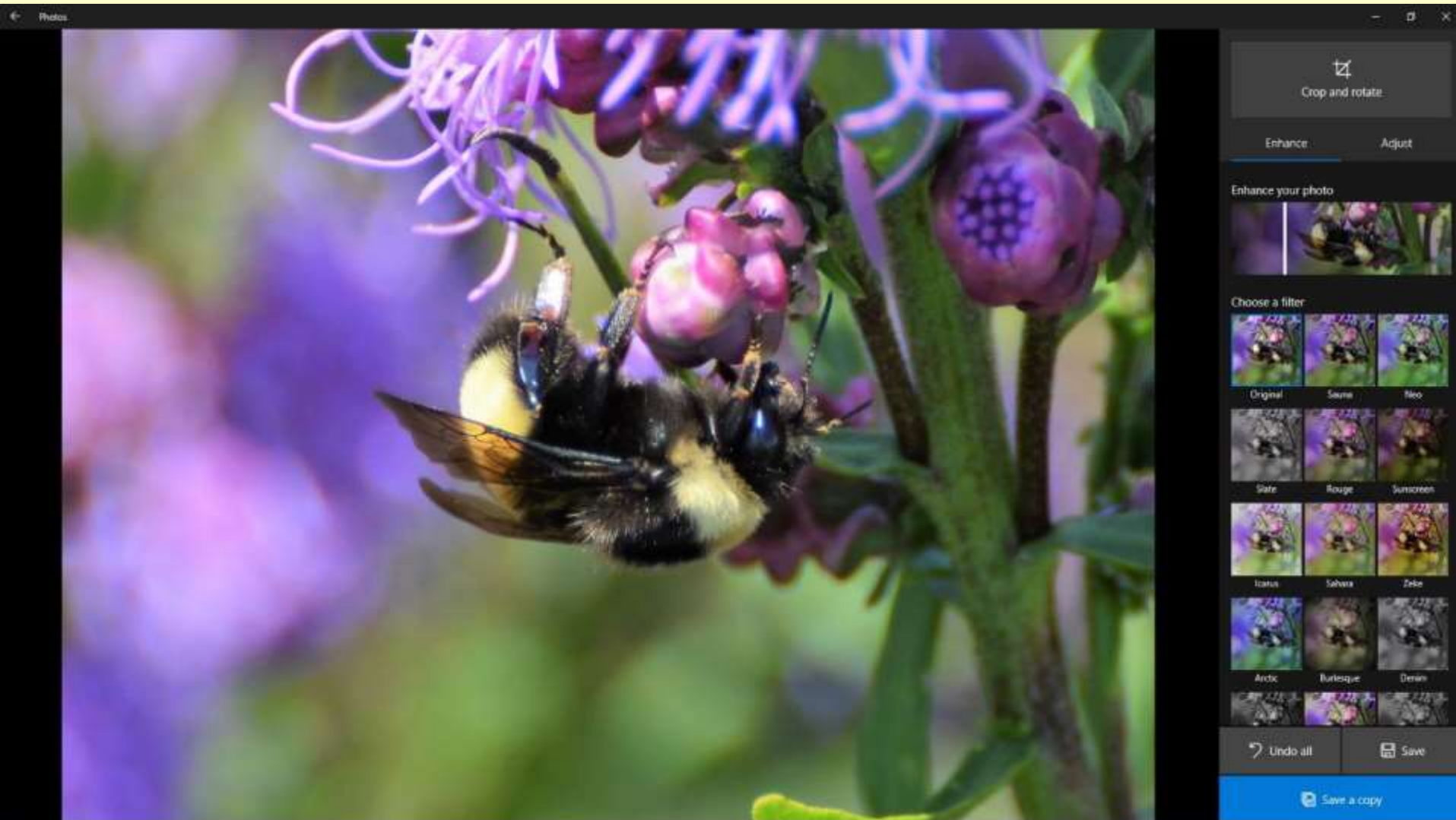
- Identify morphs in each image
- Select best photos of each morph's head, dorsal, and side views
- Crop and center selected images
- Ensure file size is less than 1MB

Curating Photos

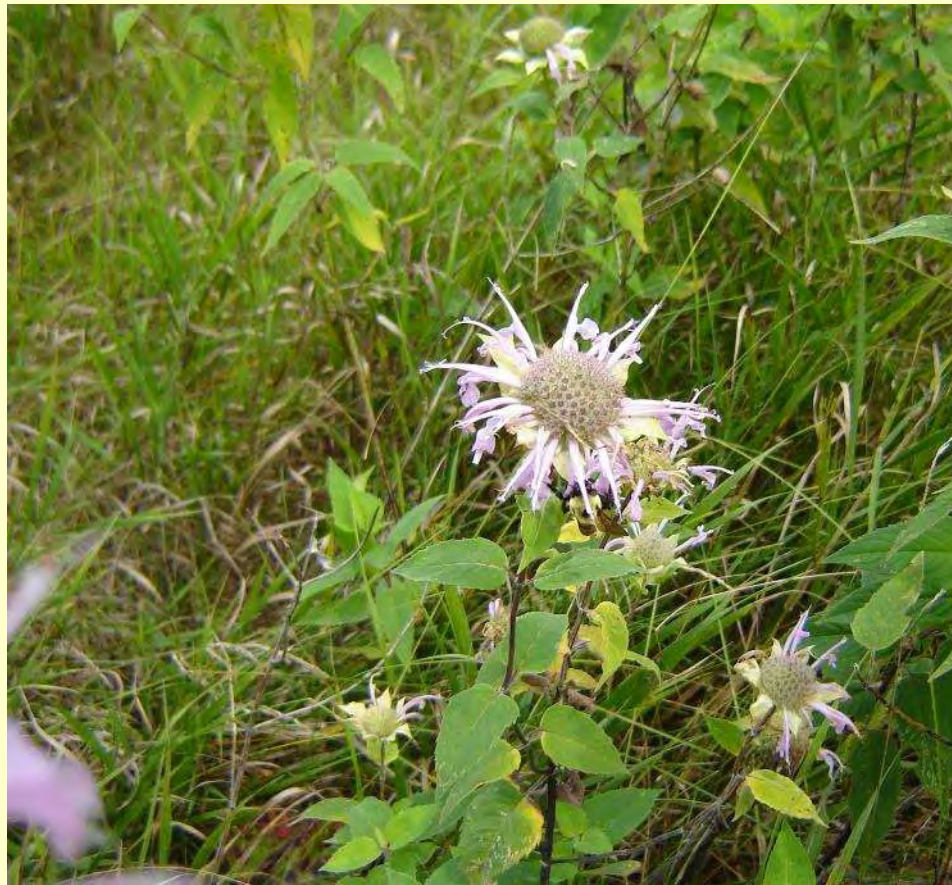


Yellowbanded bumble bee (*B. terricola*)

Curating Photos



Curating Photos



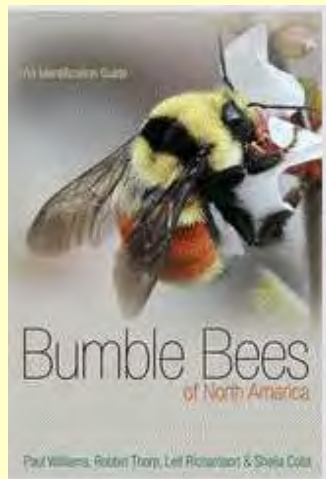
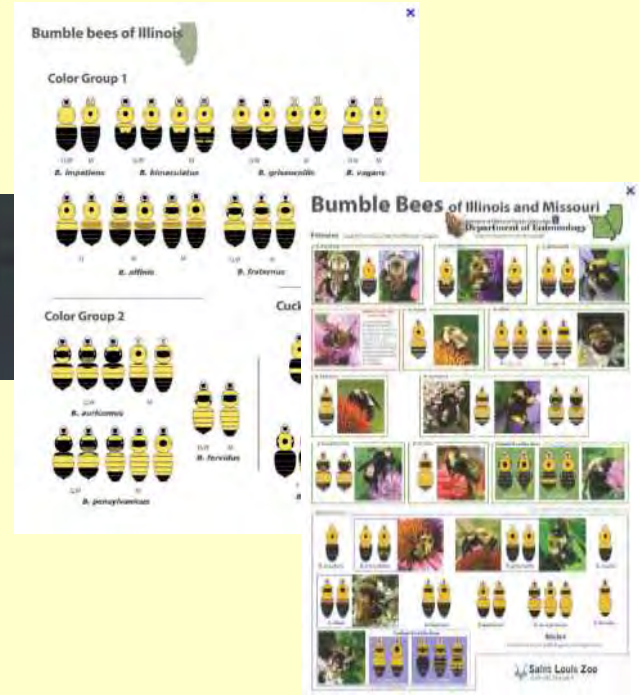
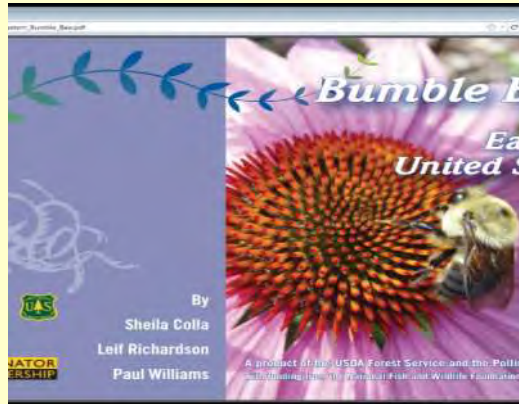
Curating Photos



Curating Photos



Resources to identify your photos



Your Verifications

WI Bumble Bee Brigade Account

Eva Lewandowski
608-264-6057
eva.lewandowski@wisconsin.gov

[Edit Information](#)
[Change Password](#)

[+ Add/View Observations](#)

Observation List

[Export Observations to Excel](#)

(Click year to see list of observations for that year)

Survey Year: 2018

Survey Date	Site Name	Observation	Date Submitted	Date Verified
09/19/2018	Empire Prairies Westport Drumlin SNA	14 Male <i>Bombus impatiens</i>		11/08/2018
09/19/2018	Empire Prairies Westport Drumlin SNA	2 Female <i>Bombus impatiens</i>		11/20/2018
09/16/2018	Tenney Park	3 Male <i>Bombus impatiens</i>		10/23/2018
08/31/2018	Tenney Park	1 Male <i>Bombus impatiens</i>		09/12/2018
08/31/2018	Tenney Park	5 Female <i>Bombus impatiens</i>		09/12/2018
08/31/2018	Burr Jones Park	None - <i>unverified</i>		
08/26/2018	Chaffee Creek Meadow	1 Male <i>Bombus vagans</i>		10/11/2018
08/26/2018	Worzella Pines Park	1 Female <i>Bombus impatiens</i>		08/31/2018
08/26/2018	Chaffee Creek Meadow	1 Unknown <i>Bombus impatiens</i> [Reported as Female]		09/12/2018
08/26/2018	Chaffee Creek Meadow	2 Female <i>Bombus vagans</i>		10/11/2018
08/26/2018	Chaffee Creek Meadow	3 Queen <i>Bombus griseocollis</i>		11/08/2018
07/28/2018	Warner Park	1 Female <i>Bombus impatiens</i>		08/17/2018
07/28/2018	Warner Park	2 Male <i>Bombus bimaculatus</i>		08/15/2018
07/28/2018	Warner Park	1 Female <i>Bombus auricomus</i>		08/15/2018
07/27/2018	Burr Jones Park	10 Male <i>Bombus griseocollis</i>		07/27/2018
07/26/2018	Tenney Park	2 Female <i>Bombus impatiens</i>		07/27/2018
07/26/2018	Tenney Park	3 Male <i>Bombus griseocollis</i>		07/27/2018
07/26/2018	Tenney Park	1 Female <i>Bombus rufocinctus</i>		07/27/2018
07/26/2018	Tenney Park	1 Female <i>Bombus griseocollis</i>		07/27/2018

SUBMIT YOUR PHOTOS!!!!

- To the Bumble Bee Brigade website to verify ID & to document/map bumble bee distributions



The screenshot shows the 'WI Bumble Bee Brigade Log In' page. At the top left is the 'BUMBLE BEE BRIGADE' logo featuring a bee and a flower. To its right are navigation links: 'Home', 'Get Involved', 'Resources', 'Submit Data', and 'Explore Data'. The main heading is 'WI Bumble Bee Brigade Log In'. Below this is a paragraph of text explaining the purpose of the website and the use of user data. There are two input fields: 'Email:' and 'Password:'. Below the password field is a link for 'retrieve your password'. A green 'LOG IN' button is centered below the text. At the bottom of the form area is a link for 'Create a new account here'.

BUMBLE BEE BRIGADE Home Get Involved Resources **Submit Data** Explore Data

WI Bumble Bee Brigade Log In

The Wisconsin Bumble Bee Brigade allows volunteers from the public and professionals to report observations of bumble bees seen in Wisconsin. The information you provide will be used by the Wisconsin Department of Natural Resources and its partners to study, manage, and conserve Wisconsin's bumble bees. Data on rare species will be used to supplement the Wisconsin Natural Heritage Inventory database. Personal information collected on this form will be used to process your request, and may be used to contact you if DNR staff require additional information or for project updates; it may also be made available to requesters under Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats]. The photos and observation data that you submit, generalized to the township level, will be displayed on the Wisconsin Bumble Bee Brigade website, under the display name of your choice or as anonymous.

Email:

Password:

Forget your password? Enter your email address in the space above and automatically [retrieve your password](#) if the email matches the one listed in your account.

LOG IN

Don't have an account yet? [Create a new account here](#).



This site is produced in conjunction with the [Wisconsin Aquatic and Terrestrial Resources Inventory](#) and sponsored by the [Wisconsin Department of Natural Resources](#). The information presented on this site is subject to the Wisconsin Department of Natural Resources' [Legal Notices](#), [Disclaimers](#), and [Terms of Use](#).



Submitting Data wiatri.net/inventory/bbb

WI Bumble Bee Brigade Account

Eva Lewandowski
608-264-6057
eva.lewandowski@wisconsin.gov

[Edit Information](#)
[Change Password](#)

[Add/View Observations](#)

Observation List

[Export Observations to Excel](#)

(Click year to see list of observations for that year)

Survey Year: 2018

Totals by Site/Survey/Species

Tally	Life	2019	Last 30 Days	2018
Total species (verified)	6	0	0	6
Total species (unverified)	1	0	0	1
Total surveys	22	0	0	22
Sites surveyed	14	0	0	14
Percent of species id's where submitted = verified (verified observations only)	97%			97%

Total Species Observed by County

County	Life	2019	Last 30 Days	2018
Brown	1	0	0	1
Dane	5	0	0	5
Marquette	3	0	0	3
Portage	1	0	0	1
Vernon	1	0	0	1

Admin Controls

[LOGOUT](#)

Submitting Data wiatri.net/inventory/bbb

http://wiatri.net/inventory/bbb/submitData/Secure/welcome.cfm

Search...

Wi BBB - Survey Account

WI Bumble Bee Brigade Account

Eva Lewandowski
608-264-6057
eva.lewandowski@wisconsin.gov

[Edit Information](#)
[Change Password](#)

[+ Add Site](#)

My Sites (Click on the site name to open site details.)

- [Tenney Park](#) - Dane County (2 Surveys)
- [GEF2](#) - Dane County (1 Survey)
- [Capitol](#) - Dane County (0 Surveys)

[LOGOUT](#)

Submitting Data wiatri.net/inventory/bbb

http://wiatri.net/inventory/bbb/submitdata/secure/siteAdd1.cfm

Wi BBB - Add Site

WI Bumble Bee Brigade - Add Site

****Required Fields**

****Site Name:**

The site serves as a general location within which more specifically located surveys are done. Please be descriptive when naming your site. Public property names, street addresses, and nearest intersection road names are examples of good site names (e.g., "UW Arboretum" or "Intersection of Hwy 12 and Park Street" or "My House").

****County:**

Select the county where your site is located. If you are unsure of the county but have coordinates or can zoom into the observation site using a map, select "Unknown" for county.


Submitting Data wiatri.net/inventory/bbb

WI Bumble Bee Brigade - Add Site (cont.)

Zoom and pan map to place the general location of the site under the red crosshairs in the center of the map. The site serves as a general location within which more specifically located surveys are done. Be sure that you zoom into the scale necessary to adequately locate the site. You may also directly enter lat./long. coordinates (dd.ddddd format) into the text boxes. Click the "Next" button to continue.

Sauk County **Required Fields

****Latitude** ****Longitude**



Map Satellite Compass View 3D

J. Hill Park

Domino's Pizza

Ochsner Park & Zoo

Haskins Park

Altridge Park

Sauk County

Google

Map data ©2016 Google Terms of Use Report a map error


Submitting Data wiatri.net/inventory/bbb

← ↻ http://wiatri.net/inventory/bbb/submitData/Secure/siteAdd3.cfm mouse dial

Wi BBB - Add Site

WI Bumble Bee Brigade - Add Site (cont.)

Ochsner Park - Sauk County (43.47284, -89.75565)




****Directions to Site:**

****Ownership Type**

Submitting Data wiatri.net/inventory/bbb

Account / Site Details

Ochsner Park - Sauk County



Site Location: walk in from 1927 Park St, Baraboo

Ownership Type: Unknown

[Add Survey](#)

[Back to Account](#)

[Edit](#)

Map data ©2018 Google


Submitting Data wiatri.net/inventory/bbb

http://wiatri.net/inventory/bbb/submitData/Secure/surveyAdd2.cfm

Wi BBB - Add Survey

WI Bumble Bee Brigade - Add Survey (cont.)

Site: Ochsner Park



Map Satellite

****Survey Type:**
Small Area

****Survey Date: (mm/dd/yyyy)**
[Text Input]

****Start Time:** [Time Selection] [AM/PM Selection]

****End Time:** [Time Selection] [AM/PM Selection]

Note: Please enter noon as 12:00 PM

****Primary Observer:** Me
OR [Text Input]

Additional Observer(s): [Text Input]

****Primary Land use:** Please select...

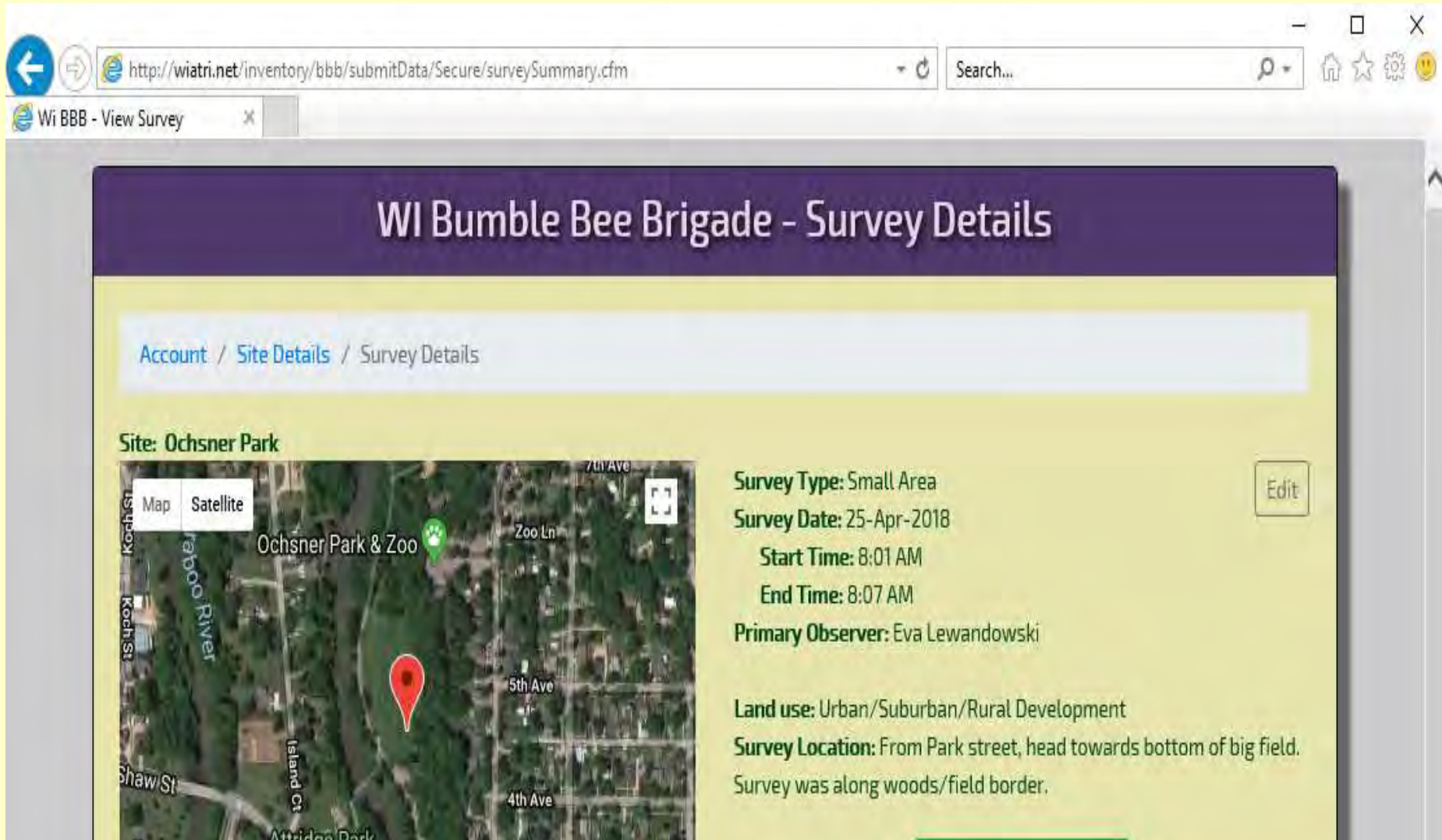
****Details of how to find survey location:**
[Text Input]

Survey comments:
[Text Input]

Save Survey Cancel

Submitting Data

wiatri.net/inventory/bbb



The screenshot shows a web browser window with the URL <http://wiatri.net/inventory/bbb/submitData/Secure/surveySummary.cfm>. The page title is "WI Bumble Bee Brigade - Survey Details". The breadcrumb trail is "Account / Site Details / Survey Details". The site name is "Ochsner Park". A satellite map shows the location of Ochsner Park & Zoo, with a red pin marking the survey location. The map includes labels for "Map", "Satellite", "Koch St", "Ibapo River", "Zoo Ln", "5th Ave", "4th Ave", "Shaw St", "Island Ct", and "Attidoo Park". The survey details are as follows:

- Survey Type:** Small Area
- Survey Date:** 25-Apr-2018
- Start Time:** 8:01 AM
- End Time:** 8:07 AM
- Primary Observer:** Eva Lewandowski
- Land use:** Urban/Suburban/Rural Development
- Survey Location:** From Park street, head towards bottom of big field. Survey was along woods/field border.

An "Edit" button is visible next to the survey details.

Submitting Data wiatri.net/inventory/bbb

http://wiatri.net/inventory/bbb/submitData/Secure/obsAdd.cfm

Wi BBB - Add Observation

WI Bumble Bee Brigade - Add Observation

****Required Fields**

If you did not see any bumble bees, select "None" from the list below.

****Species:** B. impatiens (Common Eastern) ▼

****Sex:** Please select... ▼

****Number Observed:**

Comments about observation:

SAVE **Cancel**

Submitting Data

wiatri.net/inventory/bbb

WI Bumble Bee Brigade - Upload Photo

- Please keep images smaller than 1Mb. Only images with the .jpg/.jpeg file extension will be accepted.
- Click on the "Browse" or "Choose File" button (depending upon browser) to locate your image, and then click the "Load Image" button.
- Upload could take some time depending upon the size of the image and your connection speed.
- If you receive an error while trying to upload, refresh your browser and try again. It may require several attempts before it works. If the error persists, please [email your photo](#), and indicate on your report that a photo was sent.
- You may upload up to 5 photos (3 is preferred). For information on selecting which photos to submit, please see the [volunteer manual](#).

 Browse...

Load Image

Cancel

Submitting Data

wiatri.net/inventory/bbb

Browser address bar: <http://wiatri.net/inventory/bbb/submitData/Secure/obsSummary.cfm>

Wi BBB - Observation Sum... x


WI Bumble Bee Brigade - Observation Details

[Account](#) / [Site Details](#) / [Survey Details](#) / Observation Details

Bombus impatiens (Common Eastern Bumble Bee)

1 Female Edit

Count includes queen



[Delete](#)

(Click image to enlarge it.) Add Photo Back to Survey Details

Submitting Data wiatri.net/inventory/bbb

WI Bumble Bee Brigade - Survey Details

[Account](#) / [Site Details](#) / [Survey Details](#)

Site: **Ochsner Park**



[Edit Survey Location](#)

Survey Type: Small Area

Survey Date: 25-Apr-2018

Start Time: 8:01 AM

End Time: 8:07 AM

Primary Observer: Eva Lewandowski

Land use: Urban/Suburban/Rural Development

Survey Location: From Park street, head towards bottom of big field. Survey was along woods/field border. fake fake fake

Survey Comments: fake

[Edit](#)

[+ Add Observation](#)

[Back to Site Details](#)

My Observations (Click on name to open observation details.)

 1 Female *Bombus impatiens* (1 photo) - **unverified**

