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?

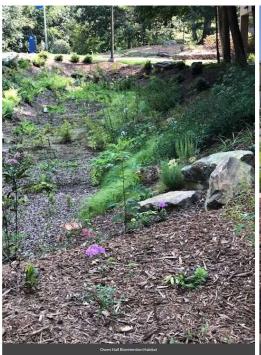
3

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











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)?

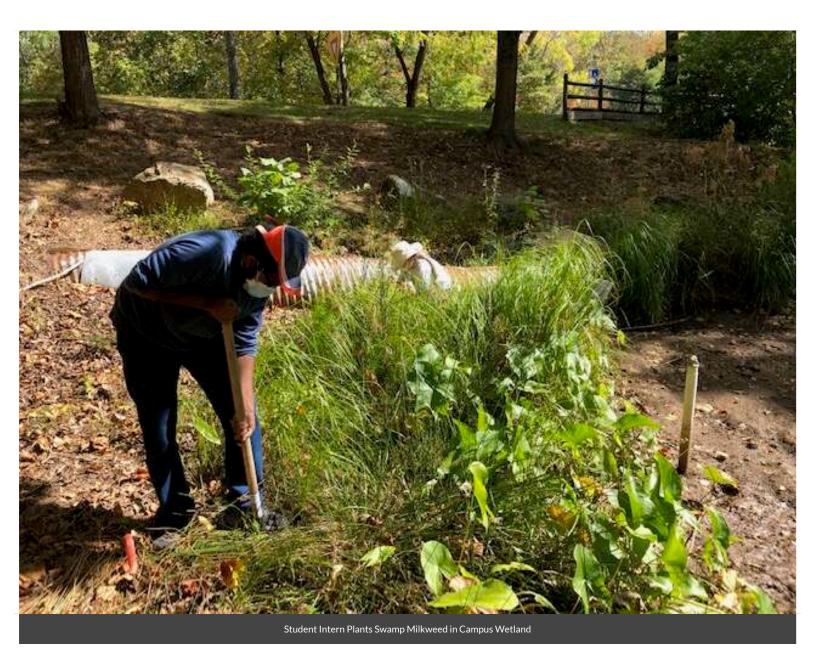
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How many people attended those events (in total)?

65







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?









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





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