

2018 ANNUAL REPORT

CUMBERLAND COUNTY CONSERVATION DISTRICT

A YEAR OF RAIN...

The National Weather Service reports a total of 67.03 inches of rain fell in the Harrisburg area in 2018. That is 26 inches above average. To say we had a wet year would be an understatement.

In order to put the amount of rain we received into prospective, we need only to look at the calculations for rainfall on one acre of Cumberland County land. One inch of rain falling on one acre of ground is equal to around 27,154 gallons of water. Calculate that number times the inches of rain we received this year (67) and you will see that 1,819,318 gallons fell on each acre of land in Cumberland County in 2018. Cumberland County has approximately 355,000 acres, you do the math!

Though most of us were just tired of the constant rainfall and the effect it had on our outdoor plans, construction projects and farmer's agendas were definitely dampened across Cumberland County. Our staff worked with many developers, contractors and farmers to help solve and prevent erosion, heavy water run-off and how to proceed with plans. It wasn't always an easy task to go up against Mother Nature, but smart planning and teamwork got us through one of the wettest years ever.

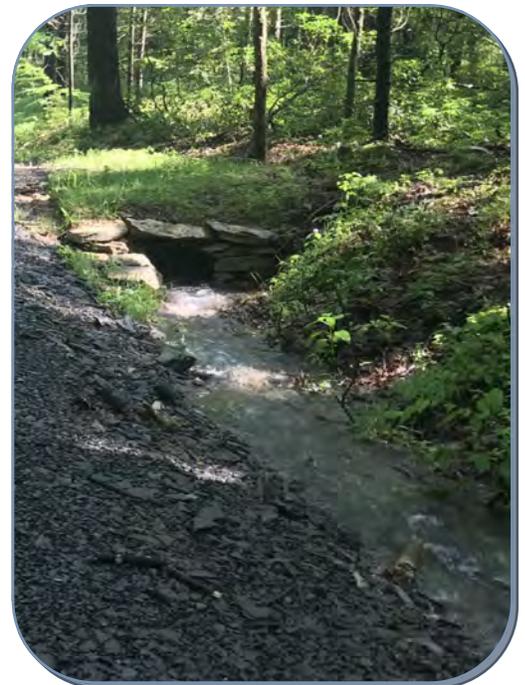
67.03 Inches

↑ Over 26 inches above average

2018, the year that our state should have changed its name to Pennsy**RAIN**ia



Commercial Construction Site - Sediment basin with device designed to skim the cleanest water off top, ensuring water discharged from the site is as clean as possible



D&G Roads - Cold Springs Rd - Dickinson Twp
Spring Seep Runoff through cross pipes



Heavy rains caused slow drainage in a farmer's field in Upper Allen Township

2019 CALENDAR OF EVENTS

District Office Hours: 8:00am - 4:30pm

JANUARY:

- 1 New Year's Day - Office Closed
- 9 Water Testing - District Office
- 21 Office Closed - Martin Luther King Day Holiday
- 22 Board Meeting/Cooperating Agency Luncheon @
Bongiorno Conference Center 9:00AM
- 30 Manure Management Workshop - District Office
- 30 - 31 PACD Conference - Toftrees State College

FEBRUARY:

- 13 Water Testing - District Office
- 18 President's Day Holiday - Office Closed
- 27 Manure Management Workshop - Southampton Twp

MARCH:

- 2 Spring Conodoguinet Creek Snapshot
- 11 Chesapeake Bay Meeting - Susquehanna University
- 13 Water Testing - District Office
- 14 E&S?NPDES Workshop for Municipalities - District Office
- 19 PACD Regional Directors Meeting - District Office
- 20 QAB Meeting - District Office - 9:00AM
- 20 Manure Management Workshop - North Newton Twp
- 24 Allen Road Open House 2:00PM - 4:00PM
- 27 Board Meeting - District Office - 7:00PM

APRIL:

- 5 Tree Seedling Sale Order Deadline
- 10 Water Testing - District Office
- 19 Friday Before Easter - Office Closed
- 22 Free Rain Barrel Workshop for Middle Spring Creek,
Mains Run & Gum Run Watersheds
- 23 Board Meeting - District Office -
CONFERENCE CALL 7:30AM
- 25 Tree Seedling Bundling - District Office 8:30AM-12:00PM
- 25 Tree Seedling Sale - District Office 1:00PM-5:00PM
- 26 Tree Seedling Sale - District Office 8:00AM-2:00PM

MAY:

- 7 County Envirothon - Kings Gap
- 8 Water Testing - District Office
- TBD Annual Rain Barrel Sale - Cedar Cliff High School
- 21-22 State Envirothon—University of Pittsburgh-Johnstown
- 27 Memorial Day Holiday - Office Closed
- 28 Board Meeting - District Office 7:00PM

JUNE:

- 12 Water Testing - District Office
- 25 Board Meeting - District Office -
CONFERENCE CALL 7:30AM

JULY:

- 4 Independence Day Holiday - Office Closed
- 10 Water Testing - District Office
- 17-19 PACD Conference - Genetti Hotel Williamsport
- 23 Board Meeting - District Office 7:00PM

AUGUST:

- 14 Water Testing - District Office
- 27 Board Meeting - District Office 7:00PM

SEPTEMBER:

- 2 Labor Day Holiday - Office Closed
- 11 Water Testing - District Office
- 24 Board Meeting - District Picnic 6:00PM/Location TBD
- 27 Golf Tournament - Rich Valley Golf

OCTOBER:

- 9 Water Testing - District Office
- 22 Board Meeting - District Office 7:00PM

NOVEMBER:

- 11 Veteran's Day Holiday - Office Closed
- 13 Water Testing - District Office
- 28 Thanksgiving Day Holiday - Office Closed
- 29 Day after Thanksgiving Holiday - Office Closed

DECEMBER:

- 10 Board Meeting - District Office 8:00AM
- 11 Water Testing - District Office
- TBD Corn Planter Clinic - Shippensburg Auction Center
- 24 Christmas Eve Holiday - Office Closed
- 25 Christmas Day Holiday - Office Closed



REMEMBERING A GREAT MAN, LEADER & FRIEND

On January 4, 2019, the Cumberland County Conservation District lost Wilbur E. Wolf, Jr. to a tragic accident while cutting down a tree. For those who knew Wilbur, which by most accounts would be half of Cumberland County, they are not surprised that he was working in the forest up until his last day.

Wilbur was the kind of man that you wanted on your side. His leadership, life experiences and general knowledge of just about anything, made you want to hang on every word he said. He was thoughtful and kind, yet knew how to get his point across. Wilbur was a well-deserving respected man. His leadership and involvement in his community speaks volumes.



Wilbur was a Conservation District Director from 1976-77 and 1992 to present. He was Chairman of the Board from 1995-2019. Over the last 52 years, Wilbur also volunteered or served on the board for the Society of

American Foresters, Pennsylvania Wildlife Federation, Penn State Forests Issues Working Group, DCNR Bureau of Forestry Advisory Committee, Conodoguinet Creek Watershed Association, Pennsylvania Tree Farm Committee, Capital Area Intermediate Unit Board of Directors, Cumberland Perry Area Vocational Technical School Joint Operating Committee and Future of Cumberland County Agriculture. He was Trustee at Dickinson Presbyterian Church and served as President of the PTO at Centerville Elementary School. Finally, he most proudly served on the Big Spring School Board as Member 1981-1989 and 1997-2019 and was President of the Board 1983-1989 and again 1999-2019.

Our thoughts and prayers are with his beloved wife Peg, his children Kathryn Sekeres, Wilbur E. Wolf, III, Rebecca Escott, Elizabeth Richwine and his 12 grandchildren, Carrie, Heather, Jacob, Wilbur, Rachel, Paula, Elizabeth, Dawson, Kayla, Tessa, Kyle and Trevor. His family was his greatest accomplishment and he was so proud of them all.

Our community will greatly miss his presence in so many ways. For those of us here at the Conservation District, we will miss his leadership, friendship and willingness to always lend a hand or word of advice in any situation. There is no doubt his legacy will live on among those who were blessed to know and work with Wilbur.



CUMBERLAND COUNTY COMMISSIONERS



L to R: Gary Eichelberger, Vince DiFilippo, and Jim Hertzler



CONSERVATION DISTRICT STAFF & DIRECTORS



Back Row: Brady Seeley, Vince McCollum, Matt Stough, Carl Goshorn, Jared McIntire, Mike Lubinsky

Front Row: Jessica Cohick, Brenda Shambaugh (PACD Executive Director), Kim Falvey, Lori Glace



Glenn Kimmel, Denny Garman, Mike Berkheimer, Brenda Shambaugh (PACD Executive Director), Jim Hertzler, Wilbur Wolf

Not Pictured, Duff George & Dan Mains



2018 CONSERVATION DISTRICT TEAM SHEET

CUMBERLAND COUNTY CONSERVATION DISTRICT

310 Allen Road, Suite 301, Carlisle, PA 17013-9101

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Wilbur Wolf (*Public*)
Chairman

833 Mt. Rock Road
Carlisle, PA 17015

Term Exp.: 12/31/19
e-mail: wewjr@embarqmail.com

Duff George (*Farmer*)
Vice-Chairman

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EROSION AND SEDIMENTATION CONTROL PROGRAM

The goal of the erosion and sedimentation pollution control and the National Pollutant Discharge Elimination System (NPDES) programs are the protection of water resources. These programs minimize accelerated erosion and sedimentation that results during an earthmoving activity and manage the amount and quality of stormwater runoff that leaves the site after construction. The District has been given the authority to administer the erosion and sedimentation pollution control and the (NPDES) programs by the Department of Environmental Protection (DEP).

Program staff activities include conducting plan reviews, site inspections, complaint investigations, holding workshops and processing NPDES permits. The District maintains a Level III enforcement delegation with the DEP, which makes the District responsible to prepare, commence and execute enforcement actions in accordance with the program's Compliance Assistance and Enforcement Manual. The District also has the post construction stormwater management (PCSM) delegation with DEP which allows the District to conduct engineering reviews of the PCSM plans for Individual NPDES permits. 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.

E&S PROGRAM ACCOMPLISHMENTS

E&S Plan Reviews	108
Project Acres	9,610
Disturbed Acres	2,688
Inspections	733
General NPDES Permits	41
Individual NPDES Permits	10
Complaints	25
Civil Actions	1
E&S Plan Review Fees	\$ 225,213
NPDES Permit Fees	\$ 49,500
PCSM Fees	\$ 44,250
DEP Disturbed Acre Fees	\$ 91,600

TOWNSHIPS WITH MOST PROJECTS

Silver Spring	22
South Middleton	14
Upper Allen	13
Middlesex	10
North Middleton	8

TYPES OF NPDES PROJECTS

Commercial/Industrial	33
Residential	40
Agricultural	4
Utility	11
Roadway/Bridges	1
School	1
Recreation	0



Good use of material on-site to stabilize work areas. This site used the mulch from the clearing of brush to provide a stable work area to prevent accelerated erosion.



Matting on steep slopes helps in vegetation growth. This slope was seeded at the same time and matting used on part.



NUTRIENT MANAGEMENT PROGRAM

Nutrient Management

The Cumberland County Conservation District (CCCD) continued 2018 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 wrote 2 plans for a volunteer farm and reviewed 6 plans that were approved by our Board of Directors. 18 site inspections were performed on ACT 38 farms to ensure the practices outlined in each farm's plan was being implemented. Nutrient Management Plans aid farmers in exactly meeting the needs of the plant's nutrients, therefore the plans continue to be the best tool for farmers to prevent pollution on farms that generate manure while maximizing crop yields. Pennsylvania encourages every farm to 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 Cumberland County Conservation District through 2018. Manure Management Plans (MMP) are required by every farm in Pennsylvania that generates or uses manure. CCCD has continued to assist farmers in writing the plans and educate the farmers on the requirements of manure management at local events. Our District held 2 workshops where 13 farmers were able to obtain a written plan at the end of the day and assisted or wrote an additional 8 MMPs. If you would be interested in receiving assistance for a Manure Management Plan please contact our office to attend a workshop or work with the District individually. In 2018 the District investigated 3 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 are possible through careful planning and implementation of Best Management Practices outlined in Nutrient and Manure Management Plans.



WATERSHED PROGRAM

Grants Activities

The Conservation District held a Free Rain Barrel Workshop, through a 319 Grant, for residents in the Middle Spring, Mains Run, and Gum Run Watersheds, which is located around Shippensburg. Participants learned about stormwater and how they could cut down on storm water runoff by collecting rain in their rain barrels, and then reuse the collected rain water.

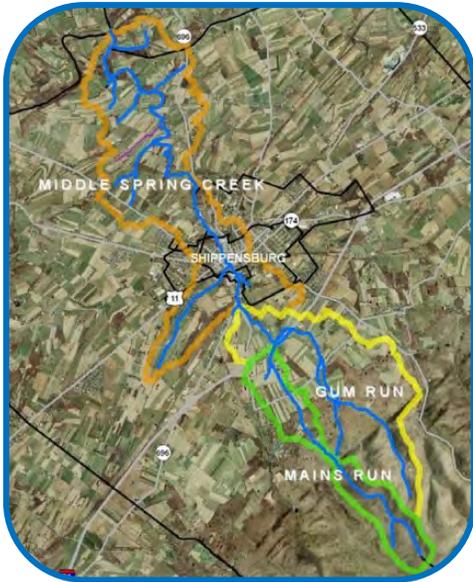
Shippensburg University Students helped participants construct the barrels.

Next workshop will be April 22, 2019, in Shippensburg. You must be a resident in the above watersheds in order to receive a free rain barrel. Call Lori or Jess at the Conservation District to sign up!

Financial support for this project is provided by the PA Department of Environmental Protection and U.S. Environmental Protection Agency through a grant under Section 319 of the Clean Water Act.



MSWA President Blyden Potts talks about how to help improve the health of Middle Spring and its tributaries.

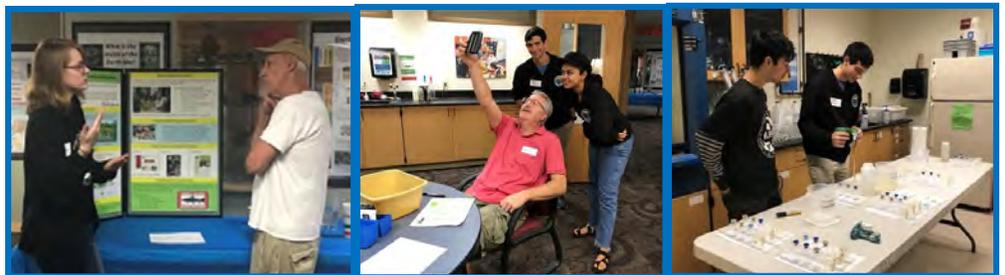


Middle Spring (orange), Mains Run (yellow) and Gum Run (green) Watersheds.

Conodoguinet Creek Snapshot

Monitoring continued with another year of the Snapshot. Volunteers collected samples from pre-determined sites and analyzed the samples at Alliance for Aquatic Resource Monitoring (ALLARM) labs.

Volunteers were able to also learn about nonpoint source pollution through ALLARM's program. Partners include: ALLARM, Conodoguinet Creek Watershed Association (CCWA), Big Spring Watershed Association (BSWA) and Middle Spring Watershed Association (MSWA). Funding was provided through the Chesapeake Monitoring Cooperative.



Call for Riparian Buffer Projects!

Seeking landowners for
RIPARIAN BUFFER PROJECTS

Riparian Buffers are a great way to help protect your land from erosion and improve stream health. Project proposals are being sought for multi-functional riparian buffers. These buffers add additional plants such as nut trees, berries, and woody florals that can be sold for a profit or used by landowners. Overall minimum buffer width recommendation is 35 feet. Please call Lori at the Conservation District if you are interested in a Riparian Buffer!



CHESAPEAKE BAY PROGRAM

Poultry Composter

The Conservation District helped to fund an Animal Mortality Composter in Southampton Township. This structure is 2,709 square feet and will help to properly compost poultry mortalities on his operation. This was cost shared using funds from the Chesapeake Bay Special Projects program.



Animal Mortality Composting Facility

Manure Stack Pad and Concrete Heavy Use Area



Animal Heavy Use Area and Stack Pad

The Conservation District helped to fund the construction of a manure stack pad and concrete heavy use area in West Pennsboro Township. This will help to keep animals confined when conditions are not appropriate for them to be in the pasture and allows for manure to be stored for a longer period of time. This was cost shared using funds from the Chesapeake Bay Special Projects Program and the Marcellus Shale Gas Well Fund.

Pre-Sidedress Soil Nitrogen Test (PSNT)

For the 18th year, the District through the Chesapeake Bay Program, offered a Pre-Sidedress Soil Nitrogen Test (PSNT) to farmers in the county. This soil test is designed to prevent unnecessary nitrogen application to corn crops or to identify extra nitrogen needs. This can help the farmer save money and increase crop yields. In addition to the added benefits to the farmer, the environment benefits by using nitrogen fertilizers more efficiently. In 2018, two interns tested 20 participating farmers' fields totaling 2,122 acres of corn. Out of the 94 fields tested, 33 were given a recommendation of needing extra nitrogen to meet the crop's needs. This program will be offered again in 2019.



Intern taking soil samples

Chesapeake Bay Farm Inspections

The Cumberland County Conservation District, with the guidance of DEP, continued the Chesapeake Bay Farm Inspections in 2018. These inspections are for farms that generate or spread manure and/or have tilled ground, which includes no-till operations. The inspections are ensuring farmers have their Manure Management Plans and/or their Chapter 102 Agricultural Erosion and Sediment Control Plans where applicable. Technicians with the CCCD completed 99 inspections for Fiscal Year 17-18 totaling 8,805 acres. A total of 83 farms were found to be out of compliance with Pennsylvania state regulations, but 55 of those farms were brought into compliance before December 31, 2018 with the rest working towards compliance.

Education

The 8th Annual Corn Planter Clinic was held December 12, 2018 at the Shippensburg Auction Center. There were over 130 participants including farmers, vendors, and various government agencies.



8th Annual No-Till Corn Planter Clinic



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 Stone Roads and one program for paved and tar & chipped roads that have less than 500 cars per day. In order for a road to qualify for the program, the public owner must attend a two-day Environmentally Sensitive Maintenance (ESM) Certification Training.



ESM Certification Training

The **Dirt & Gravel Roads Program** completed 2 more phases of work on a 2.4 mile section of Cold Springs Road in Dickinson Township. The first phases, completed in 2016 and 2017, installed 43 shallow cross pipes to help fix drainage within the road. Work in the Spring of 2018 included 10,000 tons of shale to add base to the bedrock of the road and create proper crown in the road to prevent water from flowing in the center of the road. Work in the Fall of 2018 included capping the shale base material with Driving Surface Aggregate (DSA). DSA is a specially designed surface that uses different sizes of stone and optimum moisture, and is placed with a paver and compacted with a large roller. This process prevents clay particles in the stone mixture, which prevents sediment runoff that can be found as soft stone breaks down over time.

Road Name	Grant Awarded
Wood Ave	\$ 17,641.45
Beetem Hollow	\$ 29,430.40
Pipeline	\$ 32,219.68
Cold Springs	\$ 191,782.50
Cold Springs	\$ 110,427.78
Total	\$ 381,501.81

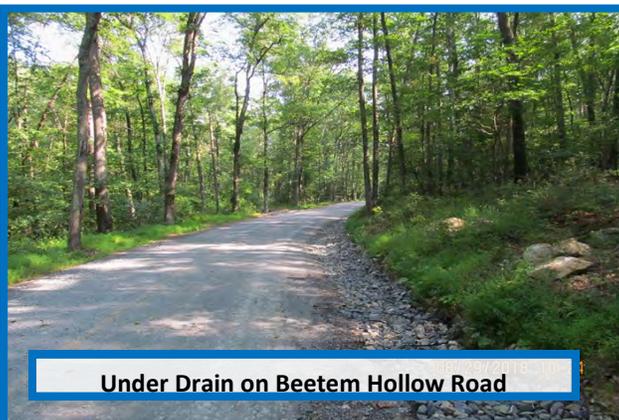


Shale Base Material on Cold Springs Road



Driving Surface Aggregate on Cold Springs Road

The **Low Volume Roads Program** completed 3 projects in 2018. Projects included a stormwater drainage system in Mt. Holly Springs Borough on Wood Avenue; underdrains to capture springs seeps and extra drainage cross pipes in Penn Township on Beetem Hollow Road; and replacing an undersized stream pipe and disconnected ditch drainage from the stream on Pipeline Road in Lower Mifflin Township.



Under Drain on Beetem Hollow Road



New Stream Culvert, Pipeline Road



COUNTY ENVIROTHON

Students from nine area high schools competed in the annual Cumberland County Envirothon on Tuesday, May 1, 2018, at Pine Grove Furnace State Park, Gardners, PA. The Green Salamanders from Cumberland Valley High School took first place with a score of 300; second place went to The Koala Corporation from Camp Hill High School with a score of 279; and third place went to The Hellbenders from Cumberland Valley High School with a score of 277. Special guests included Secretary Cindy Adams Dunn, Department of Conservation and Natural Resources and Vincent DiFilippo, Cumberland County Commissioner.



**2018 Envirothon Winners
Green Salamanders 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: *Benefits of Grassland and Pastureland Management*. 112 students participated this year and enjoyed the beautiful, sunny day. Schools participating in the competition include: Big Spring, Boiling Springs, Camp Hill, Carlisle, Cedar Cliff, Cumberland Valley, East Pennsboro, Mechanicsburg, and Shippensburg.



Representatives from the PA Fish and Boat Commission, PA Department of Conservation and Natural Resources, PA Game Commission, Natural Resource Conservation Service, and the Cumberland County Conservation District administered the tests.

Once the competition was over, the students enjoyed a picnic lunch provided by the Conservation District. After lunch, the Conservation District, along with Secretary Dunn, and Agency Personnel Representatives, handed out awards made from Pennsylvania hardwood to the top three teams at each station and the top three teams overall. All participating students and advisors received an Envirothon t-shirt sponsored by Adams Electric Cooperative.



TREE SALE

TOTAL GROSS SALES: \$28,250.10

TOTAL NET PROFIT: \$ 5,642.63

Tree Sale Totals

Colorado Blue Spruce	890
Canaan Fir	1340
White Pine	1260
Scarlet Maple	450
Concolor Fir	1070
White Oak	530
Red Oak	750
Pear Pack	120
Apple Pack	261
Peach	95
Myrtle	80
Wildflower Mix	180 ounces
D- Freesia Mix	18
H - Everbearing Strawberry	63
I - Stargazer Lilies	21
N - Peacock Orchids	20
Shelters	1468
Stakes	1860



GOLF TOURNAMENT

Our 16th Annual Scramble Golf Tournament was held on Friday, September 28th at Rich Valley Golf. Golfers began at 9:00am with a shotgun start and ended the day with a lunch and an awards ceremony. We had a total of 26 hole sponsors and Stan's Beverage and Beverage Express donated cases of water. This year was the largest profit we have made bringing in \$5,939.41. This brings our total raised to date to over \$32,000! This money helps fund the annual Envirothon and College Scholarships. We want to thank everyone who participated and sponsored this event, we could not do it without your support.



Winning Team Members Paul Wilson & Kelly Kelcher
Not Pictured: Kevin Rucker & Fay Fazal



CONSERVATIONIST HOLE SPONSORS



2018 CONSERVATION AWARD WINNERS



L to R: Barb Keefer, Keefer's grandson & Bob Keefer, Mike Wadel & Eric Diffenbaugh, Jenny Pyers & Amber Sim
Not pictured: Central PA Conservancy

- **Bob and Barb Keefer**, owners of Hard Earned Acres in Shippensburg, received the Farmer of the Year Award for demonstrating a concern for soil and water quality by implementing best farm management practices. Through a variety of projects, the Keefers have made environmentally positive changes on their dairy farm, including decreased storm water runoff, increased accuracy of fertilizer application and reduced waste.
- **Jenny Pyers and Amber Sim**, science teachers at Cumberland Valley High School, received the Educator of the Year Award for demonstrating a strong commitment to conservation education programs and activities. Pyers and Sim work with students who participate in the Cumberland County Envirothon, . Cumberland Valley has won the last two Envirothons.
- **Diffenbaugh Wadel Inc.**, an engineering firm with offices in Newville and Mechanicsburg, received the Clean Water Award for working to minimize adverse impacts of land development on water quality. The firm works closely with district staff during the approval process for land development plans to ensure that concerns are addressed and plans are implemented properly.
- **Central Pennsylvania Conservancy**, headquartered in Carlisle, received the Watershed Protection Award for promoting watershed protection through a coordinated land and water resource approach. The conservancy is working to conserve critical habitat at the east branch headwaters of Letort Spring Run, a nationally prominent trout fishery in South Middleton Township.



2018 SCHOLARSHIP WINNERS

\$500 COLLEGE SCHOLARSHIP WINNERS



Levi D. Negley
currently attending
PSU Mont Alto Campus majoring
in Forest Technology



Tiffany Lehman
currently attending Penn State
University with a major in
Agribusiness Management



Anna Pauletta
currently attending Penn State University
with a major in Forest Ecosystem
Management, focus in Forest Biology,
Wildlife and Fisheries Science, and focus
in Wildlife Biology as a concurrent major.

\$250 ENVIROTHON PARTICIPANTS COLLEGE SCHOLARSHIP WINNERS



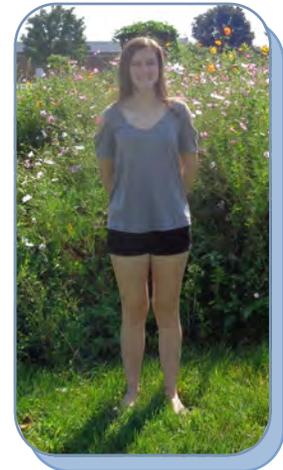
Morgan Bear will be
attending Penn State
University majoring in
Agricultural &
Extension Education



Taylor Donovan will
be attending
Delaware Valley
University majoring in
Dairy Science



Faith Kelly will be
attending Colorado
State University
majoring in
Ecosystem Science
and Sustainability



Lyndsey Turner will be
attending
Elizabethtown
College majoring in
Actuarial Science

Not Pictured:

Nathan Vorodi will be attending Penn State University majoring in Science
Chi Hong Linh Ho will be attending University of Virginia majoring in International Affairs
Timothy Carey will be attending Drexel University majoring in Computer Engineering



