



PACD

PENNSYLVANIA ASSOCIATION OF
CONSERVATION DISTRICTS, INC.

Highlights of Conservation District Activities 2017

Presented by PACD

Conserving Natural Resources for Our Future

Adams County Conservation District

2017 Feature Accomplishments

Other Accomplishments

- Performed 265 E & S inspections with 85% compliance
- Re-assessed 10 streams to upgrade stream designation and protective uses.
- Sponsored the Adams County Envirothon programs involving 104 middle school students and 60 high school students
- Installed 3 acres of riparian buffers through community volunteer projects.
- Installed agricultural BMPs including 21 waterways, 2 diversions and 3 terraces
- Provided technical assistance on EQIP projects that brought an additional \$232,767.00 into Adams County



**Grant Money Brought to the County through Conservation District Efforts:
\$1,119,092.02**



Dirt, Gravel & Low Volume Road Maintenance Program

Resource Challenge

Sediment is the largest pollutant by volume to the waters of the Commonwealth of Pennsylvania. Unpaved roads not only generate sediment, but also act as collectors for runoff and sediment from adjacent land uses resulting in increased flood flows in streams, and transport of sediment and other pollutant into local waterways.

Project Summary and Results

Technical assistance and funding to install driving surface aggregate, new culverts, underdrains, ditching, and stormwater management to address problems on local roads that adversely affect water quality.

- Six project sites completed in 2017- \$229,703.48
- Three projects underway- \$229,899.50
- Three new contracts signed- \$155,382.50

Key Project Partners

NRCS; Fish and Boat Commission; Germany, Union, Franklin and Tyrone Townships.



Contact Information

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Interim District Manager

Charles Bennett
Board Chairman

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Gettysburg, PA 17325
(717) 334-0636
www.adamscounty.us

More Work to Do

- Promote the use of stormwater management BMPs to meet MS4 requirements
- Promote agricultural compliance through the development and implementation of Manure Management and Ag E & S plans
- Assist with the installation of agricultural BMPs by providing technical and financial assistance to landowners to minimize soil erosion and nutrient runoff
- Install 20 acres of riparian buffers

Allegheny County Conservation District

Other Accomplishments

- Acting as project manager for \$1,170,000 Milk Run abandoned mine drainage treatment project, the first reclamation in-lieuity agreement in the Oil and Gas Program between DEP and Range Resources, which could remove Montour Run from impaired streams list for aluminum
- Organized and hosted Individual Nutrient Management certification for seven attendees
- Reviewed and issued 166 GP authorizations
- Reviewed and issued 155 NPDES permit authorizations
- Awarded 12 CLIP grants for local watershed groups and non-profits for water quality improvement

Grant Money Brought to the Allegheny County From Conservation District Efforts:
\$458,460.00



2017 Feature Accomplishment DCNR Riparian Forest Buffer Grant

Resource Challenge

Reforestation of urbanized streams in Allegheny County



Project Summary and Results

Grant covers the planting of ten acres of riparian buffers over the next five years in five watersheds, and we're 30% complete.

- *Spring planting 200 trees in Monroeville along Turtle Creek in Valley Park*
- *Fall planting 400 trees in South Park County Park along Catfish Run, a tributary to Peters Creek*
- *Over 50 Volunteers including park rangers, watershed groups, area residents*
- *Support provided from home municipalities with resources tools, money, in kind*

Key Project Partners

Municipality of Monroeville
Municipality of Bethel Park
Allegheny County Parks
Allegheny Parks Foundation
Turtle Cree Watershed
Peters Creek Watershed Association

Contact Information

Janet Lauer
District Manager

Donald Newman
Board Chairman

River Walk Corporate Center
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Pittsburgh, PA 15219
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www.conservationcenter.org

More Work to Do

- Complete DCNR Riparian Grant tree plantings
- Increase baseline stream monitoring
- Update strategic plan
- Continue outreach projects with partners
- Issue permits in a timely fashion
- Continue to seek opportunities for BMP implementation
- Assist municipalities with meeting MS4 permit requirements
- Continue CLIP Grant program
- Find new and innovative ways to support watershed groups through Allegheny Watershed Alliance

Armstrong County Conservation District

2017 Feature Accomplishment

Mobile Environmental Display



Resource Challenge

One of the goals identified in the 2017 Strategic Plan of the District called for a new and innovative Education and Outreach effort to promote the various projects and programs of the District.

Project Summary and Results

The Mobile Environmental Display (MED) was debuted at the Dayton Fair in August. In the two months since its debut, the MED has visited schools, festivals, and fairs in 6 other counties throughout Western PA. To date, over 5,500 persons have visited the MED to learn about the water conservation and other programs available through your local Conservation District.

Key Project Partners

Colcom Foundation
EQT Foundation

ACD Clean Water Fund
ACD DGLVR Fund

Contact Information

David Rupert
District Manager

Spurgeon Shilling
Board Chairman

Armsdale Administration Building
124 Armsdale Road
Kittanning, PA 16201-3738
(724) 548-3425
www.armstrongcd.org

More Work to Do

- Continue working with our municipal partners to implement the Dirt, Gravel, and Low Volume Road Program
- Continue working with DEP, interested watershed groups and landowners to design and construct AMD treatment facilities to improve water quality
- Continue working with interested individuals and organizations to implement projects and programs to improve the environment in Armstrong County

Other Accomplishments

- Began work on the Huling Run Aluminaide Mine Drainage Treatment Facility
- Began work on the Campbell Run Ag BMP Project
- Began work on the ACD-AVLT Phase II NPS Control Project
- Completed the RING Streambank Stabilization Project
- Completed the Scout Run Aquatic Organism Passage Structure Project
- Completed the McCandless AMD Remediation NPS Control Project
- Completed the ACD-AVLT Phase I NPS Control Project
- Completed the Carnahan Run Phase II – Ag BMP and Streambank Stabilization Project



Beaver County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- CREP Field Day and Workshop
- Chapter 102/105 Permit Workshop
- E&S BMPS for Contractors Workshop
- Over 1200 students attended classes at the BCCD Environmental Center free of charge.



Grant Money Brought to the County From Conservation District Efforts: \$28,667.00



North Fork Little Beaver Creek Streambank/Habitat Project

Resource Challenge

To address streambank instability and loss of habitat due to substantial erosion that led to large quantities of sediment pollution to the North Fork Little Beaver Creek.

Project Summary and Results

A series of six structures were installed that protect approximately 500 feet of streambank. Six log vanes with J-hooks help stabilize the banks by directing flows toward the middle of the channel and create some habitat value along the edge of the device. Six parallel root wads dissipate energy and protect the bank against large debris and ice that could harm the bank as well as provide a bench to prevent undercutting. The root wads provide excellent habitat.

The project helps to ensure that the North Fork's designated uses are maintained and protected. 500 linear feet of streambank were stabilized, aquatic habitat was enhanced and sedimentation to the creek is reduced by 55 tons annually. The project also addressed the loss of property and enhances the overall health of the watershed.

Key Project Partners

PA Department of Environmental Protection
Fryer Excavating, LLC

Contact Information

James Shaner
District Manager

Mike Price
Board Chairman

156 Cowpath Road
Aliquippa, PA 15001
(724) 378-1701

www.beavercountyconservationdistrict.org

More Work to Do

- DGR Road Improvement Projects
- Stream Improvement Projects
- Stormwater and Timber Harvest Workshops
- Ag Workshops: Manure and Nutrient Management
- Farm Enhancement Projects



Bedford County Conservation District

Other Accomplishments

- Considering no-till planting essential in managing erosion and nutrient run-off from farmlands, BCCD maintains a no-till equipment rental program that delivers corn planters and drills to cooperators with combined totals of over 7500 acres planted annually
- The BCCD drop-off recycling center annually recycles over 200 tons of fiber, plastic, aluminum, bi-metal, glass, oil, antifreeze and electronics



2017 Feature Accomplishment

Sheirer Road Low Volume Road - Little Wills Creek Streambank and Habitat Project

Resource Challenge

Londonderry Township was concerned about accelerated streambank erosion that threatened to undermine Sheirer Road along Little Wills Creek, a High Quality Coldwater Fishery.

Project Summary and Results

The township contacted the Conservation District inquiring about a DGLVR program project to address the erosion problem seen in the 'before' photo to the right. After a site visit and consultation with staff from the Center for Dirt and Gravel Road Studies, a plan using habitat improvement and streambank stabilization structures was chosen. With design and permitting done by Western PA Conservancy, equipment from Londonderry Township, and labor by WPC and Trout Unlimited volunteers, construction was completed in two days, installing 3 multi-log vanes, 3 root wad structures and 2 large log-framed deflectors. Total cost was less than \$17,000 with funding provided through the Dirt, Gravel, and Low Volume Road Program. Trout Unlimited volunteers later planted native trees, shrubs, grasses, and forbs provided by Keep Bedford County Beautiful to enhance the riparian zone.

Key Project Partners

Bedford County Conservation District, Londonderry Township Supervisors, Western Pennsylvania Conservancy, Fort Bedford Trout Unlimited, Keep Bedford County Beautiful, CDGRS

Sheirer Road/Little Wills Creek



Before Project



After Project

**Grant Money Brought to the County From Conservation District Efforts:
\$1,500,000**

Contact Information

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District Manager

James Bence
Board Chairman

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www.bedfordcountyconservation.com

Berks County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- “Paint the Rain” rain barrel contest



- Tire Collection – over 50,000 lbs. of tires
- Don Hartman Conservation Leadership School
- Irish Creek Stream Restoration and Riparian Buffer planting

Grant Money Brought to the County From Conservation District Efforts:

Over \$750,000 in Growing Greener and Dirt Gravel Low Volume Road funding.



Berks County Source Water Protection

Resource Challenge

BCCD staff has worked to implement the County Source Water Protection Plan. Community water systems use a variety of surface waterways and groundwater wells and springs to provide safe, clean drinking water to about 70% of Berks County residents

Project Summary and Results

Along with source water protection, the program will assist participants with some storm water management solutions required by Municipal Separate Storm Sewer System (MS4) requirements.

Key Project Partners

Berks County Water & Sewer Association
Berks County Planning Commission
Spotts, Stevens, and McCoy

Contact Information

Dean Druckenmiller
District Manager

Piper Sherburne
Board Chairman

Agricultural Center
1238 County Welfare Road, Suite 200
Leesport, PA 19533
(610) 372-4657

www.berkscd.com

More Work to Do

- Spotted Lantern Fly Education and Outreach
- Riparian Buffer installation and coordination
- Water Quality Monitoring in Maiden Creek Watershed
- Trout In The Classroom assistance
- Zartman Farm Stream Restoration

Blair County Conservation District

Other Accomplishments

- Two newly created Full Time Positions were filled in 2017; one as an Ag Conservation Planner and one as an MS4 Stormwater Coordinator (which is funded through contributions from Blair MS4 Municipalities)
- Final design, permits and bidding progressed for the District's Property now titled "NatureWorks Park". Construction will begin in 2018



- Facilitate the purchase of Ag Conservation Easements now totaling 50 farms and over 7,500 acres!

Grant Money Brought to the County From Conservation District Efforts: \$1,010,667



2017 Feature Accomplishment

Juniata River Basin/Green Infrastructure Plan
NFWF Grant approved in 2013 and completed in 2017

Resource Challenge

Blair Conservation District and Blair County's MS4 municipalities desired to collaborate on developing a plan to improve urban stormwater management and promote green infrastructure alternatives.

Project Summary and Results

The grant was completed in 2017 resulting in:

The creation of a Stormwater Specific Website for Blair County landowners, resource professionals, educators and citizens found at www.CleanBlairWater.org;

The establishment of 8 continuous monitoring stations (Soundes) at upstream and downstream locations of the MS4 Area. Baseline data was created and water quality monitoring will continue to be collected post grant for use by the permitted municipalities;

The design and construction of 5 Green Alternative Stormwater Facilities with educational signage.

Key Project Partners

National Fish and Wildlife Foundation; Blair County MS4 Municipalities; Alliance for the Chesapeake Bay; Hollidaysburg, Bellwood-Antis, Bishop Guilfoyle and Holy Trinity Teachers and Students; local engineering firms and design consultants

Contact Information

Donna Fisher
District Manager

Harold Bailey
Board Chairman

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www.blairconservationdistrict.org

More Work to Do

- Continue to Promote Urban Ag Initiatives to create knowledge and markets for local food production, distribution and enjoyment
- Work with Chamber of Commerce to Promote Sustainable Blair County Program to assess local businesses and encourage sustainable practices
- Continue to provide local training for Ag Producers in the completion of Ag E&S and Manure Management Plans

Bradford County Conservation District

Other Accomplishments

Education and Outreach

Workshops / Events

- Agricultural Field Days / Farm Tours
- Agricultural Open Door Days
- DGLVR Municipal Update Meeting
- DGLVR Contractors Workshop
- DGLVR 2-Day ESM Training
- DGLVR Demonstration Project
- DGLVR Statewide Annual Conference
- Emergency Stream Intervention Demonstration Project
- Pond Ecology Workshop
- Pond Construction and Permitting Workshop
- Advanced E&S Workshop for Loggers
- Hosted first Earth Day Event in 27 Years
- Chestnut Pollination

Youth Education

- 18 Teams participated in the County Envirothon
- Instituted elementary Envirothon
- Green Career Day
- Worked with libraries to offer hands on education
- My Growing Tree Program
- Youth Field Days
- FFA Soils and Land Use Competition
- Camp programs

2017 Feature Accomplishment

PA WIP Sediment and Nutrient Reduction

Resource Challenge

Pennsylvania is faced with the challenge of improving water quality within the Chesapeake Bay Watershed, in large part by reducing sediment and nutrient inputs. Locally, BCCD contributes to improved watershed health by addressing 3 Key Performance Indicators (KPIs): Water Quality, Practices Implemented, and People Reached. Beyond improving the natural resources of Bradford County, BCCD strives to assist PA in improving the overall health of the Chesapeake Bay.

Project Summary and Results

- BCCD employs 15 full and 2 part-time staff and consists of an administrative, agricultural, and technical team. Field staff on the ag. and tech. teams work with landowners, farmers, watershed organizations, and cooperating agencies to secure funding for multi-faceted watershed projects. In 2017, 11 stream, 12 DGLVR, and 46 agricultural conservation practices were completed. Accomplishments from those projects are as follows:
 - .85 miles of stream stabilized
 - 46 agricultural conservation practices
 - 1 miles of Dirt & Gravel Roads stabilized
 - 1,728 Tons of sediment reduced
 - 4,322 lbs. of Nitrogen reduced
 - 1,728 bs. of Phosphorus reduced

Grant Money Brought to the County from Conservation District Efforts:

\$2,773,407

Over 6,949 people reached in 2017 through environmental education

Contact Information

Cathy Yeakel
District Manager

Keith Heimbach
Board Chairman

Stoll Natural Resource Center
200 Lake Rd., Suite E
Towanda, PA 18848
(570) 265-5539
www.bccdpa.com

BCCD staff participate on numerous statewide and local committees promoting:

- DGLVR – Policy and Planning Committee
- DGLVR – Education and Outreach Committee
- Northern Tier Regional Planning and Development Commission – Economic Development Advisory Committee
- Northern Tier Hardwood Association
- PA State Envirothon Committee
- Endless Mountains Resource Conservation and Development
- Chamber of Commerce
- Upper Susquehanna Coalition voting member and stream team member
- PACD Advisory Committee

Key Project Partners

USDA NRCS, Wysox Creek WA, Sugar Creek WA, Bradford County, PA DEP, USACE, CBF, USC, DCNR, PAGC, PAFBC, PALMS, NFWF



Bucks County Conservation District

Other Accomplishments

- 2nd Master Watershed Stewardship Program
- Lake Luxembourg Conservation Pool - Working with County Parks & Rec and General Services to implement large-scale project that will reduce nutrient and sediment pollution in Lake Luxembourg
- Doylestown Hospital Heart Institute Expansion Project
- Pennsylvania Turnpike/Interstate 95 Interchange Project
https://en.wikipedia.org/wiki/Pennsylvania_Turnpike/Interstate_95_Interchange_Project
- Conducted 24 outreach events reaching approximately 630 people on topics including watershed management and nonpoint source pollution prevention
- Agricultural Conservation Plans developed for almost 3,000 acres in the Tohickon Watershed.
- Approved 105 NPDES Permits
- Reviewed 983 E&S Plan Sets
- Conducted inspections of 166 NEW Construction sites, and 1,446 inspections in total.

Grant Money Brought to the County From Conservation District Efforts: \$385,334.65

Dirt & Gravel Roads Contract Awards: \$125,772.60

Low Volume Roads Program Awards: \$297,667.40



2017 Feature Accomplishment

BCCD Regional Agricultural Watershed Assessment Program Initiative (RAWAPI)

Countryside Farm Improvements

Resource Challenge

Water Quality concern due to untreated runoff from manure storage and animal concentration areas from a beef and poultry family farm.

Project Summary and Results

An Act 38 nutrient management plan was developed for the farm operation of over 400 acres, planning for the efficient use of manure application while protecting environmentally sensitive areas.

Best management practices were installed on the home farm to address additional water quality concerns. A



Countryside Farm Manure Storage - BEFORE



Countryside Farm Manure Storage - AFTER

roofed manure storage, a roofed animal heavy use area, and a vegetative treatment area are now installed and functioning to protect the Tohickon Watershed.

Key Project Partners

PACD Engineering Assistance, Bucks County NRCS office, Chester County Conservation District

Contact Information

Gretchen Schatschneider

District Manager

Jeffrey Garton

Board Chairman

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Doylestown, PA 18901

(215)-345-7577

www.bucksccd.org

More Work to Do

- Complete \$200,000 of Agricultural BMPs funded by BCCD RAWAPI grant
- Water Chestnut/Invasive Species Management - Awarded funding for invasive water chestnut control in portion of Upper Tohickon watershed draining to Lake Nockamixon
- Equine-focused agricultural conservation outreach efforts - BCCD will continue its equine outreach efforts, including manure management trainings reaching 40 equine farmers
- SARE grant - If awarded, complete a study in partnership with Delaware Valley University and Penn State assessing contamination of seasonal high water tables from manure stacking

Butler County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Youth Education Outreach
- Manure Management Outreach
- Agricultural Erosion Control Outreach
- Provided technical assistance and funding for 3 Dirt and Gravel Roads Projects and 3 Low Volume Roads projects.
- Transitioned from a county-affiliated District to an independent District.

Grant Money Brought to the County From Conservation District Efforts:

Growing Greener
PACD Mini Grant
PACD Nonpoint Source Mini Grant
Envirothon Mini Grant

Little Buffalo Creek Ag BMP

Resource Challenge

Agriculturally impaired watershed

Project Summary and Results

The project was provided partial funding for the planning, design, and implementation of a Heavy Use Area and manure storage for a dairy farm located in the Little Buffalo Creek (HQ-TSF).

This dairy farm is now able to provide a heavy use area for 60 head as well has a manure storage facility which enables the farmer to spread manure on fields in a more responsible and controlled manner.

Key Project Partners

Thiele Farm, NRCS, and PACD

Contact Information

Ian Harrell
District Manager

Charles Stowe
Board Chairman

122 McCune Drive
Butler, PA 16001
(724) 284-5270
www.bccdonline.org

More Work to Do

- Continue to improve and grow the youth outreach
- Provide training for current District Staff
- Provide training
- Work on a strategic plan
- Work with neighboring Districts



Cambria County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Building partnerships and improving the watershed through working collaboratively with Nanty Glo Borough, Nanty Glo Sportsmen, Pristine Resources, Cambria County Conservation and Recreation Authority and PA Fish & Boat Commission

Grant Money Brought to the County From Conservation District Efforts:

DEP Growing Greener Funding: \$87,057

PA Fish & Boat Commission: \$3,000

Nanty-Glo Borough Flood Control Restoration Project

Resource Challenge

Stream Bank Erosion

Project Summary and Results

Project improved nearly 4000 linear feet of the South Branch of Blacklick Creek by stabilizing streambanks and installing devices such as modified mounds, log faced stone deflectors, sawtooth deflectors, rootwad deflectors and random boulders. Results of the project include a reduction of sediment and improvement of fish habitat by the utilization of structures and transport of sediment through the flood control project area.

Contact Information

John Dryzal
District Manager

Dennis Beck
Board Chairman

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Ebensburg, PA 15931
(814) 472-2120
www.cambriacountypa.gov

More Work to Do

- Additional structures placed in the flood control project
- Stream bank restoration on Davis Run, a small tributary of the South Branch
- Removal of refuse material along the stream banks upstream of the flood control project in Nanty Glo Borough



Cameron County Conservation District

2017 Feature Accomplishment

Cameron County Watershed Restoration

Resource Challenge

Cameron County is blessed with pristine water but the main issue in the county is erosion and sedimentation. This is a continued effort to do low cost highly effective streambank stabilization while creating high quality instream aquatic habitat

Project Summary and Results

Installation of various streambank stabilization/fish habitat enhancement structures including multilog deflector, modified muddsill criebwalls, log crossvanes, log framed stone deflectors

In 2017 six sites were completed rehabilitating approximately 2500 feet of streambank halting many tons of sedimentation from entering the Chesapeake Bay while providing excellent habitat.

Since 2006 the District has completed nearly 80 projects restoring over 3 miles of eroded streambank.

Key Project Partners

PA Fish and Boat Commission
Bucktail Watershed Association

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. Trout have returned to reaches of that watershed that haven't seen aquatic life in over 50 years
- 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:

2017: \$821,309.00

**Past 10 years:
\$2,536,541.00**

Contact Information

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District Manager

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Board Chairman

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(814) 486-2244
www.cameroncd.org

More Work to Do

- Continue efforts on streambank stabilization and fish habitat enhancement
- Continue to work on the Sterling Run Restoration. Funding has been acquired for construction of 2 more passive treatment systems. Likely 2 more will be needed to completely cleanup the drainage
- Work with more farmers to get better management of farms



Carbon County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Hosted the 2017 Carbon Awareness Meeting
- Conducted 65 Erosion and Sedimentation Control Plan reviews
- Conducted 14 NPDES permit Reviews and over 400 site and complaint inspections
- Approved 2 Dirt and Gravel Road contracts and 2 Low Volume Paved Road contracts for a total of \$138,823.00 dollars awarded to local municipalities toward road projects
- Hosted over 725 students at our week long Envirothon Programs at our Environmental Education Center
- Our EEC hosted over 6,000 people over 159 school/public programs in 2017
- 2017 Conservation Camp at Hickory Run State Park

Grant Money Brought to the County From Conservation District Efforts: \$215,000



Nesquehoning Creek Stream Bank Restoration Phase II

Stream Channel (Before)



Stream Channel (After)



Project Goals

The overall goals of the project were channel stabilization, reduced bank erosion, reduced sediment loading, reduced flooding impacts, protection of infrastructure, etc.

Project Summary and Results

The Phase 2 construction efforts consisted of approximately 900 LF of stream bank/berm regrading, along with the construction of a rock toe revetment, in order to stabilize the south bank.

Key Project Partners

Carbon Conservation District (grantee)
Skelly and Loy, Inc. (engineer/contractor)
Kovatch Enterprises (landowner).

Contact Information

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District Manager

Josiah Behrens
Board Chairman

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Lehighton, PA 18235
(610) 377-4894, ext. 4
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
- 2018 Carbon Awareness Meeting
- Continue to offer school and public programs at our Environmental Education Center
- 2018 Envirothon Week at the Environmental Education Center
- 2018 Conservation Camp at Hickory Run State Park

Centre County Conservation District

2017 Feature Accomplishment

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

Flood Damage Projects Completed

Resource Challenge

Several communities were severely impacted when 8 to 10 inches of rain fell in a four-hour period on October 20, 2016.

Project Summary and Results

The Centre County Conservation District and Centre County Board of Commissioners secured \$187,800 in grant funding to complete three projects affecting ten landowners in the Coleville, Julian and Howard areas. These projects involved stream stabilization, rehabilitation and sediment deposition removal where homes were directly impacted by the flooding.



Key Project Partners

Centre County Commissioners, USDA Natural Resources Conservation Service, PA-DEP Bureau of Waterways Engineering and Wetlands/Stream Improvements, and Steven Krieger Excavating of Saxton, PA

Contact Information

Robert Sweitzer
District Manager

Robert Shannon
Board Chairman

414 Holmes Avenue, Suite 4
Bellefonte, PA 16823
(814) 355-6817
www.centrecountypa.gov

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

- 1,000 trees and shrubs planted on over 9 acres for CREP
- 3,800 ft of livestock fencing installed for CREP
- 2,000 trees and shrubs planted on over 9 acres for Tree Vitalize
- 13,843 l.f. of level lip spreaders installed in partnership with Stroud Water Research Center
- 17,499 l.f. of Ag field BMP's installed in partnership with Stroud Water Research Center
- \$345,960 in contracts awarded for 3 projects in the Dirt and Gravel Low Volume Road Program

Grant Money Awarded to Chester County From Conservation District Efforts: \$3,797,439



2017 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 non-traditional funding through affiliations with both governmental and private partners alike. Because of these partnerships we were able to accomplish the following:

Ag Team: 172 Ag BMPs implemented in 2017; in partnership with NRCS, \$2 million in USDA funds were obligated in 2017 for EQIP and RCPP that will result in a further 370 BMPs installed; 104 farms visited as part of the Chesapeake Bay Reboot - 69% had conservation plans and 76% had manure/nutrient management plans; 79 BMPs were installed on five farms using DCED funding; and \$333,668 was obtained from Chesapeake Bay Special Projects to fund BMPs on ten farms.

Urban Team: 440 preconstruction meetings/engineer meetings; 240 completeness reviews; 175 new plan reviews; 140 revised plan reviews; 3005 total project acres; 845 total disturbed acres; 44 general NPDES permits issued; 53 individual NPDES applications reviewed; 742 total site inspections; 87 complaints investigated; and 51 NPDES permits terminated.

Admin Team: 3 TeamAg, Inc./ PennVEST projects administered totaling \$1,408,226 in Lancaster and Chester Counties.

Key Project Partners

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

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Managing Director

Tom Brosius
Board Chairman

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Kennett Square, PA 19348
(610) 925-4920
www.chesco.org/conservation

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 secure increased funding for BMPs in the Chesapeake Bay watershed
- Year 2 of Chesapeake Bay Visits
- Provide administration for 5 additional PennVEST projects in conjunction with TeamAg, Inc.

Clearfield County Conservation District

Other Accomplishments

- Sold 22,150 trees and shrubs since 2008 in our Annual Tree Sale
- Hosted two Bounty from the County dinners highlighting Clearfield County agricultural products
- Held 13 Conservation Celebrations with nearly 200 families attending every year
- Conducted 5 Family Fishing Programs in 2 years with 250 attendees
- Became a Fishing Tackle Loaner Site w/ PFBC in 2017
- Hosted the first Conservation Camp in 2017, a 3 day long day camp for youth in grades 4, 5, & 6
- Distributed \$2,866,979 in grants to municipalities through the Dirt, Gravel and Low Volume Road Program since 1999 improving 83 miles of road
- Successfully completed nearly 500 agricultural education farm visits
- Began an annual workshop program covering fruit tree and fruiting bush pruning, manure management, contractors, composting, and farm lane stabilization
- Administration of the Chapter 102 Delegation for Erosion and Sedimentation Plan review and inspection
- Awarded thousands of scholarship dollars through the Claude Schickling Foundation since 1999 and the W.G. "Turk" Jones Memorial Trust since 1982 and paid the registration fee for our County Envirothon winners to attend the State Envirothon every year
- Hosted the annual County Envirothon and assisted at the State Envirothon every year
- Operation of 11 passive treatment systems for abandoned mine drainage restoration in 5 watersheds
- Completed 7 streambank stabilization/instream habitat projects since 2010
- Assisted Trout Unlimited with the 2017 West Branch Benchmark

Grant Money Brought to the County From Conservation District Efforts (not including Dirt & Gravel Road Funds):

\$1,669,875 in 2017
\$5,397,026 in total



2017 Feature Accomplishment

Deer Creek AMD Passive Treatment System Construction

Resource Challenge

Deer Creek is a tributary to the West Branch Susquehanna that is impaired by abandoned mine drainage. Fortunately, native brook trout are surviving in nearly the entire length of the stream with the exception of the final 3 miles. The final miles are the most severely degraded due to numerous deep mine discharges on Trib #4 known as the School Tributary.

Project Summary and Results

Studies have shown that a single treatment system on the School Trib should be enough to restore the final 3 miles of Deer Creek.

The treatment design was completed in 2015 and construction funding, in the amount of \$883,174, was secured from the EPA Section 319 Non Point Source program in 2017. As of December 2017 construction was nearly complete with some minor final details to be finished in 2018. At that point, the final 3 miles of Deer Creek should be restored and supporting wild brook trout. This in turn will increase the recreational value of the watershed and surrounding areas.

Key Project Partners

Clearfield County Conservation District, Trout Unlimited, DEP, Deer Creek Watershed Association

Contact Information

Susan Reed
District Manager

Michael Kennis
Board Chairman

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

More Work to Do

- Continue abandoned mine drainage restoration efforts as AMD is still Clearfield County's #1 source of pollution
- Increase environmental education efforts
- Educate legislators and public about the role of Conservation Districts and resource conservation
- Complete projects funded in 2017 including the installation of a canoe access in Westover, construct 2 additional passive treatment systems, install riparian buffer plantings, and complete 2 rain barrel workshops

Clinton County Conservation District

Other Accomplishments

- Conservation Summer Camp for 4th—6th graders with hands-on environmental education activities
- Other Conservation Education activities: Envirothon, Sixth Grade Conservation Field Days, Project Learning Tree, and Poster Contest
- Provided funding to landowners for development of manure management and Agricultural Erosion Control plans
- Water quality and biological sampling in Tangascootack and Fishing Creeks
- Completed agricultural Best Management Practices through a Growing Greener grant including design for barnyard improvements, 6520' of stream fencing, 5500' of exterior pasture fence, 1 stream crossing, and 1700' of stream habitat improvements and stabilization
- Promoted No-Till Drill and cover crop use for 29 farms planting 459 acres
- Provided funding to municipalities for 3 Dirt & Gravel and 1 Low Volume Road Projects

Grant Money Brought to the County From Conservation District Efforts:

\$206,981.00



2017 Feature Accomplishments

RCPP Project – Soil Health Promotion

The Clinton County Conservation District along with Centre, and Lycoming Conservation Districts have partnered with the Chesapeake Bay Foundation and the Natural Resources Conservation Service to implement farm conservation practices consistent with the goal of promoting soil health and improving “whole-farm” conservation performance. Promotion includes the implementation of conservation stewardship practices through the USDA NRCS, CSP program. Partners will encourage farmers to consider implementing soil management practices through outreach and educational activities.

Baseline Water Quality Data Program

Over 10,000 households in Clinton County rely on groundwater from private wells for drinking. In 2016, the County received a grant from the PA DCED to collect and analyze water samples from 54 private wells across the county in an effort to better understand current water quality conditions and assess the impact of topography and land-use practices on our resources.

The Conservation District, County Planning office, and Department of Environmental Protection, partnered with USGS, to accomplish this project.

The results will be released to homeowners in 2018, along with information on how to find solutions to any issues with their home well water quality.

Contact Information

Mary Ann Bower
District Manager

Charles Dotterer
Board Chairman

45 Cooperation Lane
Mill Hall, PA 17751
(570) 726-3798

www.clintoncountypa.com

Email: conserve@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 watersheds
- 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

Columbia County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Women in Agriculture Conference
- Environmental Education through:
 1. Camps
 2. Workshops
 3. Events
 4. Field Days
 5. County Envirothons
- Soil Health Conferences with Key Note Speakers demonstrating the importance of soil health
- DGLVR Program to prevent pollution from getting to our streams through good road drainage and surfaces

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



“GOOD WATER – GOOD LIFE”

WATER EDUCATION DAY

Recipient of the 2017 Governor’s Award for Environmental Excellence

Resource Challenge

Good Water = Good Life is an educational outreach effort to teach our county 8th graders how important good water is to our lives.

Project Summary and Results

In the last 3 years we have reached over 1500 – 8th grade students. Through this effort we have also reached out to the community to demonstrate the importance of good, clean drinking water by doing Drug Take Back events and distributing informational brochures to all hospitals, pharmacies, and schools in our county on how to dispose of medications properly – DO NOT FLUSH!

We feel these efforts have strengthened community awareness of water quality and how we need to protect our resources.

Contact Information

Maryruth Wagner
District Manager

Donald Edwards
Board Chairman

702 Sawmill Road, Suite 204
Bloomsburg, PA 17815
(570) 784-1310 x 9456
www.columbiaccd.org

More Work to Do

- Get BMP’s on the ground
- Promote Cover Crops
- Promote Water Quality
- Continue environmental education in our community

Crawford County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Completed county plat book
- Hosted two manure management workshops
- Completed bathymetric mapping on several county lakes
- Continued lake water quality monitoring program
- Continued 17th year of student riparian planting program; completing over 110 plantings
- Held over 45 educational programs
- Submitted and received two Growing Greener grants; funding 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: 1,089,389.51



Response to Hydrilla Infestation on Pymatuning Reservoir

Resource Challenge

The effects of a growing quantity of the invasive species, Hydrilla on Pymatuning Reservoir



Project Summary and Results

First spotted in 2010 during a routine aquatic vegetation survey, the highly invasive plant, Hydrilla not only caught the attention of the Conservation District, but other agencies as well. By 2014, it was clear that this bio-contaminant was on the path of destruction. Led by the Conservation District's Watershed Specialist, efforts to craft a response began quickly. After many collaborative meetings not only between local agencies but across state lines, and with the help of several grant sources, a strategy not to eradicate, but rather to manage this invasive is being implemented. The response consists of education, continued surveying and treatment. 2017 marks the second year of treatment with signs of promise of improvement.

Key Project Partners

Crawford County Conservation District, Dept. of Conservation & Natural Resources, PA Dept. of Agriculture, PA Dept. of Environmental Protection, US Army Corp of Engineers, PA Lake Management Society and Ohio Dept. of Natural Resources

Contact Information

Tracey J. Crawford
District Manager

Andrew Hyde
Board Chair

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

More Work to Do

- Initiate an agricultural/plain sect community outreach and implement agricultural best management practices
- Create a Master Site Plan implementation strategy to improve the District's education center and office facilities
- Seek to preserve additional county farmland
- Work to educate the public about stormwater management

Cumberland County Conservation District

Other Accomplishments

- **Monthly Water Testing Program**
- **DEP Chesapeake Bay Ag Inspections**
50 (5,508 acres) inspected
- **Manure Management Plans**
19 Plans, 7 Plans written at Manure Management Plan Workshops
- **Rain Barrel Workshops**
8 Workshops with stormwater education, 133 Rain Barrels, reached 290 people
- **Dirt, Gravel, and Low Volume Roads**
\$296,000 contracted for water quality improvements
- **Envirothon**
116 Students Competed
- **41st Annual Tree Seedling Sale!**

- **15th Annual Golf Tournament**

PACD Mini Grant: Conodoguinet Creek Watershed Snapshot

Event held once in each season to collect and analyze water samples on the main stem Conodoguinet Creek and its tributaries. Nonpoint source pollution education booths at each event that taught participants about urban and rural land use.



2017 Feature Accomplishment

Beetem Hollow Low Volume Road Project Penn Township, Cumberland County

Resource Challenge

Under-sized stream crossing: Caused extensive damage to stream banks, and entrenched road that caused ditch and road to wash into stream.

Wet Ditches and Road Base: Groundwater and spring seeps caused pavement to fail

Project Summary and Results

Installed a 12 ft bottomless box culvert, included stream restoration for Aquatic Organism Passage (AOP)

Installed 800 feet of underdrain to collect spring seeps.

Installed 550 ft x 18 ft French Mattress for groundwater in Road Base.



Key Project Partners

State Conservation Commission, Center for Dirt and Gravel Road Studies, Penn Township, Dickinson Township, Cooke Township, South Newton Township, Cumberland County Commissioners

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
- Install ag best management practices with \$200,000 Chesapeake Bay special project grant
- College interns will complete pre-sidedress nitrogen tests on nearly 2,500 acres of corn fields each year
- Continue to educate the farming community on the plan requirements for their farms

Dauphin County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Streambank Restoration- Hoffer Creek
- Streambank Restoration-Lynch Run
- Bear Creek AMD Passive Treatment System
- Deibler's Gap Rd Dirt and Gravel Road Improvements- 6,100' of road.
- Three Municipal Rain Barrel Workshops
- CBSP Grant- Funded the development of Conservation Plans for 18 farms
- Water Quality Monitoring at over 20 sites in Dauphin County as part of the ongoing Countywide Stream Assessment Program

Grant Money Brought to the County From Conservation District Efforts:
CBSP- \$120,350.00



Streambank Restoration-Deep Creek

Resource Challenge

Severely eroding streambanks causing sediment to enter the stream.

Project Summary and Results

Installation of streambank stabilization structures and a new stream channel along 1,300 feet of Deep Creek.

Two bankfull benches totaling 158'
18 log vanes
Relocation of 264' of stream channel



Key Project Partners

- Dauphin County Commissioners
- US Fish and Wildlife Service
- PA Department of Environmental Protection

Contact Information

Eric Naguski
District Manager

David Coble
Board Chairman

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

More Work to Do

- Low Volume Road Projects
- Dirt and Gravel Road Projects
- Manure Management workshops
- Water Quality Monitoring
- Continuous in-stream monitoring
- Agricultural technical assistance and outreach
- Agricultural BMP design and installation
- Agricultural Easement Program
- Mosquito-Borne Disease Control
- Riparian Buffer Installations
- Stormwater BMP workshops and installations

Delaware County Conservation District

2017 Feature Accomplishment

State & National Envirothon Champions



Penncrest High School for the third time wins the International Envirothon held July 23 – 29 at Mount St. Mary's University in Emmitsburg, MD. They also have won the State Envirothon Championship 13 times since 2000.

Key Project Partners

PA Fish & Boat Commission
USDA – Soil Conservation
PA Game Commission
PA DCNR Bureau of Forestry

Other Accomplishments

- Assisted with the development of the Penn State Watershed Stewards Program
- Tree Vitalize - 5 Riparian Buffer Planting Projects were completed
- PACD Mini-Grant for Dog Waste Signs and bag dispensers which were installed in County Parks
- Assisted with Planting Project of Infiltration Basin in Smedley Park
- Assisted with a Riparian Buffer Planting Project and Street Tree Planting Project in Rose Tree Park
- Continued to work with the R.C.&D. to provide use of the Conservation Planting Tool Trailer to numerous projects
- Invasive Plant Control at Smedley Park with help from Ameri-Corp.

Grant Money Brought to the County From Conservation District Efforts: \$69,200

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
- County Coordinator for Municipal Separate Storm sewer Permtting (MS-4) Two additional Parks were recently added



Elk County Conservation District



Other Accomplishments

- Hosted the 14th annual Elk County Envirothon for high school students
- Hosted the 4th annual Jr. Envirothon for students in 6th through 8th grades
- Hosted the 4th annual Clarion River Cleanup Event where 1,800 pounds of waste material was removed from the Clarion River watershed
- Hosted the 6th Annual Les Haas Memorial Trail Challenge run and walk event, which included 57 participants
- Hosted the 3rd annual Clays for Conservation clay shoot event, which featured 30 participants
- Hosted a Sustainable Forestry Initiative (SFI) Workshop, which was attended by 35 members of the forestry industry
- Hosted a pollinator workshop which was attended by 36 members of the community



2017 Feature Accomplishment

West Creek Acid Mine Drainage Assessment

Resource Challenge

The upper watershed of West Creek is impacted by acid mine drainage and spoil piles that are a result of the legacy mining activities in the watershed.

Project Summary and Results

In 2017 the Elk County Conservation District conducted a 12-month long assessment of the water quality of the West Creek watershed. This included monthly water sampling of 7 discharge points as well as periodic sampling of various tributary streams. The water quality data was analyzed and a preliminary plan for remediation was developed. This information will be used to apply for future funding to construct the passive treatment systems that will be necessary to remediate the acid mine drainage problems.

Key Project Partners

Elk County Conservation District
Headwaters RC&D
Sinnemahoning Stakeholders Committee
J. Ream Engineering Consultants, LLC

Contact Information:

Steve Putt, District Manager
Kate Yetzer, Resource Conservation Tech.
Kelsey Kilhoffer, Resource Conservation Tech.
Stephanie Stoughton, Watershed Technician
David Stubber, Solid Waste & Recycling
Diane Myers, Secretary

Russ Braun, Chairman
Mike Hovatter, Vice-Chairman
Jerry Olsen, Secretary/Treasurer
Joe Labant, Public Director
Ray McMinn, Farmer Director
Andy Sorg, Farmer Director
Matt Quesenberry, Commissioner Director
Chris Smith, Associate Director
Jim McCluskey, Associate Director
Ron McMinn, Director Emeritus

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

More Work to Do

- Secure funding for West Creek AMD project
- Complete the final design and build the AMD treatment systems

Erie County Conservation District

2017 Feature Accomplishment

Other Accomplishments

• Nature Immersion Program

A new afterschool environmental education program for middle school students from the Erie City School District



• Agricultural BMP Installation

Construction improvements on Erie County farms

Grant Money Brought to the County From Conservation District Efforts:

Growing Greener
PACD Ag Grants

Dirt & Gravel/Low Volume Road
Great Lakes Restoration Initiative
(GLRI)

Erie County Greenways (County of
Erie)



PA VinES

(Vested in Environmental Sustainability)



Resource Challenge

To make this sediment and nutrient reduction program a success, we must take a long term approach!

- Continued, long-term funding
- Maintaining staff, for one on one relationships with growers – Keeping the boots on the ground

Project Summary and Results

The PA VinES Program promotes sustainable viticulture practices for grape production in the Lake Erie Watershed.

- Creation of the Grower's Self-Assessment Guide
- Evaluation and creation of project designs
- Grower enrollment in the program

Key Project Partners

- Department of Environmental Protection (DEP)
- Penn State Extension
- Cornell Extension
- Natural Resources Conservation Service (NRCS)

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
- Certification process

Headwaters Park

- Continuation of our Master Site Plan

Public Education & Outreach

- Residential stormwater

Partnerships on the HAB (Hazardous Algae Bloom) Task Force

Invasive Species control

Fayette County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Maintain 2 no-till grain drills and an agricultural lime spreader available to county farmers to encourage sound agricultural practice and help eliminate agricultural run-off.
- Held a Children's Water Festival for 6th grade classes in all county schools to promote an appreciation for clean water and ways to protect it.
- Also held a Children's AgFest for 4th grade classes in all county schools to learn about food production and local agriculture.
- Distributed over \$1.4 million to local municipalities for 11 Dirt and Gravel and Low Volume paved road projects.

**Grant Money Brought to the County From Conservation District Efforts:
Over \$1.5 million**

The Fayette County Conservation District has received a number of Growing Greener Grants to address the county's natural resource needs:

- Received a Growing Greener Grant for \$36,648 for agricultural BMP's in the Downers Run Watershed to help eliminate agricultural impairment in the watershed.
- Received a Growing Greener Grant for \$27,864 for Meadow Run Non-point Source Pollution abatement and agricultural BMP and on-lot sewage education.
- Received a Growing Greener Grant for \$13,373 for a Stony Fork Ag BMP project. BMP's will be installed on a farm in the Bid Sandy Watershed to help eliminate agricultural impairment.

Contact Information

Doug Petro
District Manager

Donald Bowser
Board Chairman

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

More Work to Do

- Fayette County Conservation District will continue to pursue grant opportunities to promote natural resource conservation.
- Fayette County Conservation District will continue to hold the annual Envirothon completion for all county schools and sponsor the winners in the state competition.
- Fayette County Conservation District will continue to work with the Southern Laurel Highlands Plant and Pest Management Partnership.



Forest County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- 4 Teams participated in local Envirothon, 1 team participated in State Envirothon
- Five Dirt & Gravel Projects
- One Low Volume Dirt & Gravel Project
- Township Work Day
- Hosted NRCS Workgroup Meeting

Grant Money Brought to the County From Conservation District Efforts: \$264,105.16

Tionesta Dam Adopt-a-Lake Project

Resource Challenge

Provide fish habitats to be placed in Tionesta Dam Lake

Project Summary and Results

Twenty fish habitats were constructed with limited resources.



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

Army Corp of Engineers
Forest County Conservation District
& Planning Department Board
Tionesta & Marienville Boy Scouts



Franklin County Conservation District

2017 Feature Accomplishment

Low Volume, Dirt and Gravel Road Program

Resource Challenge

The sediment from the surface of dirt roads and the undersized culvert pipes installed on stream channels can cause habitat loss in the stream ecosystem and impede aquatic organism migration.

Project Summary and Results

The Conodoguinet Creek in Upper Horse Valley is classified as a High Quality /Cold Water Fishery. This area is the headwaters to the Conodoguinet Creek and it runs through the Cumberland Valley to the Susquehanna River. Letterkenny Township received a grant for Gilbert Road through the Low Volume, Dirt and Gravel Roads Program to replace multiple culvert pipes, place fill to raise the road profile and establish ditches, and place Driving Surface Aggregate (DSA) as the final wearing surface to the road. A few of the culvert pipes were located in drainages that were considered streams so they had to be sized for the bank full width to meet program requirements. The bank full width allows the stream to act naturally through the culvert and allows aquatic organism passage. The remaining culverts were failing and in need of replacement to allow storm flow to pass uninhibited. The road fill on this project was used to raise the road and allow ditches to be created so the storm flow did not run down the road, but rather in the ditches. Finally, the township placed the DSA over top as a clean wearing surface so the road does not contribute any more sediment pollution to the stream. Over all, the project has been a success as it provides a stable roadway for the township, has allowed some stream channels to have a properly sized culvert pipe and has helped reduce sediment input to the stream

Key Project Partners

Franklin County Conservation District, Letterkenny Township, and the Penn State Center for Dirt and Gravel Roads

Other Accomplishments

- Conservation Field Trip for 700 Chambersburg 1st graders
- Envirothon Program
- Act 38 update farmer workshop
- 2 Manure Management Plan writing workshops
- 102 E&S workshop contractors
- MS4 workshop for municipality officials
- Annual Summer Conservation Farm Tour
- Reviewed and approved 17 NMPs and 5 crop year updates
- Completed 43 Annual Status reviews
- Issued 65 General NPDES permits
- Conducted 65 E&S plan reviews
- Conducted 497 site inspections
- Tree Seedling Sale

Grant Money Brought to the County From Conservation District Efforts: \$1,011,000



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

- 120 Farms on Ag E&S plan development waiting list
- DGLVR Projects
- MM plan development for farmers

Fulton County Conservation District

Other Accomplishments

- Held 10th Annual Youth Ag Expo for all county 6th graders at Englert's Dairy Farm
- Hosted three electronics collection events, collecting 40 tons of material for recycling
- Received \$248,000 in Chesapeake Bay Special Project funds to implement agricultural Best Management Practices on two farms within an ag-impaired tributary to Big Cove Creek
- Completed Dirt Gravel and Low Volume Roads projects on nine worksites totaling \$113,300
- Assisted operators in planting 880 acres of cover crops across the county through the District's No-Till Drill Rental Program
- Completed stream restoration project on an erosive section of streambank along the ag-impaired reaches of Big Cove Creek using \$98,000 in Growing Greener Grant funds

Grant Money Brought to the County From Conservation District Efforts: \$852,300



2017 Feature Accomplishment: 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 this area a priority watershed for local conservation efforts to improve water quality.

Project Summary and Results

In 2017, the District worked with four operators along a 7-mile ag-impaired section of Big Cove Creek to implement a variety of agricultural Best Management Practices with \$730,000 received in Growing Greener Grant funds. 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 Roads Program funds to implement various projects in cooperation 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

Dirt, Gravel, Low Volume Road Program--2017-2018 marks the final year of the 5-year agreement with the Dirt, Gravel and Low Volume Road program. As of 2017, the district has \$824,000.00 in contracts for Dirt and Gravel road Projects and \$263,000.00 in Low Volume Road projects contracted. Our program has approximately \$265,000.00 remaining to contract for dirt and gravel road projects by June 30th, 2017.

Grant Money Brought to the County From Conservation District Efforts:
\$1,643,599.00



2017 Feature Accomplishment *GRACE Program*

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

Project Summary and Results

As a result, this year we were able to sign up 28 farms in a short period of time. The district managed to contract a total of \$84,115.00. The District is gearing up to take new signups this year and will open the round next month officially. We are looking at adding forestry practices 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 the District will be working on the Growing Greener Grant for the Browns Creek Watershed. The District received notice that we were awarded \$207,484.00 for Agricultural best management practices and a project with Morris Township to stabilize the stream behind the Community Center.

Huntingdon County Conservation District

Other Accomplishments

- Reached 1,423 students and adults through our various Environmental Education programs
- Cleaned up 5.3 tons of trash and 160 tires from four miles of the Juniata River
- Launched new website

Grant Money Brought to the County From Conservation District Efforts:

\$427,055.13

Growing Greener, Chesapeake Bay Special Projects, Act 13 Funds, and Federal Office of Surface Mining (funds spent in 2017)

\$494,547.98

Dirt & Gravel, Low Volume Roads (funds spent in 2017)

2017 Feature Accomplishment

Warrior's Mark Run Agricultural BMPs

Resource Challenge

Steep, eroding streambanks, cattle with unlimited stream access, and a heavy use area adjacent to stream that is impaired due to excess sediment and nutrients

Project Summary and Results

Regraded steep banks and installed 126 stabilization structures and six cattle crossings on three farms in order to restore 10,768 feet of Warriors Mark Run



Key Project Partners

USDA Natural Resource Conservation Service
US Fish and Wildlife Service
PA DEP Growing Greener (3 different grants)
Farmers in Warrior's Mark Run watershed

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

- **2 Chesapeake Bay Special Project grants**
 - Streambank fencing
 - Barnyard conservation
 - Stream restoration
- **DCNR Stream Re-Leaf grant**
 - Forested riparian buffers
 - Multifunctional buffers
- **Continued work on 4 open Growing Greener grants**
 - Barnyard conservation
 - Manure storage
 - Manure plan writing
- **Continued grant writing**



Indiana County Conservation District

Other Accomplishments

- Celebrated 70th anniversary
- Awarded RACP grant funding for a new district office building and environmental education center
- Completed agricultural projects in the South Branch Plum Creek and Goose Run watersheds
- Distributed over \$440,000 in Dirt, Gravel, and Low Volume Road (DGLVR) funding
- Awarded DGLVR Project of the Year to East Mahoning Township for Lewis Road Project
- Partnered with Evergreen Conservancy to launch the Indiana County GeoTrail
- Assisted in developing the Indiana County Sustainable Economy Task Force

Grant Money Brought to the County From Conservation District Efforts: \$945,468



2017 Feature Accomplishment EPA Section 319 Project South Branch Plum Creek

Resource Challenge

Major concerns on this farm included a lack of rotational grazing and watering facilities, animal heavy use areas adjacent to the stream, unlimited animal access to the stream causing streambank degradation, and unbuffered stream corridors.

Project Summary and Results

Best management practices installed on this farm included heavy use area protection, access road, 2 stream crossings, 5 water hydrants with troughs, and nearly 10,000 feet of livestock fencing, including streambank fencing to exclude livestock from the riparian area. This effort increased the pasture system nearly three-fold, from 6 acres to over 17 acres of prescribed rotational grazing. Finally, over 200 native trees and shrubs were planted in the nearly one-acre riparian buffer area.



Key Project Partners

PACD TAG engineering, NRCS, Western Pennsylvania Conservancy, Community Volunteers

Contact Information

Adam Cotchen
District Manager

Jason McGinnis
Board Chairman

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

More Work to Do

- Design and construct new, green district office building and environmental education center
- Continue efforts in the South Branch Plum Creek and Goose Run watersheds to install agricultural BMPs on farms adjacent to streams and stream habitat structures
- Increase education and outreach efforts for the DGLVR program, as well as hosting the statewide Annual Maintenance Workshop
- Continue providing education and technical assistance to the community on non-point source pollution abatement

Jefferson County Conservation District

Other Accomplishments

- Eagle Scout Canoe Launch
- Kyle Lake Restoration Project
- Nutrient Management Planning
- Sugar Camp AMD Treatment System
- Conifer AMD Treatment System O&M
- Conservation Planning
- Stormwater Management Plans
- Completed 9 DGLVR Projects
- Highschool Envirothon
- Watershed Groups Water Quality Testing

Grant Money Brought to the County From Conservation District Efforts:

Growing Greener
NACD Technical Assistance
Western Pennsylvania Conservancy
Redbank Watershed Trust
DCED-Commonwealth Financing Authority



2017 Feature Accomplishment

Kyle Lake Handicap Accessible Fishing Pier Falls Creek, PA

Resource Challenge

The previous fishing pier was not handicapped-accessible, which limited aquatic recreation at Kyle Lake. The existing jetty had become deteriorated and caused fishing lines to get trapped in rocks.

Project Summary and Results

Horizon Construction Group was selected to complete the pier that will provide access for handicapped people to fish. The pier deck was constructed with pressure preservative treated wood and measures 16ft long by 32ft wide, with approximately 8ft wide by 15ft long walkway. The project also includes bituminous pavement to provide a smooth transition from existing ground surface to the walkway. The cost of the project was \$90,230, and was funded by the Redbank Creek Watershed Trust.



Key Project Partners:

The Redbank Watershed Trust
The Jefferson Conservation District
Pennsylvania Fish and Boat Commission

Contact Information

Deborah Wilson
District Manager

Theresa Shick
Board Chairman

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

More Work to Do

- Big Run Flood Control Project
- Pine Run Watershed Agriculture Best Management Practices Implementation
- EQUIP Technical Assistance
- Proposed Aquaponics Facility
- Kyle Lake Habitat Improvement
- Stormwater Education Workshops

Juniata County Conservation District

Other Accomplishments

- 14th Annual Farmers' Winter Meeting (2017)
- 21 involved Juniata Watershed Alliance members and volunteers
- 12,379 pounds of electronics collected (2017)
- 964 tires collected (2017)
- 11 National Pollutant Discharge Elimination System (NPDES) permits administered (2017)
- River cleanups covering four (4) miles of the Juniata River (2013-2017)



Grant Money Brought to the County From Conservation District Efforts: \$375,172



2017 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 the National Fish and Wildlife Foundation (NFWF) has allowed for an initial installation of the following:

- 2045 feet of muddill, bank grading, and bank full bench
- 19 vanes
- 1 rain garden

Continued funding from NFWF and 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

Contact Information

Christopher 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 backyard buffers 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

- 5000 acres of Preserved Farmland attained after preserving four additional farms totaling more than 319 acres
- Over 480 acres planted using no-till technology
- 146 plan reviews and over 200 inspections conducted under the Chapter 102 program
- Installation of fish enhancement structures and streambank stabilization practices on Leggett's Creek
- Initiated and hosted Junior High Envirothon competition
- Provided tree seedlings to over 100 County residents
- Installed multiple structural Best Management Practices (BMP's) on three County farms through the Lackawanna County Agricultural BMP Program
- Purchased new no-till seeder using Chesapeake Bay Special Project grant funding
- Developed an Environmental Education Program focused on Monarch Butterflies

Grant Money Brought to the County From Conservation District Efforts: \$856,385



2017 Feature Accomplishment

Dirt and Gravel Road/Low Volume Road Program Administration

Resource Challenge

Minimize pollution, improve road drainage, and improve road structure

Project Summary and Results

Completed four projects in three municipalities within Lackawanna County. Total project value was over \$183,000

Contracted four additional projects in two municipalities within Lackawanna County. Estimated total project value is over \$285,000

Key Project Partners

Local Municipalities

PA DEP

USDA-NRCS

PA Fish and Boat Commission

Trout Unlimited

Contact Information

Jerry Stiles
District Manager

Jay Clymer
Board Chairman

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

More Work to Do

- Private water well testing
- Assessment of Leggett's Creek and Lackawanna River
- Administration of NPDES Permit & Chapter 102 Program
- Administer Chesapeake Bay Program including Chesapeake Bay Special Project Grant for HUAP/Manure Storage project in 2018
- Administer Farmland Preservation Program including the addition of three new farm parcels in 2018
- Installation of additional fish habitat enhancement structures along Leggett's Creek

Lancaster County Conservation District

Dirt & Gravel / Low Volume Road Program

Allocated to municipalities, \$389,097

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. Additional program details:

- Conducted a Dirt & Gravel/Low Volume Rd. Municipal workshop in January of 2017.
- Assisted 4 municipalities with 5 Dirt & Gravel road projects totaling over 6.5 miles throughout the county.
- The Low Volume Road program assisted 11 municipalities with 16 Low Volume road projects totaling nearly 8.5 miles.
- Participated in a Quality Assurance/Quality Control audit of the program by the State.

Conservation Education

Generated by Education Programs \$28,827

- Sponsored the 39th annual Youth Conservation School.
- Expanded the County's Envirothon program by adding the first Annual Middle School Envirothon with 105 new students participating.
- 7,748 people participated in District Education programs.

2017 Feature Accomplishments

Erosion & Sediment Control Program

Total Fees Generated \$487,500.

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.

E&S Plans Reviewed	418
NPDES Permits Processed	174
Chapter 105 General Processed	115
Site Inspections Conducted	1108
Complaints Received & Processed	179

Watershed Program

Project dollars brought to the County
\$606,200

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:

Assisted over 12 local volunteer watershed associations in the county on issues from education, funding, monitoring, and volunteer recruitment.

Conducted numerous stream surveys educated 3,300 children & adults on the importance of clean water.

Four miles of stream were restored installing:

- 5,300 ft. of muddills installed to provide aquatic habitat.
- 48 log/cross vanes to direct high water flows.
- 5 stream crossings, over 2.6 miles of stream bank fencing.
- Nearly 20 acres of riparian buffer planted (5,000 trees planted).

• Worked with partners on a new Alternative TMDL approach in the Chiques Cr. Watershed.

Agricultural

Conservation Program

Project dollars to landowners \$204,400
Funds allocated through NRCS \$2.510 mill

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

- Designed 146 Best Management Practices (BMP's).
- Planned over 2,400 acres with either a Conservation Plan or Agriculture E&S Plan.
- Installed 160 BMP's (16 waste storages, 27 waterways, and 16 stream crossings, etc.)
- Reviewed 97 Act 38 Nutrient Management Plans.
- Conducted status reviews of over 250 Act 38 regulated operations.
- Conducted 302 farm compliance visits.

Contact Information

Kenneth Meck, Board Chairman
Christopher Thompson, Managing Director
1383 Arcadia Road, Room 200 Lancaster,
PA 17601-3149 (717) 299-5361 ext. 5

www.lancasterconservation.org

More Work to Do

- Allocate \$2.475 mill in project grants
- Initiate a county-wide clean water campaign to help expedite our conservation efforts
- Identify additional non-program funding to re-establish original conservation mission



Lawrence County Conservation District

Other Accomplishments

- Dirt, Gravel and Low Volume Road projects in 3 municipalities installing ditch stabilization, a French mattress with overflow pipes, new and replaced pipes, base improvement, Driving Surface Aggregate, and new storm water turnouts
- Conducted 87 plan reviews, 39 site inspections, responded to 10 complaints, issued 11 permits and provided technical assistance to 1391 individuals in the Erosion and Sedimentation Prevention Pollution Control Program
- Conducted a stream stabilization project and Education Initiative in McKee Run Watershed
- Trained Westminster College students to conduct water monitoring
- Held Nature and Geology Camps, Envirothon, and classroom programs and assisted with Ag Encounter and Senior Expos



2017 Feature Accomplishment

Sugar and Honey Creek Watersheds

Resource Challenge

To reduce pollution from agricultural operations in tributaries to the Little Beaver Creek, designated a High Quality Stream by the Commonwealth of Pennsylvania.

Project Summary and Results

The Lawrence Conservation District completed implementation plans of four ag operations, installing a manure storage, stabilizing heavy use areas, implementing pasture management, developing nutrient management plans, installing stormwater management facilities and assisting with REAP applications.



Key Project Partners

PA Growing Greener
PACD Technical Assistance
State Conservation Commission REAP

Contact Information

Jo Ann McCready, District Manager
Don Hoye, Board Chairman

430 Court Street
New Castle, PA 16101
(724) 652-4512
www.lawrenceccd.org

More Work to Do

- Implementation of the Slippery Rock Creek Watershed Plan on three Ag operations.
- Implement plans for a fifth operation in the Sugar and Honey Creek Watersheds.
- Oversight of Dirt, Gravel and Low Volume Road projects in four municipalities
- Expand water quality monitoring in Lawrence County Watersheds.
- Strive to remain current and effective in the ever changing regulatory environment.

Grant Money Brought to the County From Conservation District Efforts: \$1,037,850.00

Lebanon County Conservation District

2017 Feature Accomplishment

25th Anniversary of Preserving Farmland in Lebanon County

Resource Challenge

Protect land for future generations by preventing development of the land for purposes other than agricultural production, while allowing the landowners to retain ownership.



Project Summary and Results

For 25 years, Lebanon County Conservation District has administered the Agricultural Land Preservation Program. During that time, 163 farm owners have preserved 18,445.92 acres of land. This places Lebanon County in the top ten of all Pennsylvania counties in total preserved farmland acres.

Key Project Partners

Lebanon County Commissioners, Lebanon County Municipalities, Lebanon County Agricultural Land Preservation Board, State Agricultural Land Preservation Board, Lebanon County Conservation District, and USDA-NRCS

Other Accomplishments

- Preserved 374.96 acres of farmland through four agricultural land preservation easements.
- Reached over 1,000 students through environmental education programs.
- Completed 216 earth disturbance site inspections, pre-construction meetings, and complaint investigations (a/o 11/30/17)

Grant Money Brought to the County From Conservation District Efforts: \$638,672



Contact Information

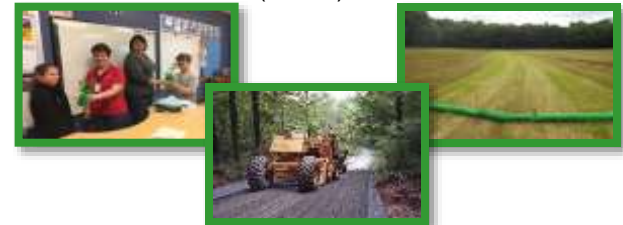
Lynette Gelsinger
District Manager

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

- 42 farms and 3,969 acres awaiting preservation
- Continue administration of Dirt and Gravel and Low Volume Road Projects
- Expand tree seedling outreach program to include every Lebanon County 4th grade student
- Continue to assist farmers in implementation of Best Management Practices (BMPs)



Lehigh Conservation District

Other Accomplishments

- Mill Creek Watershed Assessment
- Little Lehigh Creek Invasive Species Management
- Little Lehigh Creek Stream Buffer Plantings
- 25 Conservation Plans written
- Macro Invertebrate Study on Stwitzer Creek before and after a Stream Bank Fencing Project
- Bison Stream Banking Fencing Project with the Lehigh Valley Zoo



Grant Money Brought to the County From Conservation District Efforts:
\$601,398.00



2017 Feature Accomplishment

Larry Wisser Agricultural BMPS

Resource Challenge

- *Manure Management*
- *Stream Bank Protection*
- *Soil Erosion*
- *Storm Water BMPS*

Project Summary and Results

- Installed 2790 feet of stream bank fencing
- 2 stream crossings
- Animal heavy use area
- Manure storage
- Animal walkways
- 6 acres of wetlands restoration
- Grass waterway
- Storm water basin
- Roof gutters
- New access road

Key Project Partners

NRCS



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

- Lehigh Valley Hospital Network Basin Retrofit
- Leibert Creek Stream Restoration Project
- Little Cedar Creek TMDL Plan
- Working with a swine operation to move animals away from a stream
- Urban Agricultural Program with Building 21, Allentown School District

Luzerne Conservation District

Other Accomplishments

- Conducted 335 Erosion & Sediment Control Plan Reviews and 577 site inspections for earth disturbance activities in Luzerne County
- Responded to 81 complaints related to soil and water issues
- Issued 60 NPDES Permits for Construction Activities
- Completed 7 projects to reduce sediment pollution from municipal Dirt & Gravel Road sections
- Implemented 2 Low Volume Roads projects to improve storm water management, drainage, and road base and surface materials
- Coordinated with Dallas School District, Penn State Extension and Watershed Stewards to plant stormwater basins improving water quality in Toby Creek
- Secured Growing Greener grant funding for projects throughout the Nescopeck Creek Watershed

2017 Feature Accomplishment

Blake Brown Agricultural Conservation Project

Resource Challenge

Substantial sediment and nutrient run-off at Brown's Nescopeck Twp. property first became a concern back in 2012. In a collaborative effort to reduce and mitigate the run-off, the district completed a full Conservation and Nutrient Management Plan with the help of a Chesapeake Bay Special Project grant in July 2014. From there, NRCS & PACD engineers designed Mr. Brown's multiple, much needed nutrient conservation projects which, with the help of DEP, were implemented this past summer of 2017.

Project Summary and Results

Funding for this project was a joint contribution of a Growing Greener grant awarded in 2015, and a NRCS EQIP contract. In addition, DEP provided streambank fencing and stream crossing funds. The completion of the project proved a great success, the effects of which will continue to curb contaminating sediment and nutrient run-off well into the future.



Contact Information

Joshua Longmore
Executive Director

Timothy Ference
Board Chairman

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

More Work to Do

- Assisting PA Game Commission with wetland and waterfowl habitat enhancement on State Game Lands
- Working with Stanley Cooper Trout Unlimited, Eastern Brook Trout Joint Venture, US Fish and Wildlife Service, PA Fish and Boat Commission and PA DEP to fund and restore 2,500 of riparian zones in the former Mountain Springs Lake
- Provide natural resource conservation assistance to Luzerne County municipalities, landowners, & land users
- Provide multiple conservation education opportunities



Lycoming County Conservation District

Other Accomplishments

- Emergency Watershed Protection
 - 1800 ft streambank stabilization
- Debris Removal Program
- Fish Habitat Improvement Projects
- NACD Urban Ag Grant
- Environmental Education
 - 39 programs with 2600 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

Grant Money Brought to the County From Conservation District Efforts: \$1.7 million



2017 Feature Accomplishment

Agricultural Stormwater BMP Project

Resource Challenge

- Soil Erosion
- Water Quality Degradation

Project Summary and Results

- 2,000 sq ft of Roofed Heavy Use Area Protection
- 3,200 sq ft of Manure Stacking Facility
- Roof Runoff Structures
- Stormwater pond
- Access Road, Animal Trail and Walkway
- Spring Development
- Rock Lined Waterway

Key Project Partners

- USDA-NRCS
- Growing Greener
- Commonwealth Financing Authority



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
- \$50,000 Debris Removal Program
- Soil Health Outreach (USDA funds)
- Ag Land Preservation
- \$500,000 Dirt and Gravel Road Projects
- Mosquito Borne Disease Surveillance

McKean County Conservation District

Other Accomplishments

- **Marilla & Gilbert Reservoir Accesses-** A PA Fish & Boat Commission and Shell grant funded the construction of accessible fishing piers and canoe launches at two Bradford Water Authority recreational properties.
- **Education and Outreach:** Workshops, programs, exhibits, and presentations (51 events) reached 3,146 people.
- **Responsible Waste Management:** 77,588 pounds of Electronics, 1,840 Tires and 10,593 pounds of Household Hazardous waste were disposed of properly at collections around county.



More Work to Do

- **Agricultural Best Management Practices** including streambank fencing, riparian buffers, manure storage and heavy use areas continue on area farms funded by **Growing Greener** and private grants
- **Acid Mine Drainage Treatment project** in historical coal mining area affecting Hamlin & Railroad Run streams will be completed.



2017 Feature Accomplishment Hedgehog Lane Low Volume Road Project

Resource Challenge

Hedgehog Lane in Foster Township had become not only a maintenance nightmare for the municipality but also an environmental and public safety concern. The road base in the south lane had been shifting for years and was beginning to slide down the steep slope. Experts from the Center for Dirt & Gravel Road Studies assisted to determine the best way to solve the problem. Soil core sampling was completed in 2016 to determine road base material and the distance between the failing road surface and a stable base. With the information gathered from the soil sampling it was determined that the failure was a result of slope geometry and the subsurface clay soils present. With no bedrock found during sampling the solution was to shift the travel lanes away from the unstable area.

Project Summary and Results

- Abandon failing lane
- Move lanes 8 feet north toward hillside
- Replace one of three cross pipes; add catch basins
- Install underdrain in north ditch to prevent erosion and filter water
- Geo-fabric installed to existing base; Added blacktop millings & 2rc to bring existing north slope to grade
- South side: Stabilized cross pipe outlets, reshape slope to eliminate vertical drop, replace guard rail

Hedgehog Lane is now a solid, safer road for drivers with lower maintenance needs.

Key Project Partners:

Foster Township
McKean County Conservation District
Center for Dirt & Gravel Road Studies at Penn State



Contact Information

Sandy Thompson
District Manager

Kerry Fetter
Board Chairman

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

www.mckeanconservation.com

Grant Money Brought to the County From Conservation District Efforts:

**2016-2017 Grant Funds:
\$ 1,589,114.43**

For every \$1 contributed by McKean County to conservation, **\$41.54 is generated** in return from additional funding sources



Mercer County Conservation District

Other Accomplishments

- Re-develop Environmental Education connections with local schools
- Transportation grant for schools
- 2 mile interpretive trail on Munnell Run Farm
- 6th "Watershed Explorer's Adventure Camp"
- Sponsored/presented at Mercer County "Brunch on the Farm"
- Hosted Northwest PA Growers Association CSA
- Assisted newly formed Coolspring Watershed Association
- Aquatic Invasive Species removal in several watersheds
- 4,570 linear feet of roadway maintenance contracted for 3 Dirt & Gravel Road projects
- 2,365 linear feet of roadway maintenance contracted for 2 Low Volume Road projects
- 42 E&SPC plan reviews
- 23 processed general NPDES permits
- 41 Chapter 105 general permits
- Municipal Stormwater Workshop with Lawrence County

**Grant Money Brought to the County
From Conservation District Efforts:
Envirothon \$700**

**Environmental Education \$2,930.27
Low Volume Roads \$118,130.40
Dirt & Gravel Roads \$390,585.86**



2017 Feature Accomplishment

NO-TILL, COVER CROP & SOIL HEALTH WORKSHOP

Resource Challenge

Exploring solutions to problems farmers are encountering with transitioning to no-till and becoming familiar with advancements in agricultural practices



Project Summary and Results

The Mercer County Conservation District sponsored and developed a No-Till, Cover Crop and Soil Health Workshop held at East End farm, located in western Mercer County. Featured topics and discussions covered included crop management and soil health, mixed cover crop establishment, planting green with no-till, and transitioning to no-till practices in Northwestern Pennsylvania. Demonstrations on incorporating the use of drones in agriculture as well as the use of an inter-seeder as a way to plant cover crops were also presented. Approximately 70 individuals attended the event.

Key Project Partners

PA No-Till Alliance and USDA, NRCS, Penn Soil RC&D

Contact Information

Jay Russell
District Manager



James Rust
Board Chairman

24 Avalon Court, Suite 300
Mercer, PA 16153
(724) 662-2242

www.mercercountycd.com

[facebook](#)

More Work to Do

- Connect with local universities to develop a collaborative sustainable agriculture program
- Hold a "farmer to farmer" roundtable meeting to discuss solutions to persistent problems encountered in NW PA
- Implement "Establishing Connections" outdoor education program
- Sandy Creek Watershed Educational Series
- Work with land owners to install riparian buffers and stream bank fencing
- Continue with Aquatic Invasive Species removal
- Increase the number of eligible municipalities in the Dirt, Gravel and Low Volume Roads program
- Fish Habitat rebuilding
- Growing Greener Grants \$249,247.00
 - Elder Run
 - Sandy Creek Watershed

Mifflin County Conservation District

Other Accomplishments

Agricultural BMPs

- 5,000 ft. of livestock exclusion fencing
- 2 stabilized livestock crossings
- 2 roofed animal heavy use areas
- 2 roofed manure stacking facilities

Dirt & Gravel Rd./Low Vol. Rd.

- 2 DGR projects contracted
- 2 LVR projects contracted
- Purchased toothed grader blade

Environmental Education

- Mifflin/Juniata Envirothon
- Field Days
- Class Presentations

Watershed

- Upper Kish Watershed Meetings
- 2017 Surface Water Assessment in the Upper Kish and Hungry Run Watersheds

Farmland Preservation

- Preserved 89 acres

Grant Money Brought to the County From Conservation District Efforts: \$655,290.00



2017 Feature Accomplishment

Mifflin County Riparian Forest Buffer Initiative

Resource Challenge

Increase acreage of Riparian Forest Buffers (RFBs) in Mifflin County and manage previously established RFBs to ensure maximum water quality benefits.

Project Summary and Results

In 2015, the MCCD embarked on a campaign to revive and install RFB's throughout Mifflin County. In 2017 alone, the MCCD planted over 1,000 trees through multiple programs and established over 10 acres of RFB. The MCCD has also actively managed and enhanced over 20 acres of existing RFB plantings since 2015. This management has been critical to RFB success and has enhanced and revived buffers planted many years ago. The MCCD most recently received a \$25,000 grant to continue to prioritize buffer management. This grant will fund the purchase of an equipment trailer to house and transport supplies for volunteer planting crews and buffer maintenance staff.

Key Project Partners

National Fish and Wildlife Foundation (NFWF), PA Dept. of Cons. and Natural Resources (DCNR), PA Department of Environmental Protection (DEP), Conservation Reserve Enhancement Program (CREP), Chesapeake Bay Foundation (CBF)

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

- Continue to install RFBs and manage existing RFBs
- Continue to install Agricultural BMPs with priority in Ag impaired watersheds.
- Complete the update to the Upper Kish Watershed Implementation Plan (WIP)
- Continue Surface Water Assessment Program (SWAP)
- Complete stream restoration projects on Hungry Run and Kishacoquillas Creek

Monroe County Conservation District

2017 Feature Accomplishment

Multi-County NPDES Workshop Series

Resource Challenge

Perceived lack of programmatic consistency across county borders.

Project Summary and Results

Programmatic consistency is a critical element in effectively implementing state and federal regulations. To ensure consistency and promote inter-district cooperation, we worked with our neighbors at the Pike County Conservation District to offer informative and unified guidance on the intricacies of working within Special Protection Watersheds. The results were very encouraging, as we held two full-day sessions and attracted over 115 participants to the workshop. We reviewed common design flaws, application filing issues and the importance of pre-application meetings to list only a few of the topics.

Key Project Partners

Thanks to all of the great people from the Pike County office for helping us make this program such a success!

Other Accomplishments

- Updated MCCD website making it more appealing and useful for distribution of both technical and educational information
- Enrolled in the Act 38 program; increasing our capacity to assist the farming community within Monroe County
- Established an agility agreement with PennDot which will increase our ability to tackle larger restoration projects enhancement projects
- Introduced exciting new educational programs for the community, like Creek Snorkeling, which gives people of all ages a close-up look at life beneath the water's surface!



Contact Information

Adam Schellhammer
District Manager

Joseph Hanyon
Board Chairman

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

More Work to Do

- Continue to work to improve relationships with local interest groups
- Continue to take a lead role in regional resource planning and help develop a strategic land use plan for Monroe County
- Expand our educational program offerings and increase local awareness of current conservation and environmental issues
- Work more closely with the regulated community to promote strategic sustainable development

Montgomery County Conservation District

Accomplishments

- Hired 6 new staff (2 Resource Conservationists, 1 Engineering Technician, 1 Watershed Specialist, 1 Administrative Assistant and District Manager)
- Agriculture: Creation of Urban Ag Conservation Resource Guide
- Agriculture: Held Manure Management Workshop
- Agriculture: Held Pasture Management Field Day
- Agriculture: Held 2 no-till planting demonstration field days
- Agriculture: Established no-till drill reequipment rental program to promote no-till planting and cover crops
- Environmental stewardship outreach initiative to golf courses
- Established County Environmental Stewardship Award
- Perkiomen Township Stormwater Improvements project, Perkiomen Township
- Perkiomen Creek Habitat Improvement project at American Legion, East Greenville
- Dirt, Gravel & Low Volume Road grant program:
 - 2 contracted *Low Volume grant* projects
 - 5 completed *Low Volume grant* projects
 - 1 contracted *Gravel Road grant* project
 - 1 completed *Gravel Road grant* project



District no-till drill available for rental to farmers in Montgomery County for conservation planting



Perkiomen Stormwater Improvement Project

More Work to Do

- Adjustment to frequent DEP programmatic updates
- Foster improved field compliance across 102 regulations
- Continued outreach to regulated agricultural community for compliance with manure management and 102 regulations

Contact Information

Eric Miller
District Manager

Sara Erlbaum
Board Chairman

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

www.montgomeryconservation.org



Montour County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Installed 9,000 square foot roof over existing barnyard on 200 head beef operation Mahoning Creek Watershed
- Installed 4900 square foot roofed barnyard project for a 40 head beef operation in the Mahoning Creek Watershed
- Buffer Plantings on 2 farms in Limestone Run Watershed
- Installation of Streambank fencing and fish habitat structures on Seven Springs Farm (headwaters of Limestone Run)
- Received \$746,713 Growing Greener Grant for barnyard improvements and manure storage projects located in the Chillisquaque Watershed.
- Completed three (3) Dirt, Gravel & Low-Volume Road projects totaling \$189,571.80.

Limestone Run Restoration

Resource Challenge

Ag Impaired Stream due to Agriculture Siltation, lack of adequate stream buffer and runoff controls. Lack of adequate fish habitat and high water temperatures.

Project Summary and Results

Installation of Best Management Practices on dairy, beef and poultry farms located within the watershed. Increased buffers and Fish Habitat Installation on numerous farms. Improved water quality to the point where there have been two successful stockings of wild brook trout in the upper reach of the stream.

Key Project Partners

Northcentral PA Conservancy, Pennsylvania Fish & Boat Commission, US Fish & Wildlife Service, Pennsylvania DEP, Chillisquaque/Limestone Run Watershed Association, Milton High School, Bloomsburg University, Susquehanna University, and local landowners

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

- Sittler Barnyard and Manure Storage
- Kitchen Barnyard and Manure Storage
- Beachel Barnyard Projects
- Hoffman Manure Storage
- Bogart Poultry Manure Storage
- Beyer Milkhouse Waste System and streambank fencing
- Appleman Paddock Management Project
- Fletcher Roofed Barnyard Project and stream project
- Kremer walkway and stabilized feeding area
- Betz Barnyard and Manure Storage Tank
- Rine Stream Project



Northampton County Conservation District

Other Accomplishments

- Completed over 240 E&S plan reviews, conducted over 190 field inspections, issued/acknowledged 51 NPDES permits and answered 42 complaints
- Provided environmental education programs for schools and watershed groups
- Hired District Engineer to move forward with PCSM Delegation in 2018
- Nathan Pritchard, Watershed Specialist/Agricultural Technician achieved Nutrient Management certification; District signed onto Nutrient Management Delegation
- Established demonstration Rain Gardens at Pen Argyl Borough and Plainfield Township municipal buildings and held corresponding public educational workshops
- Assisting Northampton County with MS4 permit compliance
- Completed first Low Volume Road Project on Books Hill Rd. in Plainfield Township
- Launched a Youth Watershed Steward Program
- Established Memorial Bench at County Park in the name of past District Manager, Chrissy Buchman
- Co-hosted 7th Annual Lehigh Valley Watershed Conference

**Grant Money Brought
to the County From
Conservation District Efforts:
\$223,936.00**



2017 Feature Accomplishment

“Lehigh Valley Geology” Act 48 Teacher Workshop

Resource Challenge

Based on feedback from local teachers, the District identified the need to provide Act 48 training in the study of local geology.

Project Summary and Results

The workshop provided educators with an introduction to the fundamentals of Lehigh Valley geology and the opportunity to visit unique locations in the field. The day started with an introduction and lecture by District staff members (and geologists) James Lawrence and Nathan Pritchard. During lunch, Shawn Casey, P.E., from CMT Services Group, provided an excellent presentation on the impact of sinkholes in the Lehigh Valley. The remainder of the day was spent in the field visiting rock outcrops that represented nearly all of the rock types in the valley. At each field stop, the teachers learned about how the rocks formed (depositional environments) and various mountain building events (orogenies) that shaped the valley as we know it today.

Key Project Partners

Martins-Jacoby
Watershed Association
Lower Mount Bethel
Township
CMT Services Group



Contact Information

Sharon Pletchan
District Manager

Donald Mack
Board Chairman

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

<https://www.northamptoncounty.org>
northamptoncd@northamptoncd.org

More Work to Do

- Continue to implement E&S and NPDES Program
- Provide E&S / NPDES training for the regulated community
- Seek funding for and continue to offer Act 48 Teachers' Workshop
- Implement the PA DEP Post Construction Stormwater Delegation
- Implement Nutrient Management Delegation
- Build District's Agricultural Assistance Program
- Develop Riparian Buffer Program with local partners
- Deliver 2018 Master Watershed Steward Class for the Lehigh/Northampton Program

Northumberland County Conservation District

Other Accomplishments

- Reviewed and approved 44 erosion and sediment plans, 19 NPDES permits, and 25 dam safety and waterway permits
- Performed 83 inspections on active construction sites
- Approved 8 nutrient management plans and performed 26 site reviews
- Assisted with 39 manure management plans and 33 ag erosion and sedimentation plans
- Installed streambank restoration best management practices on 5 sites throughout the county
- Completed an agricultural easement purchase, totaling 21 farms and 2,338 acres purchased
- Provided 19 educational programs to schools and community groups.
- Held 6 workshops for the farming community, municipalities, and the general public
- Sold over 12,000 trees at our annual tree sale
- Administered the mosquito-borne disease control program for DEP in 5 counties
- Provided funding through the Dirt, Gravel, and Low Volume Roads program to 3 municipalities, totaling \$244,550

2017 Feature Accomplishment

Chillisquaque Creek Streambank Stabilization Project

Resource Challenge

The Chillisquaque Creek is listed on PA DEP's 303(d) impaired streams list and is a priority watershed for the Growing Greener Plus Northcentral Region. Implementing this project will help meet goals established in the Northumberland County Implementation Plan for the Chesapeake Bay Tributary Strategy as well as the Environmental Protection Agency's Chesapeake Bay Watershed Implementation Plan.

Project Summary and Results

This project was completed the week of July 31, 2017. The following were installed: 10 multi-log vane deflectors, 3 single log vane deflectors, root ball deflector, two 60" modified mudsill cribs, one 80" biomass mudsill crib, and 3 minor road crossings. The entire site was seeded and mulched after installation. As a side note, this particular project was challenging due to flooding rains that hit the area the week before causing major flooding at this area of the creek. Regardless of this setback, the project was completed in a timely manner.

Key Project Partners

PA DEP (the project was funding through PA DEP's Growing Greener), PA Fish and Boat Commission

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

- Reach out to every ag operation in the county and offer our technical assistance.
- Pursue funding to preserve the remaining 56 farms waiting to be preserved in Northumberland County.
- Continue to offer educational programs free of charge to schools, community groups, and the general public.
- Provide information to homeowners on best management practices they can install in their own backyard.

**Grant Money Brought to
the County From
Conservation District
Efforts: \$729,819.83**



Perry County Conservation District

Other Accomplishments

- Assisted 140 farmers with no-till technology on nearly 3,000 acres
- Assisted 35 building sites with Chapter 102 compliance
- Preserved 1 farm (212.34 acres), and reviewed Conservation Plans for 62 farms
- 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 (605 tires), E-cycling Collection (20 tons) and Juniata River Clean Up (80 tires, 500 lbs trash) events along with help from 60 volunteers
- Fielded over 100 environmental related inquiries from County residents

Grant Money Brought to the County From Conservation District Efforts: \$668,170



2017 Feature Accomplishment

Stream Crossing and DSA Project

Robinson Road, Juniata Township

Resource Challenge

Improve stream health by reducing culvert degradation, increasing wildlife passage and maintaining stream flow.

Before



After



Project Summary and Results

Replaced 42" X 60" CMP replaced with 13'11" X 3'2" Aluminum Structural Plate
GP-11 Approved by DEP

1950 Tons DSA placed at 8" lift compacted to 6"
245' of new cross pipes installed

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

- De-list 8 Ag Impaired streams
- Assist/write 400 manure management and Ag erosion and sediment control Plans for County farms
- Assist with the implementation of the County Greenways Plan
- Outreach program addressing well water quality and safety issues
- Increase preservation rate for 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

- Implemented new District staff position focused on Conservation Outreach; expanded social media
- Conducted two spring Municipal Outreach workshops
- Held partner meeting with State and Federal Legislators
- Developed a plan for long-range continuation of on-going surface water monitoring program
- Completed a comprehensive baseline groundwater study of Pike County in cooperation with USGS
- Partnered with Pinchot Institute for Conservation Studies and Wm Penn Foundation to conduct stream monitoring as part of a larger study in the Upper Delaware Watershed
- Completed a new informational brochure entitled Opportunities for Public Input on the NPDES Permit Process
- Assisted County Government with update of Hazard Mitigation Plan
- Completed long-range Financial Plan and a succession plan for District Management

Grant Money Brought to the County From Conservation District Efforts:

\$2,000 PACD Mini-Grant to conduct Non-Point Source Pollution, Groundwater and Your Drinking Water, homeowner workshops.
\$188,000 grant funded for baseline groundwater quality study.
\$137,000 in USGS in-kind matching funds for groundwater study
\$3,000 PA DEP Environmental Education Grant for Solutions to Maintain Healthy Water – a BMP Tour.
\$5,000 grant for water quality monitoring.



2017 Feature Accomplishment

Baseline Assessment of Groundwater Quality in Pike County, PA (USGS Scientific Investigative Report)

Resource Challenge

Over 98% of Pike County's drinking water is supplied by groundwater. Little data existed on these groundwater resources in order to characterize groundwater quality conditions in aquifers tapped by wells used to supply drinking water.

Project Summary and Results

The study collected and analyzed water samples from 80 privately owned domestic wells in order to extend the spatial extent of baseline groundwater quality data beyond data taken from 20 wells sampled in 2012. Wells were selected to represent groundwater quality throughout Pike County as defined by major land uses and rock types. A full range of parameters were sampled. Results of the study were published in 2017 by USGS as a Scientific Investigative Report.

Key Project Partners

United States Geologic Survey USGS
Pike County Conservation District

Funded by: USGS and Marcellus Legacy Fund,
Commonwealth Finance Authority

Contact Information

Sally Corrigan
District Manager

Scott Savini
Board Chairman

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

More Work to Do

- Expand the District's Outreach carrying the District's Mission and Message to targeted audiences within Pike County
- Implement delegated duties in relation to numerous major construction projects including several utility line projects.
- Continue groundwater quantity and quality studies to better assess status and potential impacts.
- Conduct annual stream monitoring of macroinvertebrates in County watersheds to monitor water quality trends.



Potter County Conservation District

Other Accomplishments

- Met one-on-one with almost every municipality (30) in the county to provide technical assistance and open up lines of communication
- Completed projects that stabilized over 550 feet of streambank and created additional aquatic habitat
- Installed the 3rd public access point in the county for canoes and kayaks
- Assisted local farmers in developing over 50 Manure Management and/or Agricultural Erosion and Sedimentation Plans
- Coordinated with local municipalities to improve 14 municipal owned dirt and gravel roads utilizing over \$830,000.00 in funding
- Provided job shadowing opportunities, mock interviews, and spoke at career days at all 5 local school districts and hosted 6 Conservation Field Days with over 600 students in attendance
- Commenced easement of the 8th farm in the county through the Farmland Preservation Program

Grant Money Brought to the County From Conservation District Efforts: \$263,560.36



2017 Feature Accomplishment

Ludington Run Aquatic Organism Passage Project



Resource Challenge

Habitat enhancement will require a multifaceted approach to restore stream quality in three ways: stream barrier remediation, fish habitat structure placement, and road sediment reduction. Culvert barrier rectification will remediate the worst fish barrier on this Genesee River tributary to facilitate upstream and downstream connectivity. A gravel road project will stabilize the stream adjacent Pushersiding Road to reduce impacts of excessive sedimentation.

Project Summary and Results

1. Connectivity to approximately 10 miles of prime upstream habitat critical for brook trout spawning in this Genesee River tributary.
2. A limestone road surface aggregate designed by Penn State University stabilized an estimated 2.5 miles of stream adjacent road responsible for discharging as much as 496 tons of road material for every .1 feet of surface erosion.
3. Restored approximately 61.18 acres of land between the riparian area around the replaced culvert and the road surface that stabilized.
4. 1,200,000 pounds of sediment loss avoided (600 tons per year).

Key Project Partners

NFWF, National Trout Unlimited, God's Country Chapter of TU, Upper Genesee TU, PA DEP, Genesee Watershed Association, Center for DGR/LVR, Bingham Township, Penn DOT.

Contact Information

Jason Childs
District Manager

Earl Brown
Board Chairman

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

More Work to Do

- Continue to educate students and citizens about the importance of soil water and our natural resources.
- Install Agricultural BMPs on 3 farms during the 2018 construction season.
- Construct bottomless culvert on Gravel Lick Run (Kettle Creek) with help from Trout Unlimited.
- Finalize easement of the 9th farm in the Farmland Preservation Program.
- Complete stream restoration work at a minimum of 5 sites.
- Host a public meeting for participants of a USGS groundwater study to interpret well water test results from 46 sites.
- Host a rain barrel workshop.
- Host the 3rd annual Penn/York Ag-stravaganza.
- Construct another 8-10 DGR/LVR projects in 2018.

Schuylkill County Conservation District

Other Accomplishments

- Oneida #3 AMD Treatment System Optimization Project
- Good Spring Creek Floodplain Restoration Project



- Upper Swatara Creek AMD Monitoring Project water quality data collection
- Lorberry AMD Treatment System Rehabilitation Project
- Lesher Farm stream crossing
- Nutrient Management planning in Delaware Watershed

Grant Money Brought to the County From Conservation District Efforts:
\$3,014,000.00



2017 Feature Accomplishment

Swatara Creek Floodplain Restoration Phase 1 Construction Project

Resource Challenge

Since 2004 Pine Grove Borough has experienced 10 major flood events. Much of the development within Pine Grove is located along Swatara Creek's streambanks, floodplain, floodway or on artificially raised streambanks that were once floodplain.

Project Summary and Results

Project is designed to restore up to 15 acres of floodplain, create up to 4.4 new acres of wetlands and 6.1 acres of riparian habitat while modeling suggests reducing flood water elevations by nearly 2.5 feet North Pine Grove.



Key Project Partners

Borough of Pine Grove
Guilford Performance Textiles by LEAR Corporation
Schuylkill Economic Development Corporation
PA Department of Community & Economic Development
PA Department of Environmental Protection
Swatara Watershed Flood Recovery Committee
County of Schuylkill

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

- Additional floodplain restoration projects
- Continue AMD discharge pollution remediation projects
- Increase coldwater habitat
- Dunn Dairy Farm Animal Heavy Use Area Protection, Manure Storage and Grassed Waterway
- Dandelion Farm Animal Heavy Use Area Protection
- Additional manure/nutrient management plans completed in Delaware Watershed (goal of up to 8 more)

Snyder County Conservation District

2017 Feature Accomplishment

AgroForestry Workshop

Resource Challenge

Private woodlots are not only valuable for timber, they also have the potential to house a marketable resource for a secondary or primary income.

Project Summary and Results

It was a pleasant surprise when 75 people attended the first ever workshop to introduce forest landowners to the plethora of environmental resources and profit making crops that can be grown and maintained in their private woodlots. Attendees heard presentations on tapping maple syrup, planting riparian buffers, growing medicinal plants and mushrooms as well as producing charcoal.



Key Project Partners

Snyder County Conservation District
PA Bureau of Forestry
Mid-State Partnerships, RC&D

Contact Information

Craig Bingman
District Manager

Roger Reichenbach
Board Chairman

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

www.snyderconservation.org

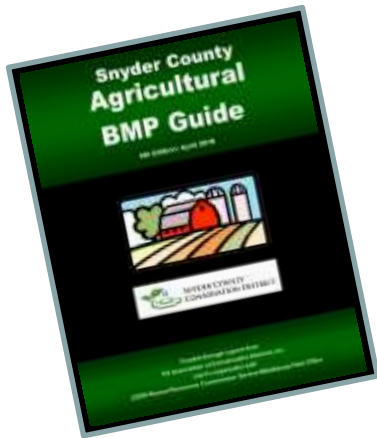
More Work to Do

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



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
- Snyder County BMP Guide



**Grant Money Brought to
the County From
Conservation District
Efforts: \$406,600.00**



Somerset Conservation District

2017 Feature Accomplishment

Other Accomplishments

- Construction of first Oven Run AMD System Rehab Project on the Stonycreek River
- Orenda Park Stream Improvement project on Quemhoning Creek completed
- Plank Road Stream Improvement project completed on the Quemahoning Creek tailwater
- Completed two major stream improvement projects on the South Fork of Bens Creek
- Initiated the Soap Hollow Run Knotweed removal and stream improvement project
- Completed the North Fork of Bens Creek Stream Buffer Project
- Requested, received and funded the Shaw Mines Technical Assistance Report

Grant Money utilized - \$450,000.00

Grant Money Brought to the County From Conservation District Efforts:



Barron Farm Project

Resource Challenge

Severe sediment erosion into Laurel Hill Creek

Project Summary and Results

Pasture Improvements include:

4,300 feet of stream bank fencing, 660 feet of division fence, 1 solar powered fence charger, 1 rock lined stream crossing for equipment, 3 rock lined stream crossings for cattle, 700 feet of waterline, 2 watering facilities, 150 feet of animal walkway

Stream bank improvements include

Stream bank grading, rock lined stream bank areas, cross vanes, log vanes, root wads, 2400 live stakes, 1500 tree seedlings

Key Project Partners

Landowner, Penn DOT, USDA NRCS

Contact Information

Lenny Lichvar
District Manager

Jack Tressler
Board Chairman

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

More Work to Do

- Complete the Oven Run Rehab Project on the Stonycreek River
- Rehab of the Jenners Passive Treatment System
- Design and fund the Shaw Mines AMD abatement project on the Casselman River
- Continue the Dirt and Gravel Road Program
- Initiate a lake habitat project and Nature Park improvements at Somerset Lake

Sullivan County Conservation District

Other Accomplishments

- Grades 4-6 Poster Contest
- 5th Grade Environmental Day
- Local and State Envirothon
- Conservationist of the Year- Andrew Trostle
- 8 Dirt & Gravel Projects Completed
- Conservation Tour
- CBP Special Projects
- 2017 Seedling Sale
- Green Career Day Participation
- Conversation with Conservation in the local newspaper
- County Road Maintenance Workshop
- Preserved 56.86 Acres of Farmland
- Job Shadow day with a student from the high school
- Assisted with the repair of an acid mine drainage treatment site

Money Brought to the County From Conservation District Efforts:
\$641,175.00



2017 Feature Accomplishment

Elk Creek Stream Restoration Project (Phase III)

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. With the third phase complete, we have stabilized more than 2,300 feet of stream using multi-log vanes, modified mud sills, and root wads.

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

Conservation District Efforts:



Legislative Breakfast

**SUSQUEHANNA COUNTY
MANURE MANAGEMENT BUS TOUR**

March 30th 2017 ♦ 8:30am - 2:30pm

Susquehanna County Conservation District (SCCD) will be hosting a Manure Management Bus Tour.

You will be able to see how farmers in our county have implemented Manure Management Best Management Practices on their farms.

Learn how SCCD & NRCS can help you with our cost sharing programs and free technical assistance.

RSVP by March 22nd by contacting SCCD at the address below

We will call and confirm your seat & itinerary the week prior.

Includes travel and lunch!

Bus will leave from Montrose Price Chopper at 8:30am sharp

RSVP: SCCD - 88 Chenango St. Montrose, PA 18601
570-278-4600 x3052 • scd@suscondistrict.org

Nutrient Management Tour



2017 Feature Accomplishment

Installation of agricultural best management practices



Claude Bennett covered barnyard

Resource Challenge

Keeping cattle contained during winter months to control manure runoff and potentially damaging pasture.

Key Project Partners

NRCS provided EQIP funding and design.

Contact Information

Jim Garner
District Manager

Raymond Warriner
Board Chairman

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



70th District Anniversary

Grant Money Brought to the County From Conservation District Efforts:

Recently received nearly \$500,000 in Growing Greener funding for construction of agricultural best management practices.

Tioga County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- 2 Landowner Cost Share Program projects for streambank rehabilitation
- Streambank rehabilitation with Northcentral PA Conservancy grant partnership
- Over 30 environmental education programs
- 11 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: \$1,934,519

Salt Spring Run Culvert Replacement and Fish Passage

Resource Challenge

Improperly constructed culverts cause maintenance headaches and are at risk of washing out during large storm events. This culvert became 'perched' at the outlet which caused erosion and prevented fish and other organisms from migrating, thereby cutting off many miles of habitat that could be used for feeding, refuge, and reproduction

Project Summary and Results

The replacement of two multi-culverts with bridge structures addressed multiple issues within the watershed including barriers to aquatic organism passage due to perched culvert pipes, sediment loading and the safety hazards associated with deteriorating multi-culvert road crossings. The environmental benefits include:

- Decrease of 5,100 lbs. of sediment annually
- Decrease of 2.5 lbs. phosphorous annually
- Decrease of 5.1 lbs. nitrogen annually
- 10.8 miles of habitat open to aquatic organism passage



Key Project Partners

Liberty Township, National Fish and Wildlife Foundation, Shell Appalachia, Trout Unlimited, Tioga County Conservation District Dirt and Gravel Roads, USGS, US Fish and Wildlife Service

Contact Information

Erica Tomlinson
District Manager

Carl Koch
Board Chairman

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

More Work to Do

- Continued education
- Morris Run Acid Mine Drainage Cleanup
- Further Dirt and Gravel Road improvements
- Streambank rehabilitation
- Two large agriculture improvement projects



Union County Conservation District

Other Accomplishments

- Stream monitoring to measure conservation practice effectiveness
- Ongoing Erosion reviews of Central Susquehanna Valley Thruway project
- Multiple Ag. waste projects
- Cover Crop cost share program
- 2000 acres covered with No-Till Equipment Rental program
- More than 50 Erosion reviews on commercial and agricultural business expansions
- Permanent Ag. Easements on 8500 acres (to date)
- Ongoing Nutrient Management reviews on 40 Concentrated Animal Operations
- Ten Inventory and Evaluations on prospective Ag. projects

Grant Money Brought to the County From Conservation District Efforts: \$1million(2017)



2017 Feature Accomplishment

Conley Run stream restoration

Resource Challenge

Address multiple environmental issues such as loss of aquatic habitat, over grazing of pastures, streambank erosion, unlimited cattle access to stream, lack of stream buffers on 2300 feet of stream.

Project Summary and Results

The Conley Run project installed 3000 feet of new stream exclusion fencing to limit cattle access to the stream. It involved the installation of 101 log deflectors, 340 feet of streambank toe logs, 300 feet of mounds and 20 grade control structures. The new buffer area averages 50 feet in total width. 400 trees and shrubs will be installed to finish off the project. This project will provide the opportunity for the land and stream to heal itself from years of negative impact from cattle access and restore an ecosystem which will naturally provide habitat for many aquatic and terrestrial species while simultaneously filtering water and storing stormwater.



Before



After

Key Project Partners

PA. Fish & Boat Commission, North Central PA Conservancy, PA DEP, Bucknell University, Buffalo Creek Watershed Alliance

Contact Information

William Deitrick
District Manager

Donald Fogle
Board Chairman

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

More Work to Do

- Continue Agriculturally based Best Management Practice installations
- Install stormwater management facilities on unmitigated critical project sites
- Develop pollinator habitats in both urban and rural settings to aid in the re-establishment of these vitally important invertebrates
- Expand Environmental Education to continually broader audiences
- Assist the general public in the ongoing effort to balance environmental protection with economic development

Venango County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- 45 Dirt & Gravel Road projects completed
- 5 Low Volume Road projects completed
- Bullion Run Watershed Assessment
- 5 Stream Bank Stabilization Projects
- 3 Aquatic Habitat improvement projects
- Ag. Awareness Day
- 37 Ag. BMP's installed

Grant Money Brought to the County From Conservation District Efforts: 1,159,744.00



Regional Agricultural Watershed Assessment Program Initiative

Resource Challenge

The Kahle Lake watershed is a small sub-watershed (4.48sq. miles) of Mill Creek and was identified as being impaired from agricultural runoff by DEP. This Ag. runoff was responsible for a pollution event that resulted in a fish kill to Kahle Lake itself.

Project Summary and Results

Through a grant awarded by the Department of Environmental Protection an assessment of the watershed identified all the agricultural resource concerns. The District, working with the landowners in the watershed addressed all the planning needs of the Producers, five manure management plans and one nutrient management plan, and implemented all the necessary BMP's (19 separate BMP's) to address each identified resource concern.

Key Project Partners

The partners involved in completing this grant were the Department of Environmental Protection, Venango and Clarion conservation District's, NRCS Clarion Field Office, landowners, PennDOT, Richland Twp., Venango County Planning, and Team Ag.

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

- Conduct abandoned oil well plugging
- 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
- Provide Environmental Education programming

Warren County Conservation District

2017 Feature Accomplishment

Doud Hill Farm Tree Planting

Resource Challenge

To help establish a Stream Buffer on Coffee Creek in Columbus Township

Project Summary and Results

The agencies worked together to build a buffer with 580 trees and shrubs between the stream and upland area. Approximately 40 volunteers planted 17 different species of native trees and shrubs. As they grow, the trees will help stabilize the stream banks, provide temperature regulating shade, and habitat for land and aquatic wildlife. Tree tubes which will deter wildlife and act like greenhouses were staked over each plant. Geotextile mats for weed and moisture control were placed at the base of each tube. Volunteers also placed netting over the top of the tubes to keep birds out.

Key Project Partners

Warren County NRCS
DCNR Bureau of Forestry
Western Pennsylvania Conservancy
Conewango Creek Watershed Association
Caldwell Creek Trout Unlimited
Brokenstraw Watershed Council
Corry High School Forestry Program
Warren County 4H Teen Council

Other Accomplishments

- Kindergarten Camp
- Children's Nature Camps
- Youth Conservation Camp
- Dirt, Gravel & Low Volume Roads
- E&S Plans Reviewed
- General Permits Issued
- NPDES Permits Issued
- Envirothon
- Tree Planting
- Fish Habitat Structures
- In Class Education Programs
- Multi County Sustainable Forestry Initiative
- Composting Workshop
- Stream Bank Workshop
- Timber Harvest Workshop
- Conservation Education at the Warren County Fair
- Nutrient Management Program
- Water Monitoring
- Hatch Run Conservation Demonstration Area
- Agricultural Programs
- Conewango Creek Clean up
- Stream Bank Stabilization

Grant Money Brought to the County From Conservation District Efforts: \$650,000.00



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

- Administer delegated programs
- Conservation Education & Outreach
- Develop conservation education opportunities at Hatch Run Conservation Demonstration Area
- Provide technical assistance



Washington County Conservation District

2017 Feature Accomplishment

Other Accomplishments

- 11 Low Volume Road projects completed, at a cost of \$232,589
- 3 Dirt & Gravel Road projects completed, at a cost of \$358,295
- Held a Streambank workshop in conjunction with Greene County Conservation District, attended by 47 municipal workers.
- Facilitated the coordination of 2 streambank restoration projects within the county, resulting in over 5,000 ft of stream bank fencing, 6 animal crossings, 3 spring developments, and over 1,000 feet of in-stream stabilization.

Grant Money Brought to the County From Conservation District Efforts in 2017:
\$44,135.25



Washington County Conservation Center

Resource Challenge

At the end of 2016 we were notified by our lessor that our lease would be ending. The current building is located in a flood plain and has flooded before. Therefore,, we would need to find new premises out of the flood plain (along with the USDA operations that also leased in the building). Our goal was to keep all of our conservation services in one location.

Project Summary and Results

In working with the County officials we were able to secure a long-term lease to renovate one of their old buildings. This new structure will house the Conservation District, the USDA Farm Service Agency, and the USDA Natural Resources Conservation Service. The project will be completed in 2018.



Key Project Partners

Our work with Washington County officials and the USDA departments made this project come together to benefit everyone in the community.

Contact Information

Gary Stokum
District Manager

William Iams
Board Chairman

2800 North Main St., Suite 105
Washington, PA 15301
(724) 705-7098
www.pawccd.org

More Work to Do

- Complete 2 separate Growing Greener funded Agricultural BMP projects at 5 different farms in the Raccoon Creek Watershed
- Complete the building construction and move our offices to the new location: 50 Old Hickory Ridge Road, Washington, PA 15301



Wayne Conservation District

Other Accomplishments

- Dirt, Gravel and Low Volume Road Program Successful Projects for Water Quality
- Annual Maple Tour
- Annual Woodsmen's Competition
- Annual Envirothon
- Annual Seedling Sale
- Partnership with the Equinunk Watershed Alliance on a Growing Greener Grant for a Watershed Management Plan

**Grant Money Brought to the County From Conservation District Efforts:
\$650,000.00**



2017 Feature Accomplishment

Wayne Conservation District Habitat Room

We wanted to create an atmosphere in our office that would allow for us to provide consistent and interactive natural resource education to the community in Wayne County.

The Wayne Conservation District was approved for two separate DEP EE Grants in order to accomplish this project over the course of a 4 year period. We have a mural that covers four walls going from dawn in early Spring to evening in Winter. We also incorporated a great deal of wildlife mounts that we had on hand from the use of our salvage permit. Other educational tools were purchased from grant monies to complete this project including fur, skull, scat and track kits.

Our key project partners for this undertaking included the PA DEP, two local professional artists and the staff here at the District. The project was finally completed and opened to the public in early 2017.



Contact Information

Jamie Knecht
District Manager

Karl Eisenhauer
Board Chairman

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

<http://waynecountypa.gov/186/Wayne-Conservation-District>

More Work to Do

- Manure Management Plan Workshops
- Implementation of GG Grant to create Equinunk Watershed Management Plan
- Education on emerging Forest Pest management in Wayne County
- Hydrilla Technical Assistance

Westmoreland County Conservation District

Other Accomplishments

- Continued development of a county-wide Integrated Water Resources Plan.
- Began rehabilitation of a county park that has been impacted by invasive species.
- Completed seven municipal stormwater basin retrofits.
- Completed two streambank stabilization projects totaling 1,700 ft.
- Awarded ten Dirt, Gravel, and Low Volume Road projects.
- Partnered with MS4 communities on a series of workshops.
- Began a West Nile Virus Program with 62 monitoring locations in the county.
- Hosted ten education programs for area farmers.
- Welcomed the District's first Americorps member.

Grant Money Brought to the County From Conservation District Efforts:

• DGLVR Program	\$450,000
• Stormwater Programs	\$475,000
• Basin Retrofits	\$514,978
• PADOT Mitigation	\$1,097,000
• Agricultural BMPs	\$145,603
• Nature Park Rehabilitation	\$54,500
• Education	\$23,000



2017 Feature Accomplishment Green Infrastructure Monitoring Project



Resource Challenge

Land developers, engineers, and municipal officials are looking for proven strategies for managing stormwater on site. Many in the conservation community have touted the benefits of green infrastructure, but there is a lack of local science-based data to provide credibility for these conservation practices.

Project Summary and Results

The Westmoreland Conservation District's Green Infrastructure Monitoring Program was designed to provide data to improve the design and performance of stormwater best management practices.

Electronic sensors were installed on various BMPs to monitor soil moisture, electrical conductivity, and temperature to help determine the effectiveness of each system's performance. Rain gauges were installed on-site to gather rain data that can be cross referenced with each monitor. To date, the District is gathering data from four pervious pavement products, a green roof, a bioswale, and three rain gardens. District staff are sharing the information with local engineers, landscape architects, and municipal staff. The next phase of the project will be the creation of a web interface to share the information with the public.

Contact Information

Gregory Phillips
District Manager/CEO

Ronald Rohall
Board Chairman

J. Roy Houston Conservation Center
218 Donohoe Road
Greensburg, PA 15601
(724) 837-5271
www.wcdpa.com

More Work to Do

- Complete the county-wide Integrated Water Resources Plan.
- Manage a stream and wetland mitigation project along Rt. 31.
- Finalize and promote an educational video on stormwater basin retrofits.
- Complete the county park rehabilitation with native plantings, deer fencing, and trail improvements.
- Continue monitoring local stormwater BMPs.
- Daylight and restore several hundred feet of long-buried stream on a county brownfield site.
- Organize and host an agricultural E&S plan writing session for area farmers.
- Organize a fieldtrip for small dairy farm operations.

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
- Wyoming County Resource Bus Tour

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

2017 Feature Accomplishment

P.H. 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 two heavy use areas for livestock

Construction of reinforced animal walkways, stream crossing and access roads

Installation of vegetated treatment areas and filter strips and riparian buffer along the entire length of stream

Installation of rain gutters

Construction of watering facilities for rotational grazing

Key Project Partners

The Conservation Fund

Williams Transco Atlantic Sunrise Environmental Stewardship Program

Natural Resource Conservation Service

Chesapeake Bay Foundation

Contact Information

Douglas Deutsch
District Manager

Bob Robinson
Board Chairman

21 Hollowcrest Road
Tunkhannock, PA 18657
(570) 836-2589 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

Other Accomplishments

- Implement the Erosion & Sediment Pollution Control Program
- Assist landowners and farmers providing conservation and nutrient mgmt. planning, technical & financial assistance for BMP implementation
- Promote Watershed Stewardship by providing education, technical and financial assistance via partnerships at the grass-roots level.
- Implement \$625,000 Dirt, Gravel and Low Volume Road Program promoting BMPs to improve roads and protect water resources w/ local municipalities
- Implement \$225,000 Exelon Stream & Habitat Improvement Program w/ landowners and local governments
- Provide Information to the Public via our website, Facebook page, newsletters, education meetings and mass media
- Host our Annual Seedling Sale & Clay Shoot Fundraisers to support education efforts and engage donors/sponsors
- Carefully manage budgets in difficult economic times with direction from our Citizen Member Board of Directors & County Commissioners

Grant Money Brought to the County From Conservation District Efforts:

\$1,225,000



2017 Feature Accomplishment

York County Envirothon

Resource Challenge

Educate and excite our youth about the value and importance of natural resource conservation in order to motivate them to learn about their environment – Soils, Forests, Wildlife, Aquatics, & Issues of the Day, impacting us all, for the benefit of future generations.



Project Summary and Results

For 32 years we have coordinated annual Envirothon event competitions, where nearly 1,000 students in grades 3 thru 12 study resource materials, take field trips, attend training sessions all in preparation for the 4 grade-level competitions. At Senior High level, County winning teams compete at State Level, and State winners compete at the Conservation Foundation National Envirothon week-long event.

Key Project Partners

- 11 Cooperating Agencies
- 68 Sponsors/Donors
- 29 Envirothon Committee Members
- 16 Public Schools, plus Homeschools & Parochial Schools
- 165 Teams & Coaches



Waterway & Pasture



Low Volume Roads Project

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 & financial assistance to our clients & cooperators
- Seek out resources to address 150 cooperator requests for planning assistance covering 34,000 acres
- Support Collaborative efforts like the York County Regional Pollution Reduction Plan & Stormwater Authority Initiative
- Increase outreach to municipalities not already participating in our Dirt, Gravel & Low Volume Roads Program to encourage project application to fund BMPs to improve roads, reduce pollution and maintenance costs