Riverwood Plantation Pollinator Outdoor Classroom



Site Selected for the Riverwood Pollinator Garden



Creation of the garden





A Youth Volunteer Enjoying the Monarchs





Riverwood Plantation Pollinator Outdoor Classroom



Sign Created for the Pollinator Garden



Installation of Irrigation and Multi-use Trail Extension



Girl Scouts Installing the Picnic Table in 2020

Riverwood Plantation Pollinator Outdoor Classroom



Riverwood Plantation 2019.mp²

Video can also be found on the Riverwood Plantation Pollinator Garden Facebook page.

Facebook page (https://www.facebook.com/RWPpollinatorgarden)

Riverwood Plantation Pollinator Outdoor Classroom



County, Appling, Georgia 30802 Extension Master Gardener Volunteer, RWP Garden Project Coordinator, Columbia County, Evans, Georgia 30809

SITUATION

The decline of pollinators has scientists concerned about resulting crop pollination deficits, diminishing native biodiversity, and national and global food scarcity. In America, many species of insect, bird, and mammal contribute to pollination of food plants. Over the last decade, widespread media attention has been given to the decline in honeybee populations due to their prominence in pollination efforts for food production and economic impact, but all pollinators populations are in danger. The five causes of pollinator decline identified by the National Park Service are habitat loss, non-native species, pesticide use, climate change, and parasites and diseases (National Park Service, 2021).

In 2014, President Obama wrote a memorandum that called for increased federal action towards protecting pollinator species. The resulting federal plan developed by the Pollinator Health Task Force in 2015 addresses includes action steps:

- 1) Conduct research to understand, prevent, and recover from pollinator losses
- Expand public education programs and outreach
- Increase and improve pollinator habitat
- Develop public-private partnerships across all these 4) activities

As a result of the federal pollinator health plan, each individual state was tasked with developing a customized strategy with recommendations on improving pollinator health in their area (Environmental Protection Agency). The Georgia plan, titled Protecting Georgia's Pollinators, was developed by the University of Georgia Department of Entomology and the Georgia Department of Agriculture in 2016 (Griffin, 2016). For both federal and state programs, education opportunities on pollinators is a critical component of protecting pollinator species.

OBJECTIVES

- Design and install pollinator garden and outdoor classroom in the Riverwood neighborhood
- Host hands-on programs to increase participant knowledge of pollinators and encourage adoption of Pollinator Protection **Practices**





Figure 1: Knowledge Change of Program **Participants**

It is important to be Pollinator conservation Posticidos have a able to identify is essential for pollinators protecting the pollinator health

■ Pre (2019) ■ Post (2019) ■ Pre (2020) ■ Post (2020)

2019 Activities:

attendees'

80%

60%

40%

20%

- Hosted over 35 families for the UGA Great Pollinator Count
- Designated as Certified Monarch Watch Waystation Hosted five educational programs with 56 attendees
- 2020 Activities: Hosted over 20 families for UGA Great Pollinator Count
- Designated as Certified Monarch Watch Waystation Hosted three educational programs
- *Due to COVID-19 restrictions, in 2020, the garden has only been able to provide

3 educational opportunities reaching 21 attendees(12 adults and 9 youths). Two scheduled events, April Shower Program and May Flowers Program, were canceled due to COVID-19. due to COVID-19.









METHODS

Riverwood Plantation is a community consisting of 3,000 acres and 1,500 homes that highlights nature and a strong sense of community. Locating the garden centrally in the community was key to successful educational efforts on the importance of pollinators, beneficial insects, and proper plant selection.

In May of 2019, the Riverwood Home Owners Association, Georgia Power, and Columbia County Extension began clearing the proposed garden, a 4,500 square foot space located between residential developments and adjacent to Greenbrier schools. Once cleared, Master Gardener Extension Volunteers added plants donated from local business and supplies procured with grant funding from Monarch Watch, Augusta Area Master Gardeners, Plant America, and Georgia Association of Conservation Districts.

Plant selections were made by referring to publications produced by UGA extension and the Xerces Society. Criteria used for plant selection included their native range, time of year for flowering, growth pattern, and preferred pollinator species.

To allow for continuing communication, Master Gardener Project Leader, Kelly Dzurny, created a Facebook page to ensure community partners were kept up-to-date on educational opportunities related to the pollinator garden.

Evaluation

All educational programs were evaluated using voluntary pre- and post- program surveys. Participants were asked to agree or disagree with the following statements prior to and after the program:

- 1) It is important to be able to identify pollinators
- 2) Pollinator conservation is essential for protecting the environment
- 3) Pesticides have a negative impact on pollinator health. Data from the evaluations can be reviewed in Figure 1.









REFERENCES

- EPHENICES

 EPA The New FPA Bee Advisory Box. November 2013, https://www.epa.gov/sites/production/files/201311/documents/bee-label-info-graphic.pdf

 forfifin, Becky, Poillmator Protection Plan for Georgia, January 20, 2016

 https://ugaurbanag.com/poillmator-protection-plan-for-georgia/

 Obama, Barack, Presidential Memorandum Creating a Federal Strategy to Promote the Health of Honey

 Bees and Other Poilinators, June 20, 2014, https://obamawhitethouse.archives.gov/the-press-
- Pollinator Health Task Force, National Strategy to Promote the Health of Honey Bees and Other Pollinators, May 19, 2015, rhitehouse.archives.gov/sites/default/files/microsites/ostp/Pollinator%20Health%20Strate
- gy/32/2015.pdf
 Spivak, M. (Writer). (2013, June). Why bees are disappearing [Video file]. Retrieved from https://www.dc.com/talis/marla_spivak_why_bees_are_disappearing
 Theobald, Tom. "Do We Have a Pesticide Blowout?" Bee Culture (2010): 66-69.