



# Green Horizons

WE ARE AN INITIATIVE FOCUSED ON HOW WE CAN INCREASE  
KNOWLEDGE ABOUT ENVIROMENTAL CONSERVATION

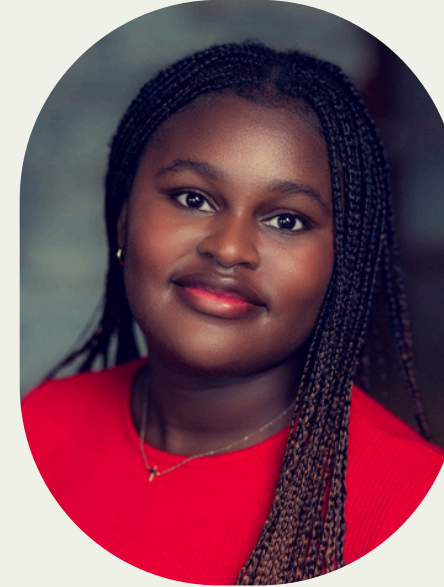
**SIUE CODES Capstone Project**

# OUR TEAM



**Danahe Villaseñor**

Bachelors in Early  
Childhood  
Education



**Makhia Logan**

BA in International  
studies  
Minors: Pre-law and  
History



**Sean-Jeremie  
Brown**

BS Psychology &  
Sociology



**Kaz Isibue**

BS in Geography  
Minors: Sociology  
and 3D Studio  
Art

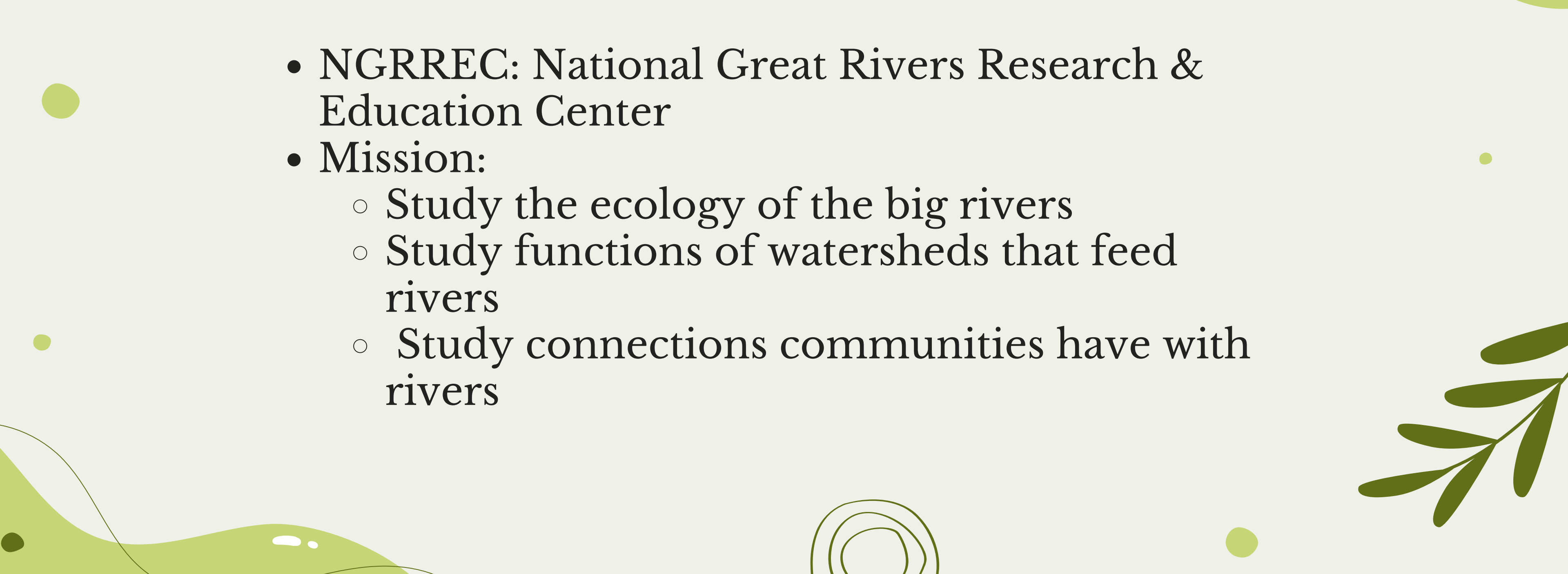


# 01 The Beginning



Why we choose our project and where it all began



# Partnership With NGRREC

- NGRREC: National Great Rivers Research & Education Center
  - Mission:
    - Study the ecology of the big rivers
    - Study functions of watersheds that feed rivers
    - Study connections communities have with rivers
- 






# Enviromental Issues and Highschool Students

- Many people were not exposed to environmental science in high school
- Opportunity to work with Trio Upward Bound students





02

# The Process

What we did throughout the years!



## Survey

- Our sophomore year, we decided to conduct a study for a high school-aged audience.
- We later decided to share it with SIUE students and receive their personal experiences about their exposure and knowledge of environmental science.



## Deciding our individual parts in the final project

- Throughout the semester, we worked individually on our products that would come together to make our final project



# Interviews

- During our class visits to NGRREC, we had the opportunity to interview an active member and staff from our community partner.
- This interview gave us more detailed insights that helped with hands-on evidence for our project and guided our work moving forward.







# 03 Our Products

Our individual parts that made up the overall project



# Green Horizons Podcast

## Purpose

- Exploring the journey from awareness to action in tackling environmental challenges.

## Target Audience

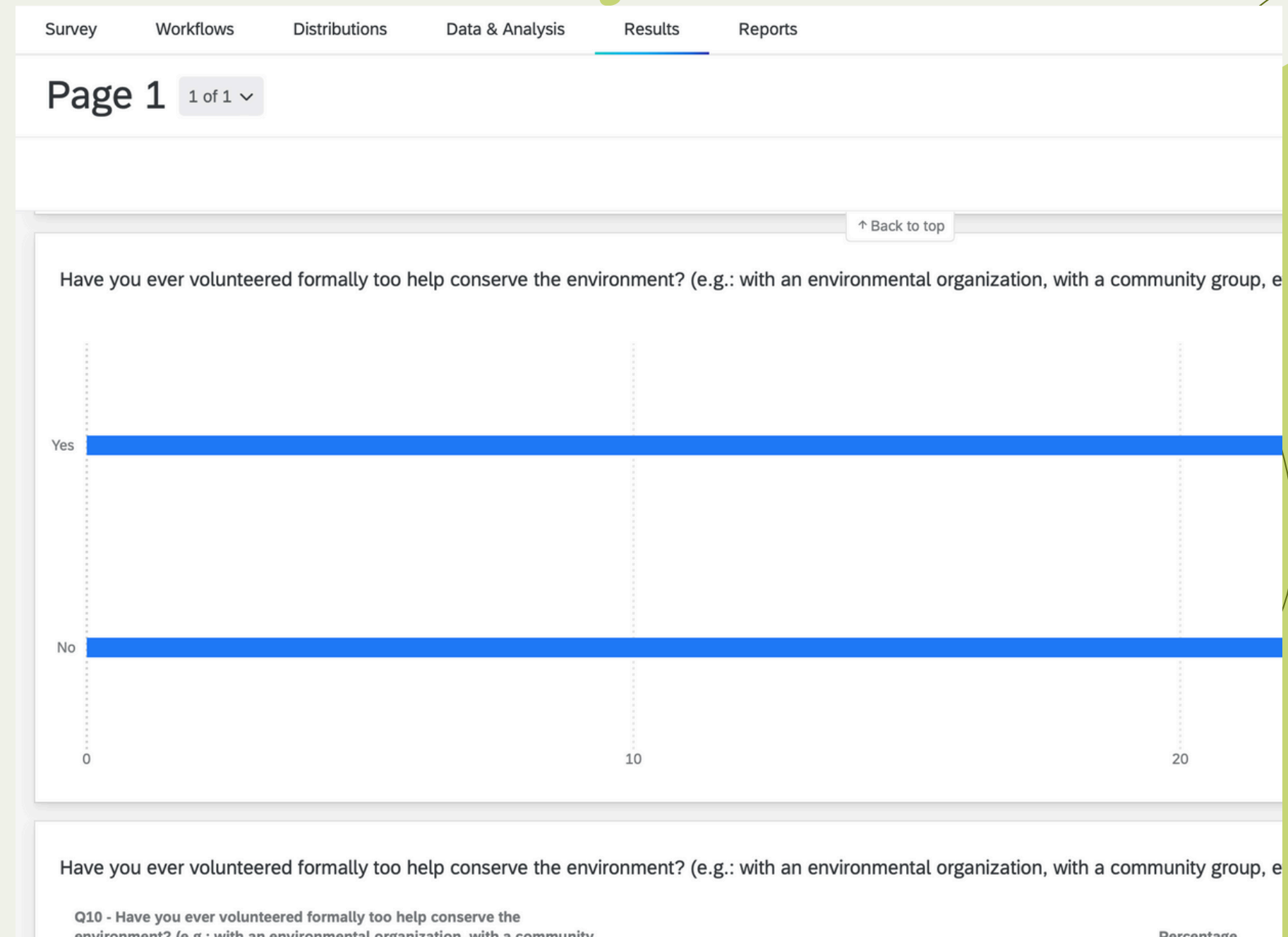
- Curious minds and passionate individuals.
- Students, teachers, and anyone eager to make a difference.



# Green Horizons Podcast

## Content Planning

- Research current environmental challenges and trends.
- Curate topics relevant to the audience (students, survey).
- Plan episodes with a balance of expert insights and actionable advice.



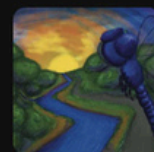
# Green Horizons Podcast

## Promotion


- Leverage social media for outreach and engagement.
- Encourage listener interaction through feedback and story submissions.



## Recent searches







Green Horizons  
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### Green Horizons


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#### Reduce, Reuse, Recycle – Making Sustainable Choices

In this episode of Green Horizon, we'll discuss the famous three R's—Reduce, Reuse, and Recycle—and explore practical ways to integrate them into daily life. Learn how to reduce waste by reducing consumption, get...

6 min • Played 



# The History and Background of Recycling.

What exactly is recycling?

Recycling is the process of gathering and processing materials that would typically be discarded as waste and transforming them into new products.

Recycling can provide advantages for a community, the economy, and the environment.

Items should only be recycled if they cannot be reduced or reused.



## RECYCLING TIMELINE



### Short History



The Mobius Loop was introduced as the symbol for Reduce, Reuse, Recycle. It was created by Gary Anderson after a Chicago-based recycled-container company hosted an art contest to promote environmental awareness.

1965-1970



Republic Services offers weekly collection of residential solid waste and yard waste, along with recycling collection every other week in the City of Edwardsville. Residents can also take advantage of a large item pickup service up to four times a year.

2024



The first Earth Day drew national attention to the growing waste problem and the significance of recycling. Today, over 192 countries observe Earth Day on April 22nd.

1970



Five states passed laws mandating the recycling of unwanted electronics, while San Francisco became the first city in the U.S. to ban grocery stores from distributing plastic bags.

2007



The first recycling mill was established in Conshohocken, Pennsylvania, and beverage container recycling regulations were implemented in Alberta, Canada.

1972



The EPA establishes a connection between global warming and waste, demonstrating that reducing garbage and increasing recycling help lower greenhouse gas emissions.

2000



University City, MO, becomes one of the first cities in the nation to provide curbside recycling for its residents.

1974



The Federal Resource Conservation and Recovery Act is enacted to shut down open dumps and establish standards for landfills, incinerators, and hazardous waste disposal.

1976

# Conservation DIY's and Tips



**Plastic**



**Aluminum Cans**



**Cardboard**





## Did you know that not all plastic is recyclable?

There are two main types of plastics: thermoplastics and thermosets.

Thermoplastics are plastics that can be heated and reshaped repeatedly, making them recyclable. In contrast, thermoset plastics contain polymers that form irreversible chemical bonds during the curing process. As a result, no amount of heat can break these bonds or remelt the material, making thermosets non-recyclable.

[Learn more with rePurpose](#)

Image Credit: photka

# Plastic

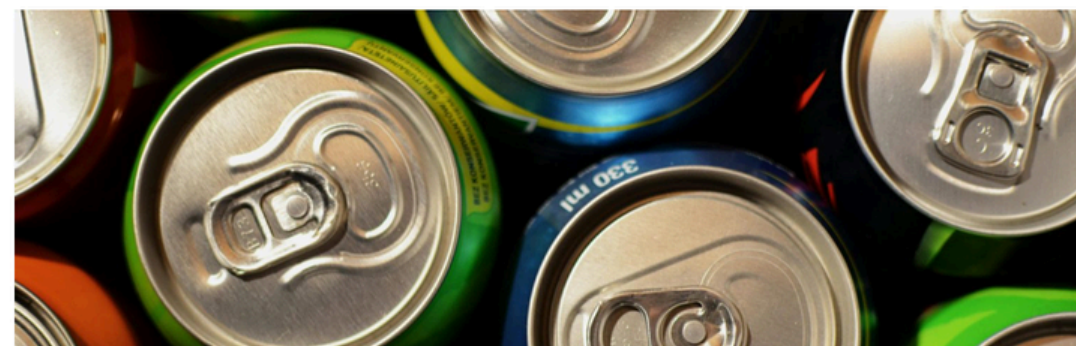
That's right!

Aluminum cans are 100% recyclable and are able to be reprocessed in multiple ways.

Throwing away a single aluminum can is like pouring away 6 ounces of gasoline!



Image Credit:leonard\_c



# Aluminum Cans



## How should you recycle cardboard?

Great question!

As long as your cardboard and paperboard are clean and dry, they can go in the recycling bin. However, wet or greasy items, like pizza boxes or fast food containers, are considered contaminants and should be disposed of in the trash.

Contaminated materials can clog sorting equipment and affect the quality of other recyclables. To get the most out of your curbside recycling, make sure to remove any plastic packaging or bags from your boxes. Flattening them also helps save space in your bin for other recyclables.

# Cardboard






# Missouri and Illinois Greenspace



## Why Greenspace?

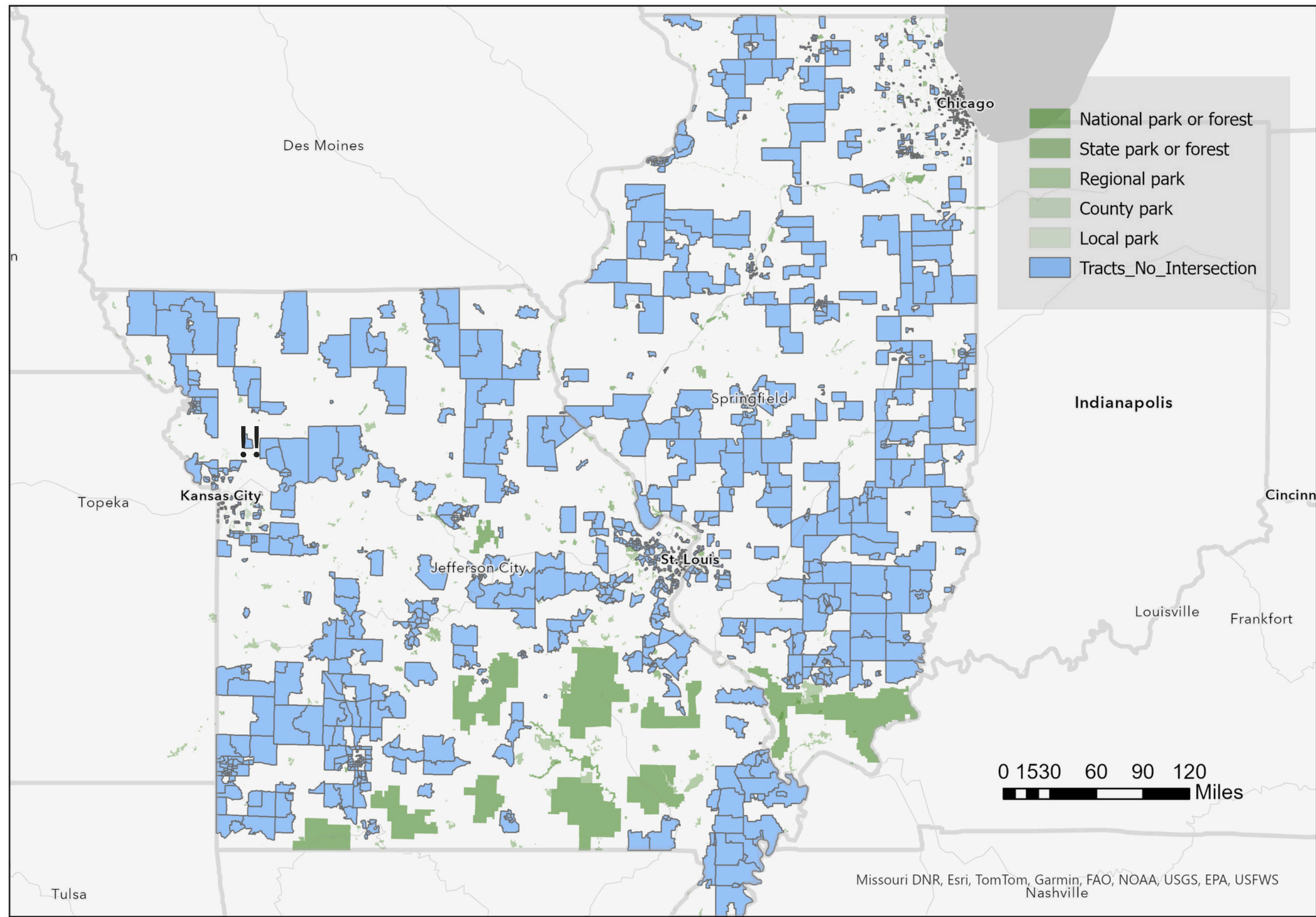
- Greenspace = Necessity
  - Mental and physical health benefits
  - Under researched topic
- 



## Why Mapping?

- Maps are seen as authoritative
- Increased accessibility
- Visual Aids

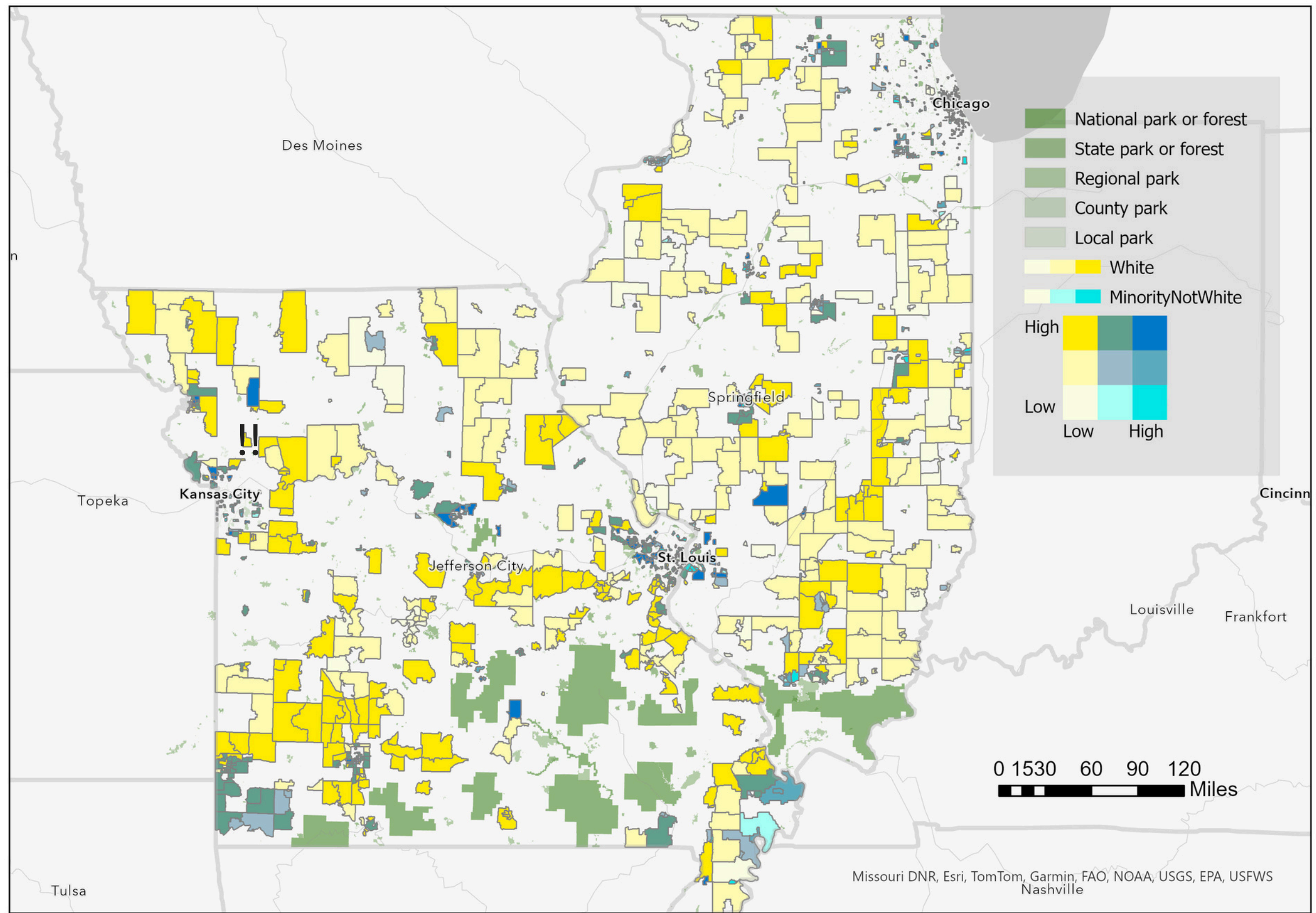




## Map of Illinois and Missouri Census Tracts Not Intersecting Greenspace

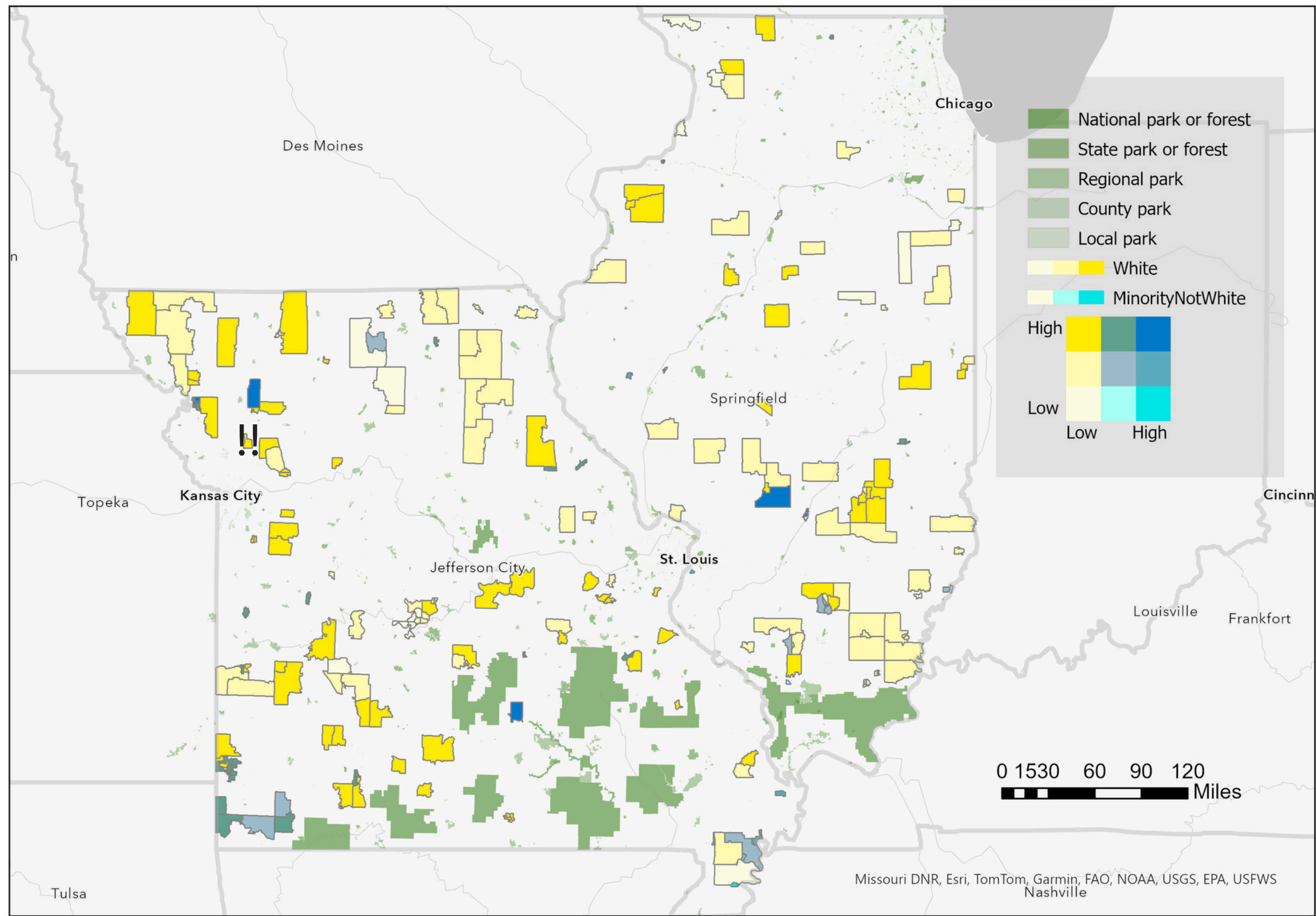
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Auxiliary Sphere  
PCS: WGS 1984 Web Mercator





## Map of Illinois and Missouri Census Tracts Not Intersecting Greenspace

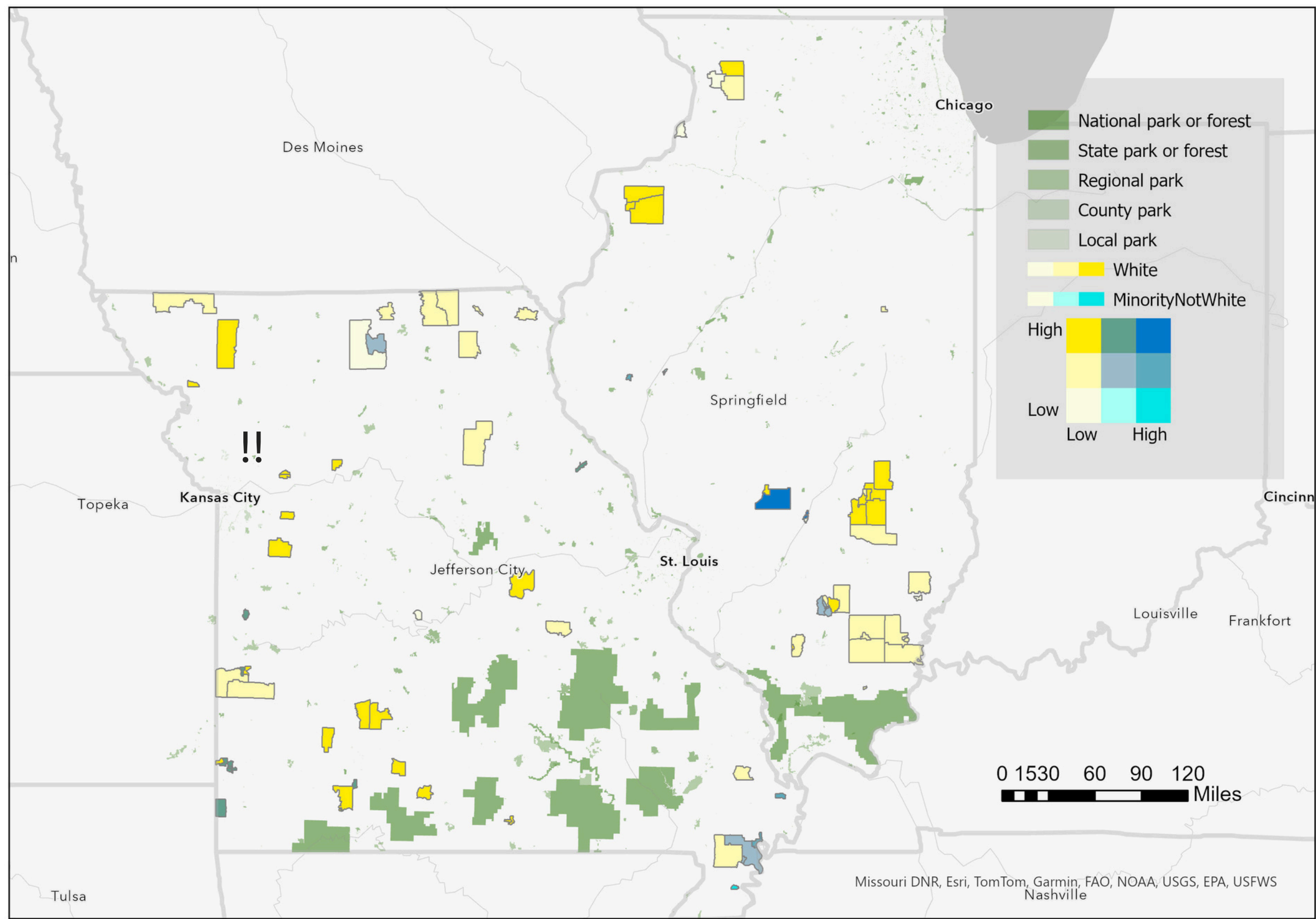
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## Map of Illinois and Missouri Census Tracts Not Within 2 mi of Greenspace

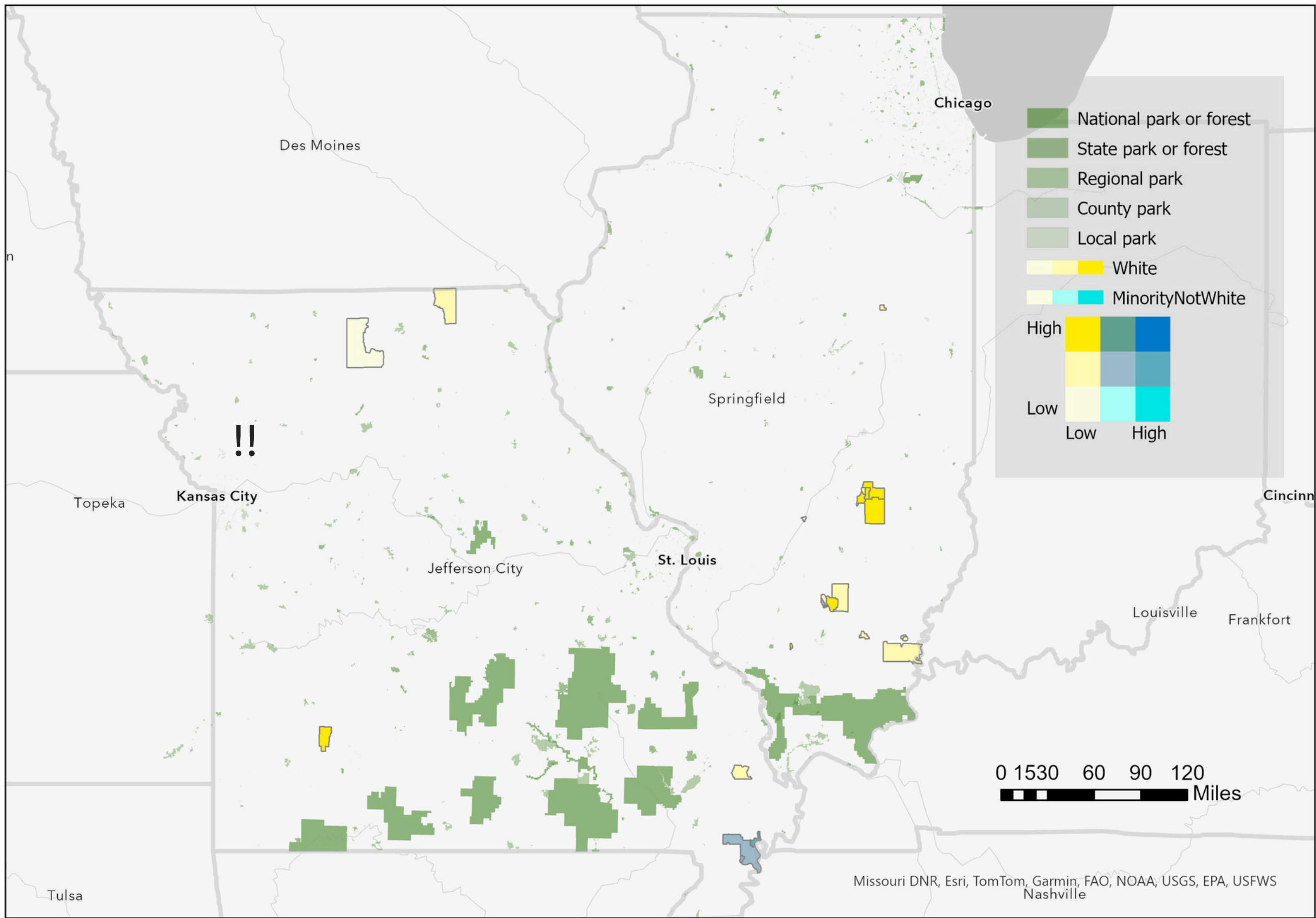
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PCS: WGS 1984 Web Mercator





## Map of Illinois and Missouri Census Tracts Not Within 5 mi of Greenspace

Spatial Reference  
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Auxiliary Sphere  
PCS: WGS 1984 Web Mercator



**Map of Illinois and Missouri Census Tracts Not Within 10 mi of Greenspace**

Spatial Reference  
Name: WGS 1984 Web Mercator  
Auxiliary Sphere  
PCS: WGS 1984 Web Mercator



# Future Plans

- Age breakdown
  - Elaboration on racial breakdown
  - Walking distance vs driving distance
  - Storymap
- 

# Survey



## Purpose:

Our goal of this survey was to understand the when communities become informed and learn about environmental conservation.

## Audience:

Our audience was college students

## Response:

We recieved 54 responses for our Survey



Survey Link



# Powerpoint



Purpose:

Analyze survey data in a different more digestible visible format

Audience:

Anyone Interested in survey results



Powerpoint Link

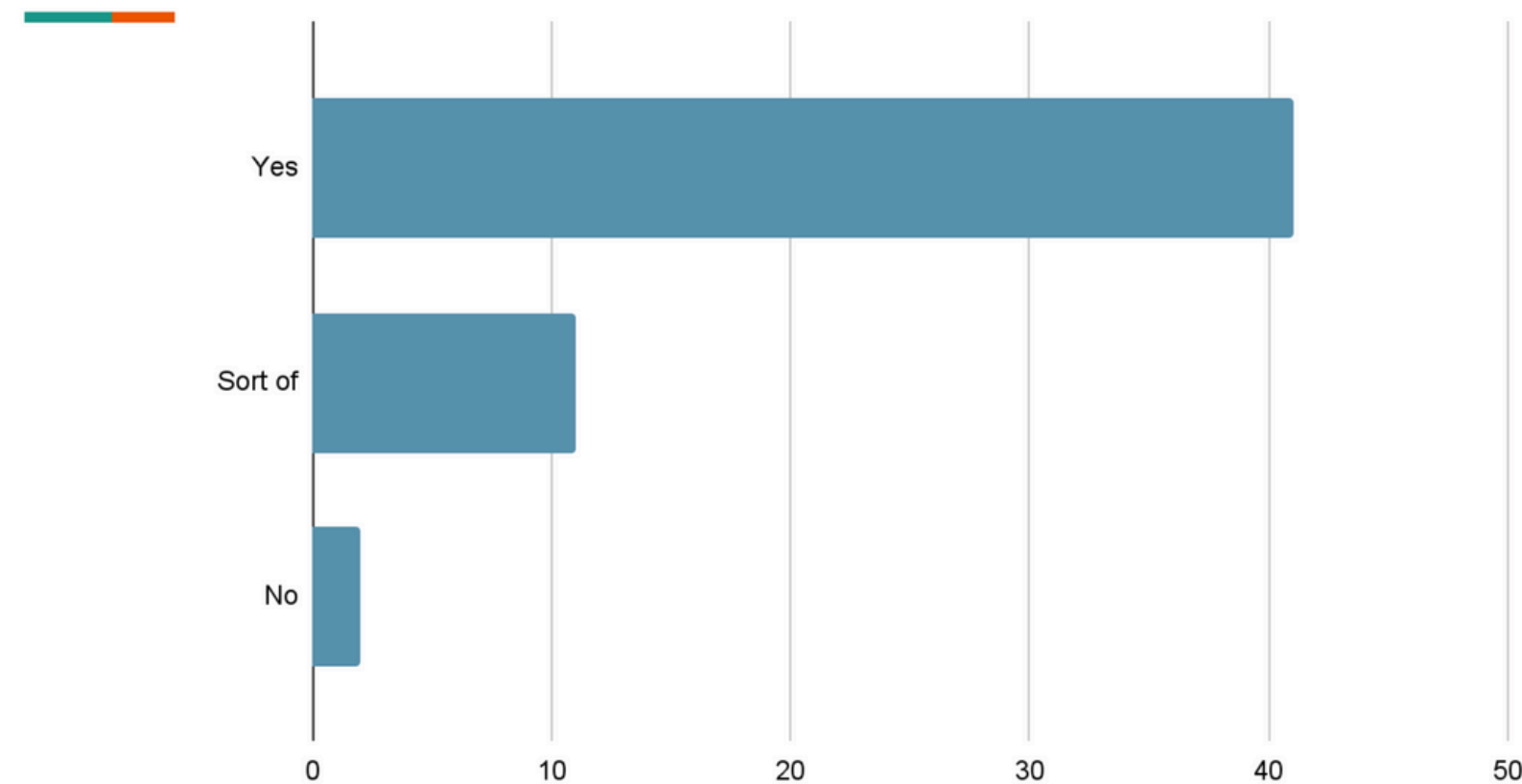




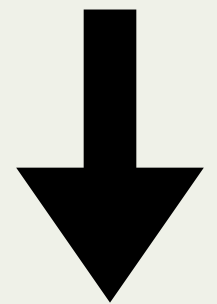
# Did you know what Environmental Conservation was before reading?



## Environmental Conservation Awareness

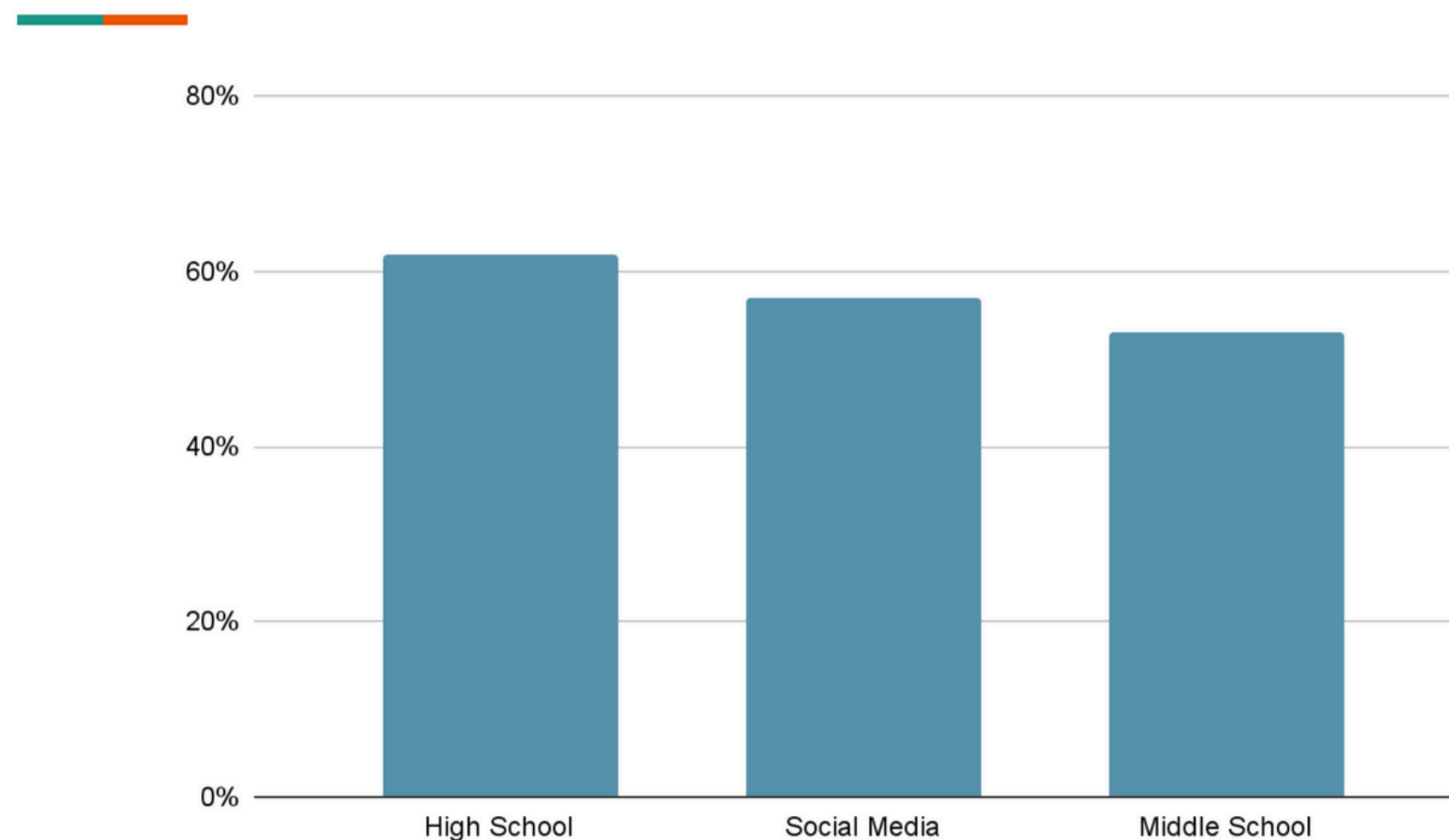


**Powerpoint Link**

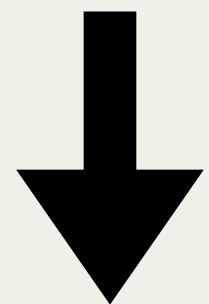


# Where did you learn about Environmental Conservation?

First Exposure to Environmental Conservation



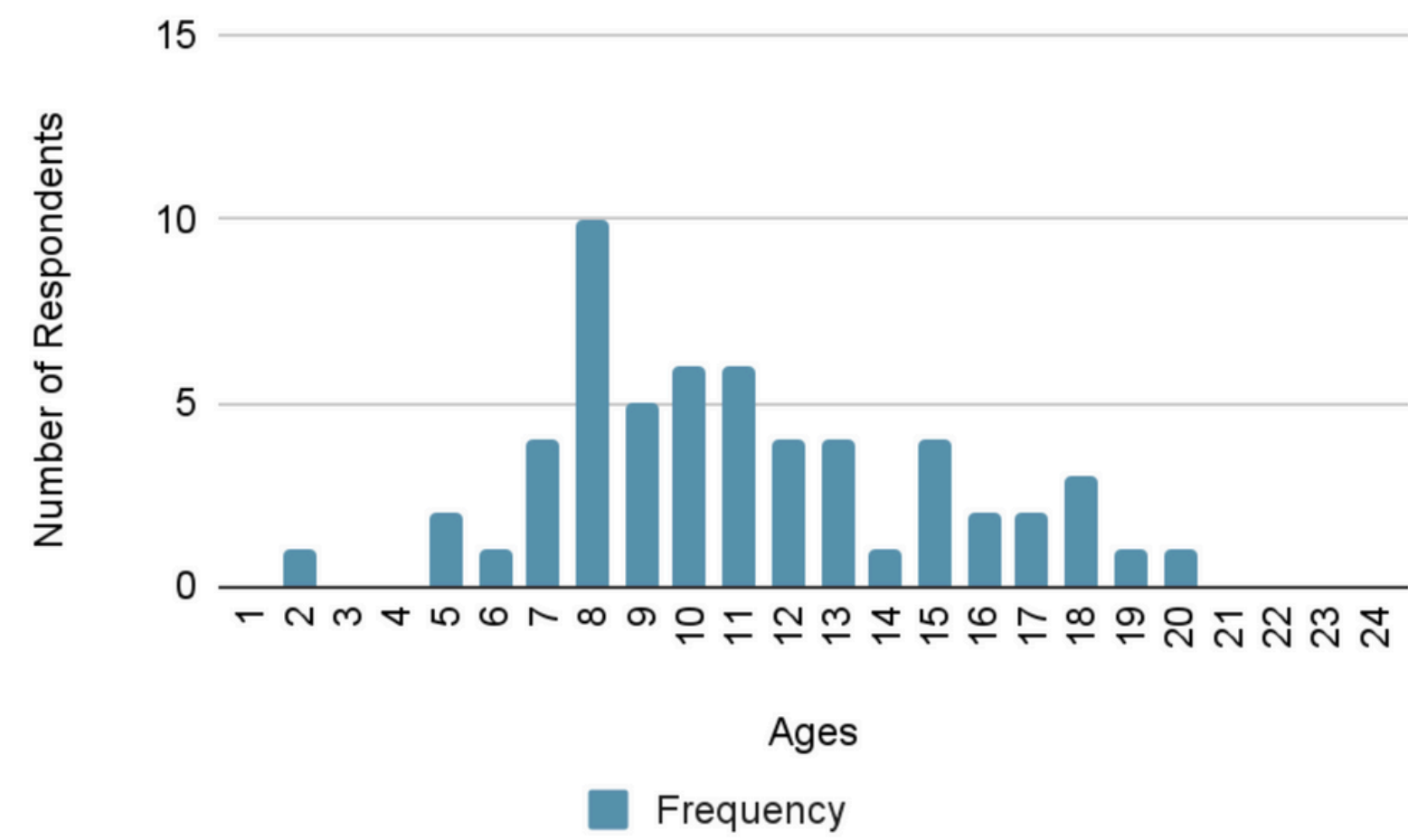
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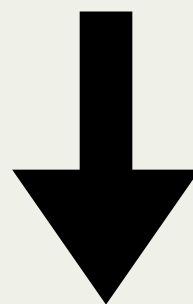
# What Age did you learn Environmental Conservation?



Age of First Exposure to Environmental Conservation



Powerpoint Link





**Thank You For Your Time**







Questions?