

Pollinator Steward Certification



A PROGRAM OF
POLLINATOR PARTNERSHIP

Module 1: Introduction to Pollinators

Tuesday, February 10, 2026

Anthony Colangelo
Education Manager

Lora Morandin, PhD
Associate Director

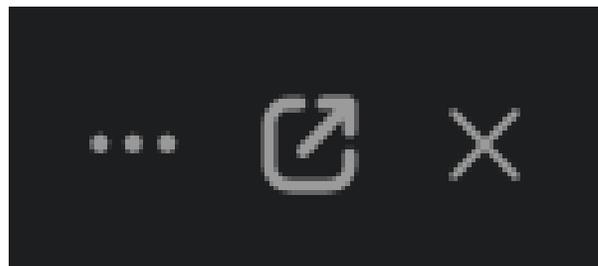
www.pollinator.org
stewards@pollinator.org

**POLLINATOR
PARTNERSHIP**
Protect their lives. Preserve ours.

Wordly Translation Services



AI Translation & Captions



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Land Acknowledgment

The land where I live and work is located on Chief Drygeese territory. From time immemorial, it has been the traditional land of the Yellowknives Dene First Nation.



Meet Your PSC Instructors!



Anthony Colangelo
Education Manager
Pollinator Partnership



Lora Morandin, PhD
Associate Director
Pollinator Partnership



Program Assistance!

Avery Roe

Program Associate

Pollinator Partnership

About Pollinator Partnership

Pollinator Partnership is the world's largest nonprofit dedicated exclusively to the health of all pollinating animals. For over 25 years, our mission has been to promote the health of pollinators, critical to food and ecosystems, through conservation, education, and research.



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More about Pollinator Partnership



Where We Work

We work with our partners across North America and the world to preserve native and migratory pollinators and the ecosystems they support.



Our Partners

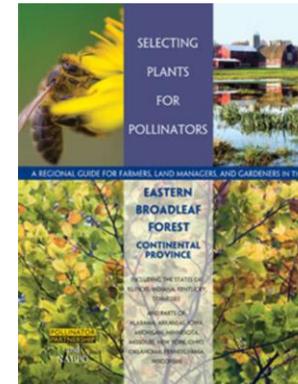
We believe that everyone needs to be engaged to provide support for pollinators. We work with a diverse set of partners including governments, universities, private industry, and other nonprofits to make this happen.



Our Programs

Our programs are designed to bring every stakeholder together to tackle pollinator decline and biodiversity loss.

Programs from Pollinator Partnership:



TheBeeMD

www.pollinator.org



Steps to Certification:

Step 1) Watch the virtual training modules live or recorded. Once complete, a short learning form must be filled out to share training takeaways.

Step 2) Completion of one habitat creation action and one outreach or education action. A similar short form must be filled out by the following year.



Details to Steps:

1. After all modules are complete in April, the Step 1 form will be emailed to you to share your training takeaways.

NOTE: We suggest that you write down in point form or 1-2 sentences the key takeaways from each training while you are attending live.

2. After you have watched all the modules live or recorded, transfer your answers into the Step 1 form by December 31st, 2026.

NOTE: Participants will be expected to share training takeaways for only one of the “Habitat Creation” modules (modules 5a, b, or c).

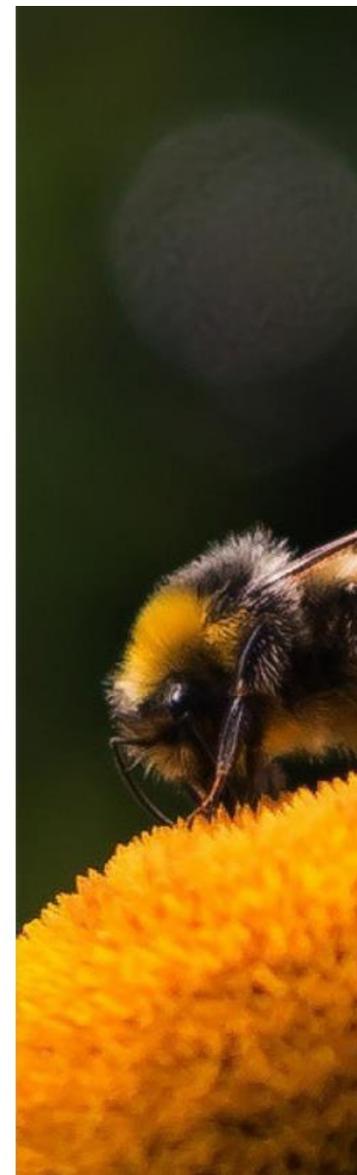


PSC Step 1: Module Summaries

a) Summarize in one or two sentences what you learned from Module 1: Introduction to Pollinators. *

b) Summarize in one or two sentences what you learned from Module 2: Indigenous Perspectives. *

c) Summarize in one or two sentences what you learned from Module 3: Butterflies and Other Pollinators. *



Details to Steps:

3. Step 1 is complete and you are now on Step 2. Complete your habitat and outreach actions. You may then fill out the Step 2 form describing your work and submit by September 30th, 2027.

4. Once both Step 1 and Step 2 forms have been submitted and approved, you will receive a certificate of completion, and the authority to use the Pollinator Steward stamp!



PSC Step 2: Habitat and Outreach Action Details

1. Describe in 1-2 paragraphs what HABITAT activities you have conducted within the last year for pollinators. *

2. Provide at least one picture showing your habitat work. *



Browse Files
Drag and drop files here

3. Describe in 1-2 paragraphs what OUTREACH activities you have conducted within the last year for pollinators. *



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CERTIFICATE OF COMPLETION
POLLINATOR STEWARD

THIS DOCUMENT ACKNOWLEDGES THAT

Your Name

Has successfully completed the requirements to become a
Certified Pollinator Steward by Pollinator Partnership Canada

_____ Date



_____ Anthony Colangelo
Instructor

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Step 2 Habitat Actions:

- Creation of pollinator habitat; any size, any location.
- Creating pollinator and garden signage.
- Alteration of management practices to promote pollinator health.
- Email stewards@pollinator.org if you have a question about your habitat action.



Step 2 Outreach Actions:

- Creating pollinator and garden signage.
- Connecting with other community members and schools to spread pollinator education.
- Art/science outreach through crafts and installations.
- Email stewards@pollinator.org if you have a question about your outreach or education action.





Pollinator Stewards Around the World!



PSC Member Benefits :

Thank you for being a part of our program!

- Access to bonus webinars and resources
- Notified about special events happening at Pollinator Partnership
- Access to our PSC Facebook group that connects all past and current participants
- First to hear about discounts on pollinator posters and resources!



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Course Information Page:

The Course Information page will be your homebase for module recordings, updates, and program resources. Login to the Course Information page using the following username and password:

website: <https://www.pollinator.org/psc/course-info>

username: PollinatorSteward

password: psc2026

Please do not share the username and password as this page is only for registered participants of the 2026 Pollinator Steward Certification program.



Pollinator Steward Certification

2026 Program Outline



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Protect their lives. Preserve ours.



Pollinator Steward Certification Schedule 2026

All Zoom sessions will take place at 4:00 p.m. to 5:30 p.m. PST / 7:00 p.m. to 8:30 p.m. EST

Session 1 – Introduction to Pollinators

Tuesday, February 10

Session 2 – Indigenous Perspectives

Tuesday, February 17

Session 3 – Butterflies, Moths, and Other Overlooked Pollinators

Tuesday, February 24

Session 4 – Creating Habitat for Pollinators Overview

Tuesday, March 3

Session 5a – Habitat Creation: Home Gardens, Yards, Balconies

Tuesday, March 10

Session 5b – Habitat Creation: Large Land Managers, Right-of-Ways, and Municipalities

Wednesday, March 11

Session 5c – Habitat Creation: Farmers, Growers, and Agricultural Landscapes

Thursday, March 12

Session 6 – Pollinator Identification and Monitoring

Tuesday, March 31

Session 7 – Expand your Impact!

Tuesday, April 7

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Housekeeping:

- Recordings will be shared by the following week, and be available until December 31st, 2026
- Closed captioning is available – enable in your controls.
- Please put questions in the Q&A box!
- Questions for panelists will be answered at the end of the session.
- Contact stewards@pollinator.org for registration issues, questions, etc.
- Engage in respect and kindness with each other in the chat.
- **Tonight – the Moderator’s Choice Award for favorite question!**



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Invasive species



Pesticides



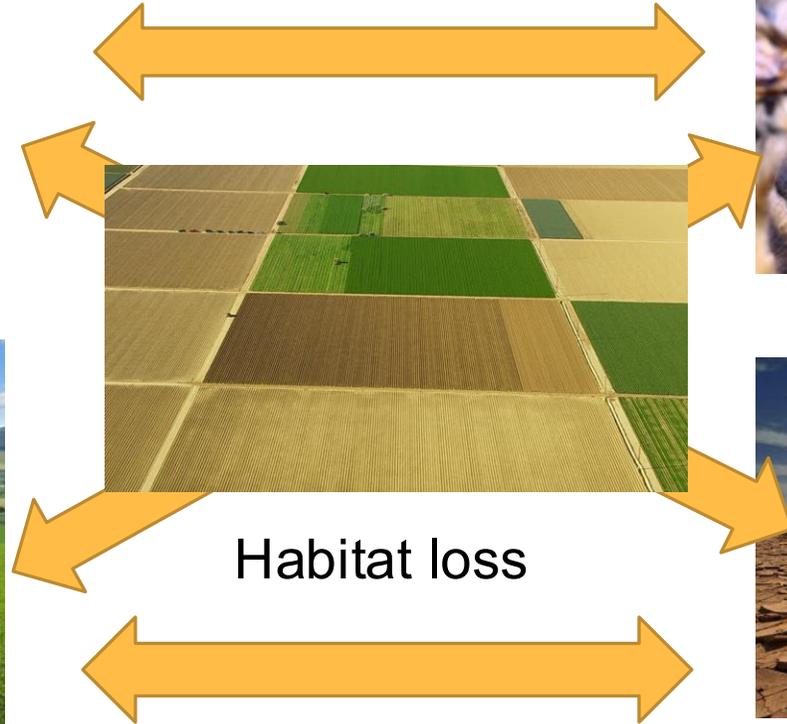
Habitat loss



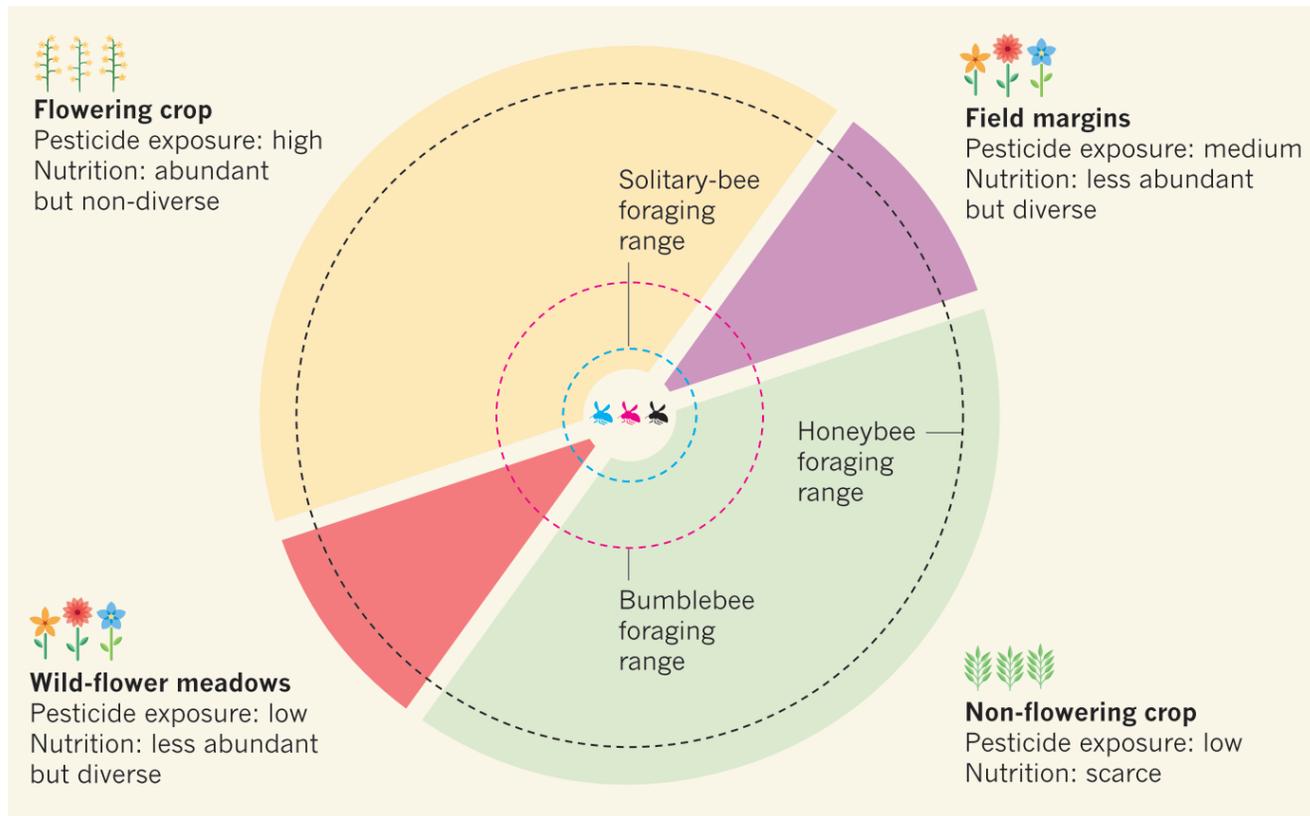
Parasites, Diseases



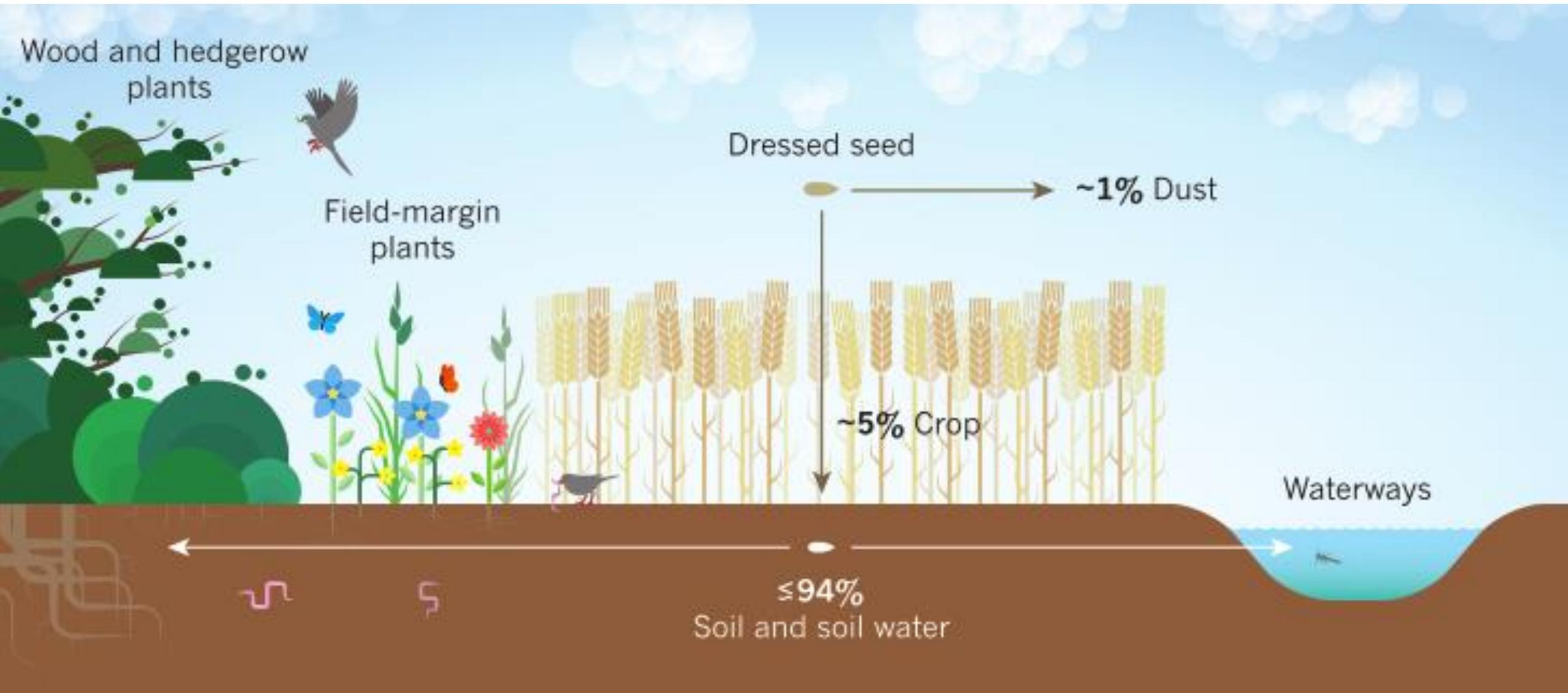
Climate change



Habitat Loss and Fragmentation



Pesticides Movement Through Ecosystems



Pesticides Lethal and Sublethal Impacts

POTENTIAL PESTICIDE IMPACTS ON BEES

Bees can be impacted lethally or sublethally by pesticides. For more information, see Recognizing and Reporting a Bee Poisoning in the Resources section on p.36.

Lethal

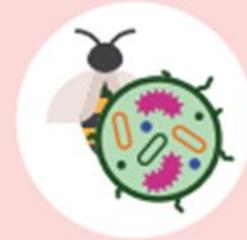


increased bee death

Sublethal



increased susceptibility to pests and diseases



alteration of gut microbiome



decreased reproduction



learning and memory impairment



impaired orientation



reduced foraging

Parasites and Pathogens

Mites, Viruses, Protozoans, Bacteria, Fungi, Parasitoids



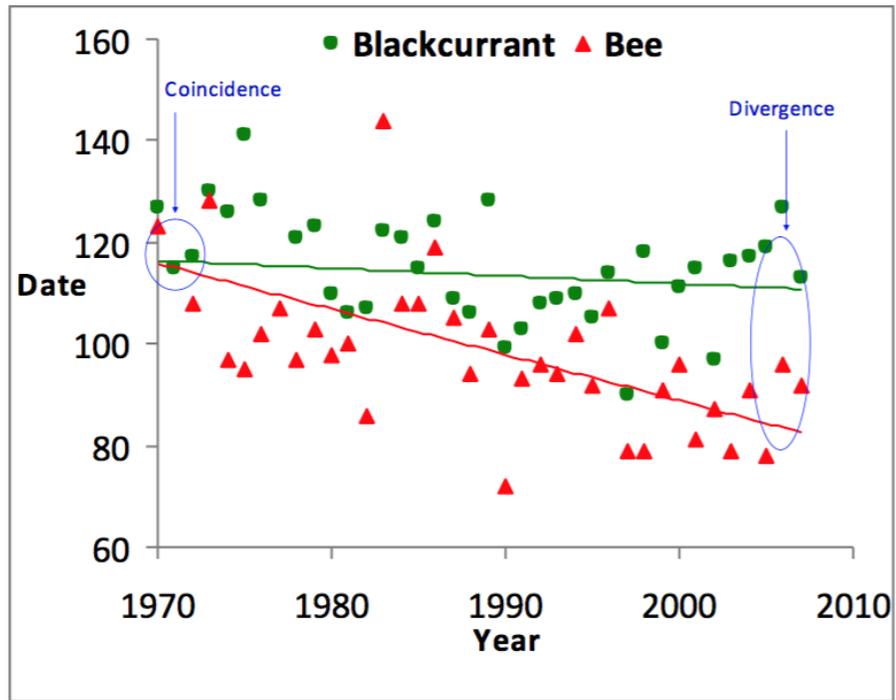
Denis Anderson, 2007 CC-BY-SA 4.0



[This Photo](#) of deformed wing virus by Unknown Author is licensed under [CC BY-SA-NC](#)

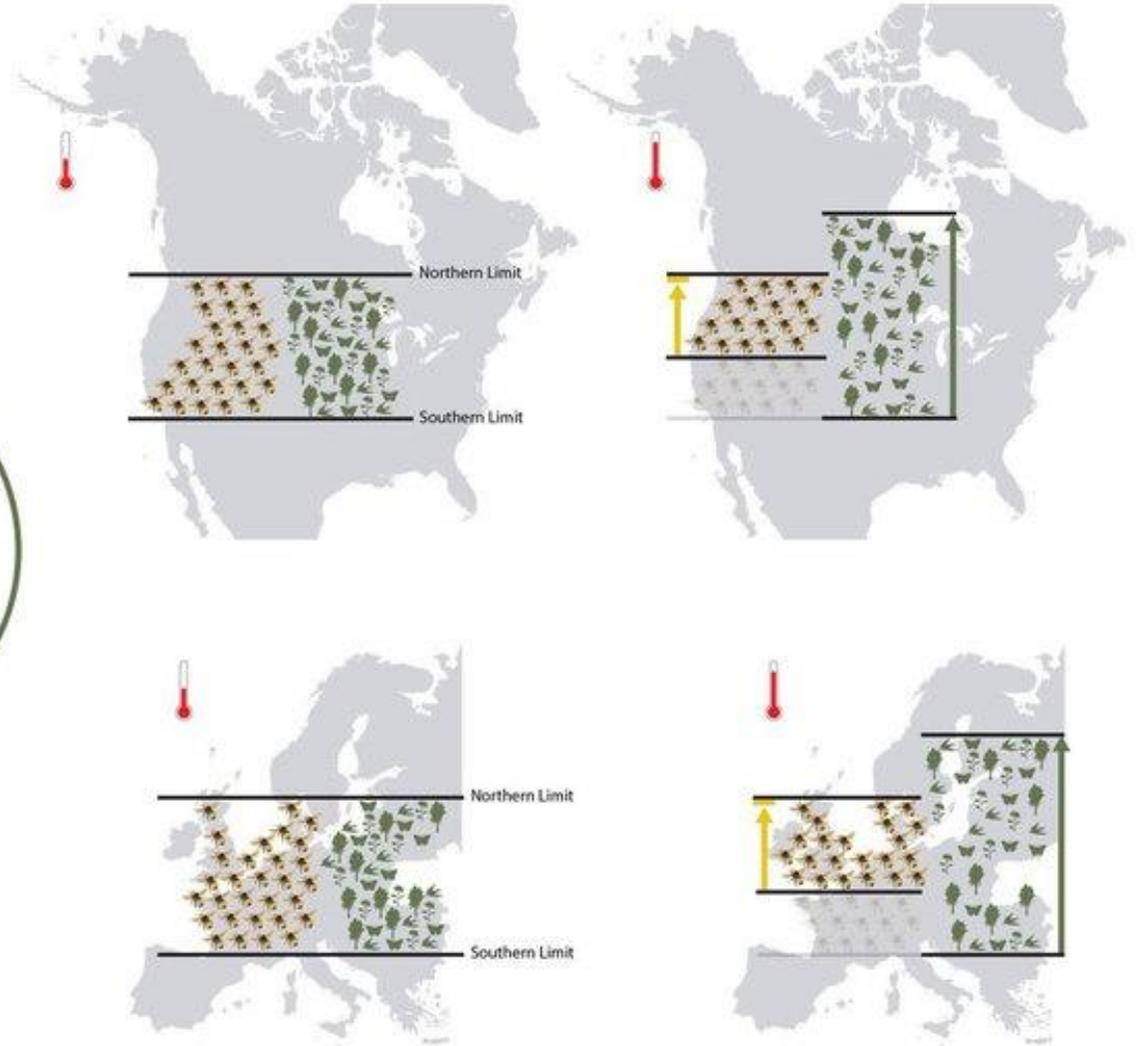
Climate Change Effects

Plant Relationships



Climate Change Effects

Range Contractions



Kerr et al. 2015

Climate Change and Migratory Pollinators

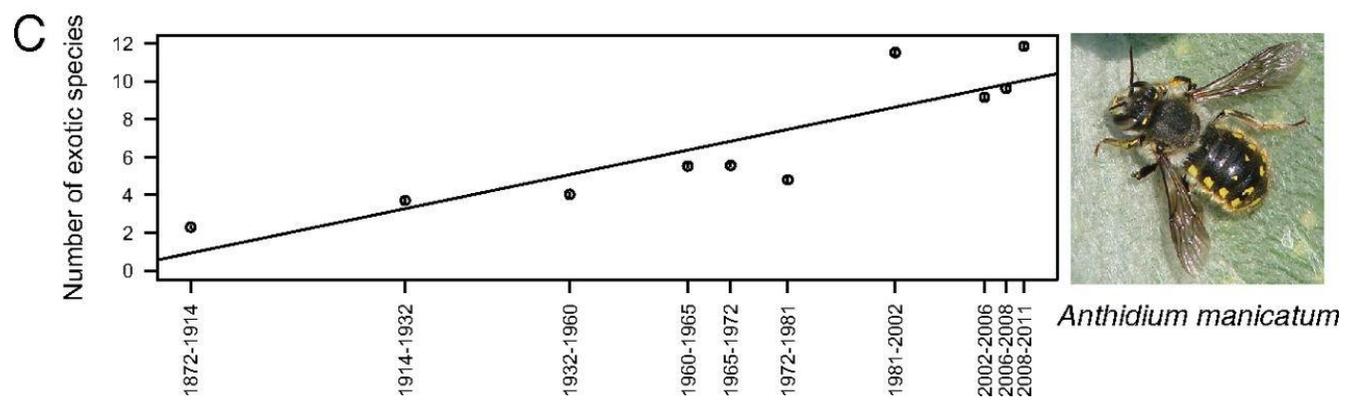
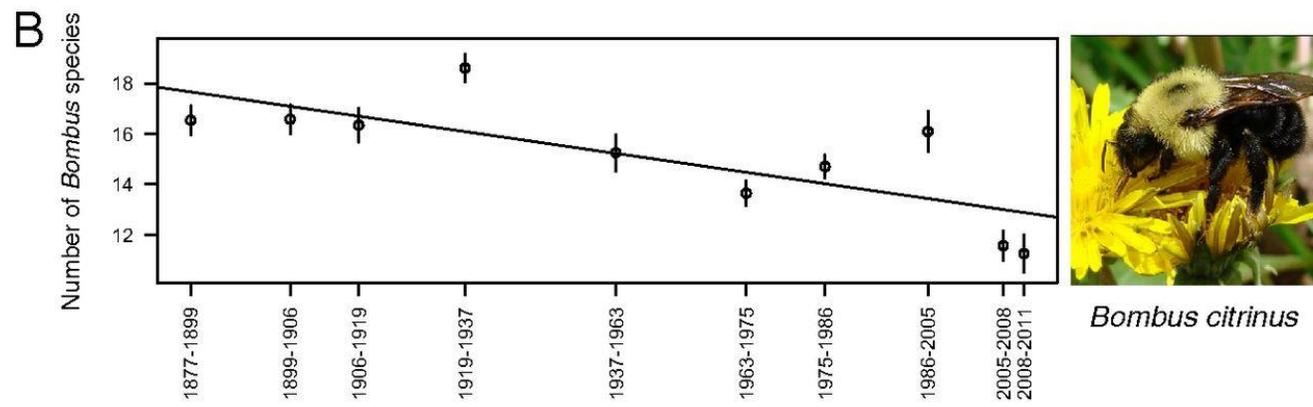
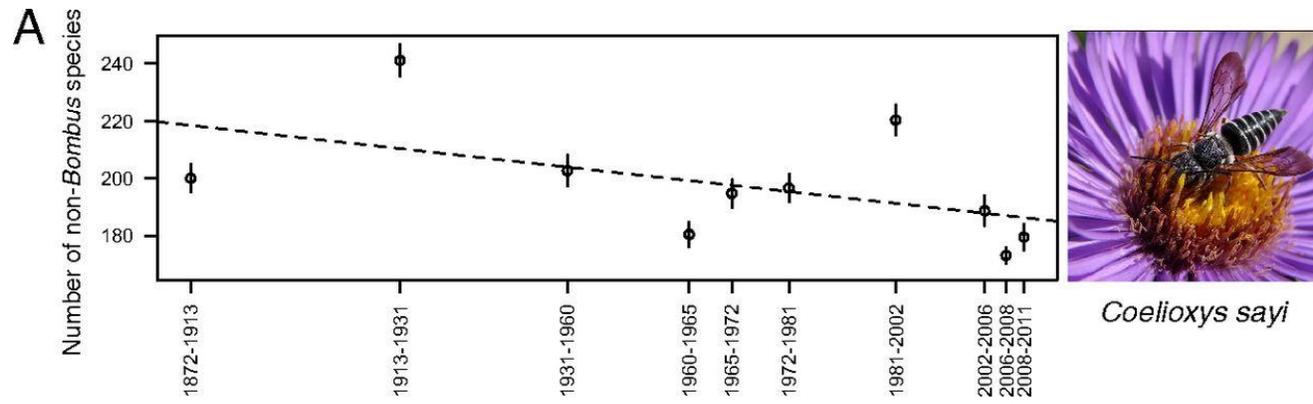


Invasive Species

Changing Habitat Composition

- Naturalized or invasive
- Positive, neutral, or negative effects
- Disrupt plant-pollinator relationships
- Shift community composition





Pollinators Federally-listed as Endangered or Threatened Species

Mammals

Little Mariana fruit bat ([Pteropus tokudae](#))
 Mariana Fruit Bat ([Pteropus mariannus mariannus](#))
 Mexican Long-nosed Bat ([Leptonycteris nivalis](#))

Birds

Akeke'e or Kaua'i 'Akepa or ([Loxops caeruleirostris](#))
 'Akiapola'au ([Hemignathus wilsoni](#))
 'Akikiki ([Oreomystis bairdi](#))
 'Akohekohe or Crested Honeycreeper ([Palmeria dolei](#))
 'Alala or Hawaiian Crow ([Corvus hawaiiensis](#))
 Bridled White-eye ([Zosterops conspicillatus conspicillatus](#))
 Hawai'i 'Akepa ([Loxops coccineus](#))
 Hawai'i Creeper ([Loxops mana](#)) [1]
 'I'iwi ([Drepanis coccinea](#))
 Kaua'i 'Akialoa ([Akialoa stejnegeri](#))
 Kaua'i Nukupu'u ([Hemignathus hanapepe](#))
 Kaua'i 'O'o ([Moho braccatus](#))
 Ma'oma'o or Mao ([Gymnomyza samoensis](#))
 Maui 'Akepa ([Loxops ochraceus](#))
 Maui Nukupu'u ([Hemignathus affinis](#))
 Maui Parrotbill ([Pseudonestor xanthophrys](#))
 Moloka'i Creeper or Kakawahie ([Paroreomyza flammea](#))
 O'ahu 'Alauahio or O'ahu Creeper ([Paroreomyza maculata](#))
 'O'u ([Psittirostra psittacea](#))
 Palila ([Loxioides bailleui](#))
 Po'ouli ([Melamprosops phaeosoma](#))
 Rota Bridled White-eye ([Zosterops rotensis](#))
 [1] Still listed in some locations by its former scientific name, [Oreomystis mana](#)

Bees

Anthriscan yellow-faced bee ([Hylaeus anthracinus](#))
 Assimulans yellow-faced bee ([Hylaeus assimulans](#))
 Easy yellow-faced bee ([Hylaeus facilis](#))
 Hawaiian yellow-faced bee ([Hylaeus kuakea](#))
 Hawaiian yellow-faced bee ([Hylaeus longiceps](#))
 Hawaiian yellow-faced bee ([Hylaeus mana](#))
 Hilaris yellow-faced bee ([Hylaeus hilaris](#))
 Rusty patched bumble bee ([Bombus affinis](#))

Butterflies, Skippers, and Moths

Bartram's hairstreak butterfly ([Strymon acis bartrami](#))
 Bay Checkerspot ([Euphydryas editha bayensis](#))
 Behren's Silverspot ([Speyeria zerene behrensii](#))
 Blackburn's Sphinx Moth ([Manduca blackburni](#))
 Callippe Silverspot ([Speyeria callippe callippe](#))
 Carson Wandering Skipper ([Pseudocopaeodes eunus obscurus](#))
 Cassius Blue ([Leptotes cassius theonus](#)) [Listed due to similarity in appearance to Miami blue.]
 Ceraunus Blue ([Hemiargus ceraunus antibubastus](#)) [Listed due to similarity in appearance to Miami blue.]
 Dakota Skipper ([Hesperia dacotae](#))
 El Segundo Blue ([Euphilotes battoides allyni](#))
 Fender's Blue ([Icaricia icarioides fenderi](#))
 Florida leafwing ([Anaea troglodyta floridaalis](#))
 Karner Blue ([Lycaeides melissa samuelis](#))
 Kern Primrose Sphinx Moth ([Euproserpinus euterpe](#))
 Laguna Mountains Skipper ([Pyrgus ruralis lagunae](#))
 Lange's Metalmark ([Apodemia mormo lange](#))
 Lotis Blue ([Lycaeides argyrognomon lotis](#))
 Mariana eight-spot butterfly ([Hypolimnas octocula mariannensis](#))
 Mariana wandering butterfly ([Vagrans egistina](#))
 Miami Blue ([Cyclargus thomasi bethunebakeri](#))
 Misson Blue ([Icaricia icarioides missionensis](#))
 Mitchell's Satyr ([Neonympha mitchellii mitchellii](#))
 Mount Charleston Blue ([Plebejus shasta charlestonensis](#))
 Myrtle's Silverspot ([Speyeria zerene myrtleae](#))
 Nickerbean Blue ([Cyclargus ammon](#)) [Listed due to similarity in appearance to Miami blue.]
 Oregon Silverspot ([Speyeria zerene hippolyta](#))
 Palos Verde Blue ([Glaucopsyche lygdamus palosverdesensis](#))
 Pawnee montane Skipper ([Hesperia leonardus montana](#))
 Poweshiek skipperling ([Qarisma poweshiek](#))
 Quino Checkerspot ([Euphydryas editha quino](#))
 San Bruno Elfin ([Callophrys mossii bayensis](#))
 Schaus Swallowtail ([Heraclides aristodemus ponceanus](#))
 Smith's Blue ([Euphilotes enoptes smithi](#))
 St. Francis' Satyr ([Neonympha mitchellii francisci](#))
 Taylor's checkerspot ([Euphydryas editha taylori](#))
 Uncompahgre Fritillary ([Boloria acrocnemata](#))

Other Insects

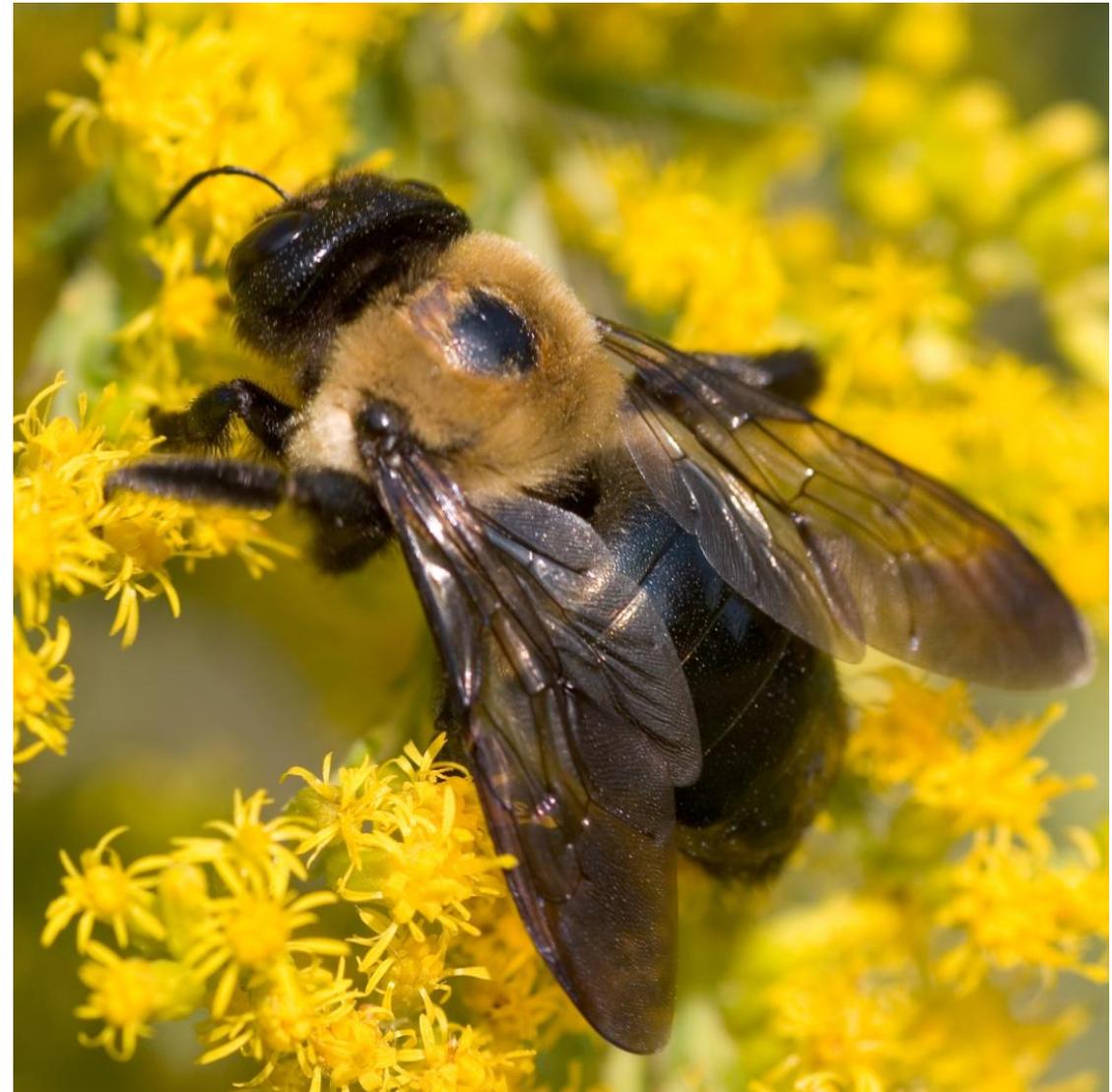
Delhi Sands Flower-loving Fly ([Rhaphiomidas terminatus abdominalis](#))
 Valley Elderberry Longhorn Beetle ([Desmocerus californicus dimorphus](#))

Wrap Up and Next Session:

- Recordings and resources will be shared on the Course Information page by the end of the week.
- Tuesday, February 17th, 4pm PST / 7pm EST
 - Module 2: Indigenous Perspectives – featuring Brad Howie, Manoomin Learning
 - Use the same Zoom link that you used today to join future modules. Zoom will also send a reminder email with the link one day, and one hour before each module.



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