

# Bee Campus USA - Dickinson College

Report on 2023

## Pollinator Habitat Creation & Enhancement

*Please describe pollinator habitat creation or enhancement projects in your community in 2023, and whether your committee hosted them or not.*

**Campus Pollinator Garden at Kaufman Hall, Dickinson College** The Kaufman Hall Pollinator Garden at Dickinson College, spanning 2,800 square feet, was initially established in 2017 through the collaborative efforts of students, faculty and Penn State Master Gardeners. In 2021, the garden was further enhanced in partnership with the Cumberland County, PA Master Gardener program, evolving into a county demonstration and teaching garden that has continued to receive notable improvements through 2023. The garden is maintained throughout the growing season by master gardeners, students, faculty, and staff, providing a platform for hands-on learning through workshops, lectures, and garden presentations. Its objectives include supporting pollinators and local wildlife through strategic plantings and features such as bee boxes and water elements, enhancing the campus landscape through thoughtful design and regular maintenance, and offering educational opportunities on local pollinators, sustainability, conservation, and evidence-based gardening practices to both campus and community members. During the 2023 growing season, the garden prominently featured three milkweed varieties—swamp milkweed, butterfly weed, and common milkweed—to attract Monarch butterflies. The garden benefited from the contributions of 81 volunteers who assisted with maintenance and work days. Additionally, 109 individuals from the campus and local community engaged in three Lunch-and-Learn presentations and a youth summer camp, reflecting the garden's significant role in promoting environmental stewardship and education.

**Carlisle Green Street Project: Curb Extensions with Native Pollinator Plants** In partnership with the Borough of Carlisle, Dickinson College has developed and planted two new curb bump-outs to manage stormwater on a city-owned road adjacent to the campus. Enhanced in 2023, these enhancements feature rain gardens designed to capture and treat stormwater runoff before it enters the Borough's stormwater conveyance system. Each bump-out incorporates bio-engineered soil, a mulch-compost mix, and a variety of native pollinator plants to absorb stormwater and reduce soil erosion. Below the rain gardens, flow-through tanks retain and gradually release water into downstream pipes. The project, located on public streets, is maintained by Dickinson College Grounds Staff, who inspect, clean, and replant the BMPs as necessary after major rain events to ensure their effectiveness.

**Community Garden** The Carlisle Community Garden, located on Dickinson College's campus, continues to thrive as of 2023. This enclosed garden features 37 raised beds, with options ranging from smaller 4'x10' beds to larger 10'x10' beds for more ambitious gardeners. Committed to sustainability, the garden strictly prohibits the use of synthetic chemicals, including fertilizers, herbicides, pesticides, and fungicides. Community members can reserve and cultivate their own garden plots for a small annual fee, contributing to the garden's mission of enhancing pollinator habitat and promoting organic gardening practices. Dickinson College Community Garden: [https://www.dickinson.edu/homepage/834/community\\_garden](https://www.dickinson.edu/homepage/834/community_garden)

**Campus Herb Garden, Dickinson** The Campus Herb

Garden at Dickinson College features a thoughtfully curated selection of herb species that support pollinators, including sage, coneflower, and lavender. The garden, which includes ten distinct signage with QR codes, provides educational information about each plant, including growing tips, uses, benefits, and recipes. In 2023, the garden was replanted and is maintained by Dickinson College Farm Staff and student workers, ensuring its continued vitality and educational value. Integrated Pest Management at the Dickinson College Farm At the Dickinson College Farm, which manages over 80 acres of land dedicated to vegetable production and net zero energy goals, an Integrated Pest Management (IPM) plan is actively employed. This approach addresses pests, diseases, and insects with the aim of minimizing the need for and application of pesticides. By focusing on sustainable practices and reducing chemical use, the IPM plan supports the farm's commitment to environmental stewardship and efficient land management. The Integrated Pest Management at the Dickinson College Farm:

<https://www.youtube.com/watch?v=g0PtB3EF76Q&t=155s> Penn State Extension Master Gardener Demonstration Gardens Dickinson College has again partnered with the Penn State Master Gardener program for Cumberland County to support the development of demonstration gardens throughout the county, including one located on Dickinson's campus. In 2023, this collaboration has facilitated a range of educational workshops and leveraged Dickinson's facilities for classroom space and technology. Additionally, the Master Gardeners have organized trail clean-ups, annual plant sales, and workshops to enhance public awareness and engagement with sustainable gardening practices. Master Gardener Demonstration Gardens:

<https://extension.psu.edu/programs/master-gardener/counties/cumberland/demonstration-gardens>

*How many habitat projects did you help to create or enhance in 2023?*

8

*How many people (staff, volunteers, students, partners, etc.) helped with those projects?*

145

*How many projects benefit monarchs, milkweed, or nectar plantings?*

2

*How many total square feet of habitat were created or enhanced?*

11610

*Please check all that describe the habitats your affiliate helped to create or enhance last year with pollinator benefit in mind.*

- Flower garden
- Vegetable garden
- Meadow
- Pollinator-friendly lawn (with flowering clover, dandelions...)

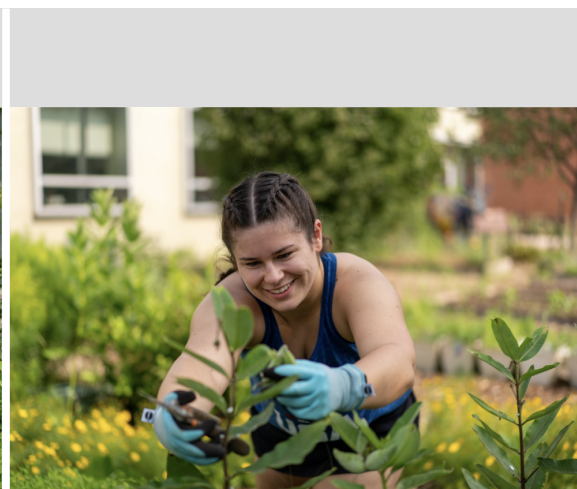
- Herb garden
- Native milkweed planting for monarchs and bees (where appropriate)
- Native pollinator-friendly tree planting
- Native pollinator-friendly shrub border/hedgerow planting
- Rain garden/bioswale
- Roadside/rights of way planting
- School garden



Pollinator Habitat: Early Spring Kaufman Pollinator Garden Habitat, April 2023, Photo Credit: Lindsey Lyons, Dickinson College Center for Sustainability Education



Pollinator Habitat: Kaufman Pollinator Garden Habitat, August 2023, Photo Credit: Dah Loh, Dickinson College



Pollinator Habitat: Kaufman Pollinator Garden Habitat with milkweed, July 2023, Photo Credit: Dah Loh, Dickinson College

## Education & Outreach

*Please describe pollinator conservation events or outreach activities in your community in 2023, indicating whether your committee hosted them or not.*

Events hosted by Dickinson College's Center for Sustainability Education (with guidance from the Pollinator Committee) include Hive Checks, Dickinson College Campus Beehives. Dickinson College's Center for Sustainability Education's (CSE) staff, Hive Intern and volunteers visit the campus beehives regularly for hive health checks and maintenance. We had three active hives throughout 2023. A hive check is where Dickinson students, faculty, staff, and community members, after going through an online training, are able to visit our beehives and learn experientially about maintenance and beekeeping. We work collaboratively with local beekeepers to assist us in this education and

maintenance. After going to check on the bees, hive checkers log their observations in a shared dataset that keeps a record of all changes, consistencies, and recommendations. Hive checks are advertised broadly to the entire Dickinson community, and all are welcome. We have protective gear for eight people, and we make these events educational throughout. EDUCATIONAL HIVE CHECKS (13 events in 2023): 4/7/23: New Hive Installation (9 Participants) 5/4/23: General Hive Check (9 Participants) 6/13/23: Hive Check and Summer Treatment (5 Participants) 6/28/23: General Hive Check (4 Participants) 7/6/23: Hive Check and Honey Harvest (3 Participants) 7/13/23: Hive Check and Mite Treatment (4 Participants) 7/21/23: Hive Check (4 Participants) 8/6/23: Hive Check (4 Participants) 8/11/23: Hive Check and Mite Treatment (4 Participants) 9/11/23: Hive Check and Removing Mite Treatment (4 Participants) 10/09/23: Hive Check (5 Participants) 11/10/23: Hive Check and Beetle Treatment (2 Participants) 11/21/23: Hive Winterization (3 Participants) OTHER EVENTS (15 events in 2023): 2/2/2023: Hive Informational Meeting (9 Participants) Participants were introduced to the Hive program and experienced an engaging session designed to provide comprehensive information. The primary goal was to inform prospective members and reconnect with returning ones to discuss upcoming events and gather ideas and share volunteer opportunities for the semester. The event saw a diverse mix of students from all class years and various majors, both environmental and non-environmental. The participants brought fresh perspectives and innovative ideas, such as incorporating various art mediums into Hive crafts and potential collaborations with the campus LGBTQ+ center. The meeting successfully set a positive tone for the semester ahead. 3/22/2023: Beekeeping Basics Workshop with Robert House (47 Participants) During the Beekeeping Basics Workshop with Robert House, participants learned about the biology of bees and the fundamentals of beekeeping. The goal was to educate Dickinson students, faculty, staff, and the larger Carlisle community on bee biology and beekeeping processes. The event had a good turnout, particularly from community members interested in getting started with beekeeping. The workshop included a presentation, demonstrations, equipment sharing etc. 3/22/2023: Healthy Living: Growing Vegetables 101 (10 Participants) During the Healthy Living: Growing Vegetables 101 event, participants gained valuable insights into vegetable gardening and healthy food choices. Sponsored by the Center for Sustainability Education (CSE) and Penn State Extension Master Gardeners, the event aimed to involve students in gardening and promote the benefits of growing their own vegetables and flowers. The event successfully fostered interest in gardening, encouraged healthier lifestyles and created new contacts for our pollinator projects. 4/6/2023: The Science of Butterflies (25 Participants) Participants explored the unique aspects of butterflies and their importance in our gardens and as pollinators. Sponsored by the Center for Sustainability Education (CSE) and Penn State Master Gardener Heather Andrews, the event attracted a diverse group of learners who were able to be introduced to the Kaufman Pollinator Garden, one of our key programs. 4/19/2023: Kaufman Pollinator Garden Work Day: Opening the Garden (10 Participants) During the three-hour Pollinator Garden Workday, participants actively prepared the garden for the season and received education on gardening techniques and plants from Penn State Master Gardeners. Sponsored by the Center for Sustainability Education (CSE) and Penn State Master Gardeners, the event aimed to clean out winter debris, plant spring plants, and share gardening knowledge to volunteers at the event. There were three Master Gardeners on site that were about to discuss and highlight critical plants for pollination. 6/21/2023: Kaufman Pollinator Garden Work Day (5 Participants) During the three-hour Pollinator Garden Workday, the goal was to enhance involvement in the pollinator garden through event

organization and outreach. The event went smoothly, with all tasks completed thanks to the efforts of interns, staff, and community volunteers. The educational aspect was highlighted by providing information about various plants, observing pollinators in the garden, and conducting plant assessments for health. 7/19/2023: Kaufman Pollinator Garden Workday & Garden Tour (21 Participants) During the Kaufman Pollinator Garden Workday & Garden Tour, participants engaged in hands-on activities to enhance the garden and explored the diverse plant species that support local pollinators. The event, sponsored by the Center for Sustainability Education (CSE) and featuring guided tours led by Penn State Master Gardeners, focused on preparing the garden for the upcoming season and educating attendees about pollinator-friendly plants and sustainable gardening practices. The day was marked by enthusiastic involvement from students, community members, and gardening experts, who worked together to make significant improvements to the garden. The combination of practical work and informative tours provided valuable insights and fostered a deeper appreciation for pollinator conservation. 9/15/2023: The Hive Open House (49 Participants) The Hive Open House is an opportunity to showcase The Hive Cooperative and its range of volunteer opportunities while engaging participants with interactive activities. Hosted by the Hive cooperative, the event aims to promote the benefits of joining the cooperative and highlight the various ways individuals can contribute through volunteering. Attendees will have the chance to learn about the cooperative's mission and impact, participate in honey tasting, plant identification, and bee observation and network with current volunteers. The event is designed to inspire community involvement and provide valuable insights into the rewarding experiences of volunteering with The Hive Cooperative. 9/20/2023: Lunch and Learn: Bee Mimics in the Garden (9 Participants) During the "Lunch and Learn – Bee Mimics in the Garden," participants gained hands-on knowledge about native pollinators and bee mimics in the garden. Sponsored by the Center for Sustainability Education (CSE) in collaboration with the Penn State Master Gardeners, the event focused on educating attendees about the intriguing world of bee mimics and their role in pollinator ecosystems. The day included engaging presentations, interactive discussions, and opportunities to observe these fascinating insects in their natural habitat. The event successfully drew in students and staff, encouraging their active participation and fostering a deeper appreciation for the complexity of pollinator interactions and sustainable gardening practices. 10/25/2023: Kaufman Pollinator Garden Work Day: Put the Garden to Bed (17 Participants) During the "Garden Work Day – Put the Garden to Bed," participants actively prepared the garden for the winter season while learning valuable gardening techniques. Sponsored by the Center for Sustainability Education (CSE) and Penn State Master Gardeners, the event focused on engaging students and staff in essential end-of-season tasks, including seed harvesting and garden winterization. Attendees gained hands-on experience in these critical gardening practices, contributing to the garden's maintenance and long-term health. The day's activities combined practical work with educational opportunities, fostering a greater understanding of seasonal garden care and promoting continued involvement in gardening initiatives. 11/2/2023: Sustainability of Beekeeping Discussion with Professor Maggie Douglas (22 Participants) Participants explored pressing concerns about the sustainability of beekeeping practices and the interaction between honey bees and native bees. The discussion, led by Professor Douglas, aimed to highlight key issues and engage students in a meaningful dialogue about potential solutions for enhancing sustainable practices in beekeeping. Attendees were highly engaged, contributing to a dynamic conversation that fostered a deeper understanding of the complexities involved in beekeeping. The informative session generated significant interest and provided valuable

insights, resulting in productive dialogue and enhanced learning about sustainable beekeeping practices which had an impact on the practices and educational strategies of Dickinson College's program. 11/3/2023: Seed Keeping and Preserving Community (14 Participants) During the "Seed Keeping and Preserving Community" event, organized by the Center for Sustainability Education (CSE) and The Eating Ethics Collective of Dickinson College, participants learned about the vital role seeds play in preserving culture and community. The event provided students and staff with the opportunity to create their own seed packets using seeds from the Pollinator Garden. The informal, interactive format encouraged meaningful discussions and hands-on engagement as attendees assembled their seed packets. The event was well-received, with a strong turnout of students who actively participated and enjoyed the collaborative, educational experience. 11/16/2023: Ikebana Lunch and Learn: The Ancient Japanese Art of Flower Arrangement (32 Participants) During the "Ikebana Lunch and Learn: The Ancient Japanese Art of Flower Arrangement," participants delved into the art of Ikebana, the traditional Japanese practice of flower arranging. Ellen Kelley, who led the session, demonstrated this ancient art form using plant materials sourced from the campus. She explored how Ikebana fosters connections between people and the natural world, creating stunning arrangements that encouraged attendees to redefine beauty in their surroundings. The event saw over 30 students, faculty, staff, and community members come together to reflect on themes of wellness, flow, and place. 11/17/2023: Honey Harvesting (15 Participants) During this honey harvesting event, participants experienced the process of how to go from honey in a hive to honey in bottles. With the help and guidance from local beekeeper Mary Moll, volunteers extracted honey from frames collected from both the Dickinson hives and Mary Moll's hives, as well as cleaned, strained, and bottled the honey. Each participant was allowed to take a jar, and the remainder was used as department gifts. 11/28/2023: Candle Making Workshop (20 Participants) During the "Hive Candle Making Workshop," participants engaged in the hands-on process of candle making while exploring discussions about beekeeping. The event aimed to produce 40 candles for volunteers and CSE use, and to foster thoughtful conversations about the role of bees. The workshop was divided into two groups, allowing participants to alternate between making their own candles and discussing bee-related topics over food. The use of index cards with bee facts facilitated insightful conversations, and attendees left with a deeper understanding of beekeeping and hive dynamics.

*How many pollinator-related events or outreach activities did you host or help with in 2023 (in total)?*

28

*How many people attended those events (in total)?*

375

*Number of permanent interpretive/educational/Bee Campus USA signs installed to date?*

5

*Number of temporary interpretive/educational/Bee Campus USA signs installed in 2023?*

1



Education & Outreach: Annual Honey Harvesting, November 17, 2023. Photo Credit: Lindsey Lyons, Dickinson College Center for Sustainability Education



Education & Outreach: New Hive Install and educational program, April 2023. Photo Credit: Lindsey Lyons, Dickinson College Center for Sustainability Education



Education & Outreach: Classroom Presentation on Pollinators to Youth Camp from Community, July 2023. Photo Credit: Lindsey Lyons, Dickinson College Center for Sustainability Education



Signage: Herb Garden signage in Dickinson College herb garden, Photo Credit: Tai Nguyen '25



Signage: Master Gardener Certified Pollinator Garden Sign at Kaufman Hall Pollinator Garden Dickinson College, Trang Vu '25



Signage: Monarch Waystation Certified Pollinator Garden Sign at Kaufman Hall Pollinator Garden Dickinson College, Trang Vu '25

## Curriculum, Continuing Education, & Service Learning

*Please describe the curriculum your campus engaged in 2023, indicating whether it was part of a for-credit course or continuing education.*

The Hive Cooperative at Dickinson College works to connect curricular and co-curricular activities related to pollinators, beekeeping and habitat enhancement. We do not offer continuing education courses for credit. Staff in the Center for Sustainability Education visited two classes in 2023 to discuss The Hive opportunities, events and basics of beekeeping. One of those classes participated in a lab period of service learning in our Kaufman Pollinator Garden. Typically, the Bee Campus content makes its way into Dickinson's curriculum in various courses across the disciplines such as Environmental Studies and Biology, but also in more creative ways such as classes on Religion and the Environment or the History of Climate Change.

How many of your for-credit courses included pollinator-related information in 2023?

2

How many students attended those for-credit courses?

34

How many service-learning projects did your campus host and/or support to enhance pollinator habitat on- and off- campus?

8

How many students participated in service-learning projects in 2023 to enhance pollinator habitat on or off-campus?

113

Please describe the service-learning projects your students were engaged in 2023, indicating which, if any, were associated with a course.

4/19/2023: Pollinator Garden Work Day: Opening the Garden (10 Participants) During the Pollinator Garden Workday, participants actively prepared the garden for the season and received education on gardening techniques and plants from Penn State Master Gardeners. Sponsored by the Center for Sustainability Education (CSE) and Penn State Master Gardeners, the event aimed to get the pollinator garden ready for the season while providing valuable gardening knowledge to volunteers. The event saw enthusiastic participation from students, community members, and Penn State Master Gardeners. Significant progress was made in the garden, reflecting the collective effort and active involvement of all participants. 6/21/2023: Pollinator Garden Work Day (5 Participants) During the Pollinator Garden Workday, the goal was to enhance involvement in the pollinator garden through event organization and outreach. The event went smoothly, with all tasks completed thanks to the efforts of interns, staff, and community volunteers. The educational aspect was highlighted by providing information about various plants, contributing to the overall success of the workday. 7/19/2023: Kaufman Pollinator Garden Workday & Garden Tour (21 Participants) During the Kaufman Pollinator Garden Workday & Garden Tour, participants engaged in hands-on activities to enhance the garden and explored the diverse plant species that support local pollinators. The event, sponsored by the Center for Sustainability Education (CSE) and featuring guided tours led by Penn State Master Gardeners, focused on preparing the garden for the upcoming season and educating attendees about pollinator-friendly plants and sustainable gardening practices. The day was marked by enthusiastic involvement from students, community members, and gardening experts, who worked together to make significant improvements to the garden. The combination of practical work and informative tours provided valuable insights and fostered a deeper appreciation for pollinator conservation. 9/20/2023: Lunch and Learn: Bee Mimics in the Garden (9 Participants) During the "Lunch and Learn – Bee Mimics in the Garden," participants gained hands-on knowledge about native pollinators and bee mimics in the garden. Sponsored by the Center for Sustainability Education (CSE) in collaboration with the Penn State Master Gardeners, the event focused on educating attendees about the intriguing world of bee mimics and their role in pollinator ecosystems. The day included engaging presentations, interactive discussions, and opportunities to observe these fascinating insects in their natural habitat. The event successfully drew in students and staff, encouraging their

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Curriculum: Partnerships for data collection for lab courses, Kaufman Pollinator Garden, July 2023. Photo Credit: Dai Loh, Dickinson College



Curriculum: Guest lecture from local beekeeper provided extra credit opportunity for Environmental Studies Classes, November 2023. Photo Credit: Lindsey Lyons, Dickinson College Center for Sustainability Education



Curriculum: Class visit to the Dickinson College Farms to explore vegetable and herb production using IPM. July 2023. Photo Credit: Dan Loh, Dickinson College



Service Learning: Garden work day and planting for Youth Camp from community, July 2023. Photo Credit: Lindsey Lyons, Dickinson College Center for Sustainability Education



Service Learning: Garden work day and planting for Youth Camp from community, July 2023. Photo Credit: Lindsey Lyons, Dickinson College Center for Sustainability Education



Service Learning: Garden work day and clean-up with campus partners, June 2023. Photo Credit: Dai Loh, Dickinson College

## Policies & Practices

*Please describe actions taken to make pest management more pollinator-friendly.*

Community Garden In the Community Garden on Dickinson's campus, all synthetic chemicals, including fertilizers, herbicides, pesticides, and fungicides, are strictly prohibited to ensure a pollinator-friendly environment. This policy supports the garden's commitment to organic practices, aligning with the college's sustainability and environmental stewardship goals. By avoiding synthetic chemicals, the garden provides a safe and supportive habitat for pollinators, helping to preserve their health and the overall ecosystem. Kaufman Pollinator Garden The Kaufman Pollinator Garden is managed with a focus on minimal and cautious use of herbicides to prevent any adverse effects on the ecosystem. The only instance of chemical use in the garden's history was during the initial clearing of overgrown plants using Roundup. Following this, plants were introduced a year later to ensure that chemicals did not impact the newly established flora or wildlife. Pest management in the garden primarily relies on manual methods, including tilling, hand weeding, and using shovels to remove root systems. Additionally, biological methods are employed by planting specific desirable species that help suppress the growth of invasive and undesirable plants, promoting a healthy and balanced environment for pollinators. Pollinator Friendly Integrated Pest Management Policy for Dickinson Campus Over the past decade, Dickinson College has evolved its landscape management to align with key sustainability goals, emphasizing hands-on sustainability education and stewardship. The campus-wide approach integrates not only plant health but also the broader ecosystems that support them, including soil, water management, insects, and wildlife. This commitment transforms the Dickinson College landscape into a dynamic living laboratory, where classroom learning is complemented by practical, real-world experience. The Pollinator Friendly Integrated Pest Management Policy reflects these priorities and is updated annually to ensure that the landscape continues to support pollinators and contribute to the college's sustainability objectives. Dickinson College Grounds and Landscape Management Policies and Practices: [https://www.dickinson.edu/download/downloads/id/12306/grounds\\_and\\_landscape\\_management\\_policies\\_and\\_practices.pdf](https://www.dickinson.edu/download/downloads/id/12306/grounds_and_landscape_management_policies_and_practices.pdf) Sustainable Buildings Dickinson College is committed to constructing new buildings and major renovations to at least LEED (Leadership in Energy and Environmental Design) Silver standards, often exceeding this benchmark in all new projects. Green building practices focus on creating structures that are environmentally responsible and resource-efficient throughout their entire lifecycle. Dickinson's buildings incorporate advanced technologies such as energy wheels for efficient heat exchange between indoor and outdoor air, high-efficiency HVAC systems, sensors to optimize air flow, temperature, and lighting, passive solar designs, and natural lighting. Additionally, the buildings feature high-efficiency fluorescent and LED lighting, waterless urinals, and grey water systems. Furniture and fixtures are selected for their sustainable materials and low volatile organic compounds (VOCs). These measures ensure that the buildings use less energy, water, and natural resources compared to conventional buildings, resulting in greater efficiency and reduced waste. Leadership in Energy and Environmental Design: <https://www.usgbc.org/?CategoryID=19> Sustainable Grounds At Dickinson College, sustainable grounds management is a priority across the 200-acre main campus. The college extensively utilizes native plants in its landscaping to minimize water usage, provide habitat and food for wildlife, and prevent the spread of invasive species. Sustainable practices include Integrated Pest Management, biological controls, the maintenance of natural meadows, the creation of edible landscapes, and the implementation of rain gardens and bioswales. These methods collectively enhance the ecological health of the campus while supporting biodiversity and resource conservation. Buildings & Grounds: [https://www.dickinson.edu/info/20052/sustainability/2283/buildings\\_and\\_grounds](https://www.dickinson.edu/info/20052/sustainability/2283/buildings_and_grounds) Benchmarking Biodiversity on

Farms Dickinson College Professor Maggie Douglas and campus farm Director Jenn Halpin collaborated on a benchmarking project aimed at assessing the ecological health of the campus farm. They presented the early findings of this work at the Pasa Sustainable Agriculture Conference. Their research focuses on evaluating crop diversity, farm layout, and management practices to develop systematic and sustainable strategies for enhancing biodiversity on the Dickinson College farm. This project seeks to create a more robust and ecologically balanced agricultural environment. Full article: <https://growingformarket.com/articles/benchmarking-biodiversity-farms>

*In your city or campus, are any policy initiatives underway to further protect pollinators, people or waterways from pesticides?*

The Alliance for Aquatic Resource Monitoring (ALLARM) envisions a future where individuals are empowered through science education to participate in decision-making about their local water resources. As a program of Dickinson College, ALLARM provides an enhanced educational experience for students, equipping them with essential skills in environmental science, community engagement, science education, and non-profit work. ALLARM engages communities by using science to investigate stream health, generating data that supports aquatic protection, policy development, and restoration efforts. Recent workshops have been instrumental in helping community volunteers address these crucial questions.

*Did your committee participate in any continuing education on ecologically-based Integrated Pest Management planning?*

No, no further training was obtained during 2023. However, we are committed to continually improving in this area.

*Please check actions you have taken to make pest management practices more pollinator-friendly.*

- Only use pesticides as a last resort within the IPM plan
- Avoided use of pesticides in public sites containing designated pollinator habitat or other sensitive features (except when targeted use is deemed the best option for invasive or noxious weed, insect or disease management)

*Any lessons learned you would like to share?*

Our partnership with the local county Master Gardener program has been invaluable and we think could serve as a model to other locations and institutions. They are looking for space to garden, train volunteers and conduct educational programming and campuses are the perfect partner for this. We have established a strong Memorandum of Understanding with clear roles and expectations that we would be happy to share with others pursuing this partnership.



Policy & Practice: Dickinson College's farm uses Integrated Pest Management practices on all of our 180 acres of managed land. The sustainable grounds are managed for pollinators. Photo Credit: Joe O'Neil, Dickinson College

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[Learn More](#)

**Integrated Pest Management Plan:**

[https://www.dickinson.edu/download/downloads/id/12306/grounds\\_and\\_landscape\\_management\\_policies\\_and\\_practices.pdf](https://www.dickinson.edu/download/downloads/id/12306/grounds_and_landscape_management_policies_and_practices.pdf)

**Recommended Native Plant List:**

<https://www.dcnr.pa.gov/Conservation/WildPlants/LandscapingwithNativePlants/Pages/default.aspx%20>

**Recommended Native Plant Supplier List:**

<https://www.izelplants.com/%20>

[https://www.dickinson.edu/info/20052/sustainability/3325/the\\_hive](https://www.dickinson.edu/info/20052/sustainability/3325/the_hive)  
thehive@dickinson.edu