



PACD

PENNSYLVANIA ASSOCIATION OF
CONSERVATION DISTRICTS, INC.

Highlights of Conservation District Activities 2018

Presented by PACD

Conserving Natural Resources for Our Future

Adams County Conservation District

2018 Feature Accomplishment

14th Annual Soil Health Meeting

Resource Challenge

Pennsylvania's Phase 3 Watershed Implementation Plan continues to challenge farmers to implement more best management practices (BMPs) to meet state allocated nutrient reductions.

Project Summary and Results

For the 14th year in a row, ACCD staff have coordinated the annual soil health meeting bringing together 100+ Adams County farmers interested in improving their soil health and better manage nutrients. Through guest speakers and peer-to-peer organized discussions, this meeting helps farmers understand the successes and challenges with nutrient reducing practices such as no-till and cover crops to ultimately make the practices more economically feasible and accepted. The latest survey in Adams County estimated: no-tilling or conservation tilling 81%; cover cropping 35%.

Key Project Partners

Natural Resource Conservation Service, PA No-Till Alliance, local farmers, local Ag business sponsors



Other Accomplishments



- Ag BMPs installed: 8 sediment basins, 19,989 ft of subsurface drainage, 18 waterways (10 acres), 1495 ft of diversions, and 881 ft of terraces
- Performed 250 E&S inspections with 99% compliance
- Renovated a cooperative trout nursery with Act 13 funds
- Installed 3 acres of riparian buffers and contracted 14.8 acres
- Dirt, Gravel, and Low Volume Roads completed 5 sites: 4 stream culvert replacements, 2040 ft of improved roadside ditches, 1529 ft of underdrains, 760 ft of improved road surface
- Mosquito-borne Disease Program sites treated: 314+

Grant Money Brought to the County from Conservation

District Efforts:

\$1,347,924

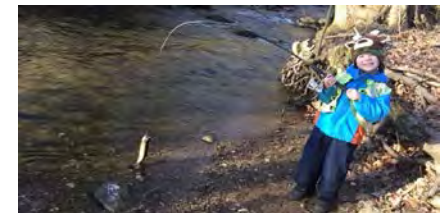


Contact Information

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More Work to Do

- Assist landowners with installing forest riparian buffers
- Assist agricultural operations with installing agricultural BMPs and complying with state regulations
- Assist local MS4 municipalities with installing urban BMPs
- Assist local land developers comply with state soil erosion regulations
- Assist municipalities with installing stormwater BMPs along local roads

Allegheny County Conservation District

2018 Feature Accomplishment

Soil Screening

Resource Challenge

Balance land use and natural resource challenges in urban communities to create fundamental ecological improvements.

Project Summary and Results

Soil and Lead Work

We performed (to date) 1,694 free individual soil lead tests for residents, communities, and non-profits in Allegheny County in 2018 alone. This represents a savings of \$45,738.00 (using Penn State Ag Analysis lab pricing) for these people and groups. This cost does not include the hours upon hours of fieldwork, sample collecting, processing, testing and reporting. The reach of this process includes the City of Pittsburgh and 13 additional municipalities.

Key Project Partners

Pittsburgh City Planning, Operation Better Block, Homewood Children's Village, Sankofa Village Projects, Grow Pittsburgh, Phipps Conservatory and Botanical Gardens, Larimer Consensus Group, the Hilltop Alliance, Grounded Strategies, Deco Resources, Manchester Growing Together, Tri-Cog Land Bank, Pittsburgh Urban Charter School, Carnegie Mellon University, University of Pittsburgh, Chatham University, UPMC Children's Hospital, Millvale Community Garden, SciTek Consultants, FIT Farms, Pittsburgh CitiParks, and the Beltzhoover Men's group

Other Accomplishments

- 102 workshops – Contractors workshop, Trumbull Corp. training, Builders Association Metropolitan Pittsburgh
- Chartiers Watershed celebration
- DCNR grant tree planting Robinson Run, Montour Run 1000+
- Urban Ag model ordinance
- Pollinator habitat installations
- Awarded \$100,000 CLIP grants
- Increased AWA membership

Grant Money Brought to the County From Conservation District Efforts:

Managing \$1,562,191
Funds received \$91,060

Contact Information

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Executive Director

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Board Chairman

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More Work to Do

- Increase inspections on NPDES permitted sites.
- Continue tree planting in riparian areas
- Integrate regulatory and program activity
- Identify projects for urban and water quality improvements and secure funding.
- Develop municipal and legislative engagement strategy.



Armstrong Conservation District

2018 Feature Accomplishment

Baker-Roaring Run Ag BMP

Growing Greener Grant: \$78,555 Total Project Cost: \$153,646.38

Other Accomplishments

- Boarts Ag BMP - \$60K
- Stubrick Ag BMP - \$35K
- Campbell Run Ag BMP - \$50K
- Huling Run AMD Treatment - \$151K
- Darmac #14 AMD Treatment - \$166K
- Silver Rock-Phase I AMD Treatment - \$157K
- AVLT/ACD NPS – Phase III - \$904K
- Garretts Run Ag AMP - \$50K
- DGLVR Projects - \$817K

Totaling: \$2,360,000

Funding brought to Armstrong County through Conservation District efforts:
\$3,498,555

Resource Challenge

The goal of the project was to install agricultural BMPs on the Ron Baker Farm to reduce the sediment and nutrient runoff to Rattling Run (Roaring Run Watershed).

Project Summary and Results

BMP's Installed:

- Heavy Use Area Protection (1408 SF), Waste Storage Facility(780 SF), Roofs & Covers (2240 SF), 1 Roof Runoff Management, Underground Outlet (112 LF), .1 acre Critical Area Planting/Mulching, 1 Water Control Structure, Fence (374'), Livestock Pipeline (613 LF), 2 Watering Facilities, Animal Trail & Walkways (828 SF), 1 Pumping Plant, 1 Spring Development, Access Road (155 LF'), Stream Access 1 & 2 (139 LF), 1.1 acre Riparian Buffer, Subsurface Drainage (71.5 SF), 1 Water Control Structure, Rock Lined Channel (192 SF), and Streambank Fencing (1,313 LF).

- Development/update of 1 NRCS Conservation Plan and 1 Act 38 Nutrient Management Plan.

Key Project Partners

- Landowner: Ron Baker
- Support: PACD Engineering Program (TAG), Kittanning NRCS, Clarion NRCS Technical Office



Left:
Before
Right: After



Most of these sites will be featured on our GeoTrail (ArmCoConservation) at Geocaching.com

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More Work to Do

- Parks Twp. Sportsmen's Club - \$425K
- Pine Run Stream Restoration - \$50K
- MED Expansion and Phase II - \$105K
- Silver Rock AMD Treatment Phase II - \$355K
- Kimmel Landowner Reclamation - \$125K

Totaling: \$1,060,000



Beaver County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- ❖ Over 1200 students attended classes at the BCCD Environmental Center free of charge.
- ❖ Streambank stabilization project completed on Traverse Creek
- ❖ Workshops held in 2018:
 - Rain Barrel Workshop
 - Pond Workshop
 - Stormwater BMP Workshop
 - “Weathering the Storm” Workshop for Educators
 - Ag E&S/Manure Management
 - Manure Management Plan Writing
 - Healthy Forests and Landowners
 - Manure Haulers/Brokers Regulations
 - Equine Environmental Education
 - E&S Regulations

Grant Money Brought to the County From Conservation District Efforts: \$399,736.15



Resource Challenge To address stream pollution caused by runoff and sediment from the county's comprehensive network of unpaved and low volume public roads.

Project Summary and Results The Dirt and Gravel Road Maintenance Program is based on the principle that informed and empowered local control is the most effective way to stop pollution from dirt and gravel roads. It stresses site-specific, long-term solutions to prevent erosion and pollution. Funds are distributed by the State Conservation Commission (SCC) to the conservation district. The district accepts applications for funding from potential applicants, and award grants to municipalities. The district is responsible for working with grant applicants to develop projects, project oversight, financial tracking and reporting, and general administration of the Program at the county level. Townships are required to attend an Environmentally Sensitive Maintenance (ESM) Course in order to be eligible for Dirt and Gravel Road Program Funding.

BCCD worked with several municipalities to naturalize watershed dynamics using cross pipes and by replacing stream crossings. Sedimentation to waterways was reduced with limestone DSA placement.

Key Project Partners

PA State Conservation Commission
Center for Dirt and Gravel Road Studies
Darlington Township
Darlington Borough
Greene Township

Contact Information

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District Manager

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Board Chairman

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www.beavercountyconservationdistrict.org



More Work to Do

- BCCD Land Management Plan
- Promote Forest Health
- Farm Conservation Projects



Bedford County Conservation District

2018 Feature Accomplishment

Potter Creek Habitat Improvement

Resource Challenge

Potter Creek, a Class A Wild Trout tributary to Yellow Creek, is impaired by siltation from agricultural sources. Trout Unlimited chapters and the Conservation District have identified stream bank erosion sites on stream reaches not used for pasture or crop fields and small habitat-focused improvements are planned to reduce bank erosion and sedimentation.

Project Summary and Results

Trout Unlimited's work on Potter Creek dates back into the early 1990's. In recent years, small projects on the property of one landowner have been the focus of work. In 2016 and 2017, projects were installed, but the 2018 work was postponed due to rain, rain, and more rain.



Key Project Partners:

- Mountain Laurel Trout Unlimited
- Fort Bedford Trout Unlimited
- Yellow Creek Coalition
- Bedford County Conservation District
- Landowner

Other Accomplishments



- Bedford County Conservation District maintains a drop-off recycling center where electronics, paper, metal cans, used motor oil and more can be recycled



- Bedford County Conservation District promotes no-till agriculture and maintains no-till corn planters and drills for rental use

Grant Money Brought to the County From Conservation District Efforts:
\$1.45 million



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[www. bedfordcountyconservation.com](http://www.bedfordcountyconservation.com)

More Work to Do

- Work with landowners on Snyder Creek (a Potter Creek tributary) to reduce erosion and siltation
- Continue habitat-focused projects that stabilize stream banks and channels
- Continue to promote riparian buffer plantings within the farming community, especially the Plain community
- Highlight successes on Potter Creek to encourage adoption of practices on other Yellow Creek tributaries as well as main stem



Berks County Conservation District

Other Accomplishments

- Trout in the Classroom (TIC)



BCCD has set aside funding for schools to conduct TIC. 16 of 19 schools in Berks now have Trout in the Classroom!!

- Fall Tire Collection – over 50,000 lbs. of tires
- Don Hartman Conservation Leadership School

Grant Money Brought to the County From Conservation District Efforts:

Over **\$1 Million** in Growing Greener and Dirt Gravel Low Volume Road funding.



2018 Feature Accomplishment

Spotted Lantern Fly Control Program

Resource Challenge

Spotted Lantern Fly (SLF) was first detected in Berks count in 2014. SLF has spread to the 13 Southeast counties in PA. SLF has potential to affect agricultural commodities in Berks and surrounding counties.

Project Summary and Results

The Berks County Conservation District has received a grant from PA Dept. of Agriculture and State Conservation Commission for \$150,000 to begin control work on Tree of Heaven and SLF for residential landowners. BCCD has also received \$20,000 from Berks County to help in control efforts. BCCD staff will begin reviewing applications and conducting site inspections to determine if the property qualifies for the funding assistance.

Key Project Partners

PA Department of Agriculture
State Conservation Commission
Penn State Extension
County of Berks

Contact Information

Dean Druckenmiller
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Piper Sherburne
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More Work to Do

- Spotted Lantern Fly Education and Outreach
- Riparian Buffer installation and coordination
- Water Quality Monitoring in Maiden Creek Watershed
- Zartman Farm Stream Restoration
- Install BMPS using almost \$600,00 in Growing Greener Grants for two farms in the Chesapeake Bay Watershed

Blair County Conservation District

2018 Feature Accomplishment



Resource Opportunity

The Conservation District purchased a 15 acre tract of land in Hollidaysburg Borough in 2012 with the intent to develop Blair County's first Environmental Specific Recreation and Education area and potential Conservation District Office.

Project Summary and Results

NatureWorksPark was completed at the end of 2018!

Our ADA accessible park includes: a quarter mile series of Trails and Walkways; a boardwalk over Constructed Wetlands, 2 Pavilions; an Amphitheatre with seating created from exiting stone boulders from the site; Raised Beds and opportunities for Traditional and Urban Agricultural Practice Demonstration; Pollinator Garden and Interpretive Signage has been completed.

Donations of funds and services by local civic organizations helped to purchase picnic tables, plant trees and purchase an all-terrain wheelchair.

Like us on Facebook or visit natureworkspark.org

Key Project Partners

PA DCNR, Keystone Recreation, Park and Conservation Fund; Keller Engineers, Inc.; Rotary Club of Altoona; Rotary Club of Altoona Sunrise; AMBUCS of Blair County.

Other Accomplishments

- Provide administrative support to Blair County's Conservation Easement Purchase Program. To date, 51 farms and over 7,600 acres are preserved.
- Secured a PA Council on the Arts in partnership with the PA Rural Arts Alliance Grant for a "Paint to Drip" public rain barrel painting workshop utilizing a local artist at NatureWorksPark.
- Hosted Second Annual Farm2Fork Dinner promoting local foods in conjunction with the Huntingdon Conservation District.

Grant Money Brought to the County From Conservation District Efforts:

\$830,000



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More Work to Do

- Plant 5 Multi-Functional Riparian Buffer Demonstration Areas at NatureWorksPark.
- Continue to Promote Urban Ag Initiatives to create knowledge and markets for local food production, distribution and enjoyment.
- Continue to serve Blair County MS4 Municipalities by hosting the Stormwater Coordinator Position and begin implementation of the "Lakemont Park Green Infrastructure & Urban Runoff Management" project as funded by the National Fish and Wildlife Foundation.

Bradford County Conservation District

2018 Feature Accomplishment

High-Boy Cover Crop Inter-seeding into Mature Crops

Resource Challenge

Keeping soil covered in areas with a shorter growing season

Project Summary and Results

- *Equipment acquired by BCCD and hired by landowner for \$15/acre plus seed cost*
- *1,630 acres planted (800 ac in NY; 830 ac in PA)*
- *Cover crop growth being monitored to develop recommendations*
- *Assistance ongoing 2019 and 2020*



Key Project Partners

- *Agricultural Producers*
- *National Fish and Wildlife Foundation*
- *Upper Susquehanna Coalition*
- *PA and NY county conservation districts*

Other Accomplishments

- Woodchip Bioreactor filter socks to treat agricultural runoff in roadside ditches
- Innovative Wood Chip Surface Heavy Use Area Protection for cattle winter feeding
- Continued Partnership (RCPP) in implementing conservation work in Wysox Creek watershed

Grant Money Brought to the County From Conservation District Efforts: \$1,927,661



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More Work to Do

- Flood Resiliency
- Watershed Restoration
- Farm Conservation Planning
- Conservation Practice Design
- Conservation Education

Bucks County Conservation District

2018 Feature Accomplishment

BCCD Regional Agricultural Watershed Assessment Program Initiative (RAWAPI)

Last Chance Ranch (LCR) Conservation Project

Resource Challenge

Rescue equine operation with poorly drained soils, seasonal high water tables, and a lot of mud and manure. LCR has 30 horses on 34.6 acres.

Project Summary and Results

Manure-related best management practices (BMPs) implemented include a roofed stack pad for manure, 6 stone heavy use areas covering over 0.5 ac, and a pumping plant/ sprinkler system/ vegetated treatment area to manage runoff from one heavy use area. Clean stormwater was routed throughout the property by installing a grassed waterway, a diversion, 3 stone-lined outlets, 2 drop inlets and over 1,000 feet of underground pipe. An animal trail and access lane were also installed in high traffic areas that were causing erosion. Over 1,000 ft of fence was installed to protect stormwater structures and pastures. Over the life of the RAWAPI grant, \$230,000 was spent on conservation improvements at LCR.

Key Project Partners: PACD engineering assistance, Last Chance Ranch



Before – Open Manure Pile



After – Covered Manure Stockpile

Other Accomplishments

- **SARE grant** - Awarded grant to study effects of manure stacking on groundwater. Completed all soil and water data collection for the study.
- **RAWAPI**- 7 agricultural BMPs installed on a fruit farm to treat gully erosion.
- **DGLVR Program** – LVR - Completed Conspan pre-fab bridge project in Richland Township, and awarded \$290,086.40 in Low Volume Roads project funds. DG - \$139,043.84 in Dirt & Gravel Roads project funds to municipalities county-wide.
- **Lake Luxembourg Wetland BMP Project** – Obtained County commitment of \$1M for construction costs, which upon completion will bring Lake Luxembourg into compliance with its TMDLs.
- **10th Annual Lake Towhee Paddle with a Purpose** – over 72 volunteers participated in 3-day event to remove invasive water chestnut plants.

Grant Money Brought to the County From Conservation District Efforts:

\$440,887.00



Contact Information

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Jeffrey Garton
Board Chairman

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(215)-345-7577
www.bucksccd.org

More Work to Do

- SARE- Complete data analysis of groundwater study and create educational materials showcasing key findings.
- Complete all 2018 Dirt & Gravel funded jobs using Driving Surface Aggregate (DSA)
- Secure permits and remaining \$1.5M funding to complete 17-acre Lake Luxembourg Wetland BMP Project

Butler County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Added an Agricultural Conservation Technician to our staff
- Completed 2 Low Volume Roads projects and 2 Dirt and Gravel Roads Projects
- Worked with watershed organizations to improve streams in Butler County

Grant Money Brought to the County From Conservation District Efforts:

Growing Greener
PACD Mini Grant
Envirothon Mini Grant

Bill Morris Road

Resource Challenge

Sedimentation to an Exceptional Value Stream

Project Summary and Results

Bill Morris Road was identified by Washington Township as being severely entrenched causing road runoff to travel over 2000 feet down a steep hill. The runoff discharged to Silver Creek.

Using Dirt and Gravel Roads funding, the township was able to place a large amount of fill (over 5 feet deep in some places) to remove a large section of the roadway that was entrenched. Road side ditches were improved and additional cross pipes were added.

Key Project Partners

Washington Township
Center for Dirt and Gravel Roads Studies

Contact Information

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District Manager

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Board Chairman

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More Work to Do

- Improve outreach and training
- Increase field presence
- Work with neighboring districts to promote consistency within program implementation.



Cambria County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Northern Cambria and Cherry Flood Control Streambank Stabilization Phase II projects completed
- 3 Dirt & Gravel Road Projects totaling \$98,893
- 1 Low Volume Road Project totaling \$124,556
- District No-Till Drills utilized for 600 acres of planting
- 32 Environmental Education Programs Conducted reaching 1,120 students
- 50 Chesapeake Bay Ag Compliance inspections
- Awarded \$592,407 for a manure storage and riparian buffer project

Grant Money Brought to the County From Conservation District Efforts: \$855,052



COMMON SENSE APPROACH TO STREAMSIDE REMOVAL OF SMALL WASTE COAL REFUSE PILES

Resource Challenge

*Non-Point Source AMD Pollution from Coal Refuse
Prohibitive Permitting Costs for Removal of Small Piles*

Project Summary and Results

*Solution was to approach the challenge from a
streambank stabilization/enhancement angle
District could issue Chapter 105 general permits for this
purpose*

*DEP could issue a mining permit waiver to remove the
coal refuse encountered incidentally as part of the
streambank stabilization/enhancement project*

Two piles totaling 100,838 tons of coal refuse removed

No government grant funds utilized

Key Project Partners

*Robindale Energy
Ridge Energy
Minetech Engineers Inc.
Private Landowners
Department of Environmental Protection
Cambria County Conservation District*

Contact Information

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District Manager

Dennis Beck
Board Chairman

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www.cambriacountypa.gov

More Work to Do

- Submitted 7 Growing Greener Grant Applications totaling \$1,191,276 for additional streambank and shoreline stabilization projects.
- 4 Dirt & Gravel Road Projects totaling \$138,078 under contract
- 3 Low Volume Road Projects totaling \$137,029 under contract

Cameron County Conservation District

Other Accomplishments

- Sterling Run Restoration: Assessment and remediation of AMD in the Sterling Run drainage. To date 4 passive treatment systems have been completed in Finley Run, Portable Run, and May Hollow. Funding is in place for 3 more systems to be built over the next year. Trout have returned to reaches of that watershed that haven't seen aquatic life in over 50 years
- Over 80 streambank stabilization and fish habitat enhancement projects have been installed.
- Work closely with farmers to stay in compliance and install BMP's.
- Planting of riparian buffers to protect waterways
- Dozens of educational programs done for the schools of Cameron County each year.
- Dirt and Gravel Road Program

Grant Money Brought to the County From Conservation District Efforts:

\$820,988.00
2018

\$3,357,52900
Past 12 years



2018 Feature Accomplishment

Dark Hollow Pipe Replacement

Resource Challenge

Erosion and sedimentation of Dark Hollow and Upper Jerry Run both Class A Wild Trout Stream. In addition to sedimentation there was an aquatic organism passage barrier isolating the populations of trout.

Project Summary and Results

A 36" severely undersized culvert was removed and a 16' X 5' structural arch pipe was installed to allow a more natural movement of water and substrate to encourage migration of aquatic organisms.

Key Project Partners

*Center for Dirt and Gravel Roads
Gibson Twp.*



Contact Information

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More Work to Do

Continue efforts on streambank stabilization, fish habitat enhancement, and acid mine drainage remediation

Carbon County Conservation District

Other Accomplishments

- Hosted the 2018 Carbon Awareness Meeting.
- Conducted over 50 Erosion and Sedimentation Control Plan reviews.
- Conducted 14 NPDES permit reviews and over 350 site and complaint inspections.
- Approved 1 Dirt and Gravel Road contract and 1 Low Volume Paved Road contract for a total of \$93,000 awarded to local municipalities toward road projects.
- Hosted over 781 students at our week long Envirothon Programs at our Environmental Education Center
- Our EEC hosted a total of 7,800 participants over the course of 140 school/public programs in 2018
- 2018 Conservation Camp at Hickory Run State Park.

Key Project Partners for Walnut Drive Project:

Carbon Conservation District
Towamensing Township
Carbon Engineering, Inc.



2018 Feature Accomplishment Walnut Drive, Towamensing Township Dirt and Gravel Road Project



Before



After

Contact Information

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Board Chairman

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www.carbonconservation.org

More Work to Do

- Phase III of the Nesquehoning Creek Stream Bank Restoration Project.
- Continue to administer the Chapter 102, NPDES, and Dirt and Gravel/Low Volume Paved Road programs.
- Promote Agricultural programs for local farmers through our partnership with NRCS.
- 2019 Carbon Awareness Meeting
- Continue to offer school and public programs at our Environmental Education Center.
- 2019 Envirothon Week at the Environmental Education Center
- 2019 Conservation Camp at Hickory Run State Park.

Centre County Conservation District

Other Accomplishments

- Promoted and participated in the County, State and North American Envirothon programs.
- Provided conservation education programs to students, watershed groups and civic organizations.
- Provided grant funding to landowners to install best management conservation practices.
- Administered the PA Chesapeake Bay program.
- Administered the PA Erosion Control and NPDES permitting programs.
- Administered the PA Nutrient Management program.
- Administered the PA Dirt, Gravel and Low Volume Roads program.

Grant Money Brought to the County From Conservation District Efforts:

Grants from Growing Greener, PA Chesapeake Bay and Act 13 totaled over \$500,000.



2018 Feature Accomplishment

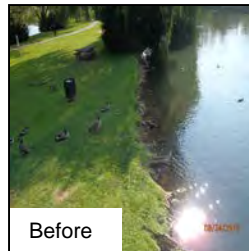
Streambank Stabilization Project Talleyrand Park, Bellefonte, PA

Resource Challenge

A significant stretch of streambank along Spring Creek was unstable, leading to erosion and resulting in a loss of land and sediment entering the waterway.

Project Summary and Results

The Bellefonte Borough and Centre County Conservation District secured \$46,000 in grant funding through PA DCNR's Community Conservation Partnership Program to restore 350 linear feet of streambank, thereby decreasing erosion and sediment deposition. The project also benefitted aquatic life, by creating overhead cover for fish and slowing down near-bank velocities.



Key Project Partners

Bellefonte Borough, USFWS Partners for Fish & Wildlife Program, Talleyrand Park Committee, USDA Natural Resources Conservation Service, PA DEP, and Terry Allen Excavating

Contact Information

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More Work to Do

- Assist farmers with technical and financial assistance to facilitate the implementation of best management conservation practices to improve water quality locally and ultimately the Chesapeake Bay.
- Continue our outreach and education efforts.
- Continue to work with farmers on Nutrient Management, Manure Management, and Agricultural Erosion Control plan development and implementation.
- Continue our watershed protection and restoration efforts.
- Continue to administer our PA-DEP delegated programs.

Chester County Conservation District

Other Accomplishments

- 8,400 feet of fence, 12.5 acres for riparian forest buffer, and 1.5 acres of riparian herbaceous cover using CREP
- 2,500 trees and shrubs planted on over 18.5 acres for Tree Vitalize
- Funding from a successful RCPP application for project implementation in the Chesapeake Bay watershed allowed us to hire an agricultural engineer.
- \$159,697 in contracts awarded for 5 projects in the Dirt and Gravel Low Volume Road Program.

Grant Money Awarded to Chester County From Conservation District Efforts:

\$4,010,434



2018 Feature Accomplishment Building Partnerships

Resource Challenge

In addition to routine challenges inherent in installing every BMP project, the biggest challenge is securing funding to pay for those projects and salaries of the staff to implement them.

Project Summary and Results

Due to the inconsistency of state and federal grants, CCCD sought nontraditional funding through affiliating with both governmental and private partners alike. Because of these partnerships we were able to accomplish the following:

Ag Team: 136 Ag BMPs implemented in 2018; in partnership with NRCS, \$413,000 in USDA funds were obligated in 2018 for EQIP that will result in future BMP installation. 109 farms were visited as part of the Chesapeake Bay Reboot - 65% had conservation plans and 70% had manure/ nutrient management plans; \$3.6 million was obtained as part of an RCPP grant focusing on BMP installation in the Chesapeake Bay watershed portion of Chester County. \$2.5 million of the funding is dedicated to BMP implementation; four manure management workshops were held in addition to two Ag E&S plan workshops; one boat trip was held, with 20 attendees, on the Chesapeake Bay for farmer and staff education.

Urban Team: 485 preconstruction meetings/engineer meetings; 333 completeness reviews; 163 new plan reviews; 117 revised plan reviews; 6,747 total project acres; 6,000 total disturbed acres; 60 general NPDES permits issued; 45 individual NPDES applications reviewed; 508 total site inspections; 67 complaints investigated; and 53 NPDES permits terminated.

Admin Team: 6 TeamAg, Inc./PennVEST projects administered totaling \$1,735,670 in Lancaster and Chester Counties.

Key Project Partners

USDA Natural Resources Conservation Service, PA Dept. of Environmental Protection, TeamAg, Inc./PennVEST, Stroud Water Research Center, Brandywine Red Clay Valley, Brandywine Conservancy, Mowery Environmental, National Fish & Wildlife Federation, PA Dept. of Community & Economic Development

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More Work to Do

- Oversee erosion and sedimentation & stormwater management inspections for Sunoco & Eastern Shore Natural Gas Pipeline projects and the PA Turnpike widening projects
- Continue to implement BMPs using RCPP funding for Delaware Bay watershed and begin contracting and implementing practices as part of the RCPP funding for the Chesapeake Bay.
- Year 3 of Chesapeake Bay Visits
- Provide administration for 6 additional PennVEST projects in conjunction with TeamAg, Inc.

Clarion County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- \$496,000 to townships for DGR/LVR road projects
- Jones Run lime-sand dosing to treat acid mine drainage
- Conservation Reserve Enhancement Program workshop
- Manure Management Manual plan writing workshops
- 52 Act 167 Stormwater plan reviews for Clarion County
- Earth Day event in Cook Forest State Park
- Regional Envirothon
- 37 E&S plans or NPDES permits issued for Clarion County

Grant Money Brought to the County From Conservation District Efforts: \$31,731



Heavenly Gaits Manure Storage Unit

Resource Challenge

The horse manure at Heavenly Gaits was being stacked along the road due to limited unused space and convenience. The runoff discharged into the road ditch of Sunset Lane and had potential to impact an unnamed tributary to Pine Run. The directors of Heavenly Gaits wanted to remedy that potential impact. Excess manure runoff increases levels of nitrogen and phosphorus in water bodies, impacting vegetation and aquatic organisms.

Project Summary and Results

Heavenly Gaits offers therapeutic horseback riding for children and adults with special needs through equine-assisted activities and therapies. Heavenly Gaits is also committed to improving the natural environment on their property and have implemented many conservation practices. They requested the assistance of the Clarion Conservation District (CCD) to resolve their manure storage challenges. CCD obtained the Northwest Greenways Block Grant to fund the construction of a roofed manure storage unit to resolve any excess nutrient runoff. With this grant, Heavenly Gaits was able to construct a 24' x 24' roofed manure storage unit. The storage facility is conveniently located next to the barn to make the daily stall clean out easier. The previous stacking area along Sunset Lane has been restored

Key Project Partners

NRCS

Contact Information

Trudy Alexander
District Manager

George Schmader
Board Chairman

214 S. 7th Ave., Room 106A
Clarion, PA 16214
(814) 297-7813
www.clarionconservation.com

Before and After



Clearfield County Conservation District

Other Accomplishments

- Sold 1775 seedlings, 138 fruit trees, & 133 blueberries and shrubs in 2018 Tree Sale
- Hosted 3rd Bounty from the County Dinner highlighting Clearfield County agricultural producers
- Held 14th Conservation Celebration providing free hands on, conservation minded activities
- Hosted 2nd Conservation Day Camp, a 3 day long day camp for 25 youth in grades 4, 5, & 6
- Held 3rd pruning workshop, 38 attendees
- Hosted Women's Intro to Fly Fishing in-class and on water courses for 32 women
- Held 2 Rain Barrel and Stormwater Education workshops, 35 attendees
- Hosted 2 Manure Management Workshops reaching 50 individuals
- Awarded \$391,361 to 8 municipalities through the Dirt, Gravel, & Low Volume Road Program
- Completed construction of Deer Creek AMD Passive Treatment System
- Administered Chapter 102 Delegation for Erosion and Sedimentation Plan review and inspection
- Added Chapter 105 Delegation for Water Obstruction and Encroachment permit review
- Awarded scholarships through the Claude Schickling Foundation and the W.G. "Turk" Jones Memorial Trust to Clearfield Co. students enrolled in an environmentally related college program

Grant Money Brought to the County From Conservation District Efforts:

\$350,500 in 2018
(\$741,861 including Dirt,
Gravel, & Low Volume
Road funds)



2018 Feature Accomplishment

MONTGOMERY RUN RIPARIAN PLANTING

Resource Challenge

Members of the Allegheny Mountain Chapter of TU discovered a portion of Montgomery Run, a tributary to Anderson Creek, in need of a riparian buffer. An abandoned jack dam caused a perched water table. Coupled with naturally acidic soil conditions this particular site was devoid of larger vegetation in the riparian zone. This left the stream completely exposed to the sun causing thermal problems impacting trout populations.

Project Summary and Results

Our District Watershed Specialist partnered with the Chapter to secure implementation funds from the Coldwater Heritage Partnership program to purchase trees and restore the buffer. Numerous Chapter volunteers, PSU DuBois Wildlife Technology Students, and DCNR foresters worked together to get 1100 trees planted onsite. The trees are still just 3-4' tall so it'll be a few years until we start to see improvements in stream temperature. One day this buffer will shade over a ½ mile of the stream preventing the stream temperature from rising, allowing trout to use this section of the stream throughout the year.

Key Project Partners

Clearfield County Conservation District
Allegheny Mountain Chapter of Trout Unlimited
DCNR
Penn State DuBois
PA Council of Trout Unlimited Coldwater Heritage Partnership

Contact Information

Susan Reed
District Manager

Michael Kennis
Board Chairman

6395 Clearfield Woodland Hwy., Ste. 2
Clearfield, PA 16830
(814) 765-2629
www.clfddccd.com

More Work to Do

- Continue securing grants for on-the-ground restoration projects in the county
- Work with local farmers on installing BMPs to improve water quality and soil health
- Continue to increase environmental education and outreach efforts
- Educate legislators and public about the role of Conservation Districts and resource conservation

Clinton County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Conservation Education activities: Envirothon, Sixth Grade Conservation Field Days, Project Learning Tree, Poster Contest, and Conservation Summer Camp for 4th—6th graders with hands-on environmental education activities
- Provided funding to landowners for development of manure management and Agricultural Erosion Control plans.
- Water quality and biological sampling in Tangascootack, with a new partnership with USGS to conduct a follow-up synoptic water testing project in Fishing Creek.
- Promoted No-Till Drill and cover crop use for 28 farms planting 366 acres, with our No-Till Drill and Inter-seeder.

Growing Greener Agricultural Best Management Practices in Fishing Creek Watershed

This project has included working with five landowners to improve water quality through installation of best management practices at their farms over the last 2 years. Prior BMPs included streambank stabilization, stream crossings, stream habitat improvements, barnyard improvements, and stream fencing.

In 2018, practices installed were 24,800 feet of fencing, 1,140 feet of water system for rotational grazing, 750 sq. ft. of roofed manure storage, roofed livestock area, and 6,550 sq. ft. of heavy use area was stabilized. Funding for these BMPs was coordinated with the PA Chesapeake Bay Special Project program. The Mill Hall USDA NRCS office provided design and construction oversight.

Dirt, Gravel & Low Volume Road Program

In 2018, our office provided assistance for 9 Municipal Dirt, Gravel & Low Volume Road projects completed with \$283,660 of funding. These road improvements were made on 22,592 feet of road, and include: 2 turnouts, 27 cross pipes, 1 through-the-bank pipe, 934 tons of road fill added, 450 feet of under drain, 19 sq. yds. of French mattress, 169 sq. yds. of geo stabilized bank, 150 feet of diversion swales, 4,917 tons of DSA, 155 sq. yd. of sealed surface, 23 sq. yd. of stormwater improvements, 692 sq. yd. of vegetative management, and 1 grade break.

Contact Information

Mary Ann Bower
District Manager

Charles Dotterer
Board Chairman

45 Cooperation Lane
Mill Hall, PA 17751
(570) 726-3798
www.clintoncountypa.com

More Work to Do

- Continue education activities and programs for school students and citizens.
- Abandoned Mine Drainage remediation and monitoring efforts in the Tangascootack Creek Watershed.
- Stream Habitat and Riparian Planting projects planned in Fishing Creek.
- Agricultural, Soil Health, and Nutrient Management awareness education outreach.
- Providing assistance to our local watershed associations in Sugar Valley, Beech Creek, and Kettle Creek.
- Assist municipalities with addressing sedimentation problems from local dirt and gravel and paved low volume roads.
- Provide technical assistance to local landowners on permitting, water quality, and erosion control issues.

Grant Money Brought to the County From Conservation District Efforts: \$424,024



Columbia County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Outreach and Education:
 1. Demonstrations
 2. Workshops
 3. Events / Presentations
 4. Field Days
 5. County Envirothons
 6. Nature camps
 7. School outreach visits
 8. Native Plant Sale
 9. Community hikes
- Soil Health Conference with nationally recognized key note
- Agriculture Conference
- Women in Ag Conference
- Grant projects for farm BMPs, cover crop reimbursements, eco-product workshops, and drug take-back incentives

Grant Money brought to the County from Conservation District efforts:

Over \$1,000,000.00

“GOOD WATER = GOOD LIFE”
WATER EDUCATION DAY

Resource Challenge

Reaching out to Columbia County 8th grade students to teach about the importance of good water quality that supports the state-required curriculum.

With the help of 60+ volunteers, district staff provide an educational event for approximately 500 eighth graders. Students visit six different stations to learn about water quality through not only science, but art, language arts, music and drama. Offering a variety of subjects and activities helps to reach a large group of students with varied interests and learning styles that Good Water = Good Life.

Project Summary and Results

This was our fourth annual event with a range of 500 to 550 students each year. Through this effort we have also reached out the community to demonstrate the importance of good, clean drinking water by doing “Drug Take-Back” events and distributing information brochures to hospitals, pharmacies and schools as well as signs at local parks near streams and rivers.

Contact Information

Nancy Corbin
District Manager

Donald Edwards
Board Chairman

702 Sawmill Road, Suite 204
Bloomsburg, PA 17815
(570) 784-1310
www.columbiaccd.org

More Work to Do

- Get BMP's on the ground
- Promote cover crops
- Promote water quality
- Work with watershed association members to promote healthy watersheds
- Work with source water coalition members to help protect our water supplies
- Continue program and environmental education and conservation outreach



Crawford County Conservation District

Other Accomplishments

- Completed delegated activities
- Hosted two manure management workshops
- Continued lake water quality monitoring program
- Continued 18th year of student riparian planting program; completing over 120 plantings
- Held over 45 educational programs
- Began implementing a stream stabilization project and several agricultural BMP's
- Completed draft Watershed Implementation Plan for Conneaut Lake
- Completed Draft Master Site Plan for the District office and the Woodcock Creek Nature Center

Grant Money Brought to the County From Conservation District Efforts: \$1,103,800.00



2018 Feature Accomplishment County Forest Clean -Up

Resource Challenge

Illegal dumping on county owned forest land

Project Summary and Results

In an effort to clean up and target illegal dumping on a 455 acre wooded parcel owned by Crawford County, the Conservation District together with several partners organized an intense two-year clean-up. In addition to the liter removal, a forest stewardship plan was developed and the property has been enrolled in the PA Game Commission's Cooperator Program.



Key Project Partners

Crawford County Conservation District, Crawford County Commissioners, PA Dept. of Conservation & Natural Resources, Crawford County Planning Commission, Pymatuning Lab of Ecology, Titusville High School, Crawford County Maintenance, PA Dept of Transportation, and PA Game Commission.

Contact Information

Tracey Crawford
District Manager

Robert Waddell
Board Chair

Woodcock Creek Nature Center
21742 German Road
Meadville, PA 16335
(814) 763-5269
www.crawfordconservation.com

More Work to Do

- Implement agricultural best management practices on local farms
- Create a Master Site Plan implementation strategy to improve the District's education center and office facilities
- Seek to preserve additional county farmland
- Increase the number of Agricultural Security Areas
- Work to educate the public about stormwater management

Cumberland County Conservation District

Other Accomplishments

- Monthly Water Testing Program
- DEP Chesapeake Bay Ag Inspections
 - 67 farms inspected, 7,446 acres
- Manure Management Plans – 16 plans
 - 9 plans written at Manure Management Workshops
- 31 Rain Barrels
- Envirothon: 112 students competed
- 42nd Annual Tree Seedling Sale
 - 7,000 seedlings distributed
- 16th Annual Golf Tournament
 - \$5,900 profit

Grant Money Brought to the County From Conservation District Efforts:

\$454,290

- Chesapeake Bay Special Projects: \$69,707 for Poultry Mortality Composter, Animal Heavy Use Area Protection, Proofed Waste Storage and PSNT Testing
- DGLVR Program: \$381,412 for BMPs
- Section 319 Grants: \$3,171 for stormwater improvements

2018 Feature Accomplishment

Cold Springs Dirt & Gravel Road Project Dickinson Township, Cumberland County

Resource Challenge

Failing cross pipes, sediment laden runoff from road rutting, road was down to bed rock, and wet ditches and spring seeps.

Project Summary and Results

Installed 43 shallow cross pipes—pipes raised to remove tail ditches and eliminates water from flowing down center of road

Installed 1,200 feet of underdrain

10,000 tons of shale to build crown

2,795 tons of DSA (future phase to include more DSA)



Above: Shallow Cross Pipe



Above: Driving Surface Aggregate

Key Project Partners

State Conservation Commission, Center for Dirt & Gravel Road Studies, Dickinson Township, Cumberland County Commissioners, McCorkel Construction Services Inc., and New Enterprise Stone & Lime Co., Inc.

Contact Information

Carl Goshorn
District Manager

Wilbur Wolf
Board Chairman

310 Allen Road, Suite 301
Carlisle, PA 17013
(717) 240-7812
www.cumberlandcd.com

More Work to Do

- 319 WIP Implementation for Middle Spring Creek in Shippensburg (\$59,741) remaining in grant
- Install Ag Best Management Practices with (\$105,170) Chesapeake Bay Special Projects Grant for Manure Storage and Heavy Use Area Protection
- Sunoco Mariner East II Water Quality Improvement Project grants to install Ag Best Management Practices (\$91,211) and cover crops (\$90,000)
- Growing Greener Plus Ag BMPs (\$289,812) Heavy Use Areas and Roofed Manure Storages on 2 farms



Dauphin County Conservation District

2018 Feature Accomplishment

Countywide Stream Assessment Program

Resource Challenge

Long term water quality data collection for all watersheds in Dauphin County

Project Summary and Results

The Dauphin County Conservation District's Water Resources Specialist completed the third round (15 years) of sampling for the Countywide Stream Assessment Program (CSAP). These data are obtained using the PADEP protocols to assure high quality data collection and resulting stream health scores. These data provide valuable information on the current status of the water quality in all of Dauphin County's Watersheds. This data is available on the DCCD website via an interactive web mapping tool. Public presentations of these data and a publication of the data will be happening in 2019. These data supplement water quality data collected by other agencies to give land use managers, local municipal officials, and planners the most comprehensive and useful information in targeting restoration and conservation efforts within Dauphin County

Dauphin County Water Quality Monitoring Sites



Contact Information

Eric Naguski
District Manager

David Coble
Board Chairman

1451 Peters Mountain Road
Dauphin, PA 17018
(717) 921-8100
www.dauphincd.org

Other Accomplishments

- Installation of new stormwater system, manure storage and other Ag BMPs on a farm in Mifflin Township
- Completion of two Low Volume Road Projects in Gratz and Penbrook Boroughs.
- Completion of a Dirt and Gravel Road Project in Halifax Twp.



Delaware County Conservation District

Other Accomplishments

- Served as Coordinator of Del. Co. MS-4 Permit
- Conservation Planting Trailer coordinated for R.C.& D.
- Spotted Lantern Fly information session – Co-sponsored.
- Two Mini-grants were completed and funded for \$1,000.00
- Master Watershed Specialist program coordinated with Penn State Ext.
- Assisted Delaware County Parks with tree planting, and pond issues
- Pennsylvania Pipeline Inspections (43) and responding to complaints

Grant Money Brought to the County From Conservation District Efforts: \$57,667.37



2018 Feature Accomplishment

Pennsylvania Pipeline / Mariner 2

Resource Challenge

Large Scale natural gas pipeline that crossed sensitive wetlands, waterways, and steep slopes. This was complicated by significant public objections due to safety concerns.

Project Summary and Results

A total of 43 inspections were conducted. Complaints and questions were frequent, in addition to several Freedom of Information Requests. We were able to work with the permittee to address complaints and violations discovered in a reasonable amount of time. It was by far the most time consuming projects for monitoring and compliance activities.



Key Project Partners

Delaware County Council, PA Fish & Boat Commission, USDA – Soil Conservation, PA Game Commission, PA DCNR Bureau of Forestry

Contact Information

Edward Magargee
District Manager

Cheryl Graff Tumola
Board Chairwoman

Rose Tree Park Hunt Club
1521 North Providence Road
Media, PA 19063
(610) 892-9484
www.delcocd.org

More Work to Do

Erosion and Sediment Pollution Control and Stormwater Management associated with new construction remains as our number one priority.

- Coordination of County MS-4 Permit Activities.
- Monitoring of Ag. easements
- Spotted Lanternfly Education
- Riparian Buffer planting and maintenance
- Environmental Education
- Manure Management Workshops
- Conservation planning for county parks.

Elk County Conservation District

Other Accomplishments

- Hosted Agriculture Farm Tour featuring a hops farm, brewery, and farm that utilizes spent brewery grains to feed cows.
- Completed 6 Dirt & Gravel Road Projects and 2 Low Volume Road Projects.
- Hosted a river cleanup event along the Clarion River.
- Staff participated in agriculture literacy week with local schools.
- Participated in the annual Elk Expo event at the Keystone Elk Country Visitors Center.
- Hosted annual trail race and clay shoot events.
- Hosted 2 manure management workshops for farmers.
- Hosted a Sustainable Forestry Intuitive (SFI) workshop.
- Hosted a Best Management Practices (BMP) workshop for contractors and consultants.
- Hosted a rain barrel workshop.
- All District staff became certified in Project Learning Tree.

Grant Money Brought to the County From Conservation District Efforts: \$36,400



2018 Feature Accomplishment

Elk Creek Coldwater Heritage Plan

Resource Challenge

Trout populations in the Elk Creek Watershed face considerable threats from land modifications. Agricultural and urban land use occupy 13.5% and 11.65% of the drainage area, respectively. Resource extraction presents additional threats to Elk Creek. DEP reports 8 abandoned coal mines within the Elk Creek watershed. Of the 8 mines reported, AMD was noted at six of the mines and found to have infiltrated groundwater at two mine sites. In addition to the abandoned mine sites, the Elk Creek Watershed contains 104 active conventional natural gas wells. Despite extensive watershed threats, water quality and habitat stressors specific to Elk Creek are understudied.

Project Summary and Results

Collect habitat, water quality, and macroinvertebrate data from Elk Creek and its tributaries from May – August. Identified problem areas throughout the watershed. Erosion was the most common stressor. Observed a lack of suitable fish habitat, acid mine drainage, and many culverts impeding fish passage. The District plans to utilize Coldwater Conservation Implementation grants to address these problems in the future

Key Project Partners

Western Pennsylvanian Conservancy
Pennsylvania Coldwater Heritage Partnership

Contact Information

Steve Putt
District Manager

Russ Braun
Board Chairman

850 Washington Street
St. Marys, PA 15857
(814) 776-5373

www.co.elk.us/conservationdistrict

More Work to Do

- Secure funding for habitat improvements along Elk Creek Watershed.
- Secure funding for natural stream design and bioengineering projects along the Elk Creek Watershed.
- Complete final design and permit the West Creek AMD remediation project.
- Secure funding for the construction of the West Creek AMD Passive Treatment Systems

Erie County Conservation District

Other Accomplishments

PA VinES (Vested in Environmental Sustainability)



- BMP installation on grape farms in the Lake Erie Watershed

Agricultural BMP Installation

- Nutrient and sediment reduction on livestock farms

Nature Center Creation

- Cooperative effort between PGC and ECCD. Wildlife mounts to go on display in Headwaters Nature Center



Memorial Tree Trail

- Creation of educational tree ID trail

Grant Money Brought to the County through our Efforts:

- Growing Greener - PACD Ag Grants
- Great Lakes Restoration Initiative
 - Erie County Gaming Revenue Authority
 - DGLVR - County of Erie
 - PA SeaGrant



2018 Feature Accomplishment

Creek Road Streambank Stabilization Project



Before



After

Resource Challenge

So many situations like Creek Road exist in the county, adding to the sediment / nutrient load in streams.

- A long term funding stream to continue these projects
- Keeping Growing Greener and other programs available in the future

Project Summary and Results

A unique Dirt and Gravel Roads project, saved Creek Road from the eroding banks of French Creek.

- 300 feet of streambank stabilized, eliminating future bank erosion.
- Eliminated road safety hazard for Venango Township residents.

Key Project Partners

- State Conservation Commission (SCC)
- Center for Dirt & Gravel Road Studies (CDGRS)
- Trout Unlimited (TU)
- Venango Township

Contact Information

Tom McClure
District Manager

John Hallenburg
Board Chairman

1927 Wager Road
Erie, PA 16509
(814) 825-6403

www.erieconservation.com



More Work to Do

PA VinES

More enrollment and construction projects

Headwaters Park Development

Commence work on a newly announced DCNR C2P2 grant for park and trail development (\$468K total project)

Push for Environmental Education

Further develop the Headwaters Nature Center for students of all ages

Fayette County Conservation District

Other Accomplishments

- Allocated \$90,000 into an AMD operation, maintenance & emergency fund to protect water quality through the county's AMD treatment systems
- Worked with the Jacobs Creek Watershed Association to host a Tot Time educational summer camp for kids aged 2-5. The camp will expand in 2019 to include kids aged 6-10 using a \$5,000 local grant.
- Using a growing greener grant, protected 1 mile of stream in the Downers Run Watershed, focusing on agricultural BMPs
- Utilizing funding from another growing greener grant, the district developed an on-lot sewage outreach program
- Through DEP funding, accomplished a Stony Fork Ag BMP project to reduce agricultural pollution in the Big Sandy Watershed
- Distributed over \$1.97 million to local municipalities for 20 dirt and gravel and low volume projects
- Provided over \$48,000 for emergency maintenance and repair of AMD remediation systems
- Held Children's Ag Fest for 4th grade classes and Envirothon competition for all county schools
- Maintained two 7-foot no-till drills available to county farms and purchased a three foot no-till drill to encourage sound agricultural practices

2018 Feature Accomplishment

Invasive Species Control

The Fayette County Conservation District is a founding member of the Southern Laurel Highlands Plant & Pest Management Partnership. This partnership works to control invasive species on more than 121,000 acres of land in the County including state and federal land. Over the past 11 years the Partnership has raised nearly \$154,000, recruited over 500 volunteers who have collectively volunteered 10,000 hours of service, and has treated more than 1,200 acres of land for 14 invasive species.

Contact Information

Doug Petro
District Manager

Donald Bowser
Board Chairman

10 Nickman Plaza
Lemont Furnace, P A 15456
(724) 438-4497
www.fayettecd.org



Forest County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- 3 Teams participated in local Envirothon, 1 team participated in State Envirothon
- Three Dirt & Gravel Projects completed
- One Low Volume Dirt & Gravel Project Completed
- Township Work Day

Grant Money Brought to the County From Conservation District Efforts:

\$334,234.72

Duhring Road Stream Crossing Project

Resource Challenge

A culvert replacement project over Straight Run, a stocked trout stream located in Jenks Township.

Project Summary and Results

This was a joint project for a total cost of \$82,363.56.

(before picture of Straight Run culvert)



Contact Information

Donna Lynn Zofcin
District Manager

Robert Summers
Board Chairman

526 Elm Street, Box 4
Tionesta, PA 16353
(814) 755-3450
www.co.forest.pa.us

Key Project Partners

- Jenks Township Supervisors
- Trout Unlimited
- Penn State Dirt & Gravel Roads Program
- Forest County Conservation District
- Allegheny National Forest



Franklin County Conservation District

Other Accomplishments

- Conservation Field Trip for 700 Chambersburg 1st graders
- Envirothon Program
- Fly Management Workshop
- 3 Manure Management Plan writing workshops for 40 plans
- 102 E&S workshop engineers
- Timber Harvest Workshop
- 3rd Annual Summer Conservation Farm Tour
- Reviewed and approved 26 NMPs and 3 crop year updates
- Completed 18 Ag E&S plans
- Issued 70 General NPDES permits
- Conducted Technical Assistance to 2,000+ individuals
- Conducted 250 site inspections
- 1 DGLVR Tour
- 2 DGR Projects/3 LVR Projects
- Completed EQIP project- 3 barn yards, 3 stack pads, 1 manure storage, 3 animal trails and 1 stream exclusion fencing
- Tree Seedling Sale
- Added additional Ag staff position

Grant Money Brought to the County From Conservation District Efforts: \$800,500



2018 Feature Accomplishment Watershed Program

Resource Challenge

About 2,200 feet of the West Branch Antietam Creek that flows through the Great Commission Deliverance Ministries church property in Waynesboro was experiencing severe stream bank erosion. Land was being lost and carried downstream during storm events. This is known as sediment loading, which can be detrimental to aquatic habitat conditions.

Project Summary and Results

In August, this stream reach was restored as a result of the installation of numerous log and stone structures along the banks. Additionally, seedlings will be planted by volunteers upon their arrival in the spring to expand the existing forested buffer. The Franklin County Conservation District (FCCD) received a subaward from The Nature Conservancy (TNC) to purchase the seedlings and tree shelters for this site. This funding originated from a U. S. Forest Service grant which was awarded to TNC. The FCCD was also awarded Section 319 grant funding for installing the stabilization and habitat devices. In addition to this grant, the FCCD had some existing mitigation money that was also utilized for this work. This project will provide many valuable water quality benefits such as filtering pollutants, soil stabilization, fish habitat, and shading the stream, which results in cooler water temperatures necessary for aquatic life to thrive.

Key Project Partners

Army Corps of Engineers, Chesapeake Bay Foundation, Natural Resources Conservation Service, PA Department of Conservation and Natural Resources, PA Department of Environmental Protection, & The Nature Conservancy.

Contact Information

David Stoner
District Manager

Evan Burkholder
Board Chairman

185 Franklin Farm Lane
Chambersburg, PA 17202
(717) 264-5499
www.franklinccd.org



More Work to Do

- Ches. Bay WIP3 plan development
- DGLVR Projects
- MM plan development for farmers
- Ag E&S plan development
- BMP implementation assistance

Fulton County Conservation District

Other Accomplishments

- Held 11th Annual Youth Ag Expo for all county 6th graders at Englert's Dairy Farm.
- Received \$685,000 in PennVest grant funds to implement agricultural Best Management Practices on a dairy farm within an ag-impaired tributary to Big Cove Creek.
- Signed contracts for six Dirt & Gravel Road projects and one Low Volume Road project with six municipalities for a total of nearly \$400,000 in rural road improvements. Projects range from a \$9,000 road fill and underdrain installation to an estimated \$180,000 culvert replacement.
- Assisted operators in planting 967 acres of cover crops through the District's No-Till Drill Rental Program.

Grant Money Brought to the County From Conservation District Efforts: \$1,085,000



2018 Feature Accomplishment: District Wraps Up Big Cove Creek Ag Conservation Implementation Project



Resource Challenge

For more than a decade, the Conservation District has been working determinedly to restore the agriculturally impaired reaches of the Big Cove Creek watershed. The District has made the area a priority watershed for local conservation efforts to improve water quality.

Project Summary and Results

In 2018, the District worked with three more operators along a 7-mile ag-impaired section of Big Cove Creek to implement a variety of agricultural Best Management Practices with \$730,000 in Growing Greener Grant funds received in 2015. These funds were combined with federal funds available through the USDA Farm Bill Programs and the local Natural Resources Conservation Service. The resulting improvements will greatly reduce the environmental impact of these farming operations influencing the quality of Big Cove Creek.

Key Project Partners

USDA Natural Resources Conservation Service (NRCS)

Contact Information

Seleen Shives
District Manager

Wayne MacDonald
Board Chairman

216 North Second Street, Suite 15
McConnellsburg, PA 17233
(717) 485-3547

www.fultoncountyconservation.org

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More Work to Do

- Implement Best Management Practices on two farms using \$248,000 in Chesapeake Bay Special Project funds to reduce sediment and nutrient inputs to Kendall Run.
- Utilize available Dirt Gravel and Low Volume Road Program funds to implement various projects in conjunction with local municipalities.
- Complete agricultural inspections on 75 farms and provide technical assistance to help operators achieve compliance with state environmental regulations.



Greene County Conservation District

Other Accomplishments

- First Place State Envirothon Team-Carmichaels Area Senior High School
- Contracted 20 Dirt and Gravel, Low Volume Road Projects for over \$835,000.00 and completed 8 projects paying out \$451,000.00
- Supplied over 50 rain barrels to County residents through and educational workshop

2018 Feature Accomplishment

Greene County's Reinvestment in Agriculture:
Cost-Share Enhancement Program

GRACE Program

Resource Challenge

The role of the GRACE Program is to provide new and existing farmers guidance through technical assistance and cost share to help promote soil and water conservation practices. If these practices are implemented correctly, this will add value and profit to the land. Funds utilized by the program are a direct result of PA Act 13 that the district receives annually to foster conservation efforts within Greene County.

Greene County Conservation District Board of Directors want to give back to Greene County farming community in hopes that these funds would ensure viable farm land for the future. We offer funds to cost-share lime, fertilizer, livestock water development, and livestock fencing and forestry practices.

Project Summary and Results

In 2018 the District was able to sign up 39 farms. The District managed to contract a total of \$164,000.00. The District is gearing up to take new signups in 2019 and will open the in January 2019, officially. Forestry practices have been added to the program.

Key Project Partners

USDA Natural Resource Conservation Service, DCNR Forestry, Farm Service Agency, Penn State Extension

Contact Information

Lisa Snider
District Manager

Bradley Eisiminger
Board Chairman

22 W. High St., Suite 204
Waynesburg, PA 15370
(724) 852-5278
www.co.greene.pa.us

More Work to Do

- Browns Creek Watershed Growing Greener Grant--In 2018 Agricultural best management practices and a project with Morris Township to stabilize the stream behind the community center was awarded to the District. District staff will be implementing these projects throughout 2019.



Huntingdon County Conservation District

2018 Accomplishments

- Reached 859 students and adults through workshops and Environmental Education programs
- Cleaned up 4.7 tons of trash and 160 tires from 5.2 miles of the Juniata River
- 34 Manure Management Plans written for farmers
- 9.4 acres of riparian buffer planted in the Juniata River watershed

Grant Money Brought to the County From Conservation District Efforts:

\$227,454.83

Growing Greener, Chesapeake Bay Special Projects, DCNR & Act 13 Funds (funds spent on local projects in 2018)

\$563,317.91

Dirt & Gravel, Low Volume Roads (funds spent on projects in 2018)



2018 Feature Accomplishment

Kenrock Road Drainage Improvement

Resource Challenge – Water was running over the road surface, causing rutting in the road and resulting in excess sediment in a nearby stream. This is a highly common occurrence on the County's dirt and gravel roads, resulting in increased maintenance costs for local townships.

Project Summary and Results – Installation of a new cross pipe allows water to be carried under the road and discharged to a stabilized ditch. Water is no longer eroding the road surface, so the road crews will not have to continually patch the road surface and the stream will not suffer an influx of excess sediment.



Key Project Partners

State Conservation Commission, The Center for Dirt and Gravel Roads & PA Game Commission

Contact Information

Celina Seftas
District Manager

Jeffrey Thomas
Board Chairman

10605 Raystown Road, Suite A
Huntingdon, PA 16652
(814) 627-1626
www.huntingdoncd.org

More Work to Do

- Continue work on existing grants:
- 2 Chesapeake Bay Special Project grants
 - Streambank fencing
 - Barnyard runoff control
 - Stream restoration
 - 2 DCNR Riparian Buffer grants (12 acres of trees to be planted)
 - 2 Growing Greener grants
 - Barnyard runoff control
 - Manure storage
 - Mariner East 2 Restoration grant
 - Grazing system, runoff controls, manure storage
 - Strategic planning with District Board and staff

Indiana County Conservation District

Other Accomplishments

- Awarded the PACD Clean Farm award to the Dave Pounds Farm
- Awarded 3 Sunoco Mariner II East Pipeline Grants \$580,000
- Hired a new Watershed Specialist and District Manager
- Completed agricultural projects in the South Branch Plum Creek and Goose Run watersheds
- Facilitated projects on DEP inspected farms via RAWAPI
- Distributed over \$440,000 in Dirt, Gravel, and Low Volume Road (DGLVR) funding
- Hosted the DGLVR Statewide Annual Maintenance Workshop
- Purchased an easement on the Streams Farm
- Assisted in developing the Indiana County Sustainable Economy Task Force

Grant Money Brought to the County From Conservation District Efforts: \$1,726,000



2018 Feature Accomplishment Low Volume Road Project Green Township, Mulberry Road

Resource Challenge

This culvert was severely undersized (~3FT wide) and in poor condition. It is on a tributary to a natural reproducing brook trout stream. It was the 2018 top-ranking Low Volume Road project.

Project Summary and Results

A bank full width culvert with a 15 FT span was installed with grade controls/fish habitat improvement structures to allow for flood resiliency and aquatic organism passage.



Key Project Partners

Green Township, Center for Dirt & Gravel Road, Trout Unlimited

Contact Information

Doug Beri, Jr.
District Manager

Jason McGinnis
Board Chairman

625 Kolter Drive, Suite 8
Indiana, PA 15701
(724) 471-4751
www.iccdpa.org

More Work to Do

- Construct new district office building and environmental education center
- Continue efforts in the South Branch Plum Creek watershed to install agricultural BMPs on farms adjacent to streams and stream habitat structures
- Implement the Sunoco ME2 grants
- Continue providing education and technical assistance to the community on non-point source pollution abatement

Jefferson County Conservation District

Other Accomplishments

- Conservation Planning
- Completed 11 DGLVR Projects
- Nutrient Management Planning
- Stormwater Management Planning
- High School Envirothon
- Water Quality Testing
- Conifer AMD Treatment System O&M
- E&S Plan Review and Approval
- Agricultural Newsletter

Grant Money Brought to the County From Conservation District Efforts:

- Growing Greener
- NACD Technical Assistance
- Redbank Watershed Trust
- DCED- Commonwealth Financing Authority
- PACD



2018 Feature Accomplishment

Big Run Flood Control Rehabilitation (Mahoning Creek)

Resource Challenge

The U.S. Army Corps of Engineers' (COE) identified significant deficiencies in the Flood Control Project located in Big Run, Pennsylvania. The Flood Control Project was not functioning as designed and posed an increased flooding threat.

Project Summary and Results

Through this project, the Jefferson County Conservation District (JCCD) began rehabilitating the Flood Control Project by addressing issues identified by the COE, including the removal of approximately 23,000 cu. yd. of sediment from the channel, allowing the project to perform as designed in order to provide increased protection of life and improved property.



Key Project Partners

Big Run Borough, Jefferson Conservation District,
DCED- Commonwealth Financing Authority

Contact Information

Shaun Wessell
District Manager

Todd Beers
Board Chairman

1514 Route 28
Brookville, PA 15825
(814) 849-7463
www.jeffersonconservation.com

More Work to Do

- Sugarcamp Run Aquaponics Facility
- Pine Run Watershed Agricultural Best Management Practices Implementation
- Big Run Flood Control Rehabilitation
- Kyle Lake Habitat Improvements
- Stormwater Technical Assistance
- Engineer Workshops
- Rattlesnake Creek Flood Reduction Study

Juniata County Conservation District

2018 Feature Accomplishment

LOST CREEK RESTORATION INITIATIVE



Resource Challenge:

To restore and extend the range of native brook trout populations while providing a watershed restoration site to serve as a public showcase for increasing community awareness about watershed enhancement opportunities.

Project Summary and Results:

Funding provided through National Fish and Wildlife Foundation (NFWF) has allowed for installation of the following:

- ❖ 2731 feet of mudsill, bank grading, bank bioengineering, and bank full bench
- ❖ 24 vanes
- ❖ 215 feet rock toe and toe logs
- ❖ 1 rain garden
- ❖ 70 streamside trees and shrubs

Continued funding from Growing Greener Plus will complete a mile of total stream restoration. In addition to improvement of fish habitat, the restoration project provides a platform to educate residents of the benefits of riparian buffers and watershed enhancement practices.

Key Project Partners:

Juniata College, The Nature Conservancy, US Fish and Wildlife Services, The Trust for Tomorrow, Penn State Agriculture and Environmental Center, PA Department of Conservation and Natural Resources, Juniata Watershed Alliance, and Lost Creek Golf Course

Other Accomplishments

- Installed a 200-tree buffer on 1.8 acres at Juniata Mennonite School through Keystone 10 Million Trees Partnership (2018)
- 500 trees distributed to Lost Creek watershed property owners (2018)
- 23 involved Juniata Watershed Alliance (JWA) members and volunteers (2018)
- 18,701 pounds of unwanted electronics collected (2018)
- 824 tires collected (2018)
- River cleanups covering four (4) miles of the Juniata River (2013-2017)
- 2 National Pollutant Discharge Elimination System (NPDES) permits administered (2018)
- 8 small Erosion and Sedimentation Plans approved (2018)
- 22 farms preserved totaling 2,906 acres (1999-2018)
- \$215,271 in Dirt and Gravel Road and Low Volume Road contracts (2018)
- First Juniata County Ag Tour for high school students (2018)

Grant Money Brought to the County From Conservation District Efforts: \$372,029



Contact Information

Chris Snyder
District Manager

Eric Brubaker
Board Chairman

146 Stoney Creek Drive. Suite 4
Mifflintown, PA 17059
(717) 436-8953, ext.5
www.juniataccd.org

More Work to Do

- Promotion of homeowner storm water management and watershed enhancements
- Increase district visibility through program promotion and technical assistance availability within both the agricultural and non-agricultural communities
- Refine and enhance Juniata County's recycling program



Lackawanna County Conservation District

Other Accomplishments

- Preserved Farmland on three additional operations totaling 222.63 acres
- 215 acres planted using no-till technology
- 109 plan reviews and over 170 inspections conducted under the Chapter 102 program
- Installation of fish enhancement structures and streambank stabilization practices on Leggett's Creek
- Conducted second annual Junior High Envirothon competition for students in Lackawanna and Susquehanna County
- Partnered with Wyoming Conservation District to conduct Senior High Envirothon competition for students in Lackawanna and Wyoming County
- Provided tree seedlings to over 100 county residents
- Purchased new bulk material spreader for use on county farms through the District's equipment rental program
- Continued the Environmental Education Program focused on Monarch Butterflies and their value as pollinators
- Five scholarships were awarded to high school seniors planning to major in an environmental or agricultural field
- Conducted Phase II of Lackawanna River Assessment
- Conducted Rain Barrel Workshop

**Grant Money Brought to the
County From Conservation
District Efforts:
\$871,624.51**



2018 Feature Accomplishment

Richard Tratthen Farm: Chesapeake Bay Program Special Project

Resource Challenge

Eliminate multiple brown areas and large ACA's on two different properties that occur as a result of pasturing ~60 beef cows year-round on unimproved surfaces. In addition, steep slopes on a majority of the property increase runoff potential of uncollected manure. This runoff enters a stocked trout stream via surface runoff, road ditches, and two small pasture pond outflows.

Project Summary and Projected Results

- Install exclusion fencing to eliminate access to pasture pond and create a grass buffer
- Install 9500 sq. ft. roofed heavy use area protection and manure storage facility
- Install associated practices including: roof runoff, underground outlets, diversion, watering facilities, animal trails and walkways, access road, critical area planting, and fencing

Key Project Partners

Lackawanna County Conservation District
PA DEP
USDA-NRCS
White Deer Concrete, L.L.C.

Contact Information

Jerry Stiles
District Manager

Jay Clymer
Board Chairman

1038 Montdale Rd., Suite 109
Scott Township, PA 18447
(570) 382-3086
www.lccd.net

More Work to Do

- Conduct 2019 Rain Barrel Workshop
- Assessment of Roaring Brook and Lackawanna River
- Administration of NPDES Permit & Chapter 102 Program
- Administer Chesapeake Bay, Nutrient Management and Soil Health Programs
- Administer Lackawanna County Conservation District's Ag BMP Program including the installation of projects on two (or more) operations
- Administer Farmland Preservation Program including the addition of six new farm parcels in 2019
- Installation of additional fish habitat enhancement structures along Leggett's Creek
- Roaring Brook Streambank Stabilization Project

Lancaster County Conservation District

Other Accomplishments Dirt & Gravel/Low Volume Road Program

This past year, the District assisted municipalities and participated in numerous on site project assessments and project review meetings. All of these efforts are designed to result in improved roads and more importantly cleaner local streams and creeks.

- Assisted 5 municipalities with 6 Dirt & Gravel road projects totaling over 7.5 miles throughout the county.
- The Low Volume Road program assisted 11 municipalities with 12 Low Volume road projects totaling nearly 10.65 miles.

Conservation Education

5,875 people participated in 177 District Education programs.

**Money Brought to the
County From
Conservation District
Efforts:
\$3.4 million**



2018 Feature Accomplishment

Erosion & Sediment Control Program

The E&S Department administered the Chapter 102 and Chapter 105 programs to help protect our natural resources from impacts of new development and construction projects.

Watershed Program

Almost one-half of our 1,400 miles of streams throughout the county are listed as impaired. Program efforts to restore the health and quality of those streams this year included:

- Expanded the program to include an assistant Watershed Specialist.
- Assisted over 12 local volunteer watershed associations in the county on issues from education, funding, monitoring, and volunteer recruitment.
- Conducted numerous stream surveys and educated 3,300 children & adults on the importance of clean water.
- 3 miles of stream were restored.
- Worked with partners on a new Alternative TMDL approach in the Chiques Creek Watershed.



Contact Information

Christopher Thompson
District Manager
Dan Heller
Board Chairman
1383 Arcadia Road,
Room 200
Lancaster, PA 17601
(717) 299-5361



www.lancasterconservation.org

Agricultural Conservation Program

The Ag staff was instrumental in many different conservation efforts including:

- Designed 177 Best Management Practices (BMP's).
- Planned nearly 3,000 acres with either a Conservation Plan or Ag E&S Plan.
- Installed 173 BMP's Reviewed 93 Act 38 Nutrient Management Plans.
- Conducted status reviews of over 250 Act 38 regulated operations.
- Conducted 302 farm compliance visits.

More Work to Do

- Launch a county-wide, clean water collaborative.
- Facilitate and participate in the development of the County's WIP.
- Allocate \$2.475 million in project grants.
- Work to implement WIP III goals and objectives.

Lawrence County Conservation District

Other Accomplishments

- Ag implementation plans in the Sugar, Honey and Slippery Rock Creek Watersheds including 3 manure storage facilities, a compost facility, a stream crossing for cattle, a stabilized cattle lane, a roofed heavy use area, an access road, and storm water diversions.
- Technical assistance provided to 1,728 contacts.
- Reviewed 46 erosion and stormwater control plans, issued 4 permits, responded to 8 complaints and conducted 38 site inspections.
- Nature and Geology Camps for kids and Science competitions for students.
- Stormwater workshops for adults
- Two manure management workshops for ag producers.

Grant Money Brought to the County From Conservation District Efforts:

\$1,169,872.00



2018 Feature Accomplishment

Municipal Road Improvements

Resource Challenge

Drainage issues causing pollution to local streams.

Project Summary and Results

Feature Accomplishment :

Installation of a 10 ft wide by 5 ft high 45 ft. long aluminum arch culvert under Lakewood Neshannock Falls Road replacing a failing 48 inch galvanized pipe.

Other Accomplishments: Assisted 4 municipal entities with 5 DGLVR road improvement projects.

- Completed \$158,444 in Low Volume Road Program Projects with 3 municipal partners.
- Completed \$93,002 in Dirt and Gravel Road Program Projects with 2 municipal partners.
- Completed the upgrade, replacement and stabilization of 14 cross pipes.
- Installed 2 French mattresses and stabilized 2 roadways with approximately 800 tons of Driving Surface Aggregate.
- Installed 794 feet of underdrain and a catch basin.

Key Project Partners

PA Dirt, Gravel and Low Volume Roads Program

PA DEP

PA State Conservation Commission

PA Association of Conservation Districts

Contact Information

Jo Ann McCready
District Manager
430 Court Street
New Castle, PA 16101
(724) 652-4512
www.lawrenceccd.org

Clifford Wallace, Chairman

More Work to Do

- Ag Implementation Plans in the Slippery Rock Creek Watershed.
- Restoration Plans for the Shenango River and Connequenessing Creek Watersheds.
- Staff training for regulatory programs.
- Expand the Dirt, Gravel and Low Volume Road Program to more municipalities.
- Conduct 12 workshops and educational events for all ages of residents.
- Work with our urban leaders on natural stormwater management practices.

Lebanon County Conservation District

Other Accomplishments

- Preserved 261.98 acres of farmland through four agricultural land preservation easements.
- Assisted agricultural operators in developing 35 manure management plans covering over 3,000 acres.
- As of October 31, 2018, reviewed 103 plan submissions, 40 of which were for NPDES permit coverage.



Grant Money Brought to the County From Conservation District Efforts:

\$652,927



2018 Feature Presentation

ACF's Stream Bank and Open Channel Stabilization Solutions Workshop

Resource Challenge

Minimizing stream bank and open channel degradation with excellent design, appropriate construction techniques and superb stabilization.

Presentation Summary

Lebanon County Conservation District, with ACF Environmental, facilitated a Stream Bank and Open Channel Stabilization Workshop. Topics of discussion included use of riprap, flexamat, gabion baskets and articulated concrete block for problematic areas requiring hard armor. Geotextile and anchored reinforcement vegetative systems options were presented as an affordable alternative for areas suitable for vegetative stabilization. Approximately 50 design professionals attended this informative event.



Contact Information

Katie Doster
District Manager

Randall Leisure
Board Chairman

Lebanon Valley Ag Center
2120 Cornwall Road, Suite 5
Lebanon, PA 17042
(717) 277-5272
www.lccd.org

More Work to Do

- 45 farms totaling 4,417 acres awaiting farmland preservation
- Continue administration of Dirt and Gravel and Low Volume Road projects
- Expand our working relationship with agricultural operators on developing agricultural erosion & sediment control and manure management plans.



Lehigh County Conservation District

Other Accomplishments

- 2 Low Volume Road and 2 Dirt and Gravel Road contracts totaling \$301,298.00
- 21 Conservation Plans Written
- 52 Individual NPDES Permits Issued
- 38 General NPDES Permits Issued
- 2018 Lehigh County Envirothon
- Work with County Government on their MS4 Program

Grant Money Brought to the County From Conservation District Efforts:

\$401,116.00



2018 Feature Accomplishment

Conservation 101 Curriculum Development:
The Diversity of Rural and Urban Agriculture in Lehigh County



Resource Challenges: Providing agricultural conservation, solutions for food security, and stormwater conservation BMPs in urban communities

Project Summary and Results

- 2 semester pilot programs given during spring and fall, 2018
- 42 students enrolled: 15 (spring) and 27 (fall)
- 40 + lessons and 6 Field Projects:
 - Rain Barrel and Composting implementation
 - Raised Square Foot Garden implementation (stationary/portable)
 - Vertical Microgreen Garden implementation
 - Exploration of current urban agriculture technology (aqua/hydroponics)
- 8 guest speaker visits by conservationists, a nutrition specialist, and an apiarist
- 11 field trips to farms, vineyards, and hydroponic laboratories

Key Project Partners:

- Allentown School District - Building 21 High School
- City of Allentown
- Rider-Pool Foundation & Harry C. Trexler Trust
- Lehigh Valley farmers

Contact Information

William McFadden
District Manager

William Erdman
Board Chairman

Lehigh County Agricultural Center
4184 Dorney Park Rd., Suite 105
Allentown, PA 18104
(610) 391-9583
www.lehighconservation.org



More Work to Do

- Continue to implement the E&S/NPDES Program
- Continue to offer education programs to the public
- Continue education on E&S/NPDES to the regulated community
- Continue to expand LCCD Mission and Message to Residents of Lehigh County
- Develop an Intern Program
- D&G/LVR Improvement Projects
- Continue work on an Urban Ag Program in City of Allentown
- Work on Strategic Plan

Luzerne Conservation District

Other Accomplishments

- **204 Erosion & Sediment Control Plan Reviews** and **348 site inspections** for earth disturbance activities in Luzerne County
- Responded to **72 complaints** related to soil and water issues
- Issued **55 NPDES Permits** for construction activities
- Allocated over **\$265,000 for 8 projects** to reduce sediment pollution from municipal dirt & gravel roads
- Allocated over **\$285,000 for 6 low-volume paved road projects** to improve storm water management, drainage, and road base and surfaces
- Coordinated the preservation of a **173 acre** farm through administration of the Luzerne County Farmland Preservation Program
- Provided conservation planning and federal Farm Bill Program contract coordination for more than **2,000 acres** of farmland within Luzerne County, in partnership with PACD and USDA NRCS
- Provided over **\$15,000** in incentives to farmers to plant multi-species cover crops & implement no-till planting on over **330 acres** for better soil and water quality.



2018 Feature Accomplishment

Riparian Buffer & Stormwater Basin Plantings for Improved Water Quality

Resource Challenge:

Sediment and other pollutants from streambank erosion and other sources in close proximity to streams and other waterways degrade water quality. Older stormwater management systems do little to address water quality.

Project Summary and Results:

The district coordinated the planting of native trees and shrubs to stabilize streambanks and improve the filtration capabilities of riparian areas and existing stormwater management basins on 1.53 acres of public and non-profit properties in the Toby Creek Watershed and 1.61 private acres within the Big Wapwallopen Creek Watershed.



Before picture of a stormwater basin at Dallas Area High School

After picture of a stormwater basin at Dallas Area High School



Key Project Partners:

Dallas Area School District, Dallas Township, The Lands at Hillside Farms, Private Landowners, PA DCNR, PA DEP, Keystone 10 Million Trees Partnership, PPL, Aqua PA, EPCAMR, & Penn State Extension Watershed Stewards

Contact Information

Joshua Longmore
Executive Director

Timothy Ference
Board Chairman

325 Smith Pond Road
Shavertown, PA 18708
(570) 674-7991
www.luzernecd.org

Grant funds delivered directly to on-the-ground conservation practices in 2018 = **\$766,132**

More Work to Do

- Provide natural resource conservation assistance to state and federal partners and Luzerne County municipalities, landowners, & land users
- Implement ongoing and new conservation projects on farms and along streams, wetlands, and lakes
- Coordinate the preservation of more Luzerne County farms through the Farmland Preservation Program
- Provide multiple educational opportunities to promote the stewardship of natural resources

Lycoming County Conservation District

Other Accomplishments

- Fish Habitat Improvement Projects- completed 3 Environmental Education
 - 34 programs with 3,782 participants
- Envirothon
- Mosquito-Born Virus Surveillance Program
- Dirt and Gravel Roads
- RCPP – Soil Health
- Nutrient Management Planning Funds
- Ag Land Preservation
- No-till drill rental program
- Nutrient Credit Trading Participation

Grant Money Brought to the County From Conservation District Efforts: \$ 1.2 million



2018 Feature Accomplishment

Fry Brother's Farm Agricultural BMP Project

Resource Challenge:

- Soil Erosion
- Water Quality Degradation

Project Summary and Results:

- 2000 sq ft of Roofed Heavy Use Area Protection
- 1000 sq ft of Roofed Manure Stacking Facility
- Roof Runoff Structures
- Access Road, Animal Trail and Walkway

Key Project Partners:

- USDA-NRCS
- Growing Greener



Contact Information

Mark Davidson
District Manager

Carl Schlappi
Board Chairman

542 County Farm Road, Suite 202
Montoursville, PA 17754
(570) 433-3003
www.lyco.org

More Work to Do

- Agriculture and Streambank BMPs utilizing \$215,000 Growing Greener funds
- Debris Removal Projects
- Emergency Watershed Protection
- Ag Land Preservation
- \$500,000 Dirt and Gravel Road Projects
- Mosquito Borne Disease Surveillance

McKean County Conservation District

Other Accomplishments

Allegheny Plateau Invasive Plant Management Area (APIPMA)

The District has been a lead partner in the development of a new invasive plant cooperative in northern PA. The group brings federal, state, and local agencies; as well as private industry, landowners, and community organizations to the table to tackle invasive plant problems on a landscape level. The area covers parts of five counties in the Upper Allegheny watershed (Elk, Forest, McKean, Potter, Warren). Grant funds from two sources help fund a new staff member at the District to serve as a program coordinator for APIPMA.



Streambank Stabilization Program:

10 projects completed for private landowners

Dirt, Gravel, and Low Volume Road

Program: 13 projects, including 1 educational demonstration project

Education & Outreach:

46 events and programs reached 3,957 people



2018 Feature Accomplishment

Agricultural BMP Project: Mantz Farms

Resource Challenge

The District was contacted by Gene Mantz to assist in addressing the animal concentration area on his beef operation. The beef cattle were fed throughout the winter in and around the barn, resulting in manure accumulation and deep mud where the cattle congregated outside the barn. The existing barn roof runoff ran directly through the animal concentration area increasing the amount of mud and the potential of sediment and nutrient runoff to the stream.

Project Summary and Results

Shell funded the project funneled through the Seneca Chapter of Trout Unlimited. The District through PACD's Engineering Assistance Program, designed and constructed a roofed heavy use area. The final project includes a roofed 40' X 40' manure stacking building combined with a 28' X 40' improved heavy use area, roof runoff controls, and an improved walkway between the existing building and the newly constructed building. This project eliminated the sediment and nutrient runoff from the animal concentration area, provided a stable cattle feeding area, shelter, and an improved stacking area for better manure/nutrient management.

Key Project Partners

Shell, Inc.
Seneca Chapter
of Trout Unlimited
PA Association of
Conservation Districts
USDA NRCS



More Work to Do

- Acid Mine Remediation Projects on Hamlin and Railroad Run streams
- Implementation of NFWF Central Appalachia Habitat Stewardship Program Grant: McKean County Erosion and Sedimentation & Aquatic Connectivity Initiative

Money Brought to the County From Conservation District Efforts:

2018 Income: \$ 1,969,754.06

For every \$1 contributed by McKean County for conservation, \$46.10 was generated in return from additional funding sources

Contact Information

Sandy Thompson
District Manager

Kerry Fetter
Board Chairman

17137 Route 6
Smethport, PA 16749
(814) 887-4001

www.mckeanconservation.com

Mercer County Conservation District

Other Accomplishments

- Collaborating with Carnegie Museum of Natural History on Climate and Changes to Our Environment.
- Four Dirt and Gravel/Low Volume Road Maintenance projects completed totaling \$379,043
- Invasive Species Control at Fairview Dam totaling \$1,846
- Two additional Interns from PA Career Link to help with projects totaling \$8,756
- Four Sandy Creek Watershed Education Activities held totaling \$2,314
- Three Sandy Creek Watershed projects completed totaling \$33,420
 - One manure storage decommissioning and a 590 Nutrient Management Plan
 - 100 acres of cover crops planted as a demonstration
 - Friends of Goddard Volunteers and District Staff completed 6 months of testing at 6 sites
- 11 General and 1 Individual NPDES permits
- 47 Chapter 105 general permits

\$426,080 was spent by the Mercer County Conservation District for Mercer County projects in 2018.



2018 Feature Accomplishment

Identification and rapid response to control European Water Chestnut (*Trapa natans*) in Mercer County



The Mercer County Conservation District Staff properly identified and assisted with a rapid response to control the aquatic invasive species European Water Chestnut (*Trapa natans*) in Mercer County. This response included hand removal and funding to treat impoundment.

Contact Information

Jay Russell
District Manager

James Rust
Board Chairman

24 Avalon Court, Suite 300
Mercer, PA 16137
(724) 662-2242

www.mercercountycd.com

[facebook](#)



More Work to Do

- Continue Maintenance Activities on Flood Control Dams
- Hold a Cover Crop Demonstration Field Day
- Continue with Aquatic Invasive Species removal
- Continue support to eligible municipalities in the Dirt, Gravel and Low Volume Roads program
- Fish Habitat Projects on Neshannock Creek assisting Trout Unlimited Chapter
- Growing Greener Grants \$249,247.00
 - Elder Run
 - Sandy Creek Watershed

Mifflin County Conservation District

Other Accomplishments

Agricultural BMPs

- 4,800 ft. of livestock exclusion fencing
- 6 acres of riparian forest buffer
- 2,250 ft. of stream restoration (25 fish habitat structures)
- 1 roofed animal heavy use area
- 2 watering facilities

Dirt & Gravel Rd./Low Vol. Rd.

- 7 DGR projects contracted
- 6 LVR projects contracted

Environmental Education

- Mifflin/Juniata Envirothon
- Field Days
- Class Presentations

Watershed

- Upper Kish WIP Update
- 2018 Surface Water Assessment Program

Farmland Preservation

- Preserved 64 acres

Grant Money Brought to the County From Conservation District Efforts: \$509,750



2018 Feature Accomplishment

Hungry Run Comprehensive Stream Restoration Project

Resource Challenge

This section of Hungry Run was an unstable reach exhibiting high sinuosity and excessive stream bank erosion. Habitat assessments revealed poor instream habitat with a high embeddedness and on overall lack of instream habitat.

Project Summary and Results

In an effort to restore this stream reach, and build upon prior stream work upstream, a comprehensive stream restoration project was completed. This included the installation of fish habitat structures, livestock exclusion fencing, riparian forest buffer planting, and a stabilized stream crossing.

Key Project Partners

PA Department of Environmental Protection (DEP)
National Fish and Wildlife Foundation (NFWF)
U.S. Fish and Wildlife Services (USFWS)

Contact Information

Daniel Dunmire
District Manager

Cathy Haughwout
Board Chairwoman

20 Windmill Hill, Suite 4
Burnham, PA 17009
(717) 248-4695

More Work to Do

- Kish Park stream restoration project
- Complete stream restoration projects (fish habitat, fencing, RFB planting, crossings) in the Upper Kish watershed
- Install Agricultural BMPs in Ag Impaired watersheds
- Continue Surface Water Assessment Program (SWAP)
- Manure management workshops
- Rain barrel workshops.



Pictured Above: Comprehensive stream restoration project on Hungry Run

Monroe County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Formalized an Agility Agreement with PennDot to increase speed of project design and provide resources for water quality improvement projects
- Secured funding for a multi-entity Riparian Buffer project to highlight local partnerships and conservation efforts
- Developed new educational programs to engage the public and foster a deeper appreciation for nature....CREEK SNORKELING!!

Grant Money Brought to the County From Conservation District Efforts:
\$235,590.00



ESSA Riparian Buffer Project

Resource Challenge

Buffer planting area is heavily infested with knotweed and is contained within a pre-existing recreational and open space easement at ESSA Bank headquarters. Buffer would complete larger, contiguous buffer, and increase habitat value along McMichael Creek.

Project Summary and Results

MCCD was able to form a willing collaborative involving ESSA Bank, the Stroud Regional Open Space Commission, the Brodhead Watershed Association, Strauser Nature's Helpers, The United Way, and MCCD. Each entity played a key role in creating community-wide engagement and providing the necessary coordination to change to easement language to allow for a multi-function buffer to be planted.

Key Project Partners

- ESSA Bank
- United Way
- Brodhead Watershed Association
- Stroud Regional Open Space & Recreation Commission
- Strauser Nature's Helpers

Contact Information

Adam Schellhammer
District Manager

Pat Ross
Board Chairman

8050 Running Valley Road
Stroudsburg, PA 18360
(570) 629-3060
www.mcconservation.org

More Work to Do

- Secure funding to complete stream restoration within Game Lands #38
- Form working partnerships with East Stroudsburg Borough and East Stroudsburg University to address stormwater issues and meet MS4 requirements
- Foster a sense of environmental responsibility within the regulated community through our NPDES workshop
- Expand our educational programs throughout the public school system in Monroe County

Montgomery County Conservation District

Other Accomplishments

- Outreach workshop for municipal Environmental Advisory Councils
- Non-point source pollution prevention workshop for commercial realty in King of Prussia
- Three agricultural conservation field days
- Two community Earth Day educational events, a stream cleanup, and a rain barrel workshop
- Held three Envirothon educational events
- Spotted Lanternfly education & control initiative
- *Dirt, Gravel and Low Volume Roads* grant program: 1 DGR project completed; 2 LVR projects completed and 2 new LVR project contracts signed
- Received increasing number of NPDES permit terminations due to increased outreach to regulated community

Grant Money Brought to the County From Conservation District Efforts:

- Schuylkill River Restoration Fund Grant
- Dirt, Gravel & Low Volume Roads Grant
- NRCS Conservation Innovation Grant
- TreeVitalize Watersheds Grant
- PACD Manure Management Mini-Grant
- PACD Non-point Source Pollution Prevention Education Mini-Grant
- PACD Multifunctional Buffer Grant
- Spotted Lanternfly Education & Control Grant



2018 Featured Accomplishment

Perkiomen Creek Habitat Improvement Project

Resource Challenge

Stream bank erosion, poor instream habitat, exotic and invasive plant species, minimal riparian buffer

Project Summary and Results

In April 2018, Montgomery County Conservation District staff partnered with volunteers from Perkiomen Valley Trout Unlimited and 35 students from Upper Perkiomen High School to remove invasive multiflora rose and install native willow and dogwood live stakes and whips along streambanks of the Perkiomen Creek at the American Legion Post #184 in East Greenville. The streamside buffer enhancement activities were conducted as part of a larger, post-dam removal stream habitat improvement project, in which several streambank stabilization and fish habitat improvement structures were installed in October 2017. The project was funded through grants from the Schuylkill River Restoration Fund and Penn State Extension's Master Watershed Steward Program. Educational signage was installed on site, and the project site was used to host a Trout in the Classroom educational trout release day.

Key Project Partners

American Legion Post #184, Perkiomen Valley Trout Unlimited, Upper Perkiomen High School, Schuylkill River Restoration Fund, Penn State Master Watershed Steward Program, Sundance Creek Consulting, Schneck Logging, Inc., Montgomery County Conservation District

Contact Information

Jessica Buck
District Manager

Sara Erlbaum
Board Chairman

143 Level Road
Collegeville, PA 19426
(610) 489-4506

www.montgomeryconservation.org

More Work to Do

- Seek improved field compliance across Ch. 102 regulations (E&S and PCSM)
- Continued outreach to regulated agricultural community for compliance with manure management and Ch. 102 regulations
- Continue to partner with conservation organizations, municipalities, schools, landowners and other entities to identify and take advantage of opportunities to implement an array of non-point source pollution reduction projects across the District's various programs, while fostering public awareness and education in relation to local soil and water conservation issues.

Montour County Conservation District

2018 Feature Accomplishment

Trinity United Methodist Church Stormwater Management Project

Resource Challenge

Uncontrolled Stormwater Runoff from church and parking lot accounting for over 2 acres of impervious surface entering Tributary to Mahoning Creek

Project Summary and Results

Constructed 2 infiltration basins to reduce stormwater runoff to roadway and creek



Key Project Partners

United Trinity Methodist Church
Wintersteen Excavation
Mahoning Township

Other Accomplishments

- Purchased our own office February 28th
- Betz Liquid Manure Storage Growing Greener Project
- Metzer Streambank Stabilization Project
- Beachel Heifer Barnyard/Manure Storage Growing Greener Project
- Landau Road Dirt and Gravel Roads Project
- Magargle Road Dirt and Gravel Roads Project
- Brooke Stream Project
- Biddle Buffer Planting

Grant Money Brought to the County From Conservation District Efforts:

\$714,843

Growing Greener

\$8,180

Bay Special Projects



Contact Information

Sean Levan
District Manager

Matthew Derr
Board Chairman

1210 Bloom Road.
Danville, PA 17821
(570) 271-1140
www.montourccd.com

More Work to Do

- Betz Barnyard Project
- Beachel Dry Cow Barnyard
- Bogart Roofed Manure Storage
- Kitchen Roofed Barnyard
- Fletcher Roofed Barnyard/Manure Storage
- Tworkoski Diversion
- George Stream Bank Stabilization
- Beyer Streambank Fencing
- Pfliegor Streambank Fencing
- Biddle Streambank Fencing

Northampton County Conservation District

Other Accomplishments

- Completed over 170 E&S plan reviews, 67 PCSM plan reviews, conducted over 242 field inspections, issued 60 NPDES permits and answered 48 complaints
- Provided over 20 environmental education/E&S programs for schools, fairs/festivals, and organizations.
- Assisted Northampton County with MS4 permit program; organized outreach for municipalities.
- Met with 4 municipalities to discuss MS4 coordination efforts with District; signed MOU with 1 municipality.
- Offered Compliance Training to local contractors.
- Assisted Northampton County Farmland Preservation with annual inspections.
- Assisted Northampton County Public Works to obtain Emergency Watershed Protection funding for a flood restoration project.
- Initiated District summer internship program.
- Partnered with Monroe & Pike CCDs to conduct "Design & Build Workshop" for designers and contractors.
- Partnered with Monroe CCD to coordinate and hold "Protect the Tap: Clean Water Festival".
- Held Manure Management Workshop Series to assist local agricultural practices with compliance
- Provided over \$260,000 in Dirt, Gravel and Low Volume Road grant funds to Northampton County municipalities for implementation of environmentally sensitive road projects to reduce sediment pollution in four watersheds.
- Partnered with Penn State Extension for 2018 Master Watershed Steward Program

**Grant Money Brought
to the County from
Conservation District
Efforts: \$360,348**

2018 Feature Accomplishment

"Invasive Species" Act 48 Teacher Workshop

Resource Challenge

The Spotted Lantern Fly that was discovered in Berks County, PA about five years ago has now spread to 13 counties in SE PA. If allowed to spread across the United States, this pest could seriously impact the country's grape, orchard, and logging industries.

Project Summary and Results

The workshop offered twenty educators the opportunity to earn seven continuing education credit hours and learn hands-on about invasive species removal, identification and the threat they pose to the Lehigh Valley. Highlighting the Spotted Lanternfly, Penn State Extension entomologist, Amy Korman presented the teachers with an introduction to invasive plants and insects with fellow Extension educator, Bradley Kunsman, who offered the teachers fun, hands-on ways to keep their students engaged. Andrew Desko of the PA Fish and Boat Commission gave an informative lecture on the many aquatic invasive species impacting our watersheds. In the afternoon the group joined Vicky Bastidas of Camel's Hump Farm at the Johnston Estate for an invasive plant identification tour and stilt grass removal.

Key Project Partners

- Penn State Extension
- PA Fish & Boat Commission
- Friends of Johnston, Inc.



Contact Information

Sharon Pletchan
District Manager

Joel Geiger
Board Chairman

Greystone Building
14 Gracedale Avenue
Nazareth, PA 18064-9211
(610) 829-6276

www.northamptoncd.org

northamptoncd@northamptoncd.org

More Work to Do

- Provide E&S / PCSM training for the community, County and Municipalities
- Seek funding for and continue to offer Act 48 Teachers' Workshop
- Continue to implement PCSM, E&S and Nutrient Management Delegations
- Build District's Agricultural Assistance Program
- Develop Riparian Buffer Program with local partners
- Deliver 2019 Master Watershed Steward Class for the Lehigh/Northampton Program
- Assist with organization of the 2019 Lehigh Valley Watershed Conference
- Assist Municipalities and Agricultural Community with Spotted Lanternfly control efforts.
- Assist with additional Act 167 plan updates
- Increase municipal participation for DGLVR program

Northumberland County Conservation District

Other Accomplishments

- Reviewed and approved 32 erosion and sediment plans, 15 NPDES permits, and 23 dam safety and waterway permits.
- Performed 131 inspections on active construction sites.
- Assisted with 29 manure management plans and 36 ag erosion and sedimentation plans.
- Provided 19 educational programs to schools and community groups.
- Held 3 workshops for the farming community, municipalities, and the general public.
- Administered the mosquito-borne disease control program for DEP in 5 counties.
- Provided funding through the Dirt, Gravel, and Low Volume Roads program to 5 municipalities, totaling \$503,441.07.
- 22nd farm preserved (82 acres) through the Northumberland County Agricultural Land Preservation Program.
- Sold 12,664 trees during our 2018 tree sale, a 1,400 increase from 2017.
- Tire Collection Event held at the Anthracite Outdoor Adventure Area (AOAA) on April 7th; collected and recycled 2,400 tires; also collected and recycled 590 tires in the Mount Carmel Borough on April 20th; both funded by DEP's Mosquito-borne Disease Control Program Grant.
- Enrolled approximately 1,400 acres in the Diverse Species Cover Crop Incentive Program, funded by a Growing Greener Grant in cooperation with Columbia and Montour Counties.
- 3rd Annual Coal Mining History and Water Quality Field Trip held for 80 middle and high school students, funded by a DEP Environmental Education Grant.



2018 Accomplishments

South Lily Road, Shamokin Township (a Low Volume Road Project through the State Conservation Commission's Dirt, Gravel, and Low Volume Roads Maintenance Program)

Resource Challenge

South Lily Road is a low volume paved road which is laid out on a hill and perpendicular to it. The average slope of the road is approximately 10%. The slopes exceed 17% in several locations. This road channels stormwater run-off down hill to one cross pipe and then flowed into a low-lying wet area (the land owner calls it "his swamp"). The stormwater re-enters the right-of-way of the road approximately 150 feet down hill of the point where it leaves the right-of-way. Stormwater run-off then flows down hill to an inlet along SR 0061 which collects it and transfers it across the highway to a stream and pond.

Project Summary and Results

A natural swale paralleling the road approximately 100 feet to the east was disconnected from the natural flow path by the construction of driveways. A natural depression at the beginning of the swale was maintained and pipes were installed under the driveways. The road was raised approximately 1 foot to allow the water to sheet flow onto the surrounding terrain. Inlets were placed approximately 1/3 of the way from the top of the hill, and water was directed through an underground pipe to a stilling basin at the south west corner of the property of a cooperative resident. Clean water flows out of the stilling basin and sheet flows through another natural flow path to a stream approximately 200' away. Shamokin Township employees constructed a rain garden in the natural depression at the head of the above-mentioned swale east of the road. This rain garden collects water during heavy storms and allows it to infiltrate into the ground. A spring in the road was drained into an inlet and the road was repaved with a mountable curb on both sides to channel stormwater into inlets which were installed. This project has effectively decreased the volume of stormwater run-off reaching the "swamp" and the stream and pond on the opposite side of SR 61, thus reducing pollution of these water bodies.

Key Project Partners

Penn State's Center for Dirt & Gravel Roads Studies, Shamokin Township, Funded by the State Conservation Commission's Dirt, Gravel, and Low Volume Roads Maintenance Program

Contact Information

Judy Becker
District Manager

Michael Hubler
Board Chairman

441 Plum Creek Road
Sunbury, PA 17801
(570) 495-4665
www.nccdpa.org

More Work to Do

- Continue to administer the Mosquito-borne Disease Control; Chapter 102; Chapter 105; AgLand Preservation; Watershed Specialist; Dirt, Gravel, and Low Volume Roads; and Chesapeake Bay Programs.
- Reach out to every ag operation in the county and offer our technical assistance.
- Pursue grant funding for potential projects to address resource concerns with the goal of reducing nitrogen, phosphorus, and sediment.
- Continue to offer educational programs free of charge to schools, community groups, and the general public.
- Specifically, the installation of multiple Best Management Practices on a 214-acre farm utilizing approved Chesapeake Bay Special Projects and Growing Greener Grant funds.

Grant Money Brought to the County From Conservation District Efforts:

\$1,099,280.08

Perry County Conservation District

Other Accomplishments

- District's four No-Till drills used to plant 1453 acres of which 400 acres were cover crop.
- Provided 126 technical assistance contacts and conducted 39 site inspections for Chapter 102 compliance.
- Completed 3 Low Volume Roads projects including 1 streambank stabilization project & 2 stream crossing replacements. Total program funds spent on projects in 2018 was \$197,662.54
- Coordinated an Ag E&S Plan writing workshop along with the Greenwood FFA Chapter and the Center for Dairy Excellence, 13 attendees.
- Keep Perry County Beautiful Affiliate coordinated a Tire Collection (439 tires), E-cycling Collection (14 tons) and Juniata River Clean Up (4 tires, 2,700 lbs trash) events along with help from 52 volunteers.

Grant Money Brought to the County From Conservation District Efforts: \$688,128.00



2018 Feature Accomplishment

Preservation of the Dave and Holly Rumberger Farm

Resource Challenge

Maintain clean water and economically viable farms through preservation, planning and implementation of best management practices.



Project Summary and Results

The Rumberger Family farm is a 104.24 acre beef cattle operation located within the Ag Security Area of Greenwood Township. The Rumberger Farm was ranked first out of 55 applications based on many parameters that include acres of cropland, soils, development pressure and proximity to other preserved farms. Over 85% of the farm is available for harvestable cropland, pastureland, and or grazing land. This brings the total acres preserved under the Farmland Preservation Program in Perry County to 9,369 acres.

Key Project Partners:

Perry County Commissioners
Pennsylvania Department of Agriculture

Contact Information

Sally Tengeres
District Manager

Oscar Campbell
Board Chairman

P. O. Box 36
31 West Main Street
New Bloomfield, PA 17068
(717) 582-8988 ext.4
www.perrycd.org

More Work to Do

- Evaluate, implement BMPs, monitor and
- delist 8 Ag Impaired streams
- Assist with the development of manure management and Ag erosion and sediment control Plans on 800 acres.
- Assist with the implementation of the County Greenways Plan.
- Outreach program focused on implementing Riparian buffers along impaired streams.
- Work to preserve the 50 farms on the waiting list for Farmland Preservation Program.

Key District Partners

USDA NRCS, Penn State Cooperative Extension, Pa No-Till Alliance, PA DEP, SCC, PACD, Keep Perry County Beautiful, Foundation for PA Watersheds, Center for Dairy Excellence

Pike County Conservation District

Other Accomplishments

- Completed a \$3,000 PACD mini-grant, providing 3 workshops on drinking water.
- Replaced retiring Executive Director Sally Corrigan with Michele Long, and reorganized job descriptions to improve operations.
- Completed 10-year Groundwater Level Monitoring program in coordination with USGS.
- Identified Raymondskill and Dingmans Creeks as priority watersheds.
- Met with representatives from Community Associations within the priority watersheds and developed a Road Maintenance program.
- Completed a five-year review of the Staff Classification System.

Grant Money Brought to the County From Conservation District Efforts:

- \$32,800 through Pike's Scenic Rural Character Preservation Program for well level monitoring through 2022.
- \$3,000 from Pinchot Institute for Conservation Studies for water quality monitoring in the Upper Delaware River Watershed.
 - \$1,000 PACD mini-grant to support the guide "How to Complete the Most Common General Permit Applications."



2018 Feature Accomplishment

Stormwater Best Management Practices Field Tours funded by a PA DEP Environmental Education Grant

Resource Challenge

Most Pike County streams are High Quality or Exceptional Value. Yet, we still face issues related to quality and quantity of surface and groundwater, particularly as it is impacted by stormwater.

Project Summary and Results

- Completed 2 Field Tours of successfully implemented stormwater BMPs for engineers, contractors, municipal officials, community association representatives, and the general public.
- Produced a PowerPoint Field Tour introduction, a printed and downloadable Field Tour Guide, and 3 YouTube videos.

Key Project Partners

PA DEP; Delaware Valley School District; Greenman Pedersen Inc.; Kiley Associates LLC Surveyors and Engineers; Matamoras Borough; Pike County EMS Training Center; Shohola Township; and Wdesign.



Contact Information

Michele Long
Executive Director

Scott Savini
Board Chairman

556 Route 402 Suite 1
Hawley, PA 18428
(570) 226-8220
www.pikeconservation.org

More Work to Do

- Analyze surface water monitoring data.
- Continue surface and groundwater monitoring.
- Work with DEP on implementation of Chapter 102 and 105 E-permitting.
- Meet with Bureau of Forestry, Northern Tier Hardwoods Association, Woodland Owners group, and NRCS to determine partnership opportunities.
- Participate in the Delaware River Watershed Initiative.
- Map current and proposed NPDES permit locations.
- Improve media opportunities highlighting District mission/programs.

Potter County Conservation District

Other Accomplishments

- Provided job shadowing and mock interviews for local high school students.
- Provided technical assistance to over 230 individuals in the Chapter 102 and 105 programs.
- Hosted 2 rain barrel workshops, 3 Agricultural workshops, and over 20 youth environmental education based workshops. Collectively, nearly 1000 people were reached.
- Completed 5 Dirt and Gravel and 1 Low Volume Roads Project totaling over \$500,000.00.
- Completed stream restoration projects to improved valuable fish habitat, stabilize landowners property, and reduce erosion.

Grant Money Brought to the County From Conservation District Efforts: \$88,350.00



2018 Feature Accomplishment Southwoods Road Soil Nailing Project

Resource Challenge

The site had developed into not only an unfavorable driving surface and safety hazard, but the source of sediment loading down a steep valley to the Southwoods Branch of the Sinnemahoning Creek, a high quality stream.

Project Summary and Results

In 2017, a 100 foot mudsill and 3 multi-log vane deflectors were placed to stabilize the toe of slope.

In 2018, work sought to stabilize a 50 foot tall by 100 foot long erosion scarp. The site was in need of work to save the road itself, and called for the professional work of GeoStablization International (GSI). GSI's team employed the use of 20 foot soil nails and cementation. To improve drainage, fresh limestone was placed and a guide rail was installed.

As a result local residents, emergency service vehicles, and school buses can now safely pass this section of road. \$175,000.00 of funding was provided from the Dirt and Gravel Roads Program to complete this extensive project.



Key Project Partners

Center For Dirt and Gravel Road Studies,
Sylvania Township, Trout Unlimited, Potter
County Conservation District.

Contact Information

Jason Childs
District Manager

Earl Brown
Board Chairman

107 Market Street
Coudersport, PA 16915
(814) 274-8411 ext.4
www.pottercd.com

Schuylkill County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Oneida #1 AMD Treatment System repairs
- Streambank stabilization & fish habitat project along 1,000 linear feet of the Schuylkill River
- Oneida #3 AMD Treatment System upgrades for additional flow treatment expansion



Grant Money Brought to the County From Conservation District Efforts: \$6,600,000

Good Spring Creek Floodplain Restoration

Resource Challenge

- Major flooding downstream in Tremont Borough
- 6.8 miles of Good Spring Creek listed as impaired due to siltation
- 4,600 linear feet of incised stream channel lacking floodplain
- Highly erodible and unstable streambanks consisting of coal waste
- To construct project approximately 1,000,000 tons of coal waste must be removed

Project Design Summary

- Stabilize streambanks and create a more natural channel along 4,600 linear feet of Good Spring Creek
- Create approximately 18 acres of floodplain and wetlands
- Reclaim at least two large priority one abandoned mine land features
- Reduce downstream flooding in Tremont Borough

Key Project Partners

- Tremont Borough & Frailey Township
- Natural Coal Co & YZ-05, Inc.
- Rausch Creek Lands, LP
- PA DEP

Contact Information

Jenna St. Clair
District Manager

Glenn Luckenbill
Board Chairman

1206 Ag Center Drive
Pottsville, PA 17901
(570) 622-3742 ext, 5
www.schuylkillcd.com

More Work to Do

- Design, permit and implement additional floodplain/wetland restoration projects in the Swatara Creek Watershed
- Continue implementing abandoned mine drainage remediation projects through Schuylkill County watersheds
- Increase cold water habitat



Snyder County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Outdoor Ed Day
- Farm Girls Rock
- Chesapeake Bay Special Projects
- Annual Awards Banquet
- Walk In Penns Woods
- Farmer's Winter Meeting
- Trail Of Trees Nature Trail
- Faylor Lake Projects



Grant Money Brought to the County From Conservation District Efforts:

\$478,160



Snyder County Buffer Projects

Resource Challenge

Highly eroded streambanks, often from grazing, continue to be a problem in Snyder County. Nutrients and sediment loads from these banks can be addressed by buffers and related Ag BMP's.

Project Summary and Results

Work has begun on the planning and implementation of buffers on multiple sites in the County with more funding for additional sites to follow. Current buffers include plain sect farmers in the County and public lands as well. The momentum of these buffers has invigorated a cooperative push from the County as well as the Conservation District to prioritize buffers and possibly even incentivize them as well.



Key Project Partners

Snyder County Conservation District
DCNR Bureau of Forestry
NRCS Technical Office Middleburg
Snyder County Commissioners

Contact Information

Jason Winey
District Manager

Annette Gray
Board Chairman

10541 Route 522
Middleburg, PA 17842
(570) 837-3000

www.snyderconservation.org

More Work to Do

- Tree and Plant Sale
- Envirothons
- Bay Farm Inspections
- Eco Day
- Ag Land Preservation
- Chapter 102
- Act 38 Status Reviews
- Riparian Buffers
- Dirt & Gravel/LVR Projects



Somerset County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Secured funding for Lamberts Run Phase 2 AMD Project
- Completed 11 Dirt and Gravel Road Projects
- Completed all E and S Reviews and technical assistance for the completion and opening of U. S. Route 219 extension
- Completed successful Envirothon
- Provided assistance to several Trout In the Classroom Programs
- Coordinated the Quemahoning Reservoir Fish Habitat Project

Grant Money Brought to the County From Conservation District Efforts: \$750,000.00

Combined Board Initiative

Resource Challenge

Locate funding sources for county AMD treatment systems long term operation and maintenance

Project Summary and Results

Initial meeting produced action items and a statement of need and the process to contact sources and organizations for assistance has begun

Key Project Partners

- Somerset County Conservancy
- Western PA Coalition for Abandoned Mine Reclamation

Contact Information

Leonard Lichvar
District Manager

Roger Latuch
Board Chairman

6024 Glades Pike, Suite 103
Somerset, PA 15501
(814) 445-4652 ext. 5
www.somersetcd.com

More Work to Do

- Complete Oven Run Rehab Project
- Complete Soap Hollow Run Stream Improvement Project
- Complete Hawk View Habitat Restoration Project
- Complete Bens Creek Mitigation Stream Improvement Project



Sullivan County Conservation District

Other Accomplishments

- Grades 4-6 Poster Contest
- 5th Grade Environmental Day
- Local and State Envirothon
- Conservationist of the Year- Chief Oil & Gas LLC
- 14 Dirt & Gravel Road Projects
- 2 Low Volume Road Projects
- Lewis Lumber Mill Tour
- 2018 Seedling Sale
- Green Career Day Participation
- Conversation with Conservation in the local newspaper
- County Road Maintenance Workshop
- Preserved 26.23 Acres of Farmland
- Earth Day Tree Planting
- Good Water Good Coffee event
- River of the Year celebration events

Money Brought to the County From Conservation District Efforts:

\$606,769.00



2017 Feature Accomplishment

Elk Creek Stream Restoration Project (Phase IV)

Resource Challenge

Severe erosion, loss of streambank and property, and lack of trout habitat

Project Summary and Results

The goal was to stabilize the streambank using PA Fish and Boat Commission Habitat Management Practices. The log structures being utilized allow for bank stability, reduced risk of sediment entry to the stream channel, and improved and enhanced in-stream aquatic habitat.

Key Project Partners

PA Fish and Boat Commission's Habitat Management Division, Chief Oil & Gas LLC, and landowners

Contact Information

Holly Miller
District Manager

Francis Moll
Board Chairman

9219 Route 487 Suite B
Dushore, PA 18614
(570) 928-7057
www.sullcon.com

More Work to Do

- Offer more workshops and events
- Streambank Stabilization
- Increase Education and Outreach
- Continue to preserve farmland in Sullivan County
- Dirt, Gravel, and Low Volume Roads Projects



Susquehanna County Conservation District

The SCCD receives over \$1,000,000.00 in funding annually, for the Dirt and Gravel road pollution prevention program

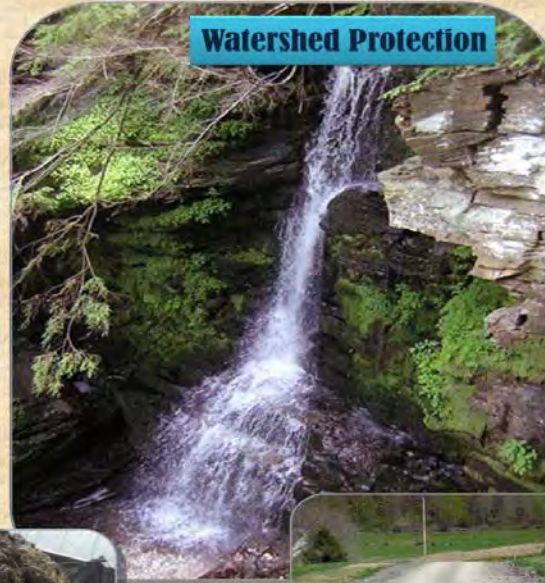


Email: soil@suscondistrict.org
Website: www.suscondistrict.org
88 Chenango Street, Montrose PA

Erosion & Sediment Program



Watershed Protection



Agricultural Land Preservation



Nutrient Management



Dirt & Gravel Roads Pollution Prevention



No-Till Program



Chesapeake Bay Program



Environmental Education

Contact Information

Jennifer Ramey
Business Manager

Raymond Warriner
Board Chairman

88 Chenango St.
Montrose, PA 18801
Phone: (570) 278-4600 ext. 3050
www.suscondistrict.org

More Work to Do

- Completing construction for spring developments funded by Growing Greener Grants
- Promoting the use of our new no-till interseeder
- Kick off new poster contest for elementary school students



Tioga County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Agriculture improvement project including heavy use areas and manure handling
- Streambank rehabilitation with Northcentral PA Conservancy grant partnership
- Over 30 environmental education programs
- 13 Dirt and Gravel and Low Volume Roads Projects
- Assisted farmers with Ag erosion and sediment plans, manure management plans, and nutrient management plans
- Assisted with Headwater Hemlock Project

Grant Money Brought to the County From Conservation District Efforts: \$1,633,600

Canoe Camp Streambank Rehabilitation

Resource Challenge

The Canoe Camp Creek Watershed is a priority Chesapeake Bay Stewardship Fund watershed. Canoe Camp Creek is designated as a CWF but due to water quality issues and lack of habitat, it no longer supports populations of eastern brook trout. Implementation of stream bank stabilization projects and the resulting measurable decreases in sediment and nutrient loads will have a large impact on the overall health of the ecosystem.

Project Summary and Results

3,800' of streambank stabilized using moundsills, log deflectors, and cross vanes.



Key Project Partners

National Fish and Wildlife Foundation, Shell Appalachia, Trout Unlimited, Tioga County Conservation District

Contact Information

Erica Tomlinson
District Manager

Cal Koch
Board Chairman

1867 Shumway Hill Rd.
Wellsboro, PA 16901
(570) 724-1801
www.tiogacountypa.us

More Work to Do

- Continued education
- Morris Run and Coal Creek Acid Mine Drainage Cleanup
- Further Dirt and Gravel Road improvements
- Streambank rehabilitation
- 3 Large Agriculture improvement projects



Union County Conservation District

2018 Feature Accomplishment

Beef Farm Ag Waste System

Resource Challenges

Unlimited cattle access to stream causing severe bank erosion, polluted offsite runoff, heavy sediment load to stream. Lack of adequate manure storage for proper management of nutrients. Inadequate roof runoff controls leading to erosion and manure entering nearby stream.

Project Summary and Results

- Installed 1000 ft. of stream exclusion and walkway fencing.
- Installed 2 reinforced cattle walkways.
- Installed 1 armored livestock stream crossing.
- Installed 6 month capacity manure storage.
- Installed 300 feet of roof gutter and 200 feet of roof water outlet.



Key Project Partners: PA DEP, USDA-NRCS, EPA

Other Accomplishments

- Multiple Ag Waste Projects
- 600+ hours of Conservation Planning
- 2 Community Watershed meetings
- 3 Water Quality Billboards
- 40 Erosion & Sedimentation plan reviews
- 11 Water Encroachment permits issued
- 187 acres of new Agland Preservation easements
- 12 Nutrient Management Plans approved
- No Till equipment rentals for corn planter, grain drills, spreader
- 2550 ft. of Stream Restoration
- 2340 ft. of Dirt & Gravel Road installed

Grant Money Brought to the County From Conservation District Efforts:

\$1.1 million (2018)



Contact Information

William Deitrick
District Manager

Lee Spangler
Board Chairman

155 North 15th Street
Lewisburg, PA 17837
(570) 524-3860
www.unioncountypa.org

More Work to Do

- Soils learning station at the Lewisburg Children's museum
- Stream Assessment on 1st and 2nd order streams
- Agland organic matter monitoring
- Expand outreach to organic farmers
- Invasive species management
- Launch "Nitrogen Know How" campaign
- Initiate new wildlife habitat development program

Venango County Conservation District

Other Accomplishments

- ❖ 8 Dirt & Gravel Road projects completed
- ❖ 1 Low Volume Road projects completed
- ❖ Pithole Creek Watershed Assessment
- ❖ 9 Ag. BMP's installed

Grant Money Brought to the County From Conservation District Efforts: \$544,000.00



2018 Feature Accomplishment

Resource Challenge: Abandoned oil & gas wells have the potential to discharge crude oil and natural gas to the surface, potentially contaminating surface and ground water. Natural gas can accumulate in homes and businesses and cause explosions. These abandoned wells can also act as conduits to the surface for acid mine drainage not to mention the threat of injury that they pose to hikers and hunters recreating near them.

Project Summary and Results: The Venango Conservation District has worked with DEP and DCNR to identify 11 abandoned oil and gas wells on Oil Creek State Park. These wells are located in an area adjacent to the Oil Creek multi use trail. Once these wells have been plugged we will have eliminated a hazard to trail users. Plugging efforts will be conducted in 2019.

Key Project Partners: The key partners involved in organizing this project are the Venango and Clarion Conservation District offices, Department of Conservation and Natural Resources, Department of Environmental Protection, Commonwealth Financing Authority, and the Venango retired Senior Volunteer Corps., Rep. R. Lee James, Senator Scott Hutchinson

Contact Information

Lance Bowes
District Manager

Mike Ohler
Board Chairman

1793 Cherrytree Road
Franklin, PA 16323
(814) 676-2832
www.venangocd.org

More Work to Do

- Implement Ag. BMP's on Ag. Impaired waters in Venango Co.
- Work with municipalities on implementing the Dirt Gravel and Low Volume Road program
- Continue to work with Venango County Planning Commission to implement Act 167 stormwater
- Install stormwater management BMP's
- Remediate AMD in the Scrubgrass and South Sandy Creek Watersheds
- Continue Erosion & Sediment Control Program work
- Continue Abandoned Well Plugging
- Provide Environmental Education programming

Warren County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Kindergarten Camp
- Children's Nature Camps
- Youth Conservation Camp
- Day Care Camps
- Dirt, Gravel & Low Volume Roads
- E&S Plans Reviewed
- General Permits Issued
- NPDES Permits issued
- Envirothon
- Tree Planting / Maintenance
- Rain Barrel Workshop
- Conservation Education at the Warren County Fair
- Nutrient Management Program
- Water Monitoring
- Fish Habitat Structures
- In Class Education Programs
- Stream Bank workshop
- Dirt & Gravel workshop / tour
- Hatch Run Conservation Demonstration Area
- Agricultural Programs
- Conewango Creek Clean Up
- Stream Bank Stabilization
- Multi County Sustainable Forestry initiative

Grant Money Brought to the County From Conservation District Efforts:

\$632,354.00



Stream Dynamics & Erosion Workshop / Tour

Resource Challenge

To educate the public about how streams & roads affect each other and how to provide care for each.

Project Summary and Results

Twenty – one of our local municipal employees as well as government representatives learned about the potential for non-point source pollution along the road stream interface. They also learned about specific methodology that was used to decrease the amount of sedimentation entering the stream from erosion along roads. As a result of this workshop, several township supervisors and employees contacted the Conservation District to inquire about how they can better maintain their dirt and gravel roads to help protect road-side Streams.

Key Project Partners

Warren County NRCS
Center for Dirt and Gravel Roads

Contact Information

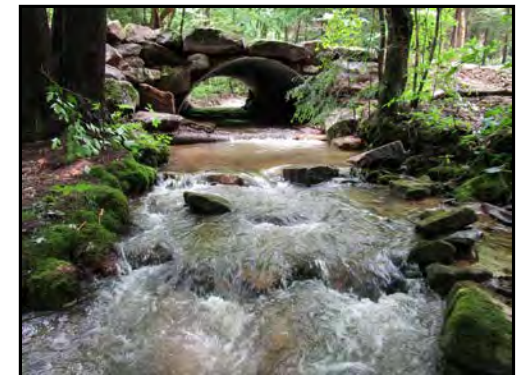
Heather Wilcox
District Manager

Barry VanOrd
Board Chairman

4000 Conewango Ave.
Warren, PA 16365
(814) 726-1441
www.wcconservation.net

More Work to Do

- Administrative Delegated Programs
- Develop Conservation Education Opportunities at Hatch Run Conservation Demonstration Area
- Provide Technical Assistance
- Conservation Education & Outreach



Washington County Conservation District

Other Accomplishments

- 4 Low Volume Road projects completed, at a cost of \$221,048.47
- 4 Dirt & Gravel Road projects completed, at a cost of \$369,496.76
- Coordinated a research project with Washington & Jefferson College, on reclaimed and untouched mine waste sites, on plant uptake of heavy metals and the influence the food web.
- Installed Agricultural Best Management Practices on multiple farms. Including 7 animal crossings, over 2,800 feet of streambank fencing, and 390 feet of animal trail.

Grant Money Brought to the County From Conservation District Efforts:

\$58,250.00



2018 Feature Accomplishment

Washington County Conservation Center

Resource Challenge

The WCCD was notified in 2016 that our lease would not be renewed at our prior location. We began work on the Washington County Conservation Center, which would house our office and the USDA NRCS and FSA offices for Washington County.

Project Summary and Results

The Washington County Conservation Center was completed in the summer of 2018. The WCCD officially moved into the office on July 23, 2018. The USDA offices moved on July 31st. We are now all located in one building, making it a convenient stop for residents to get information from all of our agencies.



Key Project Partners

We worked closely with the Washington County officials and the USDA to make this project happen.

Contact Information

John Hewitt
Interim District Manager

William Iams
Board Chairman

50 Old Hickory Ridge Road, Suite 1
Washington, PA 15301
(724) 705-7098
www.pawccd.org

More Work to Do

- Complete Growing Greener Funded projects for Agricultural Best Management Practices on 3 farms.
- Continue to monitor excess erosion on local golf courses and submit grants to complete restoration work.
- Update and distribute our small site Erosion & Sedimentation packet to local landowners and municipalities.
- Hold manure management workshop and Washington County producers workshop in 2019.

Wayne Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Assisted our Maple Producer's Association with a display that won 1st place at the PA Farm Show
- Successful Maple Tour
- Successful seedling sale
- A variety of educational programming for the public

Hired a full-time Dirt, Gravel and Low Volume Road Program Specialist

Resource Challenge

The Wayne Conservation District receives just shy of \$600,000 per year in Dirt, Gravel and Low Volume Road funding. In order to provide this program the time it deserves we were in need of a full time position to run it.

Project Summary and Results

A proposal was made to our Board of Commissioners and Board of Directors here in Wayne County during the late months of 2017 to hire on a full time Dirt, Gravel and Low Volume Road Specialist to the District team. We would pay the salary and benefits out of the program administrative and educational funds. The Boards both agreed with and approved our request and we were able to hire Kris Krager on as our new Specialist. We couldn't be more pleased with the outcome. Kris is doing an excellent job in his position here and our municipalities are much better served with a team member who is dedicated solely to this program.

Key Project Partners

- Center for Dirt and Gravel Roads
- State Conservation Commission
- Wayne County Commissioners

Contact Information

Jamie Knecht
District Manager

Paul Kowalczyk
Board Chairman

Wayne County Park Street Complex
648 Park Street
Honesdale, PA 18431
(570) 253-0930
www.waynecountypa.gov

More Work to Do

- Agricultural demonstration areas and expansion of the types of Ag that are possible in Wayne County
- Assist in the development of the funded Wayne County Agriculture Plan
- Improve and expand our educational programming for landowners, contractors, foresters, etc. through multiple "conservation corner" type of trainings throughout the year
- Improve our physical office space for environmental education through grant funding and work completed by the District team

Grant Money Brought to the County From Conservation District Efforts:

- \$600,000 in DGLVR Funding
- \$700 PA Envirothon Funding
- \$4,000 PACD Mini-Grants



Westmoreland County Conservation District

Other Accomplishments

- Hosted a Next Generation Farm Summit for 90 people
- Completed 30 minute video on stormwater basin retrofits
- Conducted a green infrastructure bus tour
- Monitored for the West Nile Virus at 73 locations in the county and completed one tick survey
- Held an Agricultural E&S workshop and two manure management workshops
- Partnered with other agencies and districts to have an annual Soil Health Conference and three pasture walks.
- Awarded 14 Dirt, Gravel, Low Volume Road Projects
- Completed multiple water quality stream improvement projects, including: stream mitigation, basin infiltration, tree plantings, streambank stabilization, flood control, and lake restoration

Grant Money Brought to the County From Conservation District Efforts:

• DGLVR Program	\$428,000
• Growing Greener	\$234,000
• Private Funders	\$307,000
• PennDOT Mitigation	\$656,000
• DCNR	\$29,500



2018 Feature Accomplishment Westmoreland County Integrated Water Resources Plan (IWRP)



Resource Challenge:

To create a sustainable framework for water resource management for planners, municipal officials, and residents of the county.

Project Summary and Results

The IWRP meets the requirements of PA Stormwater Management Act 167, inventories and evaluates our county-wide water resources, provides guidance for landowners and municipalities involved in development and redevelopment, presents an action plan to address issues and challenges to sustain our water resources into the future, and includes a model stormwater ordinance. The county has joined the online PA IWRP Flowchart Tool to guide people through the various development processes in our county. Learn more at: www.westmorelandstormwater.org

Key Project Partners

Westmoreland County Commissioners
Westmoreland County Planning Department
Ethos Collaborative, LLC
Participants of the Watershed Plan Advisory Committee

Contact Information

Gregory Phillips
District Manager

Ronald Rohall
Board Chairman

218 Donohoe Road
Greensburg, PA 15601
(724) 837-5271
www.wcdpa.com

More Work to Do

- Ensure countywide adoption of the model stormwater management ordinance by each municipality
- Update and expand IWRP efforts and tools
- Tick surveys in the spring and fall to determine exposure to ticks and Lyme Disease
- No mow, let it grow education program for riparian buffers
- Urban stormwater retrofit project in Vandergrift and other communities
- Install permeable paving parking area on Donohoe Center campus
- Complete a "Write your own Ag Erosion Plan" workshop
- Complete rehabilitation of Ann Rudd Saxman Nature Park
- Complete multiple Growing Greener Projects

Wyoming County Conservation District

Other Accomplishments

- Contractor's Workshop
- Seedling Sale
- Arbor Day Seedlings to Students
- Envirothon
- Conservation Field Days
- Ag Day
- Wyoming County Community Fair
- Banquet
- School Programs & Various Outreach

Grant Money Brought to the County From Conservation District Efforts:

- Dirt, Gravel and Low Volume Roads
- Conservation Fund
- PA State Envirothon
- Growing Greener II
- Chesapeake Bay Special Projects Program
- PA Farmland Preservation Program

2018 Feature Accomplishment

Henningstead Holstein Livestock Manure Storage and Heavy Use Area

Resource Challenge

- Provide a stabilized area to feed animals and store manure during the winter months and poor weather conditions
- Stop the erosion of soil and traveling of nutrients into the waterways of the commonwealth

Project Summary and Results

- Installation of a manure storage structure capable of holding four months worth of manure
- Installed heavy use areas for livestock
- Construction of reinforced animals walkways, stream crossing & access roads
- Installation of vegetated treatment areas and filter strips and riparian buffer along the entire length of stream
- Installation of rain gutters

Key Project Partners

- The Conservation Fund
- Williams Transco Atlantic Sunrise Environmental Stewardship Program
- Natural Resource Conservation Service
- Chesapeake Bay Foundation
- Coldwater Heritage Partnership

Contact Information

Douglas Deutsch
District Manager

Dorne White
Board Chairman

21 Hollowcrest Complex
Tunkhannock, PA 18657
(570) 836-2589 ext. 406
www.wccdpa.org

More Work to Do

- Stabilize streambanks and reduce sediment pollution to the Susquehanna River watershed
- Reduce nutrient pollution to the Susquehanna River watershed
- Increased ESM training for municipalities with Dirt and Gravel Roads
- Continue to monitor pipeline and all construction activities for loss of sediments.
- Preserve more farmland



York County Conservation District

2018 Feature Accomplishment

Other Accomplishments

- Implement the Erosion & Sediment Pollution Control Program.
- Assist landowners & farmers, providing conservation and nutrient management planning, as well as technical & financial assistance for BMP implementation.
- Promote Watershed Stewardship by providing education, technical and financial assistance via partnerships at the grass-roots level.
- Coordinate 4 Envirothon events for 1,000 students in grades 3 through 12.
- Implement \$225,000 Exelon Stream & Habitat Improvement Program w/ landowners and local governments.
- Host our annual Seedling Sale & Clay Shoot Fundraiser to support education efforts and engage donors/sponsors.
- Carefully manage budgets in difficult economic times with direction from our Board of Directors & County Commissioners.

Grant Money Brought to the County From Conservation District Efforts: \$ 1,000,000



York Co Dirt, Gravel & Low Volume Road Program

Resource Challenge

Dirt, gravel and low volume roads traverse all of our rural landscape from forests to farmlands. These roads frequently cut across natural drainage patterns and convey run-off to nearby streams, resulting in sediment pollution, flooding and reduced infiltration.



Project Summary and Results

York County's Dirt, Gravel & Low Volume Road Program is available to eligible public road maintenance entities, providing financial & technical assistance. The goal of the program is to improve driving surface while reducing the impact of storm runoff by improving drainage.

Key Project Partners

Penn State Center for Dirt & Gravel Road Studies
State Conservation Commission
Applicants—municipalities, PennDot, PA Game Commission, PA Fish & Boat Commission
Quality Assurance Board comprised of representatives from PA Fish and Boat Commission, Natural Resources Conservation Service and District Board members.

Contact Information

Mark Kimmel
District Manager

Jeffrey Gossert
Board Chairman

118 Pleasant Acres Road
York, PA 17402
(717) 840-7430
www.yorkccd.org

More Work to Do

- Protect our soil and water resources via education, permitting plan review, field inspection, complaint response and technical and financial assistance to our clients and cooperators.
- Seek out resources to address 125 cooperator requests for planning assistance covering 34,000 acres.
- Support collaborative efforts like the York County Stormwater Authority Implementation Plan.

