



# Welcome!

# What is OUR Watershed?

# TODAY:

- Learn a bunch
- Talk about it

### Create and have fun!

# TOMORROW:

Parents: feedback survey

# NEXT WEEK:

Same time, same place, different room





#### Saturday, March 8th, 1-2:30pm What is OUR Watershed? (at Nurture Nature Center)

Join us as we learn about watersheds and how water flows through the landscape. We'll look at some maps of local watersheds and design our very own watershed scene with lots of fun materials and watch how "water" runs through it in the end.

#### Saturday, March 15th, 1-2:30pm Water is everywhere – Global use of water and the Water Cycle (at Nurture Nature Center)

We'll follow a drop of water to learn about the water cycle and why conserving and protecting our fresh water is so important. This session includes a Science on a Sphere program, hands-on demonstrations and a water filtration activity.





#### Saturday, March 22nd, 1-2:30pm

Observing and Documenting Waterways/Nature Journaling 101 (at Nurture Nature Center) We'll put together our own journaling kits and look at creative ways to capture what you see and experience around the streams and river. Who lives there? What can you discover from your observations? We'll also learn about things that are important to look for in checking a stream's health.

#### Saturday, March 29th, 1-2:30pm Focus on Floods (at Nurture Nature Center)

We'll look at river and creek flooding and how it has affected the City of Easton. Why does it flood here? We'll get 'hands-on' with the flood table and learn where we can view data that's collected that tells us the river height and predicts future flooding. Then, we will put materials together to begin to build our own emergency preparedness kit to help our family, pets, and neighbors during a flood.





#### Saturday, April 5th, 1-2:30pm (Raindate: April 12th) Out in the Field: Observing and Testing the Bushkill Creek (Outdoors on the Karl Stirner Arts Trail) Meet at the Blue Bridge! Let's try what we've learned about journaling outdoors, and work together to fill out some field notes and do some scientific testing on the water. A member of the Bushkill Stream Conservancy will tell us about what they do to help the watershed and all that

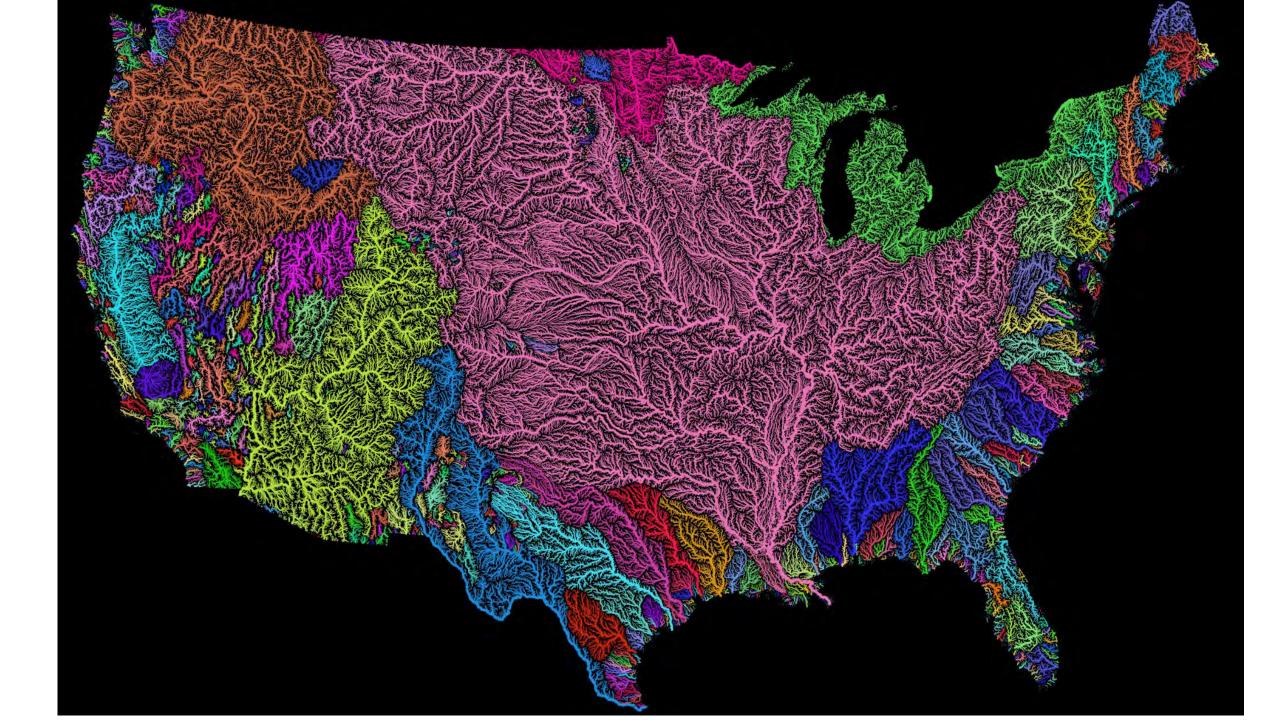
Registration required: https://www.signupgenius.com/go/NNCwatershedexplore

call it 'home' stay healthy.

Financial and other support for "Connecting Youth to Local Watersheds: A Placed-based Multi-disciplinary Watershed Education Program" has been provided by the Department of Environmental Protection's Environmental Education Grants Program



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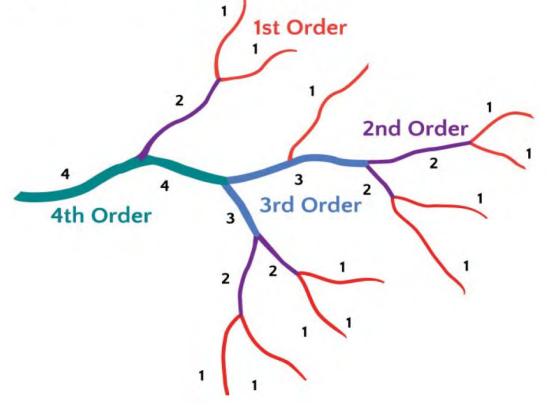


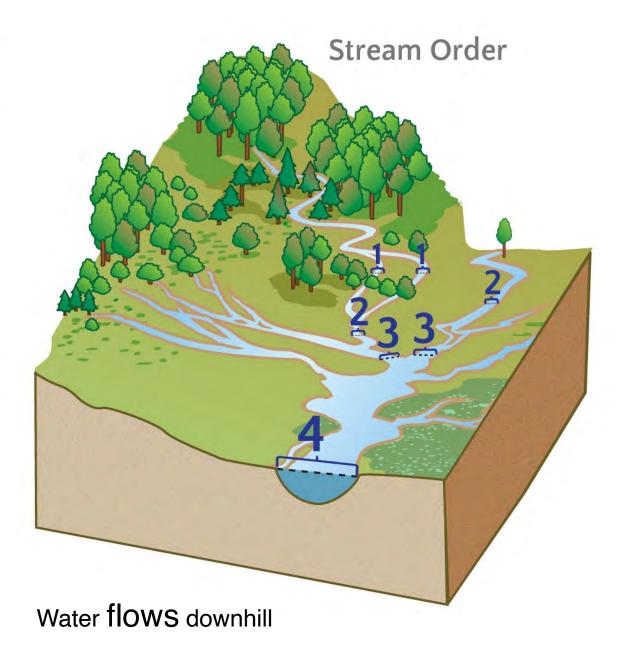


## **Rivers and Streams**

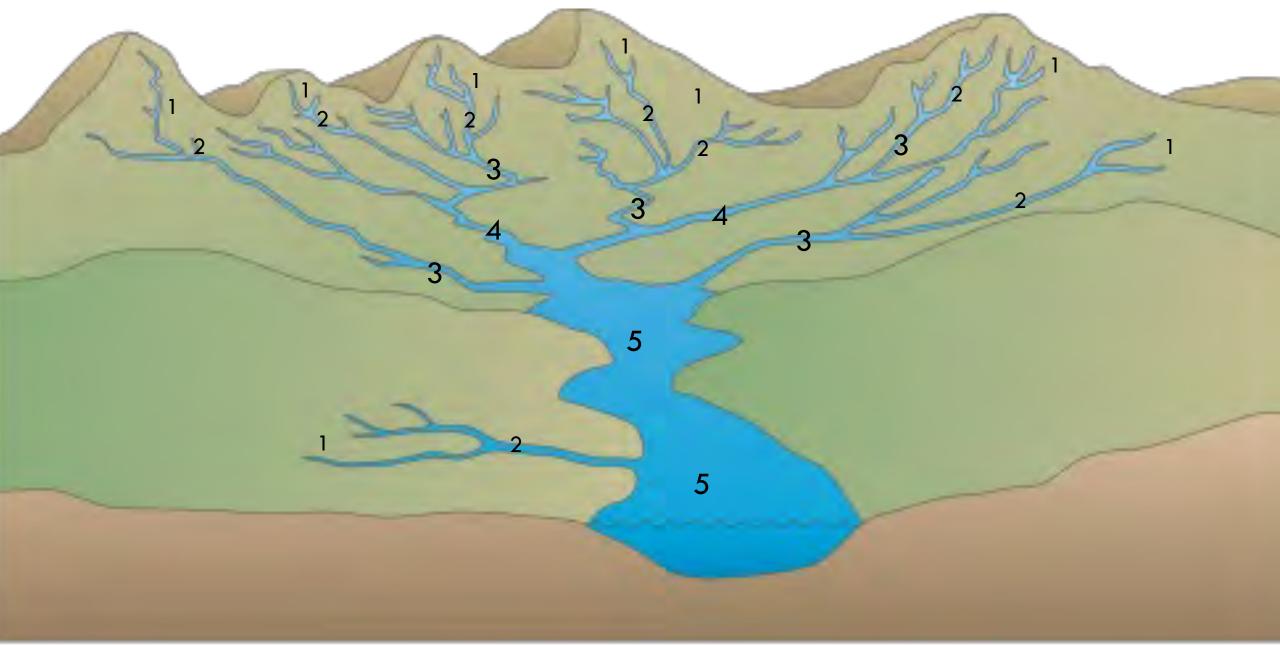
Stream order is a measure of the relative size of streams.

- The smallest is first order as water exits the ground.
- The largest is twelfth order, such as the Mississippi and the Amazon.
- Tributary is a term used for a stream that enters into larger streams which may or may not change the stream's order.

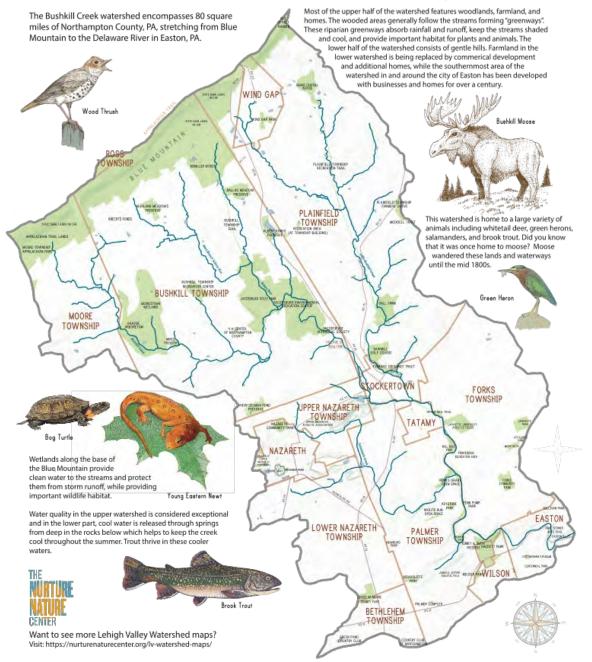




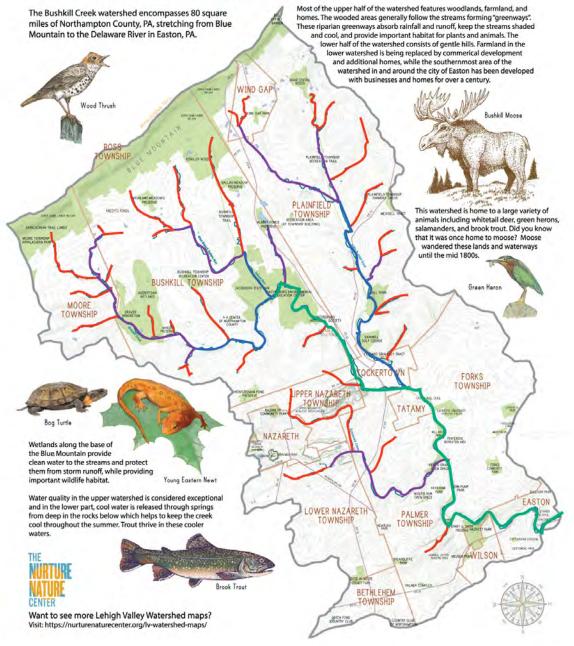
## **Rivers and Streams**



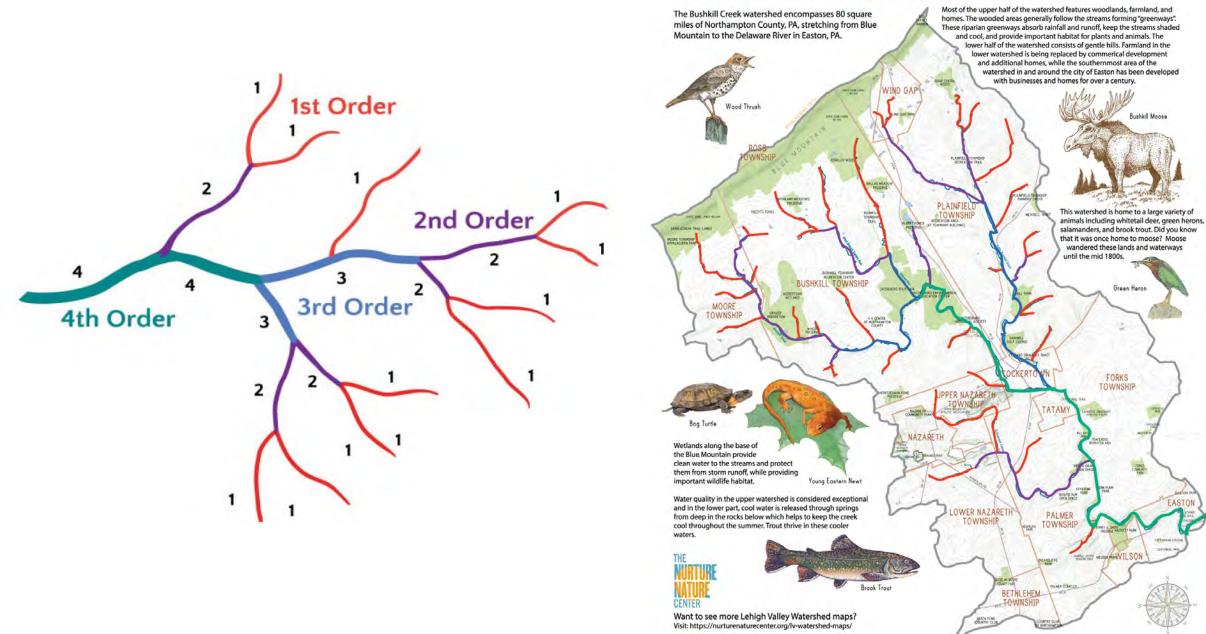
### BUSHIKILL CREEK WATERSHIED

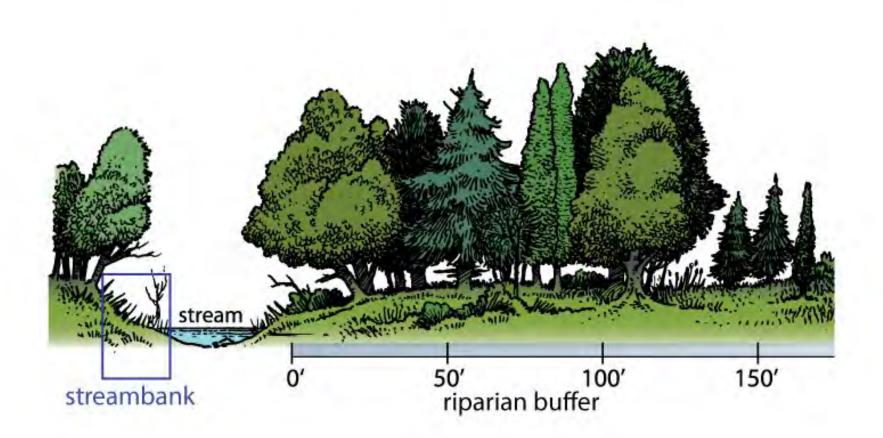


## BUSHKILL CREEK WATERSHED



### BUSHKILL CREEK WATERSHED









### Trees

- Help stabilize the streambank
- Cool the water
- Filter the water
- Provide food and shelter

#### A Watershed:

- Is an area of land that drains precipitation to a particular body of water. A watershed can range in size from a few acres to millions of acres.

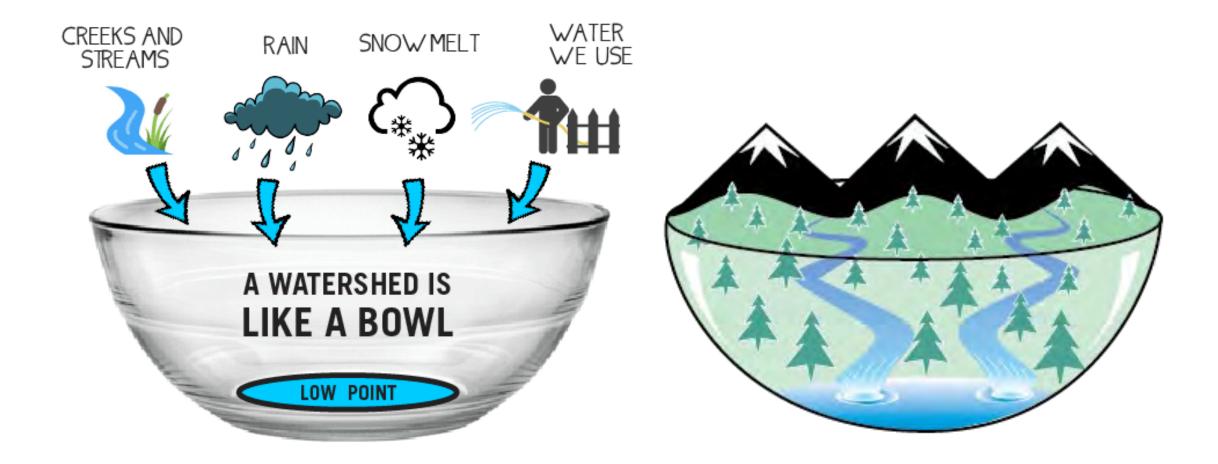
### Everyone lives in a watershed!

- The three major watersheds in Pennsylvania are: the Delaware, the Susquehanna, and the Ohio.
- Pennsylvania has more than 84,000 miles of waterways.

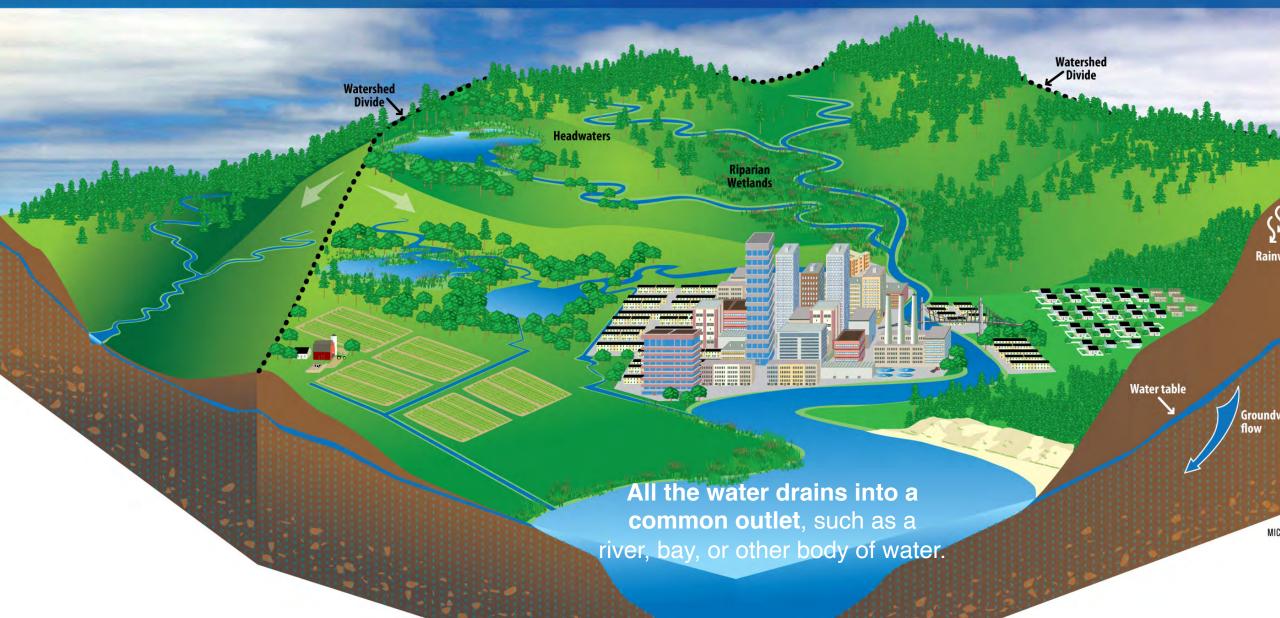


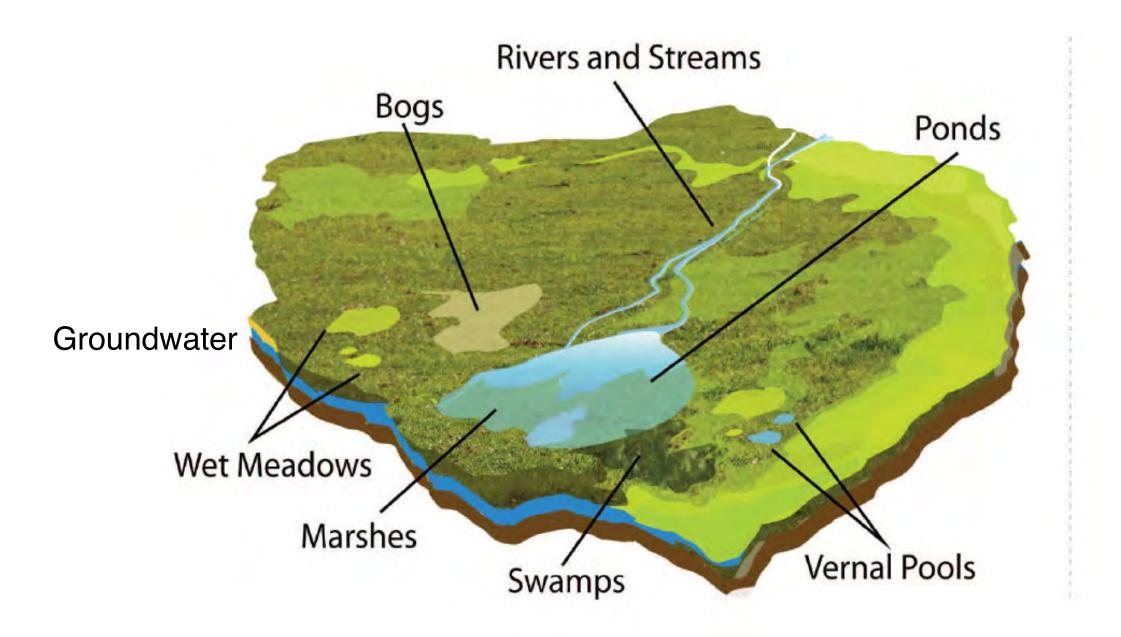
# A Typical Watershed FOREST STREAMS/ TRIBUTARIES **VALLEY FLOOR** WETLANDS GROUNDWATER AQUIFER

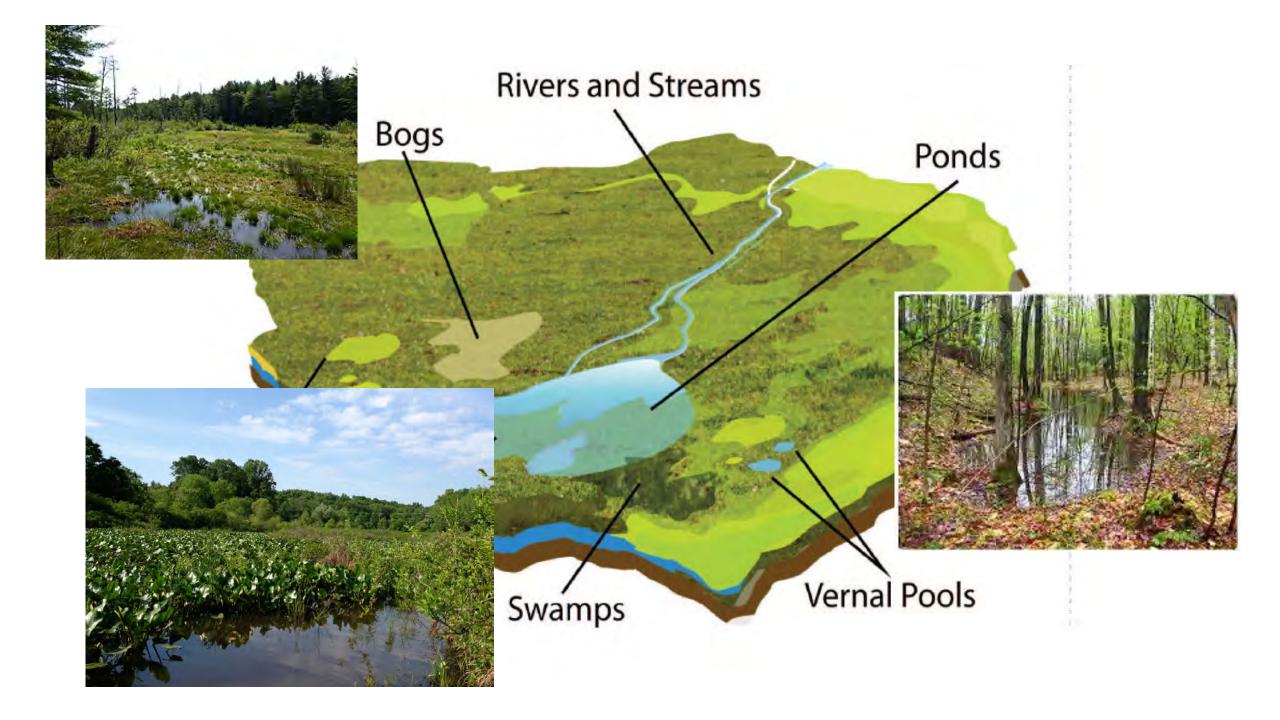
## What is a watershed?



# **HOW WATERSHEDS WORK**







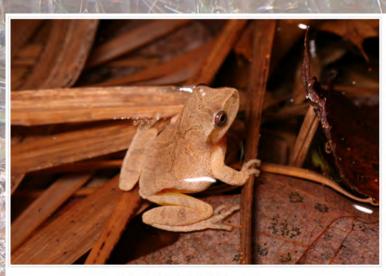
# VERNAL POOL





Wood frog (Lithobates sylvaticus). Credit: Jack Ray

Adult spotted salamander (Ambystoma maculatum). Credit: Charlie Eichelberger



spring peeper. Credit: Charlie Eichelberger



Box turtle (*Terrapene carolina carolina*). Credit: Sally Ray



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# SWAMP

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See the Quakertown Swamp https://youtu.be/9700hE9boVQ?si=p3H6jlmMe-c1qteZ

## BOG

See the Tannersville Cranberry Bog httpsyoutu.be/EGg8xwIMNWY?si=A\_J3uL4JmqH\_a-59

