



REU Site: Plant Biology & Conservation Research Experiences for Undergraduates - From Genes to Ecosystems (Supported by NSF award DBI-2149888).

# Lawn Alternative Growth Rates



chicago botanic garden

2024 Research Experiences for Undergraduates Program

## Introduction:

Have you ever wondered why some plants grow faster than others? In our experiment, understanding the growth timeline of each species is key. Knowing the time in which it'll take to grow each species is important for our experiment because then we will be able to know what plants need to be planted first for testing.

## Methods:

To determine growth rates of each species, we conducted a comprehensive database search utilizing specific species names.

For example; I searched the terms "growth rate", "germination", "establishment" along the species names. This research approach provided a foundational understanding of these grasses' growth patterns.

## Yasmine Henry and Brian Lovejoy



Figure 1: Image of Species Names

## Results:

- ❖ Kentucky Bluegrass takes an average of 21 days
- ❖ Purple lovegrass takes an average of 12 days
- ❖ Eco Grass takes an average of 8.5 days
- ❖ Little Bluestem takes an average of 14 days

## Discussion:

For our experiment on average it takes Kentucky Bluegrass 21 days to grow, Purple Lovegrass an average of 12 days, Eco Grass an average of 8.5 days and Little Blue Stem an average of 14 days. Understanding the growth timeline of each plant species is crucial for our experiment, as it will allow us to determine the optimal planting order.

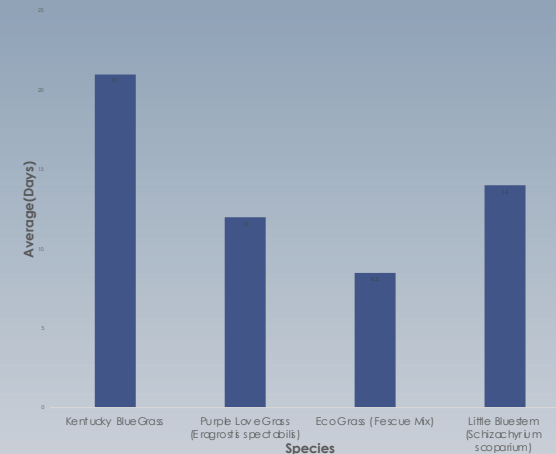


Figure 2: On average how long does it take each species to grow?

## Acknowledgements:

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## References:

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