



# School Pesticide Monitor

A Bi-Monthly Bulletin on Pesticides and Alternatives  
Beyond Pesticides, 701 E Street SE, Suite 200, Washington, DC 20003  
info@beyondpesticides.org ■ www.beyondpesticides.org

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## Students Celebrate Pollinators by Spreading Bee and Butterfly Habitat

As the end of the school year approaches, two first grade classrooms at local District of Columbia Public Schools (DCPS) got to learn about the importance of pollinators firsthand when DC-based nonprofit Beyond Pesticides visited their school.

In a lead up to National Pollinator Week, Beyond Pesticides teamed up with owner and founder of *The Bees Waggle*, Jessica Goldstrohm, to provide a fun, hands-on lesson about pollination, and why it is important to our food system. Students were given a lesson on biodiversity, soil health, and the negative effects of pesticides on

pollinators before building some pollinator-friendly habitat for their schools and homes.

The day of learning kicked off at Brightwood Education Campus, located in Northwest DC, where students listened to a lesson developed by Ms. Goldstrohm, who donned a set of bee wings for the event. After receiving some background on the role of pollinators in our food system, the children participated in several hands on activities that reiterated the key points within the curriculum. Six volunteers stepped to the front of the class to demonstrate the interconnectedness

of all living organisms by participating in a biodiversity web simulation. Here, the scholars learned that if one organism in a food system starts to take more than its fair share of resources, the rest of the web find itself out of balance. At the end of the lesson, students each crafted their own small "bee hotel" before heading outside to plant a butterfly box in their garden.

This box will serve as nesting habitat for migrating butterflies, including the monarch, which have experienced rapid population declines over recent years. Loss of habitat around geneti-  
*...continued on reverse*



## Curriculum

...continued from reverse  
cally engineered (GE) cropland, as well as increasingly warm temperatures are responsible for these declines, according to scientists who say populations are the lowest they have seen in two decades. Additionally, in 2015 new research from the University of Minnesota presented some of the first evidence linking the bee-killing insecticides known as neonicotinoids to monarch butterfly deaths. The study found that milkweed plants, which monarch butterflies need to survive, may also retain neonicotinoids from nearby plants, making milkweed toxic to monarchs.

Later in the day, the educational team moved to Northwest DC where they visited first grade scholars at J.O. Wilson Elementary School. Here the children received a similar lesson, this time dividing into groups to apply the information they had learned to solve puzzles about food systems. Working as a team, the students had to figure out how to place several pictures in an order that would represent how a food system worked from start to finish. For example, one puzzle began with a bee, who then pollinated clover seeds, allowing that clover to grow and be fed on by a cow, who eventually provided milk for humans to drink.

The children enjoyed using their critical

thinking skills to figure out the role of pollinators in providing food, and used that knowledge to draw connections between pollinators and themselves.

The visit to J.O. Wilson was highlighted by the building of a large bee hotel for the school garden. Bee hotels provide natural habitat for native bees, such as the leafcutter and mason bee. These bees are known as “solitary bees” because they make individual nest cells for their larvae, as opposed to living in colonies like the honeybee. They typically nest in small holes or tunnels, and so Beyond Pesticides staff created a hotel structure into which the students placed pieces of wood with holes in them for the bees to use as nesting sites.

The class worked together to create a welcoming habitat for native pollinators, and even got to help hammer on the protective screens, which was a huge hit (pun intended). The ho-

tel found a permanent home in the school’s fruit and vegetable garden, where it will help facilitate the pollination of those plants for years to come.

Educating local school children is just one of the many ways Beyond Pesticides is honoring pollinators this month. With National Pollinator Week kicking off today, there are several other events throughout the week designed to promote the work Beyond Pesticides does to protect pollinator health and combat their declines.

The curriculum developed by Ms. Goldstrohm in partnership with Beyond Pesticides will be available this fall on the Beyond Pesticides website. Additional information, including exciting grant opportunities for your school, will also be available at that time.

For more information on what you can do to protect pollinators, see [www.beeprotective.org](http://www.beeprotective.org).

