









YORK COUNTY CONSERVATION DISTRICT

Conservation Horizons

Summer 2022



Around the District

pect of our lives. In some way, shape, or form, education has led each of us to where we are today. It will also help lead us to where we go in the future. Education is a crucial piece of the foundation for the Conservation District.

and outreach activities conducted by hard work paid off. the Erosion & Sediment Control and Ag departments are all events that

Above: Students test their knowledge at the Wildlife Station during the 2022 York County Envirothon Competition

Education is the bedrock of every as- help to educate, promote, and improve our local environment.

There was no better feeling than seeing over 600 residents navigate our Seedling Sale, knowing that in their own way, whether they knew it or not, they were doing their part to help im-Spring and early summer see some of prove the soil, air, and water of York the best educational opportunities the County. Speed forward to the over 700 Conservation District has to offer. The students that participated in the Enviannual Seedling Sale, the York County rothon competitions and I'd wager that Envirothon competitions (students this year there have been many spiritfrom 3rd—12th grades), the numerous ed discussions about how much fun tree plantings/watershed activities, those students had and how all that

— Continued pg. 2—

Around the District (continued)

The Chesapeake Bay Program, has been around for almost 40 years, with a focus on the bay. Although the primary goal is the improvement of the largest estuary in the United States, educational efforts have led many people to realize that the best way to clean up the larger waterbody is to work locally. The phrase "think globally, act locally" covers many bases, but none better than for water quality.

Improvements can be made on even the smallest parcel of land that can help to improve infiltration and filter runoff. I hope within the pages of this newsletter and upcoming publications there are topics which help educate you and encourage you to increase your knowledge of local conservation efforts.

Jeff Hill

Conservation District Manager







Above: Customers pick up seedling orders at Rocky Ridge Park and Conservation District employee prepares seedling order

In this Edition:

Seedling Success2
Sporting Clays Fundraiser3
Buffer Benefits4
Trout Talk6
Test your Soil IQ7
Envirothon News8
Wildlife Facts10
Conservation Quiz Corner10
Ag Land Preservation1
Watershed Alliance of York1
District Calendar12
Conservation Quiz Answers 12





Seedling Success

How new online ordering boosted our 2022 sale.

This year we launched a convenient online ordering system for our 2022 Seedling Sale. Our customers welcomed this new online option, as over 4 out of 5 customers submitted their orders online.

In addition to offering convenience to our customers, the new online ordering system also made life easier for our administrative staff.

We hope you will consider participating in our next Seedling Sale when we begin accepting orders in December 2022!











15th Annual

Sporting Clays

Fundraiser September 16th

at Central Penn Sporting Clays

"A wonderful day afield for a good cause!"

Visit yorkccd.org

to learn more.













Last Year's Top Sponsors \$5000



\$2000



\$1000







Location:





SPORTING CLAYS FUNDRAISER

SUPPORT THE ENVIROTHON

Help us kick off the 2023 Envirothon fundraising drive!

Join us for our 15th Annual Sporting Clays Fundraiser.

Includes:

- 1 Round of 50 Targets
- Delicious BBQ Lunch
- Chance to Win Great Door Prizes

How to Sponsor and Participate:

- 1. Contact the Envirothon Coordinator at **717-840-7430** to discuss sponsorship and reserve your spot.
- 2. Select either the morning shoot or afternoon shoot.
- 3. Assemble a team of 5 participants.
- Show up at Central Penn Sporting Clays on Sept. 16th
- Test your marksmanship, enjoy BBQ lunch, and have fun!

Now Accepting Sponsors

Individual Registration opens July 15th

Interested in being a Sponsor? Contact Us!

(717) 840-7430

yorkccd@yorkccd.org





Buffer Benefits

Why add a riparian buffer to your land?

Did you know that there are over 86,000 miles of rivers and streams in Pennsylvania?

In York County, we have 6 major watersheds:

- Yellow Breeches Creek
- Conewago Creek
- Codorus Creek
- Kreutz Creek
- Muddy Creek
- Deer Creek

York County has 1,670 miles of streams and approximately 30% of these streams are impaired.

Landowners can benefit streams by implementing riparian buffers.

Above: Stream with newly planted buffer Right: Stream in need of buffer & fencing

TOP 5 Benefits of Buffers on Agricultural Land:

1) Stabilize Banks

Problem: Eroding banks can remove valuable agricultural land while degrading streams and drinking water quality.

Buffer Benefit: Where stream bank erosion isn't active and severe, tree roots can hold soil in place.

2) Prevent Flood Damage

Problem: Flooding from larger storm events can erode cropland and leave debris in fields.

Buffer Benefit: Trees along a stream channel can reduce floodwater velocity and erosive power, while blocking debris from entering cropland.

3) Filter Pollutants

Problem: Sediment, nutrients, pesticides, and animal waste in streams can degrade water quality and aquatic habitat. Nitrates and pesticides can be toxic to humans and phosphates can promote harmful algae blooms.

Buffer Benefit: Trees filter contaminants and trap sediment in place. Trees can uptake more soluble contaminants with improved infiltration of surface runoff.

4) Provide Shade

Problem: Unshaded streams are warmer in temperature and provide poor habitat for fish and other aquatic organisms.

Buffer Benefit: Shade reduces the intensity of the sun and decreases water temperature.

5) Provide Habitat

Problem: Cropland may provide little to no value to fish and aquatic organisms, as well as insufficient cover and food for other wildlife.

Buffer Benefit: Plants and resulting insects and other invertebrates provide food for fish and other aquatic organisms. Additionally, connected buffers become wildlife corridors.





Types of Buffers Commonly used in York County:

Grassed Buffer



Meadow



Trees



Shrubs





Grazing Livestock **Buffers**

there is a stream located near the pasture, or even through the pasture, implementing a buffer would not only improve water quality but would also benefit the livestock.

Problem: Livestock, especially cattle and horses, can cause streambank erosion with the heavy foot traffic in and out of the stream.

Solution: Fence the stream (recommended 35 feet for buffers) out of the pasture. If the livestock still need a way to get through the . stream, stream crossings provide a safe travel lane through the stream to the other side. Stream crossings will still provide livestock the opportunity to get water.

Buffer Benefit: Keeping livestock out of streams also provides opportunity for better aquatic habitat while reducing flooding. It even improves livestock health by reducing their risk to parasites and bacteria.

and There are several funding options available to implement buffers on your property. At the Conservation If you are grazing livestock and District, we have the Exelon Habitat Improvement Program (Exelon HIP) as well as the Conservation Excellence Grant (CEG) that may be able to help with implementation and costs. Outside of the Conservation District there are several other entities that may be able to assist you in creating your buffer:

- NRCS & CREP
- Alliance for the Chesapeake Bay
- **DCNR**
- **PACD**

Melodie Jones

Resource Conservation Specialist I

Emily Neideigh

Watershed Specialist



Trout Talk

Where can you find York County's trout?

There's nothing quite as satisfying as spending time in a cool stream on a hot summer day. Many of my fondest memories include hours spent fish- perature and pollution tolerance. trout. Wetlands located in or along your toes in the water.

One way to evaluate the water quality of a stream is to look at the wildlife that lives in it. The species of ma- The brook trout is the only trout good news for York County water croinvertebrates (macros) and fish in species native to PA, and naturally quality! Roughly 16% of York County a stream act like a living litmus test lives in small cold streams. Brown streams have a wild trout designato gauge water quality. Aquatic mac-trout were introduced to PA in the tion. There are still healthy streams ros such as mayflies, caddisflies, and 1800s and have since become natu- in York County that have not yet stoneflies have a low tolerance for ralized throughout the state. Brook been assessed, so the number of wild pollution. If you find these insects in trout and brown trout occupy similar trout streams in the county may a stream, the stream is reasonably habitats. While other species of trout grow. PFBC and their partners aim healthy. Macros that have a higher are found in PA streams, most natu- to evaluate the unassessed streams tolerance for pollution include leech- rally reproducing trout populations across the state through the Unases, blackfly larvae, and midges. If consist of brook trout or brown trout. sessed Waters Initiative. you find these macros in a stream, but no species with lower tolerances for pollution, you may be in a less healthy stream.



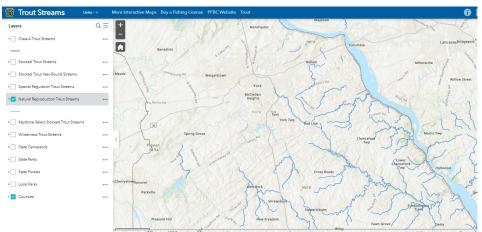
ing, walking creeks, and searching Generally, trout can only tolerate the floodplain of a wild trout stream for crayfish in the mountain streams cold or cool water with low levels of are designated as "exceptional valnear my childhood home. While I pollution, whereas species like cat- ue" wetlands. "Wild trout waters" would recommend that everyone fish can survive in warmer waters and "exceptional value" wetlands spend some time in one of York with more pollution. Because trout qualify for stricter environmental County's beautiful streams this sum- live in relatively cool, clean streams, mer, it's important to know what regulatory agencies such as the PA you're walking into before dipping Fish & Boat Commission (PFBC) and PA Department of Environmental Protection (DEP) use trout to help determine stream water quality.

a "wild trout water" it means the Trout Waters (Natural Reproduction) trout found in the designated stream is on their website. Another useful have resulted from natural reproductool on PFBC's website is the Trout Similarly, different species of fish tion (as opposed to stocking) and that Streams Interactive Map, which have varying degrees of water tem- the stream habitat supports wild allows you to easily view stocked wa-

Above: Brook trout image courtesy of PFBC protection under DEP regulations.

There are 61 streams (approx. 268 linear stream miles) designated as wild trout waters in York County and the list continues to grow as more streams are evaluated. This is

When PFBC designates a stream as PFBC's complete list of PA Wild ters and wild trout waters.



Tiffany Crum

Resource Conservationist

Left: PFBC Trout Streams Interactive Map

Below: Brown trout image courtesy of PFBC



Archives Revisited



NEWSLETTER OF THE YORK COUNTY CONSERVATION DISTRICT

December, 1994 Vol. 1, No. 4

TEST YOUR SOIL - IQ

Test your knowledge of soil and water conservation.

Give yourself 10 points for each correct response.

- 90 points or better makes you a Senior Conservationist
- 80 points a Junior Conservationist
- 70 points a Conservation Trainee
- 60 points or less, keep reading Conservation Horizons!
- 1. He is considered the "Father of Soil Conservation:"

A Theodore Roosevelt B. Gifford Pinchot

C. Hugh Hammond Bennett D. Aldo Leopold

2. Pennsylvania DER's Bureau of Soil and Water Conservation was established in:

A 1914 B. 1957 C. 1969 D. 1971

FUN FACT: DER was split into the DEP and DCNR by Act 18 of 1995.

3. If proper soil and water conservation measures are taken, farm productivity can last:

A 25 years

B. 30 years

C. 100 years

D. indefinitely

4. In Pennsylvania, it takes an average of this many years to make one inch of topsoil:

A 25 years

B. 30 years

C. 40 years

D. 50 years

5. The average depth of topsoil in this country is:

A 6 inches

B. 12 inches

C. 24 inches D. 36 inches

6. Soil erosion is caused by:

A Water

B Wind

C. Human activities D. All of these

7. These types of areas are vulnerable to erosion:

B. Sandy soils C. Streambanks subject to fast moving water

D. All of these

8. Help to prevent erosion by:

A Mulching newly seeded areas

B. Planting windbreaks and other vegetation

C. Limiting livestock access to stream banks D. All of these

9. In Pennsylvania, on average, heavy rainfall is most likely to cause erosion during:

A Spring and early Summer B. Fall

C. Winter

D. All of the time

10. When topsoil is lost, the land is more subject to:

A Insect problems

B. Drought

C. Neither A or B

D. Both A and B

Answers on pg. 12



York County









ENVIROTHON **News & Results**

York County Returns to an In-Person Competition.

This year the York County Envirothon returned in-person to Rudy Park for its 37th season! Over 700 students participated on nearly 125 teams across the four grade level events.

The Envirothon is the nation's largest environmental education competition. As an extracurricular activity, the Envirothon challenges students to study and compete outside their normal school responsibilities. Envirothon participation frequently results in pursuit of careers in environmental protection and resource conservation.

The York County Homeschool Tsugoose Canadensis placed 1st in the York County Senior High Envirothon and 6th in the PA Envirothon.

Thank you to all students, coaches, sponsors, partners, and volunteers! We look forward to seeing you again next year at the 2023 York County Envirothon!











Senior High

1st— YHSA Tsugoose Canadensis

2nd— Northern Nighthawks

3rd—York Catholic Duck Deck

4th—York Suburban Serendipitous Soils

5th—Susquehannock Sweetbay Magnolias

6th— York Suburban Crappy Crappies

7th—Spring Grove Wetland Warriors

8th— Northeastern Official Opossums

9th— Central York Current Issues

10th—West York Wildfire

Middle School

1st—SEMS Sleepy Bears

2nd— York Homeschool Squishy Mambas

3rd—York Suburban Bunny Bandits 2.0

4th— Central York Bossy Bullfrogs

5th— Dover Leaflets

6th—Central York Sitting Ducks

7th—York Suburban Sophisticated Squirrels

8th—Dover Tree Huggers

9th— Hanover Naturalists

10th— Northern Nuclear Newts

5th & 6th Grade

1st— Dallastown White Oak Wildcats

2nd— York Homeschool Competitive Copperheads

3rd—Spring Grove Nuisance Species

4th—South Mountain Red Pandas

5th— Dallastown Awesome Opossums

6th— Dover Elementary Creekside Critters

7th— Leib Elementary Rebel Raccoons

8th— Indian Rock Awesome Amphibians

9th—North Hills Squirrel Squad

10th—Spring Grove Delirious Deer





Uork Counti



3rd & 4th Grade

Travis & Christine Sherman - Carroll & Linda Missimer - Tammy Grove - David Leese - Bruce Holbrook

Gold Level:

Dallastown Inter. Crazy Covotes York Homeschool Frenzied Foxes South Mountain Phat Fish South Mountain Black Bears Dallastown Inter. Brilliant Bears Stewartstown Elem. Scary Squirrels Dallastown Inter. Super Squirrels Paradise Apex Predators Leib Elementary Perfect Fishers Legendary Loganville Wilderness Wildcats

Silver Level:

York Homeschool Redemption Rabbits **Indian Rock Flaming Foxes** Kreutz Creek Tadpoles Weigelstown Elementary Enviro-Bears Dillsburg Nature Force Club York Township's Rad Red Foxes Ore Valley Fabulous Foxes Leaders Heights Outstanding Otters Shrewsbury's Tyrannical Terrifying Trout Dillsburg's Doe a Deer Fawn Fearless Foxes Indian Rock Smart Scats Dallastown Elem. Curious Cottontails Stewartstown Elem. Fierce Foxes

www.yorkccd.org

3rd & 4th Grade

Bronze Level:

East York Red Foxes

North Salem Elementary Axolotls North Hills Marvelous Mushrooms Saint John's Amazing Axolotls Shrewsbury's Scary Scat Squirrels Delta's Dangerous Clever Coyotes Ore Valley Fantastic Fishers Delta's Fearless Black Bears Shallow Brook Fierce Bobcats Wellsville Today's Paper Savers Sinking Springs Wild Winners Northern Elementary Polar Pals Paradise Mighty Mammals Fawn Fierce Flipping Fishers Sinking Springs Nature Lovers Saint John's Fighting Foxes Shallow Brook Red Oaks Roundtown Red Foxes Northern Elementary Forest Friends Wellsville Awesome Climate Crew North Hills Decomposers Leib Elementary Fintastic Fish

Thank You, Sponsors!

CONSERVATION DISTRICT Mark Flaharty - Randy & Susan Byrnes - McKelvey Family - Irvin W. Allot - Rick Myers - Keith Eisenha:

The 2022 York County Envirothon was made possible by the generous support of the sponsors listed above.

Our sponsors value the positive impact that the Envirothon has on the future of conservation in York County. We hope that you will consider joining this list of sponsors by supporting the 2023 York County Envirothon!

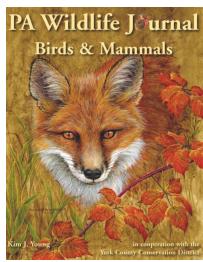
Call 717-840-7430 to speak with the Envirothon Coordinator about supporting the York County Envirothon.

Michael McKelvey

York County Envirothon Coordinator

Below: York Homeschool Tsugoose Canadensis proudly displaying their 1st place trophy.





Wildlife Facts

Porcupine

"As rodents, porcupines are the exception when it comes to raising young. Most rodents produce a lot of litters, reproducing quickly. Porcupines rarely give birth to more than one pup or porcupette each year."





- "Many rodents only live for a year or so, but porcupines may live for 10-12 years in the wild."
- "Porcupines cannot throw their quills. The quills are loosely attached and when they come into contact with something, they will detach and become lodged into whatever they contact."



Wildlife Facts includes excerpts & illustrations from the

PA Wildlife Journal: Birds & Mammals

written by Kim Young & York County Conservation District

PA Wildlife Journal focuses on Pennsylvania's birds & mammals. It's highlighted with professional artwork, photographs, and illustrations from hundreds of students across Pennsylvania and the United States. This unique book can be enjoyed by students of wildlife and casual readers.

The text includes the historical and current biology of the many species found in Pennsylvania.

Available for purchase on: amazon



Conservation

Quiz Corner

Are you smarter than

an Envirothon 5th Grader?

Answer the following to find out!

- 1. While all other turtles hibernate underwater in PA, which turtle can survive after having been frozen?
- 2. What do you call the young, coiled ferns that appear as new growth in the spring?
- 3. What is the name of the oil in poison ivy that causes rashes on humans?
- 4. When swimming underwater, what frog can lower its eyes to a level even with its head by pulling the eye sockets into the roof of its mouth?
- 5. What are the only mammals that can fly?

Check your answers on page 12



Conserving Natural Resources for our Future

Board of County Commissioners

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Keith Eisenhart



York County Ag Land Preservation Program

Patty McCandless, Program Director 717-840-7400 2401 Pleasant Valley Road, Suite 101, Room 145, York PA 17402

for Easement Purchase location was matched by the Commonwealth of PA (\$2,814,812.00) to assist with preservation efforts. We estimate to be able to preserve another 1,600 acres. Thank You Commissioners, Wheeler, Smith, and Hoke.

tions that do not meet the eligibility redo not have a current conservation plan, about soil health practices, with three

The York County Ag Land Preservation or Ag E&S plan, that meets the require- farmers at each luncheon. Our agency Board received 56 easement applications ments of the PA Clean Stream Law, plans to support the upcoming Ag Field in the 2022 Application Round for an Chapter 102. The plan must be current to Day on July 28, 2022, at Izaak Walton estimated 5,232 acres (closing date the farm operator who is managing the 2/15/22). The program has a 24-month farmland today. Please review your concycle, so the next round will be February servation plan with the York County 2024. The York County Board of Commis- Conservation District, or USDA-NRCS to sioners approved York's 2022 Allocation see if your plan is current prior to apply-Funds ing for farmland preservation. Our agen-(\$2,007,222.00) from a dedicated ag land cy no longer writes plans. Please ask for fund on 1/19/22. The Commissioner's al- our conservation info packet to direct you to public and private plan writers.

In March, with funding from the Soil Health Stewardship Grant awarded by American Farmland Trust, our agency hosted two educational "Soil Health- Go Deeper" luncheons. The soil health lunch-Application review is underway for the eon, held at the Airville Volunteer Fire 2022 round. Each year we find applica- Hall on March 22, 2022 included 55 attendees, 25 of which are involved in operquirements for preservation, such as ating local farms. The soils health lunchfarms that are not enrolled in their town- eon, held at the 4-H Center, near Bair ships Ag Security Area (ASA). Some Station, on March 29, 2022, included 36 farms were not fully enrolled in the pri- attendees, 17 of which are involved in mary township, and other farms which operating local farms. Both luncheons lie in multiple townships are not enrolled included presentations on building soil in both townships. Landowners should organic matter, conservation planning enroll their farms in every township the and soil health, investing in the farm's farm is located in. Our office can assist future with cover crops, and decision ag with that info if requested; however, the solutions to help manage fertilizer rates process can take 180 days enroll in an and other management decisions within ASA. Another issue we see is farms that fields. We also had a farmer discussion



League, by bringing in several professionals and farmers to discuss soil heath.

Our inspection duties continue. Landowners of preserved farms will be contacted to plan inspection visits. Landowners do not need to be present for the field walk but a phone interview generally occurs to update records. Landowners should contact the Ag Land Preserve Office with ownership or farm operator changes. Farm operators should share conservation plan updates as they occur.

Our search for an Assistant Director concludes with the hire of Eric Naylor. Eric was with our agency from 2013 to 2018. He rejoins us after 3 years in the Tax Assessment Office. Eric started in March and we are thrilled to have him back as I plan my October 2022 retirement. I have served the YCALPB and ag community, since May of 1990, and will leave the office with the satisfaction knowing the program is well funded today by the current Board of Commissioners leadership.

You can reach us at the York County Ag Land Preservation Office by calling (717) 840-7400, Monday through Friday 8 am to 4:30 pm. Find us on the web at www.yorkcountypa.gov, under Property and Taxes. 🐀

CWA50K TRASH CHALLENGE

To celebrate the 50th Anniversary of the Clean Water Act

1 YEAR - 50,000lbs of TRASH

Will you help us?









CWA50k Trash Challenge

Did you know it's been 50 years since the Clean Water Act was signed? To honor this monumental anniversary, WAY is COLLECTED from our waterways. teaming up with our partners Lower Susquehanna Riverkeeper Association & Penn • State Extension York Master Watershed Stewards to remove 50,000 pounds of trash from our waterways! It's a huge goal • but we are confident we can achieve it with your help.

Stay tuned for clean ups in June, July, August, September, and October!

20th Annual Watershed Week

September 15th - 25th Events include:

- Tap Talk & Treevia
- Dam Bridge Challenge
- Pawpaw Festival
- Water Quality Monitor Field Visits







Conservation Horizons York County Conservation District 2401 Pleasant Valley Road Suite 101 Room 139 York, PA 17402

"By using good erosion-prevention practices, conserving water, land use management or simply planting a tree, we'll each help make the world a better place for our children and grandchildren."

> - Mark Kimmel, fmr. YCCD Manager Free Press (April 1990)

Stay Connected.

Support Conservation.



(717) 840-7430

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Hours: 8:30AM-4:30PM Monday-Friday

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Email yorkccd@yorkccd.org or call (717) 840-7430. Sponsor info & advertisement of services in this newsletter provided without any implied endorsement from YCCD.

YCCD Calendar

July 2022

July 4..... Office Closed

July 14...... YCCD Board Meeting

August 2022

August 11 YCCD Board Meeting

September 2022

Sept. 5..... Office Closed

Sept. 8...... YCCD Board Meeting

Sept. 15...... DGLVR QAB Meeting

Sept. 16...... Sporting Clays Fundraiser

October 2022

Oct. 13 YCCD Board Meeting

Test Your Soil IQ Answers: (1) C. (2) D. (3) D. (4) B. (5) A. (6) D. (7) D. (8) D. (9) A. (10) B.

