



# Carroll SWCD

Carroll Soil & Water Conservation District

Spring 2023

## 2023 Area 3 Envirothon

The 2023 Area 3 Envirothon was hosted by Carroll Soil and Water Conservation District on April 26 at Bluebird Farm Park. This year's Area 3 Envirothon featured 31 teams from the 16 different counties of Area 3. The Envirothon is an academic competition in which teams of 5 high school students test their knowledge in the topics of Forestry, Aquatics, Current Environmental Issues, Wildlife, and Soils. The Envirothon consists of local, state, and national level competitions. The events are sponsored by Soil and Water Conservation Districts from across the nation. This program was started as a way to create more interest in natural resource conservation and careers among high school students.

The teams that finished in the top four will go on to the State Envirothon which is being held at Defiance College on June 11-13. The top scoring teams were as follows: First Place was the Blue team from Granville High School (Licking County), Second Place was Team 1 from River View High School (Coshocton County), Third Place was the Big Oaks team from Coshocton County Career Center (Coshocton County), Fourth Place was the Watkins Warriors team from Watkins Memorial High School (Licking County). The alternate school for the State Envirothon from Area 3 was the

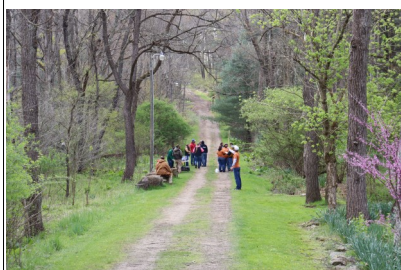


First Place Team: Granville Blue, Granville HS



Olney Blue team from Olney Friends School from Belmont County.

For most students, the highlight of the competition were the interactive questions which require the students to use equipment and skills that are required in natural resource careers. In forestry, students measured the board footage of a tree while also identifying the species of that tree. The students then moved on to the Aquatics station where they identified macroinvertebrates and made measurements about the water quality. The next interactive station was the wildlife station. The students were presented with a barred owl and an evening bat to identify. Students were also able to properly identify male and female red-eared slider turtles. Finally, students identified animal pelts and wings from water fowl. The final interactive portion of the test was the soils pit. The 4x8x4 foot pit allowed the students to observe the soil horizons and structure as they determined the characteristics and soil type of the park soils.



Carroll Soil and Water Conservation District would like to extend our thanks to the many organizations and individuals who helped with this year's Envirothon. Their donations of time, expertise and/or materials made the Area 3 Envirothon possible. We are grateful to have such strong support from our community!

### Inside this issue:

<i>2023 Area Envirothon</i>	1
<i>MWCD Cover Crop</i>	2
<i>Eggstravaganza</i>	2
<i>Soil Erosion</i>	3
<i>Rain Barrels</i>	3
<i>Big Tree Contest</i>	4
<i>Love of Conservation</i>	4
<i>Photo Contest</i>	5
<i>Equipment Rental</i>	6
<i>Word Search</i>	7
<i>Upcoming Events</i>	8

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Resource Conservationist

# Agricultural Cost Share Program

## Cover Crop Cost Share:

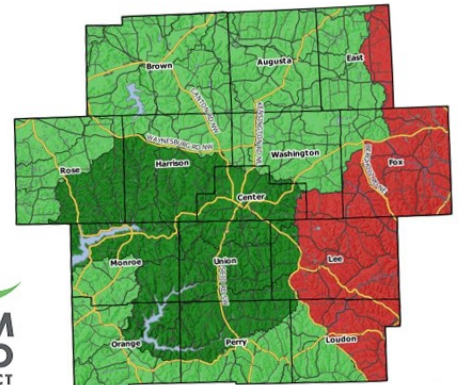
The Muskingum Watershed Conservancy District (MWCD) will be continuing their cover crop cost share program for 2023. Fields that are located within the MWCD in Carroll County can receive \$12 per acre cost share regardless of seeding method or termination method. The MWCD includes both the dark green and light green areas on the map. The red area is not in the MWCD.

All applications **MUST** be accompanied by:

- ⇒ Current FSA map of each field
- ⇒ Current soil test results (within last 4 years)
- ⇒ Current nutrient management records
- ⇒ Current crop information

**New to 2023: All cover crops planted after 11/1 must be drilled and 20% increased seeding rate.**

Please contact the Carroll SWCD office at 330-627-9852. ***All applications must be completed by June 9, 2023.***



The Carroll County Community Commission would like to thank everyone for their support of the 2023 Eggstravaganza. Many thanks go to Huebner Chevrolet/Subaru and Guess Motors for donating the bikes and helmets as well as our other sponsors, including the Carroll County Agricultural Society, SAS Farms LLC, Carrollton Animal Hospital, Ron Ruegg Automotive, Dodds Funeral Homes, John & Melanie Campbell, Carroll Electric Co-op, Jomac LTD, Carroll County Chamber and Convention and Visitors Bureau, Cooper Tax and Accounting, Kim Davis Insurance Agency, Sherman and Patti Oyer, Leesville

South Fork Marina, Newell Auctions, Carrollton Ace Hardware, Republic Mortgage, Hospice of Tuscarawas County, Railroad Auto Spa, Carroll County Energy, Sander's Market, Warner Home Comfort, Sean & Janet Smith, The Chop House, H&M Tire, Workhouse Fitness, Basec Management, Carroll County Energy, Ark Water, Aultman Orrville Hospital, Betty Kaye Bakery and Carrollton Trailer Rental. Winners of the bikes include: Rylan Stuckey, daughter of Brittney Stuckey, Ariana Hernandez, daughter of Arely Suarez, Chloe Smith, daughter of Margo & Jeff Smith, William Bailey, son of Ken & Khyna Bailey, Bella Yeager, daughter of Lorrin & Craig Yeager and Bryson Palmer, son of Virginia Prohl. Because of the sponsor support and generous donations, we were able to host this event for 280 children and communicate topics that included spiritual messages from area churches and agricultural and environmental lessons from numerous organizations.

***We look forward to next year's event on March 23, 2024 at the Carroll County Fairgrounds.***



Kimberly Lewis  
Ella Logan, 4, checks out a crawfish held by Jason Reynolds, wildlife and forestry technician at the Carroll County Soil and Water Conservation District, during Saturday's Eggstravaganza. Ella is the daughter of Hunter and Alex Logan.

# The Impacts of Soil Erosion are Far-Reaching

Soil erosion is the number one resource concern in all of eastern Ohio. Soil erosion has many effects, both at the site and elsewhere. Loss of soil productivity is the main effect, but increased sedimentation and nutrient load in our waterways and reservoirs are common. The costs of soil erosion are far reaching, but when intensified by human activity, it can have negative environmental, societal and economic impacts.

Soil erosion happens when there is not enough cover on the soil, causing the soil to leave due to rain or wind. Activities such as tilling farm land and clearing land of trees leaves the soil vulnerable to erosion. The soils that are washed away contain nutrients and sometimes herbicides and pesticides. Once that soil leaves it eventually ends up in our streams, rivers and lakes causing harmful algal blooms. Algal blooms occur when algae grow out of control and can produce toxic or harmful effects to people and wildlife. Oftentimes, these lakes are used to supply fresh drinking water to towns and cities and these algal blooms make the water dangerous for consumption. I'm sure everyone has heard about the issues within the City of Toledo and their harmful algal blooms that caused issues with their drinking water. But let's think about a more local example, the Village of Cadiz uses surface water drawn from Tappan Lake, which was created by impounding Little Stillwater Creek. Besides drinking water quality, soil erosion is also the main cause of lakes needing to be dredged, a process that removes nutrient-rich sediments to increase the depth and health of the lake and costs a lot of money.

Let's take a different look at soil erosion. According to the USDA, lost farm income is estimated at \$100 million per year as a result of soil erosion in the US. If the soil that leaves your farm is rich in nutrients, how much money is leaving your farm? While most erosion is not visible to the naked eye it is happening, but some soil erosion can be so severe that you visibly see it in your farm field, yard or stream bank. The average soil loss rate is 5.8 tons per acre per year. That is 1/32" of soil across an acre which amounts to a little more than the thickness of a dime, but not only are you losing soil, you're losing yield, to the tune of about 15 bushels per acre per year. With last year's average price per bushel of soybeans, that is equal to \$210 in earnings lost. But that's not all! According the soil scientist, Francisco Arriaga of the University of Wisconsin, 1 ton of optimal soil contains 2 pounds of nitrogen, 9 pounds of phosphorus and 31 pounds of potassium. If the average soil loss is 5.8 tons, that value is \$77.02 per acre just in lost nutrients, not to mention loss of future productivity. That's a loss of \$287 per year per acre, which amounts to \$43,050 per year on a 150-acre farm! Remember, when soils are eroding off your field, that's dollars washing away and it takes many years to replace what is lost in moments. This example is with average soil erosion. If you till your ground or you find yourself having to disc your gullies back in, you are losing much more than the average soil erosion, both in money and productivity.

One of the easiest ways to protect your soil from erosion is to stop tilling it and keep it covered. No till farming protects against erosion, promotes healthy soil, and increases water infiltration. If no till farming is new to you and you are interested in saving the soil on your property or farm but don't know where to start, call Carroll Soil and Water Conservation District. Our staff has the knowledge and tools to help you get started conserving your soil today. Because as Theodore Roosevelt once said, "I recognize the right and duty of this generation to develop and use the natural resources of our land: but I do not recognize the right to waste them, or to rob, by wasteful use, the generations that come after us."

## Reduce Runoff with Rain Barrels!

Rain barrels capture water from a roof and store it for later use, such as on lawns, gardens or patio plants. Collecting roof runoff in rain barrels reduces the amount of water that flows from your property and it's a great way to conserve one of our greatest natural resources...water!

Carroll Soil and Water Conservation District has rain barrel kits for sale at the office that include everything you need, including the barrel and all supplies, even the hole saw bit! The price is \$32 which includes tax.

If you would like help assembling your rain barrel, join **us on June 8, 2023 for a rain barrel workshop. Cost of participation is \$32, and that includes the barrel, instruction and the rain barrel kit!**



# 2023 Big Tree Contest



It is time for our annual Big Tree Contest and Carroll SWCD is looking for the biggest Eastern White Pine tree in Carroll County! If you are interested in entering the contest, please call our office at 330-627-9852 to sign up. All trees entered in the contest will be measured for size this summer and entries are limited to one per family. The winners will be announced at our Annual Meeting this fall. The deadline for entries is September 1, 2023. Below is a description of the Eastern White Pine from the ODNR Division of Forestry.

White Pine (*Pinus strobus*), an evergreen conifer, is widely distributed throughout eastern North America including all of Ohio. It was originally confined to Appalachia, New England and southern Canada at the time of European settlement and occurred primarily in northeastern Ohio. White Pine is distinguished from all other eastern pines by the fact that its soft, thin, bluish-green needles occur in bundles of five. In addition, the sheath that wraps around the four-inch-long needles at the base of the bundle soon falls away. By summer, the light green fruits (or cones) of White Pine show characteristic splotches of silvery-white that dapple their surfaces. With maturity, the six-inch-long fruits become slightly curved, their scales reflex to release the hidden seeds and the brown cones eventually fall to the ground. The slender cones of White Pine do not have prickles on the backside of their scales, as many pines do.

## Love Conservation?



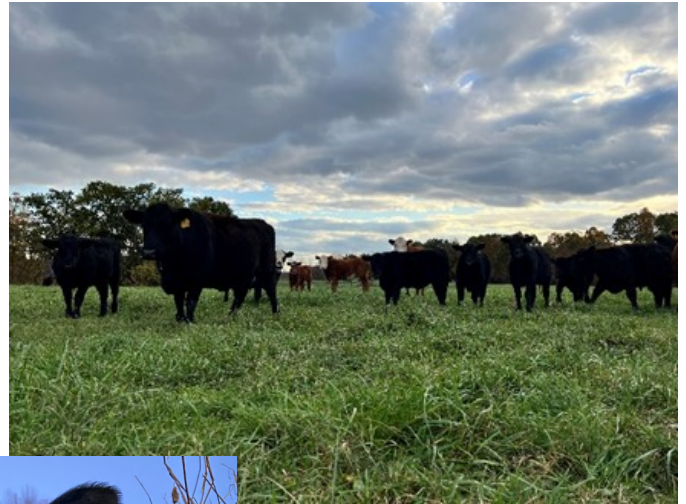
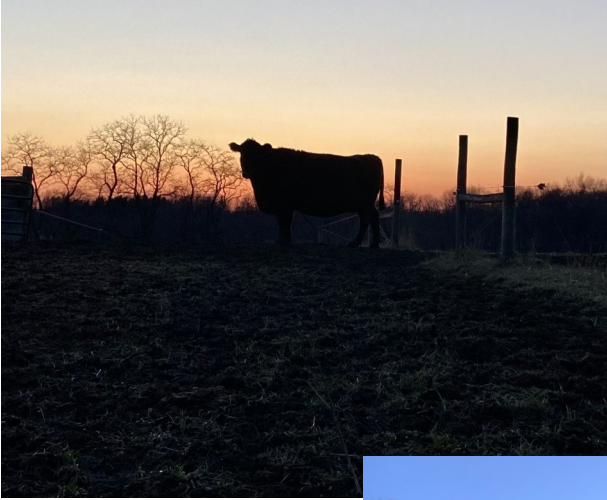
Do you love conservation as much as we do?  
We'd love for you to join us!

The Carroll SWCD Board of Supervisors hold their monthly meetings on the 4th Tuesday of each month at 2:00 pm at the Carroll SWCD office.

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If you or anyone you know is interested in serving on the Carroll Soil and Water District Board of Supervisors please call the office at (330) 627-9852 or email Amanda at [amanda.tubaugh@carrollswcd.org](mailto:amanda.tubaugh@carrollswcd.org).

# Carroll Soil and Water Conservation District Presents in 2023 The 4th Annual Carroll County Photo Contest



The Carroll Soil and Water Conservation District is hosting the fourth annual Carroll County Photo Contest. Good photographs can teach, inspire, record events or just reveal the spectacular beauty of life. We would like to recognize individuals who use this tool creatively and effectively. This year, focus of the photo contest will be Carroll County Cows! The photos entered in the contest will be used to create a 2024 Carroll Soil and Water Cow-lender!

We sincerely hope you will help us celebrate Carroll County with your photos of Carroll County Cows! We welcome and encourage photos in all seasons. Photos do not need to be taken in 2023. See contest rules and details on our website ([www.carrollswcd.org](http://www.carrollswcd.org)). Deadline for entry is August 18, 2023.

# Carroll SWCD: Equipment Rental



## STOLTZFUS REDHAWK CU40 LIME SPREADER

The Redhawk CU40 is a great machine for improving your soil health. Use it to adjust soil pH or spread cover crops.

This spreader requires a tractor with a minimum of 80 HP and rental rate \$50/half day, \$100/day or \$150/weekend. There is a discount of \$25 for providing recent (within 3 yrs) soil tests.



*Eastern Ohio Grazing Council*

## JOHN DEERE 1590 NO-TILL DRILL

This machine is great for drilling soybeans with the least amount of soil disturbance. A grass seed box is attached and can be used for single species seedings as well.

This drill requires a tractor with a minimum of 80 HP and rental rate is \$17 per acre, with a minimum rental fee of \$75. Discounts may apply.



## HAYBUSTER 107C NO-TILL DRILL

This machine is great for all types of forage and grass seedings. There are three individual seed boxes with the ability to drill three seed types at different rates.

This drill requires a tractor with a minimum of 65HP and rental rate is \$17 per acre, with a minimum rental fee of \$75. Discounts may apply.



## NINJA COVER CROP ROLLER/CRIMPER

This machine is used for terminating cover crops. The rolling and crimping action of the roller crimper blades will transform a field of vetch, rye or other cover crop into a weed suppressing mulch.

This roller/crimper requires a tractor with a minimum of 65HP and rental rates start at \$25 per day.

Discounts are based upon the use of conservation practices. A discount of \$2 per acre for use on fields with 40% or greater residue, and \$1 per acre discount for current soil tests. It is our hope that you will see additional savings as your soil health improves through the use of these strategies. The equipment is rented on a first-come, first-serve basis throughout the season. If you are interested in renting equipment or would like more information please contact Joe at 330-627-9852.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

# Soil conservation CheckUp

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topsoil  
shelterbelt  
notillfarming  
leaching  
fertile  
drought  
conservation

terracing  
prariegrass  
nitrogen  
humus  
erosion  
covercrop

subsoil  
plants  
legumes  
georgewashingtoncarver  
dustbowl  
contourplowing



Carroll Soil & Water  
Conservation District

613 High Street NW  
Carrollton, OH 44615

The Carroll Soil and Water Conservation District Board of Supervisors and staff would like to thank the Carroll County Commissioners for their financial support and dedication to soil and water conservation. The annual financial assistance from the County is matched by funds from the State which enables the District to continue to provide assistance to Carroll County landowners.

**Christopher R. Modranski**  
**Donald E. Leggett II**  
**Robert E. Wirkner**

**Visit us online:**  
**carrollswcd.org**

«C/O»

«FIRST» «LAST»

«STREET»

«CITY», «STATE» «ZIP»

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*thank you*

## 2023 Affiliate Members

Carroll County Messenger	Ernest Little
Applied Agronomics	Newell Realty
Hutchison Agriculture	John McKarns
Haley-Leslie Farms	Neider Family Farms
John & Ruth Davis	Alan Weir
Carlton Tree Farms	Luckey Farms
Green Haven Farm	Tubaugh Farms
Carrollton Garden Club	Jeannine Miller
Sherman & Patti Oyer	Chet & Sandy Mason
Dave & Kay Evans	Betty Mills
Charles & Vernice Pearson	Charles Palmer
Kay Russell	Bernie Heffelbower
Ed & Sandy Trushel	

## UPCOMING EVENTS

- May 23:** Board Meeting 2 pm
- May 25:** EOGC Pasture Walk—Harrison
- May 29:** Memorial Day—Office Closed
- June 8:** Rain Barrel Workshop
- June 19:** Juneteenth—Office Closed
- June 22:** EOGC Pasture Walk—Tuscarawas
- June 27:** Board Meeting 2 pm
- July 4:** Independence Day —Office Closed
- July 17-23:** Carroll County Fair
- July 25:** Board Meeting 2 pm
- July 27:** EOGC Pasture Walk—Stark
- Aug 22:** Board Meeting 2 pm
- Aug 24:** EOGC Pasture Walk—Carroll