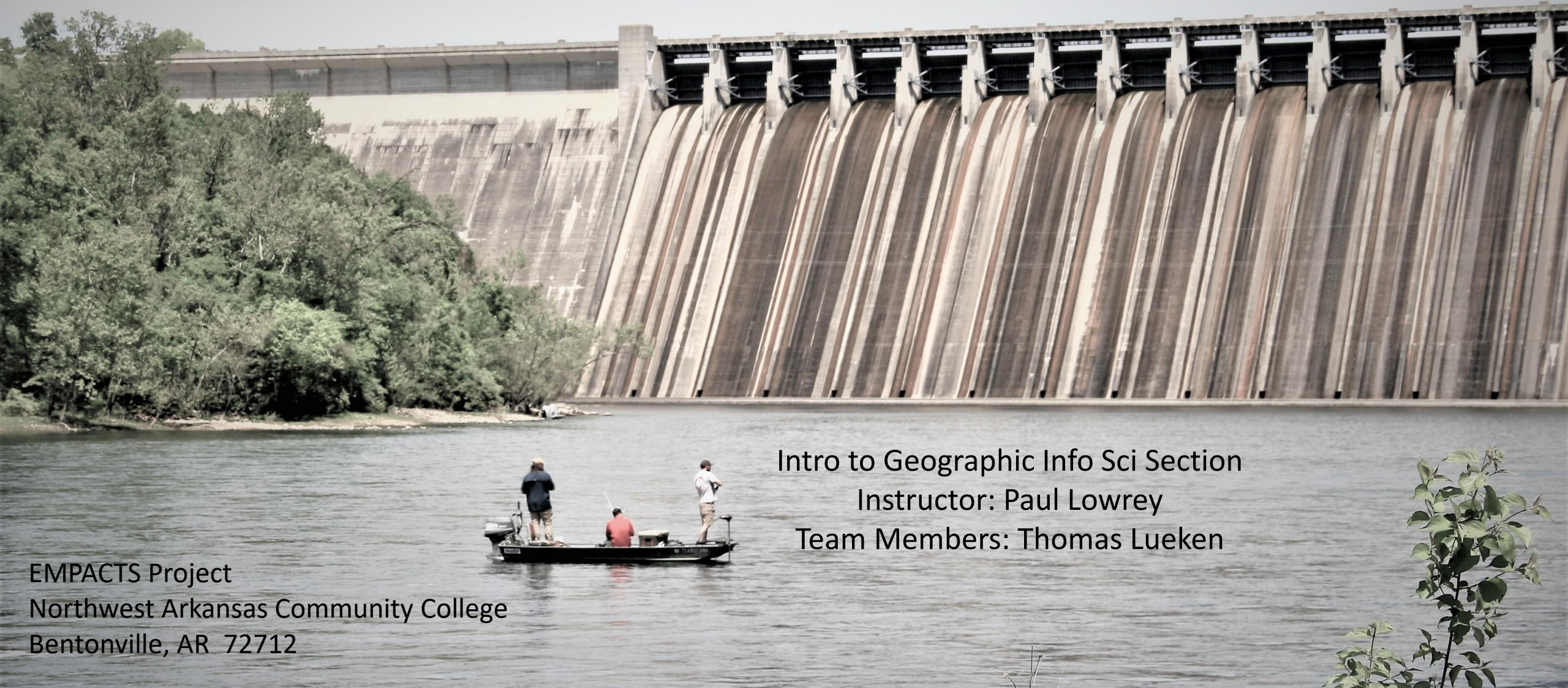


# White River System



Intro to Geographic Info Sci Section  
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Team Members: Thomas Lueken

EMPACTS Project  
Northwest Arkansas Community College  
Bentonville, AR 72712



## Project Introduction

For my project I developed a flow map of the white river in north central Arkansas. This map shows all the lakes, rivers and creeks that feed the white river. This part of the white river is also known as the trout waters of the white river.



## Project Objectives and Outcomes

I created a flow map of the white river system through North Central Arkansas and some areas that you can fish as well. In the areas that I highlighted on the map, you can fish for bass, crappie, walleye, catfish and trout.

If fishing isn't something that you are interested in, you also have 2 lakes that you cruise on or go explore one of the 3 rivers or 1 creek that make up the system. You cannot get bored with all the activities that are available within the surround areas.

This serves any community as a guide to all the numerous activities that you can do while on vacation in central Arkansas or why you would like to take a vacation there. If you are wanting to go an affordable place that is great for the whole and is only about a 3 hour drive from almost anywhere within the state than this is the place for you.

Contacts:

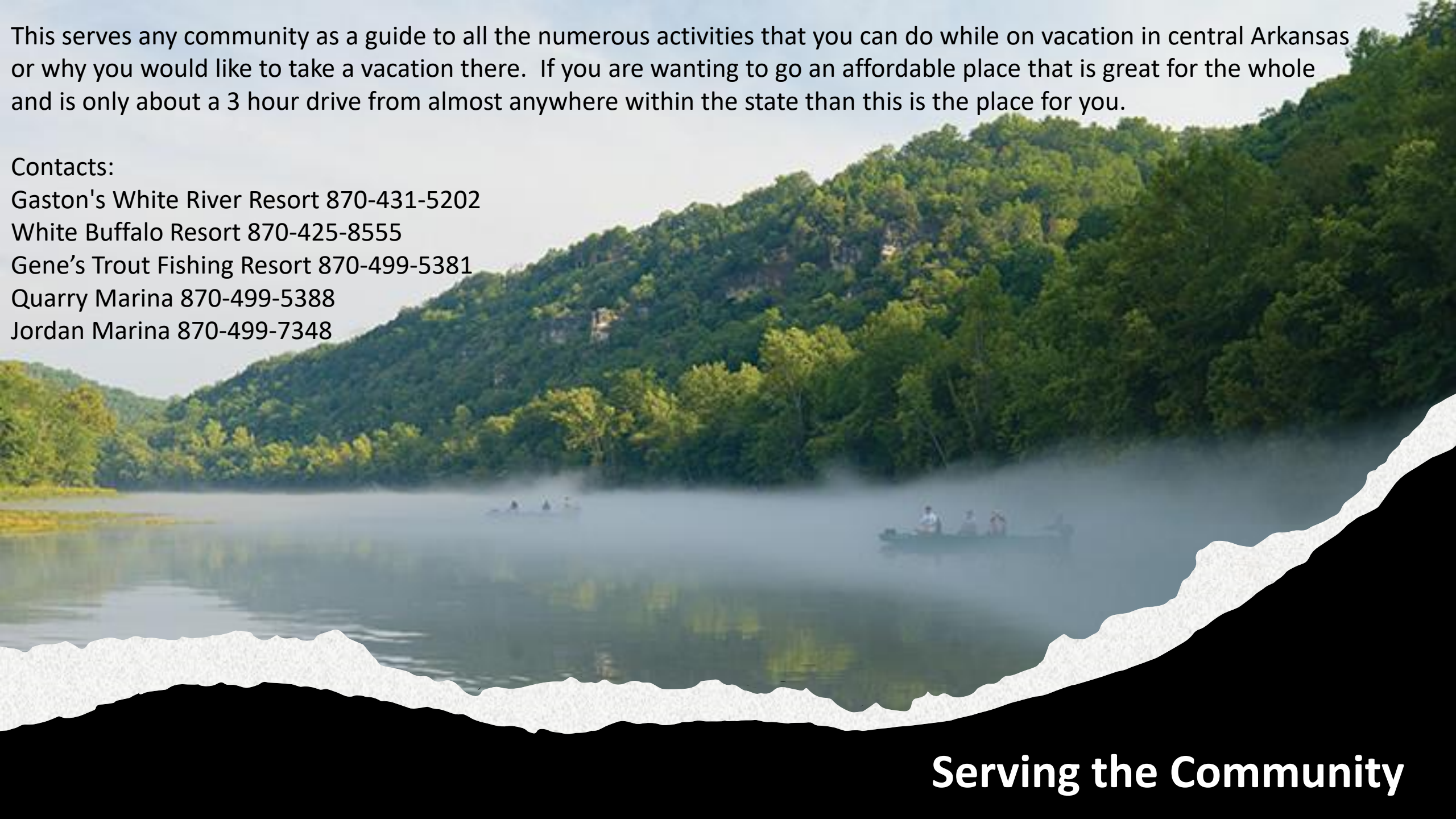
Gaston's White River Resort 870-431-5202

White Buffalo Resort 870-425-8555

Gene's Trout Fishing Resort 870-499-5381

Quarry Marina 870-499-5388

Jordan Marina 870-499-7348



**Serving the Community**

For this project I learned how to search for gis data and add it to a map. I also learned how to add polylines and add layers into a map as well.

Map projections and coordinate systems.

Raster and vector data and the essential differences between the two.

Symbolizing and classifying features for optimum map display and analysis.

Creating subsets from the database through attribute and location queries.

Generating new data sets through combining existing data layers (geoprocessing)

## Curricular Goals

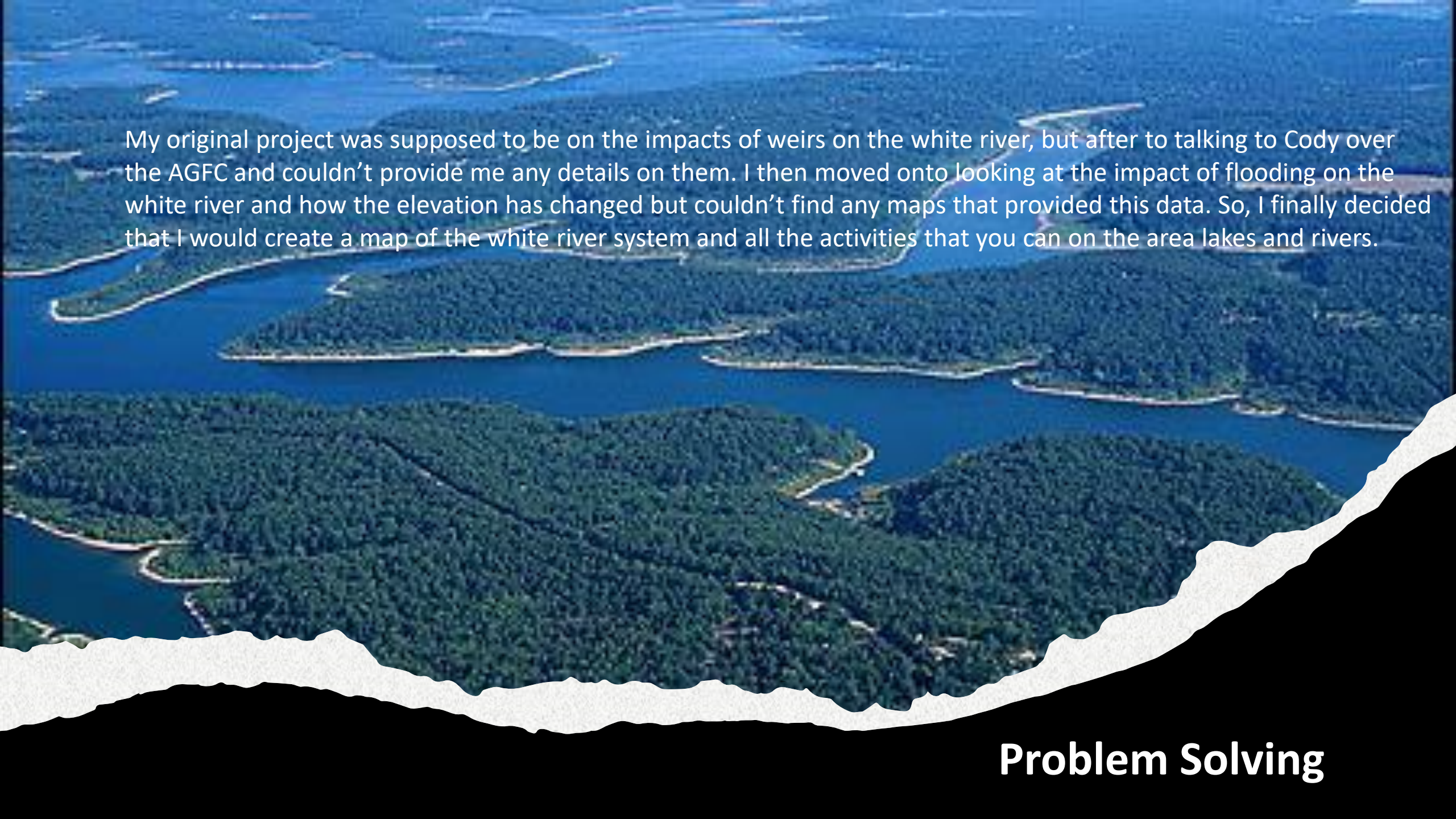


Digitizing and editing new map features  
and their attributes

Producing quality presentation maps  
from templates and other resources

Exploring and utilizing the growing  
capabilities of webGIS.



An aerial photograph of a large reservoir with a winding river and several forested islands. The water is a deep blue, and the surrounding land is covered in dense green trees. The image is framed by a white, torn-paper-like border at the bottom.

My original project was supposed to be on the impacts of weirs on the white river, but after to talking to Cody over the AGFC and couldn't provide me any details on them. I then moved onto looking at the impact of flooding on the white river and how the elevation has changed but couldn't find any maps that provided this data. So, I finally decided that I would create a map of the white river system and all the activities that you can on the area lakes and rivers.

**Problem Solving**

For this project I used the [ArcGIS](#) online web cloud to find the data that I needed for this project.



**Technology**



# Methods

For my project I used my personal knowledge of the area since I have grown up in that area and know a lot about the area. I also used photos my from phone as well to put in this presentation.

*Personal Data Collection*



This project could be used a pamphlet to hand out to people about all the great things that north central Arkansas has to offer. It is a very hidden gem within Arkansas that not a lot of people don't know about.

## Products and Results



# Skills Developed

The skills that I learned from this, is that the design thinking process is not always easy. You must always be thinking of how can I improve on this project and what happens if my idea doesn't work. I had to go back to the drawing board several times before I finally got something that I could use.

Another thing that I learned is that you must always use your resources. I talked to several different people about how to go about this project, and they provided me feedback





- Link to my ArcGIS map:

<https://arcg.is/1m01He>

- Link to StoryMap

<https://arcg.is/fj911>

References: [https://dehayf5mhw1h7.cloudfront.net/wp-content/uploads/sites/683/2020/05/19092605/Wirerea\\_dy\\_05-19-2020-09-26-04\\_00008\\_BullShoalsDam-600x330.jpg](https://dehayf5mhw1h7.cloudfront.net/wp-content/uploads/sites/683/2020/05/19092605/Wirerea_dy_05-19-2020-09-26-04_00008_BullShoalsDam-600x330.jpg)

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[https://www.google.com/url?sa=i&url=http%3A%2F%2Ftroutcapitalusa.net%2Fwhite\\_river.html&psig=AOvVaw3MqG64Afr6iEyTpz1KgveP&ust=1620190638354000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCOjprNGer\\_ACFQAAAAAdAAAAABAD](https://www.google.com/url?sa=i&url=http%3A%2F%2Ftroutcapitalusa.net%2Fwhite_river.html&psig=AOvVaw3MqG64Afr6iEyTpz1KgveP&ust=1620190638354000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCOjprNGer_ACFQAAAAAdAAAAABAD)

