



**July 14, 2018**

**is our next sampling date**

Reminder to contact [Lynn](#) 513-615-2538 or [Teresa](#) 513-706-8991 if you cannot sample.

## Sampling Reminders

- Keep the cooler lid closed as much as possible
  - Remember to grab bottles for the following month. It's always helpful to have a spare bottle in case one accidentally jumps into the creek.
  - Provide labels that say dry, or too low to sample, if that is the case.
  - Remember to sign in your samples in the lock box then place your sample in the cooler.
  - Please mark the time and date on your labels of when you collected the sample. None of the sample times should be the same unless you are a time traveler.
  - Sign your sample into the cooler with the drop off time.
  - **Duplicate samples** - when you sign them into the cooler, put the number "2" next to the sample ID.
  - **Duplicate samples** - use the month that is on the label. Remember to talk to Teresa if you will be out of town that month and she can switch dates for you.
-



## Stream Bug Class

July 21, 9 - 11 am

**Gregory Creek: Dudley Woods Park, Hankins Rd in Liberty Twp**

We will sample the macroinvertebrates and use them to assess the water quality. We will spend some time in the creek, so be prepared to get wet. If you are interesting in attending, [please let Lynn know](#) so we will have enough equipment.

Last month, at Indian Creek, we had several members of the Buckeye Fly Fishers join us. They hope to adopt a few sites and sample the biodiversity annually. This is something that you can do as well after attending this class. We have loaner kits of all of the materials.

---



## Kayak Trip- Save the Date

August 18

Location TBA

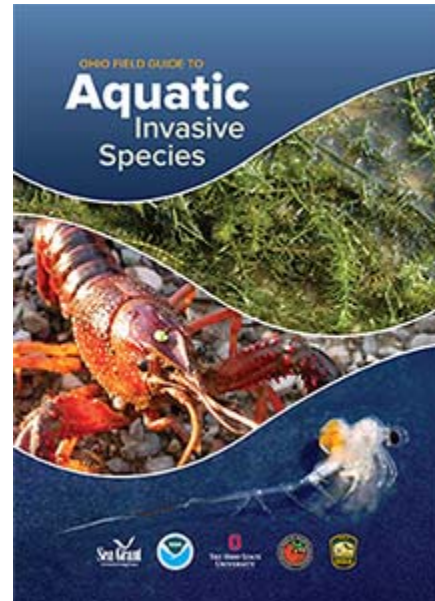
I've heard from several people about availability for the kayak trip. It looks like more people are available on August 18, so we aim for that date. Bob and I are still working on details.

---

## Ohio Field Guide to Aquatic Invasive Species

Aquatic invasive species (AIS) include both plants and animals that have been introduced to our waterways and have become harmful to native species and their habitats. AIS may live entirely within or partially in an aquatic habitat. Below is a list of some Ohio's top threats.

[Field Guide](#)



## Don't Touch! A Scientist's Advice For Spotting Poison Ivy Before It Ruins Your Summer

It was a close encounter in 2012 that made microbiologist John Jelesko take an interest in poison ivy.

[The Virginia Tech professor](#) was cutting up a downed tree with an electric chainsaw. What he didn't realize was that his power cable had been dragging through poison ivy. So at the end of the day, as he coiled the cord around his palm and elbow, he inadvertently launched a career-bending science experiment.

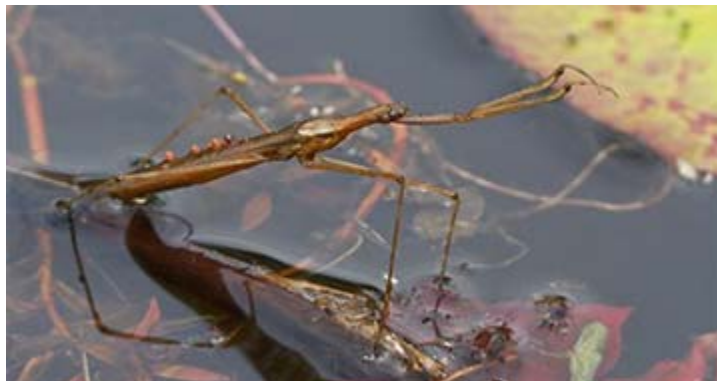
"Within 48 hours, I had your classic case of poison ivy on my arm. And as a scientist, I said, 'This is interesting, how bad can it be? I'll just leave this untreated,' " he recalls, sheepishly. "In about two weeks, I had learned just how uncomfortable poison ivy rash could be."

Uncomfortable sounds like an understatement. Jelesko says he barely slept while fighting the urge to "claw my itching flesh off." Eventually, he went to his family doctor, who prescribed oral steroids.

The experience sparked [years of research](#) into a plant he calls a "familiar stranger." He has studied the chemical, urushiol, that triggers that tell-tale rash, and the plant's biology overall. The tricky thing about avoiding poison ivy, Jelesko says, is the plant is highly adaptable and can take many different forms in different environments.

[Read more...](#)

---



### Macro Spotlight: Water Scorpions (Nepidae)

Water scorpions are very common in Butler County if you go to a stream or pond you will more than likely see at least one flying around the water. Water Scorpions are usually found in slower moving streams and ponds around the world. There are over 270 species of water scorpions in the world but only a dozen live in the United States. Most of the water scorpions found in the United States are from the Ranatra genus. These types of water scorpions are narrower. The other type of water scorpion you will less likely see is from the Nepa





genus these water scorpions are more oval shaped. Nepa genus water scorpions are sometimes mistaken for a water bug.

Water scorpions are not really scorpions they are insects. Even though a water scorpion looks like a scorpion due to their front legs they aren't. The family name, Nepidae, derives from the Latin nepa, meaning scorpion or crab. Water scorpions have very large eyes on the side of their heads that face outwards and very narrow heads compared to other insects. They also have antennae's that are hard to see because they are located under the eyes of the water scorpion. Water scorpions also have a very interesting way in which they breathe. Their tail is a caudal respiratory tube that extends into the water to help them breath. Seeing there long tails is one of the easiest ways to I.D. a water scorpion. The most important thing to know about water scorpions though is that they don't have a stinger so they can't sting you.



There are three stages to a water scorpions life cycle egg, nymph, and adult. The first stage of life the female will attach her eggs to vegetation in a body of water in the spring. Then in early summer a nymph will emerge and it will undergo five molts (shedding of skin) until it reaches adulthood. Once a water scorpion reaches adulthood they can grow up to 4 inches long. A scorpion's life span varies from 2-10 years sometimes even longer depending on their environment.

---

## Water News

### **We Completely Underestimated How Many Rivers and Streams Are on Earth**

<https://www.inverse.com/article/46575-surface-area-of-rivers-and-streams-on-earth>

### **Water Behaves Differently From All Other Liquids, And We Finally Know Why**

<https://www.sciencealert.com/water-unique-properties-tetrahedral-molecule-arrangement>

### **Obama's wetlands protection rule put 'too much emphasis' on science, Trump officials argue**

<http://www.sciencemag.org/news/2018/07/obamas-wetlands-protection-rule-put-too-much-emphasis-science-trump-officials-argue>



## Annual Open House and Supervisor Elections

**Tuesday, August 28**

4 - 6 pm

1802 Princeton Rd, Hamilton, OH 45011

Join the Conservation District staff to  
celebrate another year of conservation.

During the event, you can also vote in the  
Supervisor Elections, see displays, and help  
us to recognize local individual and  
organizations for their conservation efforts.

More candidate details will be posted on our  
website shortly [www.butlerswcd.org](http://www.butlerswcd.org).



*Copyright © 2018 Butler Country Stream Team, All rights reserved.*

You are receiving this email because you have provided Butler County Stream Team with your email.

**Our mailing address is:**

Butler Country Stream Team  
1802 Princeton Rd  
Hamilton, OH 45011

[Add us to your address book](#)

Want to change how you receive these emails?  
You can [update your preferences](#) or [unsubscribe from this list](#).

