

# What is Stream Team?!

- Citizen Science program we use regular people to collect real scientific data
- Students are trained on stream ecology and data collection methods
- We will visit many outdoor locations to learn about the environment
- We will choose ONE stream to 'adopt' and collect data from
- This is a VERY hands-on program you will be in the creek, you will get your hands dirty, you will touch critters, you will be outside as much as possible!
- This program is relatively new across the state... there are a few other counties that have Stream Teams, but we hope there are more in the future!

# Schedule – Meetings are on Thursdays from 5-7 p.m.

#### Meetings will be scheduled according to weather and available resources.

- March 10 Herpetology Boone County Nature Center
- March 24 Herpetology either Middle Creek or Conservancy Park
- April 7
- April 28
- May 12
- May 26
- June 9
- June 23
- July 7
- July 28

Visit different streams to learn about aspects of stream ecology

- Data collection at our adopted stream/Community Service project
- Celebration day!

• Can't remember where the next meeting is? What do you need to know before each meeting? How do I contact the staff?

http://bccdky.org/stream-team/

### How is the Data used?

- Previous citizen science data can be found here:
  - <u>https://kgs.uky.edu/wwky/main.htm</u>
- Our data is used by researchers and watershed planning coordinators at University of Kentucky and Kentucky Division of Water
  - Last year's Stream Team Data is available here:

https://kygs.maps.arcgis.com/apps/webappviewer/index.html?id=2a929f196e55 4e20964c8f333415bafe

## Icebreaker

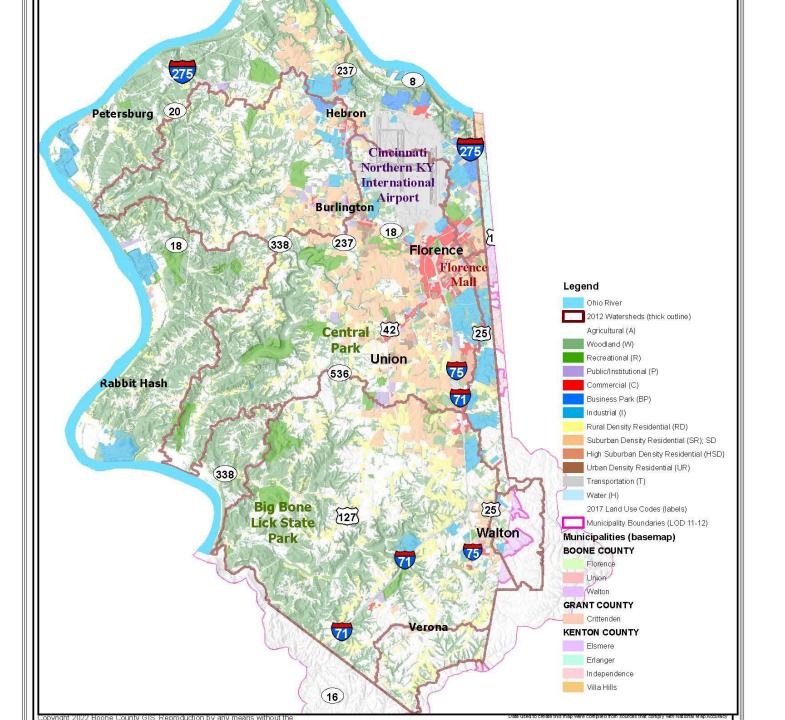
- What makes up a stream ecosystem? How do the following play a role in stream ecology:
  - Water
  - Precipitation
  - Salamanders
  - Dead logs/leaves
  - Rocks
  - Fish
  - Great Blue Heron

- People
- Oxygen
- Sunlight
- Insect larva
- Trees
- Algae
- Soil

# What is a watershed?

A watershed is an area of land where all the water drains into a central body of water

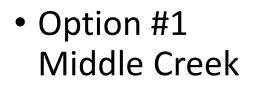
The maroon boundaries in this map show the major watersheds in Boone County. They are all a part of a larger watershed: The Ohio River. How do you think land use impacts the rivers in each watershed?



# Adopt a Stream!

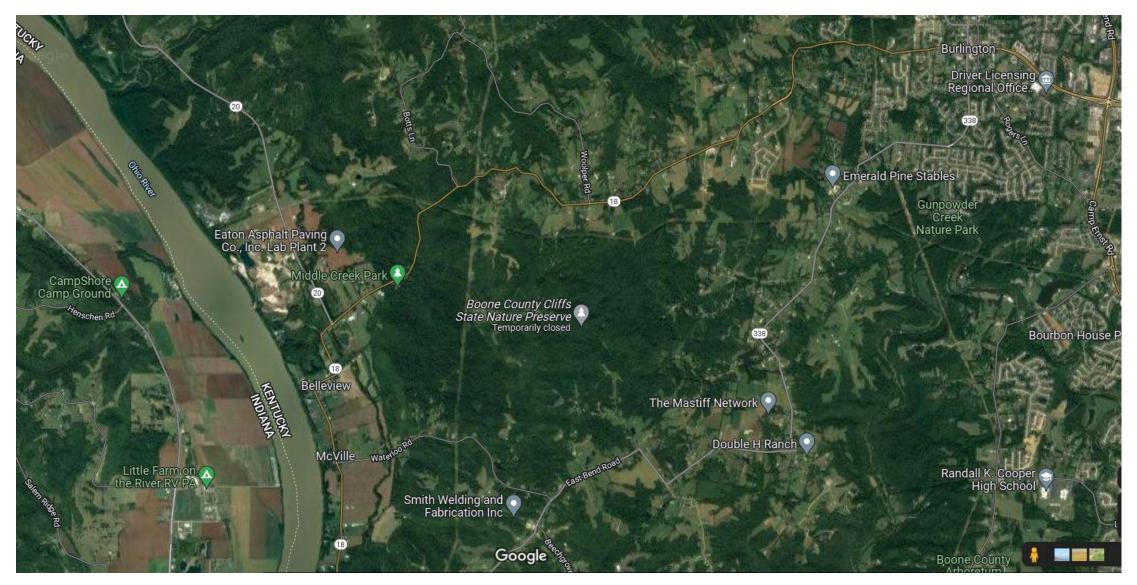
• Option #1 Middle Creek







#### Option #1: Middle Creek



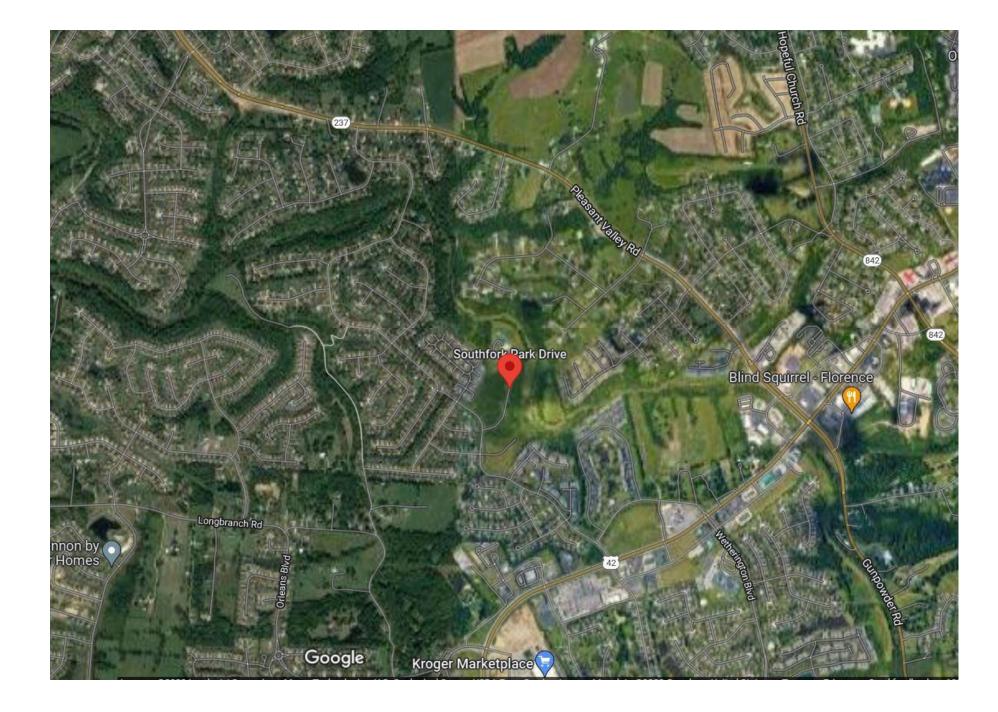
#### Option #2 South Fork



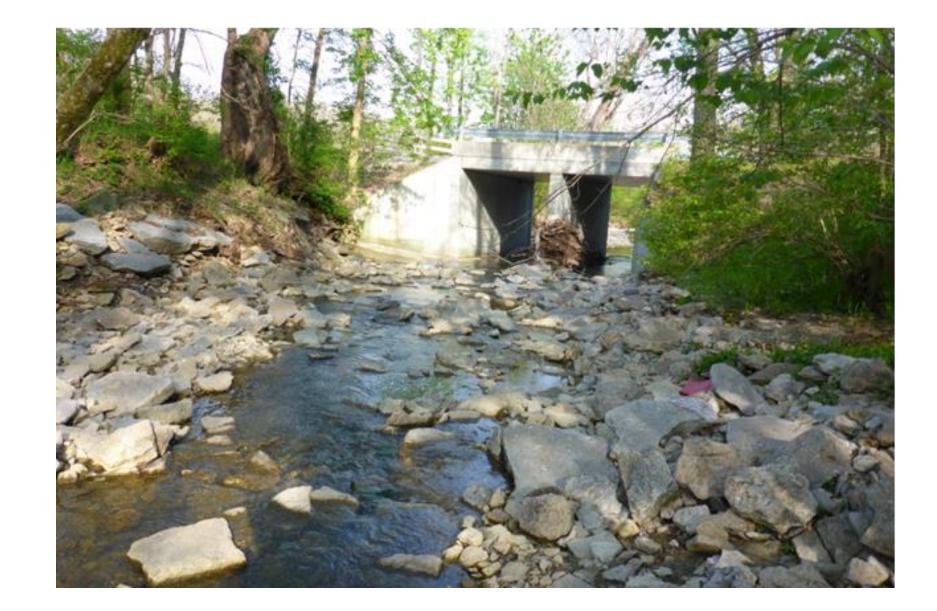
#### Option #2 South Fork



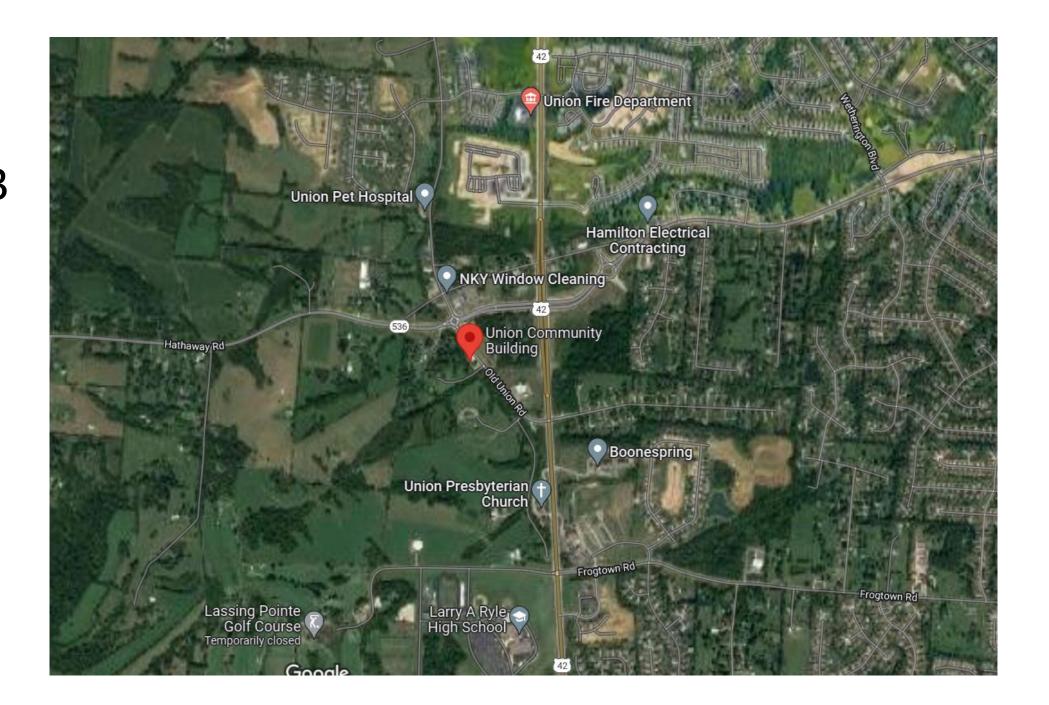
#### Option #2 South Fork



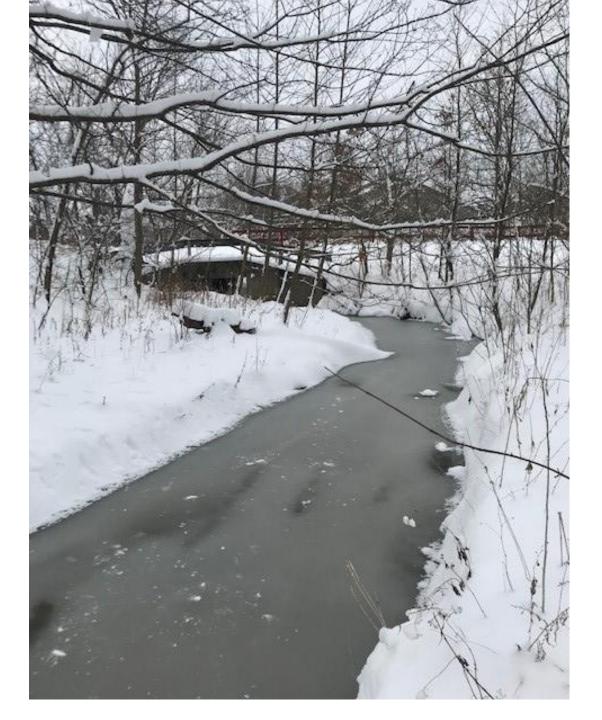
Option #3 Fowler's Creek



Option #3 Fowler's Creek



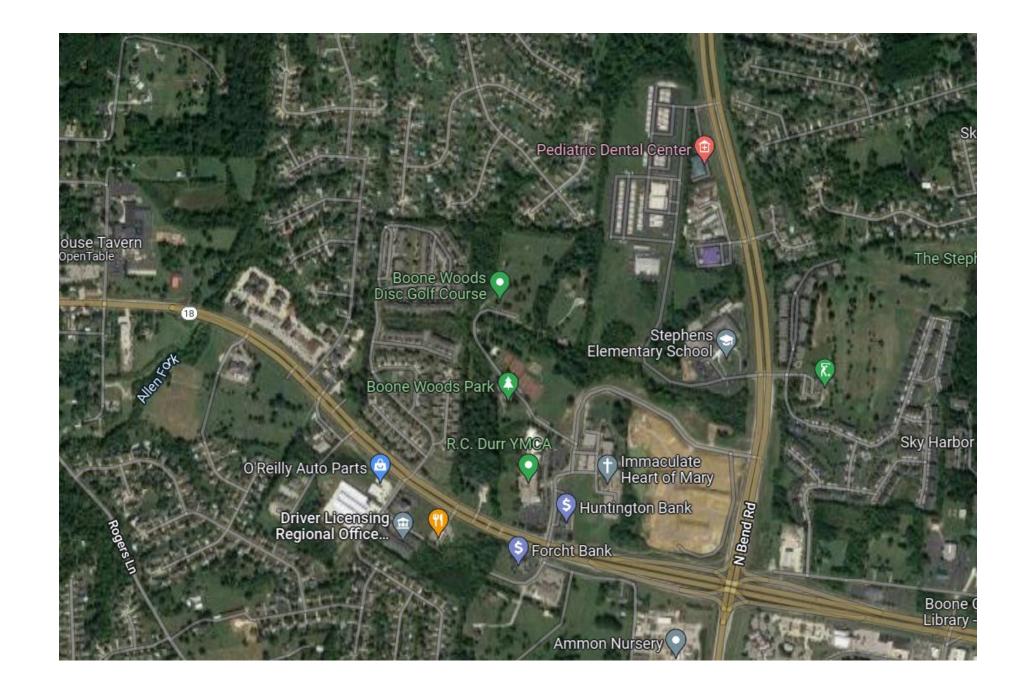
Option #4 Boone Woods



Option #4 Boone Woods



Option #4 Boone Woods



### **Overview of Data Collection Methods**

# Chemical Measurements

- pH
- Dissolved Oxygen (DO)
- Physical Measurements
  - Turbidity
  - Temperature
- Biological Measurements
  - Macroinvertebrates

# Community Service Project

Ideas????

This program will be implemented by YOU, the students! Outside community partners and volunteers are welcome

Brainstorm:

Litter clean up, tree planting, making educational signs...

# Next Meeting

- Thursday, March 10
  - 5-7 p.m.
  - Boone County Nature Center (9101 Camp Ernst Rd, Union, KY 41091).
  - Bring mud boots!

http://bccdky.org/stream-team-2022/