

## Pollinators

### What are They?

Pollinators are organisms that transport pollen from the male anther of a flower to a female stigma. This process results in the production of seeds and allows the flowers to reproduce.

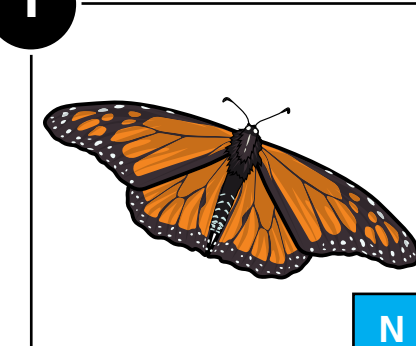

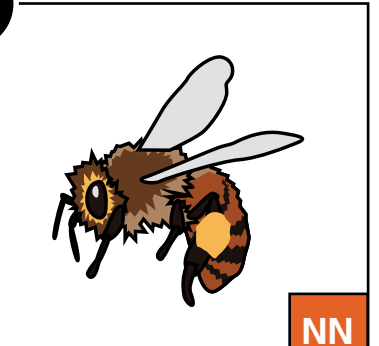
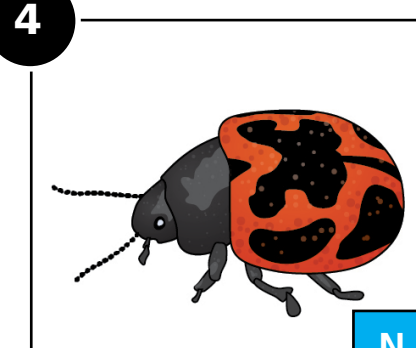
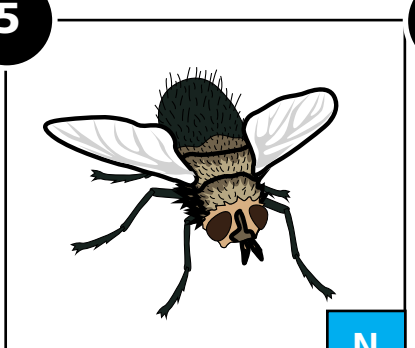
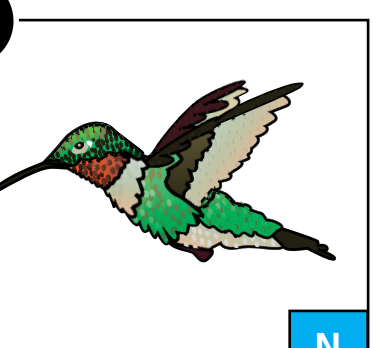

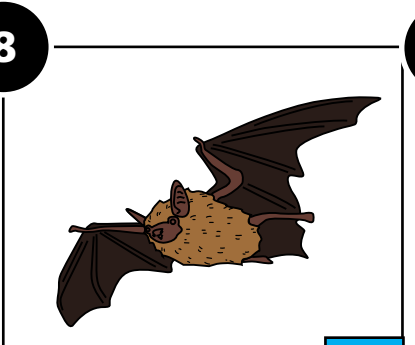
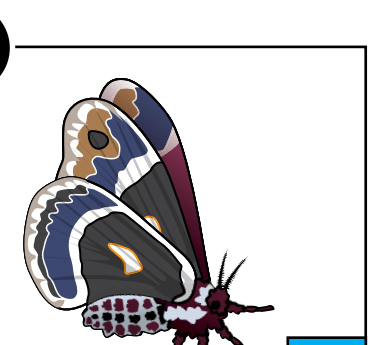
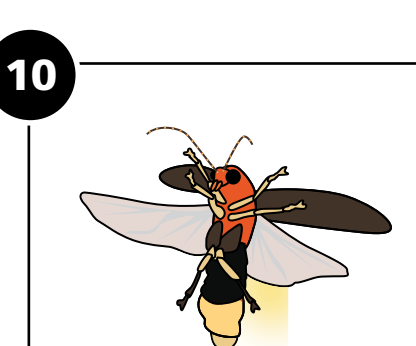
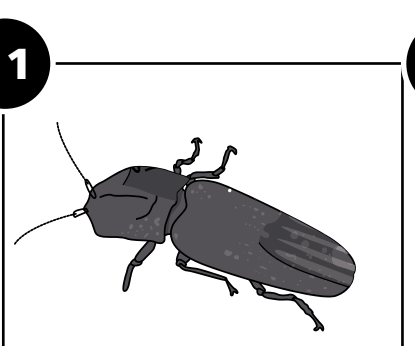
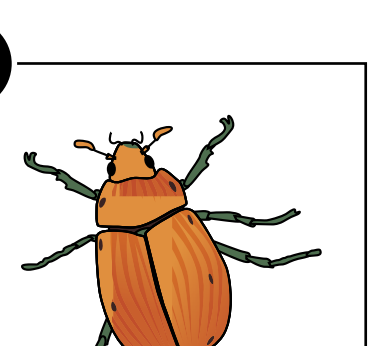
Major pollinators in Kenilworth Park and Aquatic Gardens include ants, bats, bees, beetles, birds, butterflies, flies, moths, wasps, and more.

### Why are They Important?

Since they are vital for plant reproduction, pollinators therefore play a huge role in the ecosystem. This relationship isn't one-sided- it has benefits for all parties involved. While the plants get to spread their pollen with the help of the pollinators, the pollinators in return get to drink the nectar from the plants as a food source.

Pollinators affect humans as well, as many of the resources and products we use daily are a result of the pollination process, including the food we eat, medicines that come from plants, cotton materials, and much more.

## Iconic Pollinators of Kenilworth

 <b>1</b> Eastern Monarch Butterfly <i>Danaus plexippus</i>	 <b>2</b> Eastern Tailed Blue Butterfly <i>Cupido comyntas</i>	 <b>3</b> Common Western Honey Bee <i>Apis mellifera</i>
 <b>4</b> Milkweed Beetle <i>Lygaeidae</i>	 <b>5</b> Black Fly <i>Tachinidae</i>	 <b>6</b> Ruby Throated Hummingbird <i>Archilochus colubris</i>
 <b>7</b> Eastern Red Bat <i>Lasiurus borealis</i>	 <b>8</b> Big Brown Bat <i>Eptesicus fuscus</i>	 <b>9</b> Cecropia Moth <i>Hyalophora cecropia</i>
 <b>10</b> Firefly <i>Lampyridae</i>	 <b>11</b> Click Beetle <i>Elateridae</i>	 <b>12</b> Grapevine Beetle <i>Pelidnota punctata</i>

## Types of Pollinators at Kenilworth

### Day (Diurnal)

**Day Pollinators**

Day pollinators— like honey bees and butterflies— pollinate plants that bloom during the day. The majority of pollinators are day pollinators, and typically visit plants on warm, sunny days.

**Native Species** (N)  
**Non-Native Species** (NN)

### Night (Nocturnal)

**Night Pollinators**

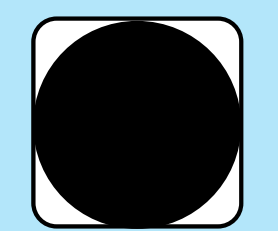

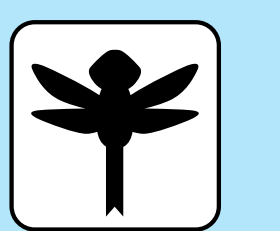
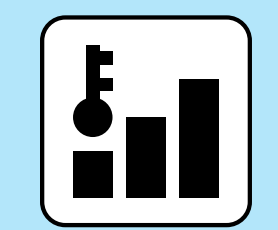
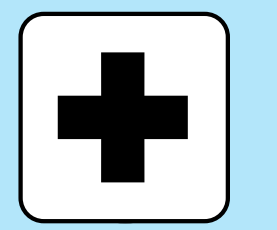
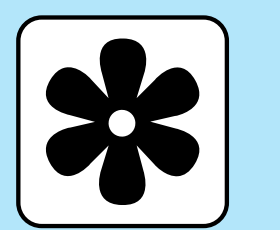
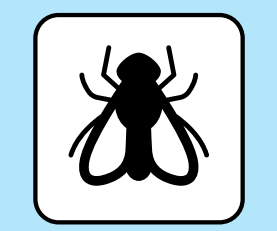
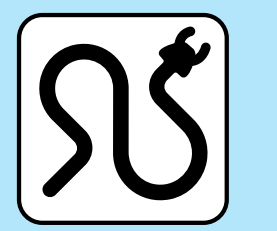
Moths and bats are two examples of night pollinators, dubbed by many as 'night shift employees'. These pollinators are generally attracted to pale or white nocturnal flowers (i.e., those that bloom during the night).

They typically pollinate plants that are skipped over during the day by other pollinators. [2] Nighttime pollinators are negatively affected by artificial lighting, especially in concentrated urban areas like D.C.



## Disappearance of Pollinators

Pollinators are highly impacted by environmental forces, including

 <b>Pesticides</b>	 <b>Habitat Loss</b>	 <b>Predators</b>
 <b>Climate Change</b>	 <b>Disease</b>	 <b>Decreasing Food Availability</b>
 <b>Competition from non-native species</b>	 <b>Parasites</b>	

## Climate Change Impacts on Pollinators

**Increasing temperatures**  
Increasing temperatures, especially during the spring season in this region, will lead to plants blooming sooner than usual.

**Drought**  
In periods of drought, which couples warming temperatures along with periods of no precipitation, flowers produce less nectar to conserve energy. Less nectar means pollinators are not getting the amount of calories and sugar that they need, which can lead to smaller colonies of pollinators, and less offspring produced.[1]

**Impact on Monarchs**  
Since monarchs are sensitive to temperature and climate, climate change is affecting the biological processes of the monarch.

Additionally, extreme weather events, which are exacerbated by climate change, play a role in their survival. Storm surges from tropical storms and hurricanes affect not only the butterflies, but also the survival of milkweed.

Changing temperatures affects their ability to know when to reproduce and migrate; when spring comes early, monarchs may head north before the milkweed has developed enough. If they arrive before the milkweed has developed, they do not have a place to lay their eggs.

Droughts are expected to increase globally as a result of climate change, making this a major concern for ecosystems like those found at KEPA.



## Ways to Help Pollinators

 <b>Turn off lights at night to protect night pollinators</b>	 <b>Support the pollination process by planting a garden in your own yard</b>
 <b>Support land conservation by helping to maintain community gardens and green spaces</b>	 <b>Reduce or eliminate the use of pesticides in your yard</b>

For More Information, please visit:



[nps.gov/keaq](https://www.nps.gov/keaq)



[iNaturalist.com](https://www.inaturalist.com)



[kenaqgardens.org](https://www.kenaqgardens.org)