



CUMBERLAND COUNTY CONSERVATION DISTRICT

310 Allen Road, Suite 301, Carlisle, PA 17013

Business Hours 8:00am to 4:30pm

717-240-7812 Conservation@ccpa.net

2021 ANNUAL REPORT



The tree sale was a great success with 468 customers and nearly 15,000 seedlings sold.



Attendees of the popular Corn Planter Clinic held in Shippensburg.



Emily Stambaugh, one of our hard working interns, gathering soil samples for our Pre-Sidress nitrogen testing program.



A beautiful morning in Cumberland County following some heavy rain.



CUMBERLAND COUNTY

BOARD OF COMMISSIONERS



Left to Right: Commissioner Jean Foschi, Commissioner Gary Eichelberger, and Commissioner Vince DiFilippo



TEAM SHEET

DISTRICT DIRECTORS

Duff George (<i>Farmer</i>) <i>Chairman</i>	980 Creek Road Carlisle, PA 17015	717-385-6267 Term Exp: 12/31/25 e-mail: duffgeorge@comcast.net
Glenn Kimmel (<i>Public</i>) <i>Vice - Chairman</i>	150 W. Middlesex Dr. Carlisle, PA 17013	717-512-2971 Term Exp: 12/31/25 e-mail: GMK010211@comcast.net
Victor Barrick (<i>Farmer</i>)	2653 Walnut Bottom Road Carlisle, PA 17015	717-226-2207 Term Exp: 12/31/24 e-mail: littlepete@embarqmail.com
Vince DiFilippo (<i>Comm.</i>)	1 Courthouse Square Carlisle, PA 17013	717-240-6150 Term Exp: 12/31/22 e-mail: vdifilippo@ccpa.net
Dennis Garman (<i>Farmer</i>)	575 McClures Gap Road Carlisle, PA 17015	717-385-7576 Term Exp: 12/31/22 e-mail: dfjgarmfarm@embarqmail.com
Michael Berkheimer (<i>Farmer</i>)	1321 W. Lisburn Road Mechanicsburg, PA 17055	717-571-4600 Term Exp: 12/31/23 e-mail: mberk13@comcast.net
Mike Wadel (<i>Public</i>)	11 Hilltop Drive Shippensburg, PA 17257	717-377-5895 Term Exp: 12/31/23 e-mail: mike@diffenbaughwadel.com

STAFF

District Manager	Carl Goshorn	717-240-5355 cgoshorn@ccpa.net
District Asst. Manager/E&S	Vince McCollum	717-240-6169 vmccollum@ccpa.net
District Secretary	Michele Marsh	717-240-6184 mmarsh@ccpa.net
District Technician/E&S	Kim Falvey	717-240-5359 kfalvey@ccpa.net
District Technician/E&S	Matthew Stough	717-240-7838 mstough@ccpa.net
District Engineer	Mike Lubinsky	717-240-5356 mlubinsky@ccpa.net
D&G/Watershed Specialist	Lori Glace	717-240-5358 lglace@ccpa.net
Chesapeake Bay Technician	Charles Heberlig III	717-240-5357 cheberlig@ccpa.net
Nutrient Management Spec.	Dylan Varner	717-240-5360 dvarner@ccpa.net

ASSOCIATE DIRECTORS

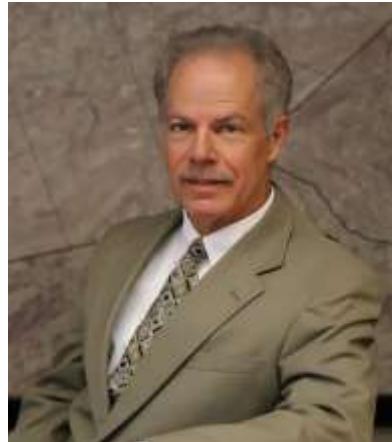
Kingsley Blasco 15 Subdivision Road Newville, PA 17241 e-mail: kingsley@blascoinsurance.com	717-776-7138	James Hoffman 700 Ayers Ave Lemoyne, PA 17043 e-mail: jim@jvhexcavating.com	717-648-6946
Todd Chestnut 50 Eberly Road Newville, PA 17241 e-mail: chestnutfarms@hotmail.com	717-423-5794	W. John Madden 501 Belvedere St Carlisle, PA 17013 e-mail: john@fsa-md.com	
Paul Wilson 143 Frost Road Gardners, PA 17324 e-mail: WilsonEng@comcast.net	717-580-3580	Dan Mains 3287 Ritner Hwy Newville, PA 17241 e-mail: mtrockfarming@comcast.net	
Mike Ward 22 Royal Drive Carlisle, PA 17015 e-mail: Michael.c.ward@dla.mil	717-385-4715	Steve Taglang 5500 Westbury Drive Enola, PA 17025 e-mail: stevetaglang@comcast.net	



CONSERVATION DISTRICT DIRECTORS



*Duff George - Chairman
Farmer Director*



*Vince Difilippo
Commissioner Director*



*Glenn Kimmel - Vice Chairman
Public Director*



*Victor Barrick
Farmer Director*



*Michael Berkheimer
Farmer Director*



*Michael Wadel
Public Director*



*Denny Garman
Farmer Director*



2022 CALENDAR OF EVENTS

JANUARY:

- 1 New Year's Day - Office Closed
- 12 Water Testing – District Office
- 17 Martin Luther King Day Holiday - Office Closed
- 25 Board Meeting - 8:00am - District office
- 26 Manure Management Planning Workshop - Penn Township
- 27 PACD Executive Council Meeting via Zoom

FEBRUARY:

- 2 Manure Hauler Lvl 2. Cert. Exam – Dist. Office
- 9 Manure Manag. Planning Workshop - Dist. Office
- 9 Water Testing – District Office
- 16/17 Statewide Staff Conference - Virtual
- 21 President's Day Holiday – Office Closed
- 22 Board Meeting – 7:00pm - District office
- 23 Manure Hauling CEC Session- Dist. Office
- 23/24 Statewide Ag. Agency Meeting – Virtual

MARCH:

- 9 Manure Management Planning Workshop - N. Newton Township
- 9 Water Testing – District Office
- 19 Yellow Breeches Angler's Outdoor Show St. Patrick's Church
- 22 Board Meeting – Bongiorno - 9:00AM
- 24 E&S/NPDES Workshop for Engineers - Bongiorno
- 25 Tree seedling sale order deadline

APRIL:

- 1 Dirt, Gravel, & Low Volume Roads Project Applications Due
- 08 PACD Regional Directors Meeting – 10:00am
- 13 Water Testing – District Office
- 15 Friday before Easter – Office Closed
- 20 Tree Seedling Bundling – Allen Road
- 21 Tree Seedling Sale – Allen Road - 9:00 to 5:00
- 22 Tree Seedling Sale – Allen Road – 8:00 to 12:00
- 26 Board Meeting – District Office – 7:30AM
- TBD Annual Rain Barrel Sale

MAY:

- 3 County Envirothon – Mechanicsburg Sportsman Assoc
- 11 Water Testing – District Office
- 23 Pre-Sidress Nitrogen Testing Program Starts
- 24 Board Meeting – West Pennsboro Park - 7:00PM
- 25 State Envirothon - Camp Mt. Luther in Union Co
- 30 Memorial Day Holiday - Office Closed

JUNE:

- 8 Water Testing – District Office
- 27 Pre-Sidress Nitrogen Testing Program ends
- 28 Board Meeting – District Office - 7:30AM

JULY:

- 4 Independence Day Holiday – Office Closed
- 13 Water Testing – District Office
- 26 Board Meeting – West Pennsboro Park - 7:00PM

AUGUST:

- 10 Water Testing – District Office
- 23 Board Meeting – District Office - 7:00PM

SEPTEMBER:

- 5 Labor Day Holiday – Office Closed
- 14 Water Testing – District Office
- 23 20th Annual Conservation District Golf Tournament - Rich Valley Golf Course
- 27 Board Meeting/Awards Ceremony – West Pennsboro Park - 5:30PM

OCTOBER:

- 12 Water Testing – District Office
- 25 Board Meeting – District Office - 7:00PM

NOVEMBER:

- 9 Water Testing – District Office
- 11 Veteran's Day Holiday – Office Closed
- 24 Thanksgiving Day Holiday – Office Closed
- 25 Day after Thanksgiving Holiday – Office Closed

DECEMBER:

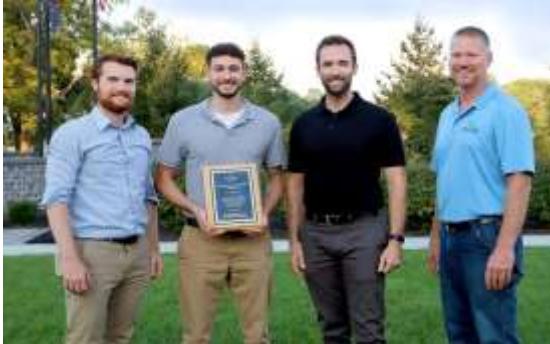
- 13 Board Meeting – District Office – 8:00AM
- 14 Water Testing – District Office
- TBD Corn Planter Clinic – Shippensburg Auction Center
- 23 Christmas Eve Holiday – Office Closed
- 26 Christmas Day Holiday – Office Closed



CONSERVATION DISTRICT AWARD WINNERS

CLEAN WATER AWARD

INTEGRATED DEVELOPMENT PARTNERS, LLC



Zack Geist, Evan Lescanec, Elliott Shibley, Vince McCollum

The team at IDP submits high quality and complete NPDES permit submissions. Their permit documents often include site designs that incorporate erosion and sedimentation control and post construction stormwater management plans that exceed regulatory requirements. IDP thinks outside the box and has proposed some innovative designs to meet stormwater requirements. The IDP team has great communication with District staff and their work ethic is evident in the paperwork they submit for review to our office.

FARMER OF THE YEAR RnR FARMS



Dylan Varner, Curtis Rabert, Todd Rabert, Kristina Rabert

Todd is a 7th generation farmer that owns two farms that are preserved and total approximately 170 acres. Todd has a Comprehensive Nutrient Management Plan (CNMP), which makes him compliant with state requirements. In addition to working on his farms and rented fields, he does custom combining and grain hauling. Todd is a conscientious farmer and deserving of this award.



CONSERVATION EDUCATORS OF THE YEAR



Robert Smetana, Lori Glace, Leslie Tritt

Leslie Tritt - "I love building relationships with students, helping them reach their potential, and sharing my passion for all things outdoors with them." - Carlisle High School

Robert Smetana—"I became a teacher because I love my content and enjoy the experience of entertaining students as they observe and discover what science is all about." - Carlisle High School

MEDIA CONSERVATION AWARD CUMBERLAND COUNTY OFFICE OF COMMUNICATIONS



Ben Burner, Samantha Krepps, Michele Marsh, Chris Sechrist

The Communications Office has trained the Conservation District staff on how to best utilize Facebook to reach the sites users. They promote programs by utilizing the County web site www.ccpa.net for announcements and press releases to reach the most people possible. Their staff processes press releases are written up and are sent to the local news media for distribution in their newspapers and social media sites.

EROSION AND SEDIMENT CONTROL/NPDES PROGRAM

The goal of the erosion and sediment control (E&S) and the National Pollutant Discharge Elimination System (NPDES) programs is the protection of water resources. Through the implementation of these programs, the District strives to minimize accelerated erosion and sedimentation resulting from earthmoving activity and ensures the management of stormwater quantity and quality, after construction is completed. The District is given the authority to administer the E&S and NPDES programs by the PA Department of Environmental Protection (DEP).

Program staff activities include conducting plan reviews, site inspections, complaint investigations, holding workshops and processing NPDES permits. The District is delegated Level III - Program Enforcement, by DEP, which makes the District responsible to prepare and execute enforcement actions in accordance with the program's Compliance Assistance and Enforcement Manual. Additionally, the District has the post construction stormwater management (PCSM) delegation with DEP, which enables the District to conduct engineering reviews of the PCSM plans for all Individual NPDES permits and General NPDES permits as staff resources allow. These delegations enable the District to provide technical assistance during the land development process at the local level to better serve Cumberland County residents and effectively protect our valuable natural resources.

PA DEP has been working on a General NPDES permit (PAG-01) for small construction sites (less than 5 acres of earth disturbance). This permit requires the applicant to utilize PA DEP specified BMP's to manage stormwater runoff and the site must meet eligibility requirements. This General permit is effective March 1, 2022. More information can be found on DEP's website at: www.dep.pa.gov/constructionstormwater

E&S/NPDES PROGRAM ACCOMPLISHMENTS

E&S Plan Reviews	116
Project Acres	2,508
Disturbed Acres	1,085
Inspections	514
General NPDES Permits	53
Individual NPDES Permits	14
Complaints	28
Civil Actions	0
E&S Plan Review Fees	\$ 197,913
NPDES Permit Fees	\$ 53,000
PCSM Fees	\$ 21,450
DEP Disturbed Acre Fees	\$ 56,000



TOWNSHIPS WITH MOST PROJECTS

Hampden	21
Silver Spring	17
Upper Allen	12
South Middleton	11
Southampton	7

Pictures showing the establishment of a rain garden during its first growing season (Descending Spring — Summer — Fall)



Chesapeake Bay Program

Chesapeake Bay Farm Inspections

The Conservation District, with the guidance of DEP, continued Chesapeake Bay Farm Inspections in 2021. These inspections are for all farm operations in the county. The inspections ensure farmers have their Manure Management Plans or Nutrient Management Plan and Chapter 102 Agricultural Erosion and Sediment Control Plans or an Ag erosion and sediment plan, where applicable. The inspections are also looking to make sure that plans are being followed to ensure that nutrients and sediment stay on the farm and not released into local waterways. District technicians completed 79 inspections in 2021.



Chesapeake Bay technician at a farm reviewing plans with a farmer during an inspection

Conservation Excellence Grant (CEG)

The Conservation Excellence Grant (CEG) Program is a new program with the purpose of providing financial and technical assistance for the implementation of best management practices (BMPs) on agricultural operations. BMPs are specialized practices designed to control soil erosion, manure and nutrient runoff, store animal wastes, establish vegetation, and manage the application of animal waste and fertilizer. The CCCD was granted close to 1.1 Million dollars for BMPs to be installed on farms and so far have allocated nearly all of the money on 6 projects. The BMPs that are to be installed include roofed heavy use areas with manure stacking pads, supporting structures for manure digestion and cover crops. 2022 looks to be a busy year for construction and hope to have all of the projects completed by the end of 2022.



CEG site visit with SCC Conservation Program Specialist Eric Cromer

Cover Crop Incentive Program

Cover crops are used to increase soil health, reduce unwanted runoff, and protect surrounding streams from non-point source pollution coming from agriculture. To promote the planting of cover crops, the District has implemented a program that pays for the planting of both no till and minimum till cover crop acres. This year, 63 farmers participated in this program with a total of 8,261 acres planted and 7,377 of those acres are no till. 2021 is the first year for the CEG cover crop program, which encourages farmers to try cover crops for the first time or if a farmer has cover cropped before they can try a multi-species cover crop. Three farmers signed up for the CEG cover crop program with a total of 273 acres planted in multi-species.

If you are interested in this program or the benefits of cover crops please contact the office and we will be happy to assist you.



Multi-species cover crop in the fall

NUTRIENT MANAGEMENT PROGRAM

Nutrient Management

The Cumberland County Conservation District (CCCD) continued 2021 as a participant in Pennsylvania's ACT 38 Program (Nutrient Management) as a Level 2 delegated District. The State Conservation Commission (SCC) delegates the tasks of writing and reviewing Nutrient Management Plans and inspecting ACT 38 participating farms for compliance. CCCD reviewed 7 plans that were then approved by Board of Directors. 19 on-site status reviews were preformed on ACT 38 participating farms to ensure the practices outlined in each farm's plans were being implemented. Nutrient Management Plans aid farmers by identifying a plants nutrient needs, and therefore the plans continue to be the best tool to help farmers prevent pollution by over application of manure, while maximizing crop yields. Every farm should consider the benefits of a Nutrient Management Plan to be written, approved, and implemented. If you have interest in obtaining an ACT 38 Nutrient Management Plan, please contact us and we can discuss options to have it written.



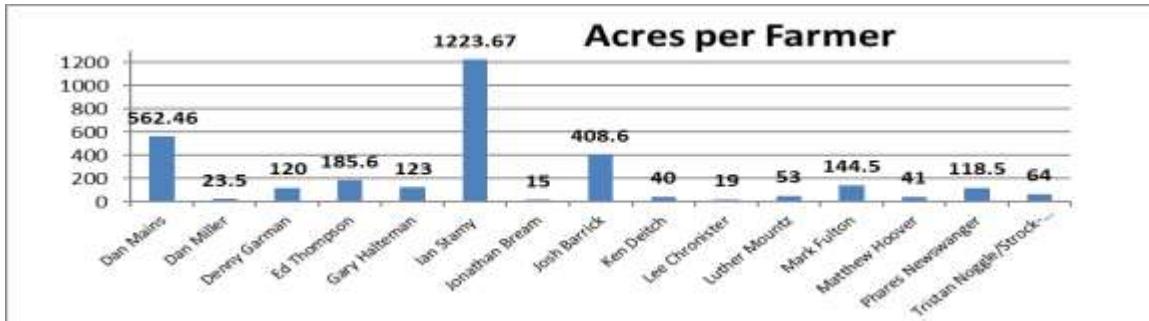
Manure Management

The Department of Environmental Protection (DEP) continued to delegate the responsibility of outreach, education, and complaint investigation of the Manure Management Program to the District through 2021. Manure Management Plans (MMPs) are required by every farm in Pennsylvania that generates or uses manure. CCCD has continued to assist farmers in writing the plans and educating them on the requirements of manure management at local events. This year, 9 farmers had plans written, were assisted in writing or had plans reviewed that were written by commercial writers. If you would be interested in receiving assistance writing a Manure Management Plan please contact our office to attend a workshop or work with the District individually. In 2021 the District investigated 4 complaints regarding manure. As Cumberland County continues to be a leader in agriculture, we must work together to achieve high yields while protecting the natural resources of the County. Both goals are possible through careful planning and implementation of Best Management Practices outlined in Nutrient and Manure Management Plans.

Manure Hauling

The Conservation District was host to a Manure Hauler Level 2 Exam, where 3 haulers became certified. A certified commercial manure hauler is a person that transports and/or land applies manure as a contract agent for an agricultural operator or commercial manure broker. Level 2 haulers can land-apply manure based on application rates and adhering to any application restrictions noted in a current Nutrient Management Plan, Nutrient Balance Sheet or Manure Management Plan.

Pre-Sidedress Nitrogen Testing Program (PSNT)



DIRT, GRAVEL & LOW VOLUME ROADS PROGRAM

Cumberland County's Dirt, Gravel, and Low Volume Roads Program is split into two separate programs, one program for public-owned dirt, gravel, and/or stone roads and one program for paved and/or tar & chipped roads that have less than 500 cars per day. In order for a road to qualify for the program, the road-owning entity must attend a two-day Environmentally Sensitive Maintenance (ESM) Certification Training.

Dirt & Gravel

Cold Springs Road, Dickinson Township started on the south side of South Mountain. Work included adding additional drainage pipes for stormwater, underdrains to collect springs seeps, and road base improvements. Shale was also placed to build road base and shape the road for preparation of Driving Surface Aggregate in the next phase of work.

High Mountain Road, Cooke Township work concluded in early 2021 by replacing several cross pipes to improve road drainage.



Program	Municipality	Project Name	Amount
DGR	Cooke	High Mountain	\$ 8,013.80
DGR	Dickinson	Cold Springs South 1	\$ 14,604.46
DGR	Dickinson	Cold Springs South 1.2	\$ 5,769.00
DGR	Dickinson	Cold Springs South 2	\$ 42,298.50
DGR	Penn	Beetem Hollow 5	\$ 100,579.20
DGR	South Newton	Furnace Hollow	\$ 123,832.75
Project Totals:			\$ 295,097.71

Geotextile (woven) is used to separate clays from road surface and geogrid is used to disperse weight to stabilize this section of road base.

Low Volume Roads

Beetem Hollow, Penn Township replaced a 3 ft squash pipe with a 12ft. concrete box culvert to eliminate flooding hazards. A stream channel was reconstructed inside this structure to connect the stream corridor above and below the new structure.

Furnace Hollow Road, South Newton Township replaced a 2.5ft. round pipe with a 14ft. bottomless concrete arch pipe to eliminate flooding hazards. This project also reconstructed a stream channel through the new structure for stream continuity.



Beetem Hollow: newly constructed stream channel with low flow channel and bank margins.



Furnace Hollow Road: newly constructed box culvert.



WATERSHED PROGRAM

Growing Greener Plus

Yellow Breeches Trout Habitat and Stream Bank Restoration at Allenberry

This project focused on a 4,000 foot section of the Yellow Breeches near Boiling Springs. Rocks and logs were placed in the stream to create rock vane deflectors, rock vanes, j-hook rock vanes, mud sill cribbing, and random boulders to create and enhance habitat for trout and macroinvertebrate communities. These structures will direct water into the center of the stream, which will help prevent stream bank erosion.



Mud sill cribbing: mimics an undercut bank that provides cover for trout and stabilizes the toe of the stream bank.



Rock vane deflector: directs water into the center of the stream to create a pool. Slack water will deposit sediment on the downstream side of the structure.

PACD Nonpoint Source Education Grant

Upper Allen Township Rain Garden Workshop

The Conservation District partnered with Upper Allen Township, Penn State Extension, and the Pennsylvania Association of Conservation Districts (PACD) to provide a rain garden and nonpoint source pollution educational workshop.

Participants learned about local water quality, how nonpoint source pollution affects our local water quality, and how to construct their own rain garden. Participants were then able to help plant a rain garden at the township office.



Workshop participants plant native wildflowers

Rain Barrel Program

The Conservation District had a small rain barrel sale for 2021. This year we partnered with Penn State Extension's Master Watershed Steward Program to construct 24 rain barrels.

The District has distributed over 1,500 rain barrels since the program began in 2002!

Contact the District to reserve your pre-order.



Penn State Extension Master Watershed Stewards



TREE SALE



468 customers!
15,000
seedlings sold!



Tree Sale Totals	
Colorado Blue Spruce	2,500
White Pine	3,000
Canadian Hemlock	2,000
Concolor Fir	2,800
Swamp White Oak	1,500
Scarlet Maple	1,200
Persimmon	1,700
Pear Pack (2 per pack)	102
Apple Pack (3 per pack)	122
Redhaven Peach	150
Myrtle (flats of 50)	105
Wildflower Mix in ounces	349
Tree Shelters	618
Wood Stakes	752



Cumberland County Envirothon

Students from six area high schools competed in the virtual Cumberland County Envirothon on Tuesday, April 13, 2021.

The 'Hellbenders' from Cumberland Valley High School took first place with a score of 295; second place went to Swager-culture from Boiling Springs High School with a score of 278; and third place went to Poop, Scoot, & Boogie from Big Spring High School with a score of 263.



'Angry Beavers' from Boiling Springs High School



2021 Envirothon Champions 'Hellbenders' from
Cumberland Valley High School

The Cumberland County Envirothon, presented by the Cumberland County Conservation District, is a fun academic event that provides high school students hands-on field experience dealing with environmental issues. Students complete five exams that test their knowledge on Aquatics, Forestry, Soils, Wildlife, and a current issue focused on Water Resource Management: Local Control and Local Solutions.

Participating schools included: **Big Springs, Boiling Springs, Camp Hill, Carlisle, Cumberland Valley, East Pennsboro.**

In 2022, the Cumberland County Envirothon will be back in person at the Mechanicsburg Sportsmen's Association on May, 3. All participating students will receive a t-shirt sponsored by Adams Electric. The winning team will represent Cumberland County by advancing to the State Competition on May 25.



'Green Beans' from Big Spring High School



'The Golden Eagles' from Camp Hill High School



2021 COLLEGE SCHOLARSHIP WINNERS



Joshua Herbster

Wilbur E. Wolf Jr. Memorial Scholarship Winner \$1,000

Joshua Herbster is a graduate of Cumberland Valley High School and is currently attending Shippensburg University studying Environmental Biology/Ecology.

\$500 COLLEGE SCHOLARSHIP WINNERS

1. **Amanda Drake** is a graduate of Carlisle High School and is currently attending Shippensburg University, majoring in Geoenviromental Studies.
2. **Brandon Fanus** is a graduate of Boiling Springs High School and is currently attending Shippensburg University, majoring in Biology.
3. **Kenzi Kapp** is a graduate of Cumberland Valley High School and is currently attending Shippensburg University, majoring in Environmental Conservation.
4. **Sophia Parlati** is a graduate of Cedar Cliff High School and is currently attending Juniata College, majoring in Environmental Science.
5. **Anne Puchalsky** is a graduate of Cumberland Valley High School and is currently attending Penn State University, majoring in Wildlife and Fisheries Science.
6. **Lauren Shaffer** is a graduate of Cumberland Valley High School and is currently attending Penn State University, majoring in Ecosystem Management.
7. **Sara Crouse** is a graduate of Big Spring High School and is currently attending Penn State University, majoring in Forestry.
8. **Lucas Shenk** is graduate of Big Spring High School and is currently attending Shippensburg University, majoring in Geoenviromental Studies.



GOLF TOURNAMENT



The 19th Annual Cumberland County Conservation District Golf Tournament was held at Rich Valley Golf on Friday September 24, 2021. There were 110 golfers that came out to enjoy a round of golf and support a good cause. The crisp early Fall day was perfect for a day on the golf course. After the round was over, attendees enjoyed a great meal prepared by Nolo's. The team of Nic DiSanto, Tom Watsula, Nate Weiss and Jen Logan won the event with a score of 53! Congratulations to the winning team and all of the participants for supporting environmental education efforts and conservation scholarships in Cumberland County. The District would like to thank everyone at Rich Valley Golf and Nolo's that helped make the day a success. Also, a special thank you to all of our hole sponsors. Their contributions allow us to continue our efforts in providing scholarships to Cumberland County students. This year's event raised nearly \$7,000 for scholarships and to date the tournament has raised over \$52,000. And finally, thank you to all the golfers. We hope to see you all again next September!

THE CUMBERLAND COUNTY CONSERVATION DISTRICT WOULD LIKE TO
THANK OUR HOLE SPONSORS FOR SUPPORTING THE 2021 GOLF TOURNAMENT

Conservation Hole Sponsor

