

Bee Campus USA - University of North Carolina Asheville

Report on 2022



Pollinator Habitat Creation & Enhancement

During the spring and summer, over 9,000 square feet of pollinator habitat was planted around Owen Hall. The Pollinator Habitats included meadows and stormwater bioretention cells. Most of the plantings were grown from seed, collected locally, by the UNCA grounds department. Additional pollinator plantings were completed around the Woods Residence Halls, the Reuter Center, and the east and west stormwater conveyances. The Millar Complex included a new pollinator garden, increase in vegetable growing areas, and planting of fruiting trees and shrubs. The ROOTS student garden was renovated to include a hoop house and added raised vegetable beds.

How many habitat projects did you help to create or enhance last year?

8

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

9000

How many volunteers helped with those projects?

3

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
- Herb garden
- Native milkweed planting for monarchs and bees (where appropriate)
- Invasive/exotic plant species removal for habitat improvement
- Native pollinator-friendly tree planting
- Rain garden/bioswale



Owen Hall Bioretention Habitat



Planting Fruit Trees at the Millar Complex



Vegetables for Pollinators and Other Wildlife

Education & Outreach

UNC Asheville faculty and staff provided several opportunities for education and outreach including: • “In Real Life”- Approximately 20 Students from Asheville Middle School and North Star Academy visited campus gardens to make observations. • Science Punks Club of Asheville Middle School- Approximately 40 students learned about pollinators and pollinator gardens. • UNC Asheville Biology research student training. • UNC Asheville grounds department staff member provided a campus pollinator garden tour for a local garden club. • UNC Asheville grounds staff hosted environmental science internships regarding the study of different species of milkweed and two internships involving invasive species removal to enhance beneficial habitat.

How many pollinator-related events did your affiliate host or help with last year (in total)?

5

How many people attended those events (in total)?

65



Student Intern Plants Swamp Milkweed in Campus Wetland

Courses & Continuing Education

Approximately 266 students participated in University course work involving the study of pollinators. Courses include: Principles of Botany/Lab- multiple sections Current Topics in Biology/Lab-multiple sections First Year Seminar-“Honey Bees and Humans”

How many of your for-credit courses included pollinator-related information last year?

3



Students from the "Honey Bees and Humans" Class in the Bee Yard

Service-Learning

UNC Asheville continues the tradition of service-learning workdays focused on improving habitat for pollinators. The Spring and Fall workdays had approximately 120 faculty, staff and students volunteer. This year efforts include the renovation and expansion of a student vegetable garden and the removal of invasives along a creek on the University

campus.

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

2

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

120



Staff and Student Volunteers Work in a Student Garden



Workday Volunteers Improve Habitat by Removing Invasive Plants

Educational Signage

No New Signage was Created

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

3

Policies & Practices

Continued planting for beneficial insects populations which helps to reduce damaging insect populations. Increase the use of mulch to control weed pressure which has reduced the need for herbicides.

What actions have you taken to make pest management practices more pollinator-friendly?

- Implemented or maintained a written IPM plan
- Implemented non-chemical pest prevention and management methods on city or campus grounds
- Sourced plants for city or campus grounds using “Buying Bee-Safe Plants” methods recommended by Xerces Society. (See <https://xerces.org/publications/fact-sheets/buying-bee-safe-plants>)
- Sourced plants for city or campus grounds that were not treated with neonicotinoids

In your city or campus, are any policy initiatives underway to further protect pollinators, people or waterways from pesticides?
 UNC Asheville continues to increase green infrastructure on campus. This infrastructure intercepts and treats stormwater prior to reaching nearby waterways.

Please describe actions by your affiliate to attend training on ecologically-based Integrated Pest Management and/or to review IPM plans and programs considered of high quality by Bee City USA?

We utilize webinars from organizations such as the Ecological Landscape Alliance to gain new knowledge and understanding about Integrated pest management strategies.

Integrated Pest Management Plan: [Copy of UNC Asheville IPM Plan 071807 \(1\).pdf](#)

<https://campusoperations.unca.edu/intitatives/pollinator-gardens/>

Recommended Native Plant List: [Copy of Sunny Average-Moist Plant List-combined.pdf](#)

<https://campusoperations.unca.edu/intitatives/pollinator-gardens/>

Recommended Native Plant Supplier List:

<https://www.ashevillegreenworks.org/native-pollinator-plants-and-nurseries.html>

Owen Hall Woodland Gap Meadow			
Botanical Name	Common Name	Provenance	
<i>Ageratina aromatica</i>	Lesser snakeroot	Henderson County- North Mills River	
<i>Andropogon gyrans</i>	Elliott's Bluestem Grass	Henderson County-Kellogg Property	
<i>Angelica venenosa</i>	Hairy angelica	Commercial origin-Overhill Gardens-transplanted from Pisgah house	
<i>Asclepias tuberosa</i>	Butterfly weed	Henderson County-Kellogg Property	
<i>Astragalus canadensis</i>	Canada Milk Vetch	Commercial origin seed collected from Pisgah Hou	
<i>Baptisia tinctoria</i>	Yellow False Indigo	Henderson County North Mills River-Upper Wash C	
<i>Chamaecrista nictitans</i>	Small partridge pea	Local	
<i>Chrysopsis mariana</i>	Maryland Golden-aster	Local origin/Mixed	
<i>Coreopsis major</i>	Greater Tickseed	Local origin/Mixed	
<i>Coreopsis pubescens</i>	Hairy Tickseed	Buncombe County-Craggy	
<i>Elephantopus carolinianus</i>	Elephant's foot	Cherokee County	
<i>Eupatorium hyssopifolium</i>	Hyssopleaf Thoroughwort	Buncombe County-Long Shoals Road	
<i>Eupatorium pubescens</i>	Hairy Thoroughwort	Buncombe County-Long Shoals Road	
<i>Helianthus atrorubens</i>	Purpledisk Sunflower	Henderson County- South Mills River	
<i>Helianthus microcephalus</i>	Small headed sunflower	Seed collected at Pisgah House	
<i>Hypericum gentianoides</i>	Pineweed	Seed collected at Pisgah House	
<i>Hypericum stragulum</i>	Low St. John's-wort	Seed collected at Pisgah House	
<i>Lespedeza virginica</i>	Slender Bush-clover	Barnardsville-Cedar Cliff	
<i>Liatris aspera</i>	Rough Blazing-star	Local-seed gift	
<i>Lobelia puberula</i>	Downy Lobelia	Henderson County-North Mills/Kellogg	
<i>Parthenium integrifolium</i>	Wild Quinine	Henderson County North Mills River-	
<i>Penstemon canescens</i>	Eastern Grey Beardtongue	Hamburg Mtn	
<i>Phlox carolina</i>	Carolina Phlox	Buncombe County	
<i>Pityopsis graminifolia</i>	Grass-leaf goldenaster	Henderson County- South Mills River	
<i>Polygala curtissii</i>	Curtiss's Milkwort	Local Origin	
<i>Pteridium aquilinum</i>	Bracken Fern	Local Origin- Transplanted from campus	
<i>Rudbeckia fulgida</i>	Orange Coneflower	Henderson county	
<i>Salvia lyrata</i>	Lyreleaf sage	Local origin-seed collected at UNCA	
<i>Schizachyrium scoparium</i>	Little blue stem grass	Buncombe County-Cedar Cliff Mountain	
<i>Silphium compositum</i>	Kidneyleaf Rosinweed	Henderson County-Old Fanning Bridge Road	
<i>Solidago erecta</i>	Slender goldenrod	Henderson County- South Mills River	
<i>Solidago nemoralis</i>	Grey goldenrod	Buncombe County-Long Shoals Road	
<i>Solidago odora</i>	Sweet goldenrod	Henderson County North Mills River-	
<i>Solidago puberula</i>	Downy goldenrod	Buncombe County-Long Shoals Road	
<i>Symphotrichum dumosum</i>	Bushy Aster	Local origin/Mixed Henderson/Buncombe	
<i>Symphotrichum patens</i>	Late Purple Aster	Local origin/Mixed Henderson/Buncombe	
<i>Symphotrichum undulatum</i>	Wavy-leaved American-aste	Local Origin/Mixed Buncombe/Jackson	

Plant List from Owen Hall Meadow Using the Pine-Oak Plant Community as a Guide

Learn More

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