Removal of the Invasive Brazilian Pepper Plant

Abstract

- The Brazilian Pepper Plant is an invasive species, meaning that it steals nutrients and water from its surrounding native plants causing them to die.
- The team’s goal was to eradicate the plant form some parts of Spruce Creek Park.
- Procedures for this project included identification, removal, and disposal of the Brazilian Pepper Plant.
- The removal process consists of cutting down the plant with a bow saw and trimming them enough to fit into a garbage bag and disposing of them into a waste management bin.
- Our group has successfully put in 22 hours of removal and have cleared about two thirds of an acre located in Spruce Creek Park near 29°05'50.8"N 80°58'24.4"W (See Figure 1).

Learning Objectives

- By going out to physically remove the plants, the students will be able to gather information that relates to class lectures and gain a better understanding to the materials learned in class.
- By the end of the project, the students will be able to distinguish the Brazilian Pepper Plant from similar native plants such as the Florida Holly.
- By removing the Brazilian Pepper Plant from Spruce Creek Park, the students will improve biodiversity in the park and will be able to explain how biodiversity is improved when invasive species are removed from the area without error.

Conclusions

- Group members are now able to identify the Brazilian Pepper Plant and know information about where it comes from, how it grows, and how it affects surrounding native species.
- By removing the Brazilian Pepper Plant, the group has increased the biodiversity in the areas marked on Figure 1.
- Going forward, to ensure the elimination of the Brazilian Pepper Plant, we must find a way to lessen the spread of the seeds, which are usually carried by birds.
- Continuous physical removal of the plants will be required until a way to completely eradicate the invasive plant is discovered.
- Future environmentally aware groups may take on this challenge, and continue the important job of preventing the native plant species of Florida from suffering from this tyrant any longer.

Reflections

- We have learned how invasive species impacted the native life forms.
- We are able to distinguish the Brazilian Pepper Plant from similar native plants such as the Florida Holly.
- We realize the importance to contain the invasive species in order to avoid spread.
- Everyone should go out and help remove the Brazilian Pepper Plant to realize the difficulties on physical removal.
- We observed first-hand how the Brazilian Pepper Plant has affected taking nutrients from its surroundings.

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Let’s Get Peppered!