

Creek V Pond At TBG
Natural Science Technology Center
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Due to flowing water the creek is the better habitat for fish according to results of abundance, size and weight.

Introduction

Our project shows how the health of fish can indicate the quality of the water.

Our hypothesis is that the creek will produce more fish because it has a better flow of water.

- This article (EPA 2022) talks about how fish will sense pollutants and even start relocating themselves to avoid poor water quality. So with that being said, the easiest way to identify the poor water quality is to evaluate fish assemblage.
- The next article explains the purpose and difference between the different indicator species. They can be an important factor in determining the quality of the water because, they can die off or relocate themselves to find better water quality. Which is why we think the creek will produce more and healthier fish and determined the water health through fish size and weight (FDACS, 2022).

Hypotheses

The creek will produce more fish because it has a better flow of water.

Objective

The objective is to determine whether the creek or pond has better water quality.

Methods

1. Go to creek and stream one
2. Head to creek 2, collect data
3. Head to pond 2 collect data
4. Reset traps or take them out
5. Measure the fishes weight and length
6. Measure the ph and turbidity of the water at each site and enter results into the globe database

Abstract

Does the creek or pond have a higher abundance of fish and which is healthier? The creek is what we thought would produce more fish. After the traps were set, check the traps, measure the fish weight

and length. We found the pond has a higher amount of fish but the creek had healthier ones.

Results

The creek had a higher relative abundance of fish than the pond. We came to this conclusion, because the fish were generally larger in the creek but the fish were caught more consistently than in the pond.

Conclusion

The conclusion is that the creek is healthier than the pond, because the creek has good health due to fish coloration and size. Even though the abundance of fish was higher in the pond

- The hypothesis was supported by the average size and weight but, not abundance of fish.

Acknowledgments

A thanks to Autumn Moore for her expertise in fish and indicator species knowledge. Also to Mr Steel for donating his time to come work in the field with us. Finally, a special thanks to Mrs. Kubiak for her assistance with getting in contact with professionals and setting things up to go as smooth as possible.

References

Fish Assemblage. (2022, June 16). US EPA.

<https://www.epa.gov/national-aquatic-resource-surveys/indicators-fish-assemblage>

Aquarium Water Quality: pH. (2021). fdacs.gov. Freid

[https://fdacs.gov/Consumer-Resources/Recreation-and-Leisure/Aquarium-Fish/Aquarium-Water-Quality-p](https://fdacs.gov/Consumer-Resources/Recreation-and-Leisure/Aquarium-Fish/Aquarium-Water-Quality-pH)

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