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Module 10: Garden Ecology

Urban EcoLab

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March 2023

## PowerPoint - Attracting Pollinators

Center for Urban Resilience

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# Attracting Pollinators

## Module 10 - Garden Ecology Lesson 9: Attracting Pollinators

**Pollinator Pathways**

From south to north and back again, the miraculous seasonal migrations of North American pollinators in search of food, forage and nesting sites are fragile, awe-inspiring treasures. To find out more about pollinator migrations and the plants they visit on their journeys, go to [www.pollinator.org](http://www.pollinator.org).

Del sur al norte y de retorno, las migraciones estacionales milagrosas de los polinizadores Norte Americanos buscando alimento y sitios de anidación son frágiles e impresionantes tesoros. Para obtener más información sobre migraciones de polinizadores y las plantas que visitan en sus viajes, vaya a [www.pollinator.org](http://www.pollinator.org).

De sud au nord et de retour du nord au sud, les miraculeuses migrations saisonnières des pollinisateurs d'Amérique du Nord en quête de nourriture et de lieux de nidation sont fragiles. Ces migrations sont à couper le souffle. Pour en savoir plus sur les migrations des pollinisateurs et les fleurs qu'ils visitent lors de leurs voyages, aller sur [www.pollinator.org](http://www.pollinator.org).

Labels in the illustration include: Rufous Hummingbird, Monarch Butterfly, Ruby-throated Hummingbird, Brown Long-eared Bat, and Ruby-throated Hummingbird.

Art and Design: Susan R. Schmitt

**POLLINATOR PARTNERSHIP** UAS NAPPCC AHP NRC CANPOLIN WILDLIFE HABITAT COUNCIL

UNITED STATES BOTANIC GARDEN MONARCH BIODIVERSITY TOYOTA Wynn's BOEING Saint Louis Zoo NERC CANPOLIN CANADIAN POLLINATION INITIATIVE

APHIS Smithsonian National Museum of Natural History BAT CONSERVATION INTERNATIONAL AHPA Animals Always

## Part I. Vocabulary Review

- **pollination**: the transfer of **pollen** from an anther to the stigma in flowering plants (angiosperms) or from the microsporangium to the micropyle in gymnosperms
- **pollen**: a mass of microspores in a seed plant appearing usually as a fine dust
- **pollinator**: an agent (such as an insect, bird, mammal) that **pollinates** flowers

## Part II. Lesson Activator: Watch-Think-Write Video Clip-Ted Talk

- Watch in the next video clip, how adept (skilled) pollinators are at carrying **pollen** from one plant to the next.
- As you watch the video clip, use the Student Handout to write down all the **pollinators** you observe.
- Think about the vital (important) role they play in the **pollination** of plants, many of which are the foods we eat.

# The hidden beauty of pollination

Louie Schwartzberg *at* TED2011



Beauty and seduction are nature's tools for survival, says Louie Schwartzberg introducing his stunning short video on pollination at a TED conference last March, "because we will protect what we fall in love with."

Pollination, says Cinematographer Schwartzberg, represents the connection between the animal and plant worlds and "is truly a magic moment, when life regenerates itself over and over again."

<http://www.franceseschultz.com/2777/>

[https://www.ted.com/talks/louie\\_schwartzberg\\_the\\_hidden\\_beauty\\_of\\_pollination?language=en](https://www.ted.com/talks/louie_schwartzberg_the_hidden_beauty_of_pollination?language=en)

## Part III. Think-Write-Pair-Share

- Use the Student Handout to answer the following question:
  - What other animals that were not shown in the video clip, might also be vital **pollinators** in our ecosystems on Earth?
  - Write at least five (5).
    - 2 MINUTES – THINK-WRITE (independently)
    - 2 MINUTES - PAIR-SHARE (turn-talk-share with a partner)

# Pollinators need you. You need pollinators.



Birds, bats, bees, butterflies, beetles, and other small mammals that pollinate plants are responsible for bringing us one out of every three (1/3) bites of food.

Some of the many foods that rely on pollinators

<http://pollinator.org/pollinators>

# CELEBRATE NATIVE POLLINATORS!

These critical creatures make enormous contributions to thriving food crops and plants in our everyday world.



Gardening with native plants encourages healthy biodiversity and solutions to feeding an already hungry planet. Take action and participate in a Native Plant and Pollinator Program near you.



For More Information Visit:  
[fs.fed.us/wildflowers/](https://fs.fed.us/wildflowers/)  
Join us at:  
[WildlifeForever.org](https://WildlifeForever.org)





# Theodore Payne Foundation Video on Native Plants in Your Garden

IV Organic

Published on Oct 3, 2016

Charles Malki, Biologist & Plant Expert From IV Organic (<http://ivorganics.com/>) interviews Lisa Novick, Director Of Outreach at the Theodore Payne Foundation (<http://theodorepayne.org/>)

Full Video Production by JD Sebastian  
19:12 Minutes



Learn the importance of growing native plants in your garden-- no matter where you live, to support the local biology and restoring the habitat (homes) for so many insects, birds, mammals-- the entire food chain-- who's lives depend on YOU to install homes by planting native plants into your home gardens.

**You will be rewarded with more pollinators, that in turn will benefit the fruitfulness of your vegetable gardens and fruit trees as well!**

[https://www.youtube.com/watch?v=SwmXb\\_53ss4](https://www.youtube.com/watch?v=SwmXb_53ss4)

# How to register your garden as a **Wildlife Habitat Yard**

- 1) Audubon At Home <http://audubonathome.org/>
- 2) National Wildlife Federation  
<http://www.nwf.org/gardenforwildlife/create.cfm?CFID=7177856&CFTOKEN=176461acda590e96-4839F373-5056-A868-A0F00601F3124B08>
- 3) Monarch Waystation Program  
<http://www.monarchwatch.org/waystations/certify.html>
- 4) Xerces Society <http://www.xerces.org/bringbackthepollinators/>

## **POLLINATOR PARTNERSHIP**

Protect their lives. Preserve ours.

The Pollinator Partnership is a non-profit 501(c)3 organization and the largest in the world dedicated exclusively to the protection and promotion of pollinators and their ecosystems.

- Go to this website for more resources on pollinators: <http://www.pollinator.org/>



## Why do this?

- Your garden will come alive.
- You'll learn new things about plants and the animals that pollinate them.
- You'll love your garden!



# More Resources on Pollination and Pollinators

- <https://xerces.org/pollinator-conservation/gardens/>
- <http://millionpollinatorgardens.org/>
- <https://www.fws.gov/midwest/news/PollinatorGarden.html>
- <https://www.fs.fed.us/wildflowers/pollinators/gardening.shtml>
- <https://www.sciencenews.org/article/native-pollinators-boost-crop-yields-worldwide>
- <https://www.pollinator.org/>
- <https://www.journeynorth.org>