



*Cumberland County
Conservation District*



*2016
Annual Report*

CUMBERLAND COUNTY COMMISSIONERS



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

Front Cover: Yellow Breeches Creek in Boiling Springs.

Cumberland County Conservation District Staff



Back Row: Michael Lubinsky, Brady Seeley, Vince McCollum, Matt Stough, Carl Goshorn

Front Row: Jared McIntyre, Lori Glace, Kim Falvey, Kelly Perez

Board of Directors



Duff George, Dan Mains, Wilbur Wolf, Chairman, Glenn Kimmel, Mike Berkheimer, Dennis Garman

Not Pictured: Commissioner Jim Hertzler

CUMBERLAND COUNTY CONSERVATION DISTRICT

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2016 CONSERVATION AWARDS

The Cumberland County Conservation District recently presented Conservation Awards to those who have demonstrated exceptional stewardship practices to improve and preserve natural resources in Cumberland County. The categories for this year's awards are Farmer of the Year; Clean Water; and Conservation Educator of the Year. Award recipients for 2016 are:



FARMER OF THE YEAR AWARD:

Presented to BARRICK'S DAIRY, LLC for implementing various practices over the years to improve conservation through manure storages, concrete heavy use areas, manifold with vegetative treatment areas, and more in the works. They are currently working with the District to develop an Act 38 Nutrient Management Plan as a volunteer. Barrick's Dairy also works with a crop consultant who develops plans for fertilizer, nutrients, and pesticides/herbicides when applied to their cropland.

CLEAN WATER AWARD: Presented to JUSTIN DOTY of Frederick, Seibert & Associates. Justin and his staff have consistently submitted good quality and complete National Pollutant Discharge Elimination System (NPDES) permit applications, erosion control and post construction stormwater plans. They incorporate best management practices into their plans which more than adequately protect the site from erosion and promote the infiltration of stormwater.

CONSERVATION EDUCATOR OF THE YEAR: Presented to KEVIN SPICER and BRUCE ROWLAND, both science teachers at Carlisle High School who partner to prepare students for the annual Envirothon. They also incorporate many additional experiences for the students to learn and prepare for competition in the annual event. They are truly dedicated to the students and strive to guide them to be environmentally responsible adults. They each have participated in the Envirothon for over 20 years and have been teaching for 30 years. In 2015, one of their teams won the Cumberland County Envirothon and went on to compete at the Pennsylvania Envirothon at the University of Pittsburgh, Johnstown Campus.

EROSION AND SEDIMENTATION CONTROL PROGRAM



The priority of the erosion and sedimentation pollution control program is the protection of water resources from the impacts of accelerated erosion and sedimentation that results during an earthmoving activity. The District has been given the authority to administer the erosion and sedimentation control and the National Pollutant Discharge Elimination System (NPDES) programs by the Department of Environmental Protection (DEP).

Program technicians continue to conduct plan reviews, site inspections, complaint investigations, workshops and process NPDES permits. The District maintains a Level III enforcement delegation with the DEP. The delegation requires that the District prepare, commence and execute enforcement actions in compliance with the Programs Compliance Assistance and Enforcement Manual. Since July 2013, the District continues to retain the post construction stormwater management (PCSM) delegation level. This allows the District to conduct technical reviews of the PCSM plans for Individual NPDES permits.

E&S PROGRAM ACCOMPLISHMENTS

E&S Plan Reviews	136
Project Acres	4,210
Disturbed Acres	1,500
Inspections	281
General NPDES Permits	61
Individual NPDES Permits	18
Complaints	18
Civil Actions	1
E&S Plan Review Fees	\$ 271,750
NPDES Permit Fees	\$ 45,500
DEP Disturbed Acre Fees	\$ 114,900

TOWNSHIPS WITH MOST PLANS

Silver Spring	21
Hampden	18
Upper Allen	13
South Middleton	12
Lower Allen	10

TYPES OF NPDES PROJECTS

Commercial/Industrial	42
Residential	44
Agricultural	3
Utility	21
Roadway/Bridges	7
School	8
Parks	6



A post construction stormwater subsurface infiltration facility which will be located under a parking lot in Lower Allen Township.



Weighted sediment filter tubes used in a swale at a new warehouse site in Silver Spring Township. Orange protection fence is used to protect infiltration areas.

CHESAPEAKE BAY PROGRAM

Conservation Planning

The Chesapeake Bay Program completed several projects in 2016. Conservation Planning was once again completed this past year. Conservation plans for 2 farms totaling 540 acres were written. These plans are important tools for farmers that address erosion and identify conservation practices that can be implemented on the farm.

Pre-Sidedress Soil Nitrogen Test (PSNT)

For the 16th year, 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 crop or identify extra nitrogen that is needed. This can help the farmer save money and increase crop yields. In addition to the added benefits to the farmer, this benefits the environment by using nitrogen fertilizers efficiently. In 2016, two interns from tested 21 participating farmers' fields totaling 2,429.5 acres of corn. Out of the 139 fields tested, 32 were given a recommendation of needing extra nitrogen to meet the crop's needs. This program will be offered again in 2017.



Soil samples collected for PSNT

Chesapeake Bay Special Project



The Conservation District helped to fund the construction of a roofed stack pad for a Cumberland County equine operation. The stack pad is 40' x 44' with 4' walls. This was cost shared using funds from the Conservation District Fund Allocation Program (CDFAP) that was presented to select Districts for low cost, high impact BMPs.

Roofed Stack Pad for Equine Manure

Chesapeake Bay Farm Inspections

The Cumberland County Conservation District, with the guidance of DEP, began the Chesapeake Bay Farm Inspections in 2016. These inspections are for farms that generate or spread manure and/or have tilled ground which includes no-till operations. The inspections are looking for farmers to have their Manure Management Plans and/or their Chapter 102 Agricultural Erosion and Sediment Control Plans, where applicable.

Education

The 6th Annual Corn Planter Clinic was held in 2016 at the Shippensburg Auction Center. There were over 140 participants including farmers, vendors, and various government agencies.



2016 Corn Planter Clinic

NUTRIENT MANAGEMENT PROGRAM

Nutrient Management

The Cumberland County Conservation District (CCCD) continued 2016 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 has written 3 plans for volunteer farms and reviewed 8 plans that were approved by our Board of Directors. 13 site inspections were performed of ACT 38 participating farms to ensure the practices outlined in each farm's plans were 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 2015. 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 1 workshop where 7 farmers were able to obtain a written plan at the end of the day and assisted or wrote an additional 14 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 2016 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



Rain Barrels



Rain Barrel construction preparation with help from Mr. Weaver's class at Cedar Cliff High School.

The Conservation District's rain barrel program has evolved since it started in 2003. When it started, the District along with local vo-ag classes would build 50 rain barrels to sell to the public, which were distributed on an afternoon at the school. Today, we still do our own project partnering with a local school, plus we assist numerous groups with rain barrel projects, put on DIY rain barrel workshops, give presentations to citizens, and assist municipalities with their MS4 permit requirements. Our efforts have placed over 1,200 rain barrels in Cumberland County. Even though one person installing a rain barrel may not noticeably improve the stormwater problems in their local watershed, the cumulative effect of over 1,200 rain barrels, which can hold up to 66,000 gallons of rain water, can be dramatic!

Grants Activities

The District was awarded a Section 319(h) Nonpoint Source Management Grant for Middle Spring Creek Watershed Implementation Phase II for design, permit, and construction of riparian buffers and stormwater controls in and around Shippensburg. This is part of on-going efforts to improve water quality on Middle Spring Creek and its tributaries.

The District is in its final phase for implementing its Growing Greener II grant to install its last rain garden at the Allen Road Service Center. This grant demonstrated stormwater best management practices (BMPs) to promote the benefits of stormwater BMP's.

This past year wrapped up our Growing Greener grant for tracking the locations of Japanese Knotweed. The Growing Greener Grant created a web-based GIS map document with the locations of Japanese Knotweed. Please continue to contact us with any new Japanese Knotweed locations. Japanese Knotweed can spread very rapidly and can completely take over riparian corridors. If you see this invasive plant, as you are traveling in the county, please contact the Conservation District so we can add site locations to our database. The web-based GIS map will be used as a tool for watershed associations and other groups to help eradicate the invasive plant.



Japanese Knot Weed

DIRT , GRAVEL & LOW VOLUME ROADS PROGRAM



LOW VOLUME ROADS



Beetem Hollow Road
Total Project Value: \$43,695.61

Beetem Hollow Road in Penn Township added additional cross pipes and replaced cross pipes along with 1200 feet of underground drainage to four spring seeps in the ditch line. Rhoda Boulevard in Monroe Township aligned a new drainage pipe with the existing drainage coming off of the mountain.

The Low Volume Roads program is open to all public roads that have less than 500 cars per day. This year we had two completed projects that worked on drainage alignment and culvert replacements. In 2016 there were 2 projects completed, which included projects on Beetem Hollow Road, Penn Township, and Rhoda Boulevard, Monroe Township. Gameland Road in Upper Mifflin Township is currently under contract.



Rhoda Boulevard
Total project value: \$6,660.21

DIRT & GRAVEL ROADS

The Dirt and Gravel Roads program is available for any public road that has a dirt, gravel, or stone surface. This year we had 3 projects completed: Bridgewater Road in Upper Mifflin Township and Old Town Road/Sheet Iron Roof Road in South Middleton Township, and Cold Springs Road in Dickinson Township, which is still under construction.



Old Town Road: Total Project Value \$25,640.60
Sheet Iron Roof Road (not pictured): Total Project Value: \$17,916.58



Bridgewater Road
Total Project Value \$67,838.23

Bridgewater Road in Upper Mifflin Township installed drainage features that included additional drainage and replaced cross pipes, a French Mattress underground drainage system, and Driving Surface Aggregate. Old Town Road and Sheet Iron Roof Road are in the final phase to their projects by having the crown reshaped and placing Driving Surface Aggregate on their surface.

TREE SEEDLING SALE

Total Gross Sales— \$25,975.352

Net Profit— \$6,724.50

TREE SALE TOTALS	
Blue Spruce	990
Serbian Spruce	1250
White Pine	1080
Concolor Fir	940
Sugar Maple	570
White Oak	600
Red Oak	580
Pear Pack	46
Apple Pack	62
Myrtle	78
Wildflower Mix	101 ounces
Hanging Shamrock	24
Everbearing Strawberry	78
Stargazer Lilies	28
Dutch Iris Mix	26
Tree Shelters	1735
Tree Stakes	1075



ANNUAL GOLF TOURNAMENT



The 14th Annual Cumberland County Conservation District Golf Tournament was held at Rich Valley Golf on Friday September 23rd 2016. 96 golfers came out to enjoy a round of golf and support a good cause. This year's winning team shot an impressive 19 under par 52 on that beautiful day. The District would like to thank everyone at Rich Valley Golf and Nolo's Restaurant that helped make the day a success. Also a special thank you to all of our sponsors! Their contributions allow us to continue our efforts in providing scholarships to Cumberland County students. This year's event brought in over \$3,000 for scholarships and to date the tournament has raised over \$23,000. And finally, thank you to all of the golfers that came out to enjoy the day with us. We hope to see you again on September 22, 2017!

GOLF TOURNAMENT "CONSERVATIONIST" HOLE SPONSORS



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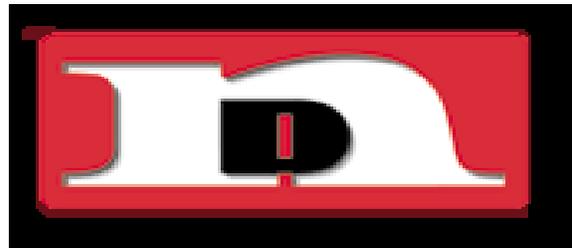
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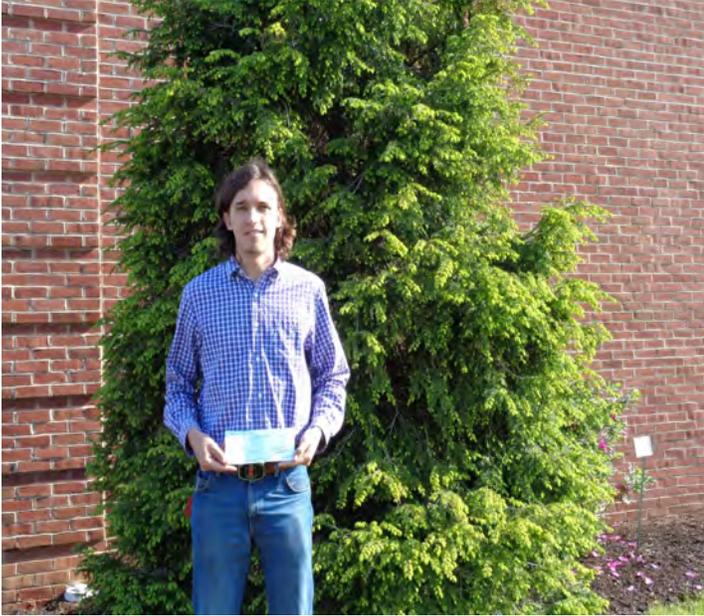
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THANK YOU!!!

SCHOLARSHIP WINNERS



Nathan Repetz—2016 winner of a \$500 College Scholarship made possible by proceeds of the golf tournament.



Calli Wise—2016 winner of a \$500 College Scholarship made possible by proceeds of the golf tournament.



Four \$250 Scholarships to students participating in the Envirothon were made possible by proceeds of the golf tournament! Congratulations to Jessica Chou, Rysa Thomas, Max Leo, and Hailey Martin.

CUMBERLAND COUNTY ENVIROTHON

Students from nine area high schools competed in the Annual Cumberland County Envirothon on Tuesday, May 3, at King's Gap Environmental Center. The Hellbenders from Cumberland Valley High School took first place with a score of 381; second place went to The Slimy Sculpins from Cumberland Valley High School with a score of 319; and third place went to The Swampers from Cumberland Valley with a score of 311. The Hellbenders represented Cumberland County at the 2016 Pennsylvania Envirothon at Susquehanna University, Selinsgrove, PA, on May 24 and 25, coming in 8th out of 65 teams. Special thanks to former County Commissioner Barbara Cross for the monetary contribution to the overall winning team!



2016 Envirothon Champions
The Hellbenders from Cumberland Valley High School



Above: Students competing at the Aquatics Station.

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, which was *Invasive Species*. 106 students participated this year and enjoyed misty views in the morning. 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, the Conservation District, and Natural Resources Conservation Service administered the tests.

Once the competition was over, the students enjoyed a picnic lunch provided by the Conservation District. After lunch, the Conservation District and Barb Cross handed out awards. The awards, made from Pennsylvania hardwood, were given 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.

2017 CALENDAR OF EVENTS

CUMBERLAND COUNTY CONSERVATION DISTRICT

JANUARY:

2 Office Closed - New Year's Day
 11 Water Testing – District Office
 16 Office Closed - Martin Luther King Day Holiday
 24 Board Meeting/Cooperating Agency Luncheon
 @ District Office 9:00 AM
 24-25 PACD Conference - Ramada Inn, State College
 25 Manure Management Workshop

FEBRUARY:

8 Water Testing - District Office
 8-9 Dirt & Gravel/LVR Program Evaluation
 15 Dirt & Gravel/LVR QAB
 16 DEP Southcentral Regional Roundtable Meeting
 20 Office Closed - President's Day Holiday
 23 Manure Management Workshop

MARCH:

8 Water Testing – District Office
 23 E&S/NPDES Workshop for Contractors with Franklin
 & Fulton County Districts in Shippensburg
 25 Office Closed – Good Friday Holiday
 28 Board Meeting - District Office - 7:30 PM
 28 Manure Management Workshop
 31 Deadline for Tree Sale Orders

APRIL:

12 Water Testing – District Office
 14 Office Closed - Friday before Easter Holiday
 20 Tree Seedling Bundling - Allen Road
 20-21 Tree Seedling Distribution - Allen Road
 25 Board Meeting – District Office - Conference Call 7:30 AM

MAY:

2 County Envirothon – Mechanicsburg Sportsman Assoc.
 10 Water Testing – District Office
 23 & 24 PA State Envirothon – University of Pittsburgh -
 Johnstown Campus
 23 Board Meeting – District Office 7:30 PM
 29 Office Closed - Memorial Day Holiday

JUNE:

6-7 District Manager's Summit - Ramada Inn, State College
 14 Water Testing - District Office
 27 Board Meeting - District Office - Conference Call 7:30 AM

JULY:

4 Independence Day Holiday – Office Closed
 12 Water Testing – District Office
 25 Board Meeting – District Office 7:30 PM
 TBD PACD State Wide Conference – Ramada Inn, State College

AUGUST:

9 Water Testing – District Office
 22 Board Meeting/District Picnic – 6:00 PM Location TBD

SEPTEMBER:

4 Office Closed - Labor Day Holiday
 13 Water Testing – District Office
 22 Annual Conservation District Golf Tournament
 @ Rich Valley Golf Course
 26 Board Meeting – District Office 7:30 PM

OCTOBER:

11 Water Testing – District Office
 24 Board Meeting – District Office 7:30 PM

NOVEMBER:

8 Water Testing – District Office
 10 Office Closed - Veteran's Day Holiday
 23 Office Closed - Thanksgiving Day Holiday
 24 Office Closed - Day after Thanksgiving Holiday

DECEMBER:

12 Board Meeting – District Office 8:00 AM
 13 No-Till Corn Planter Clinic
 13 Water Testing – District Office
 25 Office Closed - Christmas Eve Holiday
 26 Office Closed - Day After Christmas Day Holiday

