

Cumberland County Conservation District



Heishman's Mill on the Conodoguinet Creek at the intersection of Creek and Old Mill Roads

2004 Annual Report

Cumberland County Conservation District

Regular Meeting Date—4th Wednesday

43 Brookwood Avenue, Suite 4 ❖ Carlisle, PA 17013-9172

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STAFF

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District Secretary	Brenda Sheaffer	717-240-7812	bsheaffer@ccpa.net



Seated left to right—Brenda Sheaffer, Craig Mitchell, Amy Skvarka, and Kim Falvey
 Standing left to right—Carl Goshorn, Vince McCollum, Mike Lubinsky, and Brian Jaymes

2005 Calendar of Events

January:

- 1 New Years Day—Office Closed
- 12 Water Testing—District Office
- 17 Martin Luther King Day—Office Closed
- 24 PACD Regional Directors Meeting
- 26 Cooperating Agency Luncheon/Board Meeting—Penn Township Fire hall

February:

- 9 Water Testing—District Office
- 21 President's Day—Office Closed
- 23 Board Meeting—District Office 7:30 pm

March:

- 9 Water Testing—District Office
- 14-16 PACD Executive Council Meeting—
Crowne Plaza, Harrisburg
- 16 Workshop for Municipal Officials &
Contractors—Shippensburg
- 17 Phase II NPDES for Twp. Planning
Commission Members
- 23 Board Meeting—District Office 7:30 pm
- 25 Friday before Easter—Office Closed
- 28 Deadline for Tree Seedling Orders
- 31 Poster Contest Deadline

April:

- 13 Water Testing—District Office
- 14 Tree Seedling Bundling & Distribution
- 15 Tree Seeding Distribution
- 27 Board Meeting—District Office 7:30 pm

May:

- 3 County Envirothon—Colonel Denning State
Park
- 11 Water Testing—District Office
- 23&24 PA State Envirothon
- 25 Board Meeting—District Office 7:30 pm
- 30 Memorial Day -Office Closed

June:

- 6-8 Dirt & Gravel Road Conference—
Chambersburg
- 8 Water Testing—District Office
- 22 Board Meeting—District Office 7:30 pm

July:

- 4 Independence Day—Office Closed
- 13 Water Testing—District Office
- 25-27 PACD Annual Conference—Erie
- 27 Board Meeting—District Office 7:30 pm

August:

- 10 Water Testing—District Office
- 24 Board Meeting/District Picnic—6:00 pm,
Location: TBA

September:

- 5 Labor Day—Office Closed
- 14 Water Testing—District Office
- 28 Board Meeting—District Office 7:30 pm

October:

- TBA Annual Golf Tournament
- 12 Water Testing—District Office
- 26 Board Meeting—District Office 7:30 pm
- 27-29 PACD Executive Council Meeting

November:

- 9 Water Testing—District Office
- 11 Veteran's Day—Office Closed
- 16 Board Meeting—District Office 7:30 pm
- 24 Thanksgiving Day—Office Closed
- 25 Day after Thanksgiving—Office Closed

December:

- 14 Water Testing—District Office
- 21 Board Meeting—District Office 8:00 am
- 23 Christmas Holiday—Office Closed
- 26 Christmas Holiday—Office Closed

2004 POSTER CONTEST

The Cumberland County Conservation District held their Annual Poster Contest for area schools in the spring. A total of 207 posters were submitted for the contest. The judging is categorized into five divisions, four of which received posters for competition. The themes for the 2004 contest were "The Living Soil" or "What's Your Habitat?". The students were able to choose one of the two themes on which to compose their poster. All first place winners were forwarded to PACD for the State Competition.

K - 1ST GRADE:

- 1ST Place: Erin Howe (Good Shepherd)
- 2nd Place: Alexandre Failing (Good Shepherd)
- 3rd Place: Jeannie Doan (Good Shepherd)

2nd - 3rd GRADE:

- 1ST Place: Amanda Kusztos (Good Shepherd)
- 2nd Place: Brooke Fisher (Good Shepherd)
- 3rd Place: Madison Pugh (Good Shepherd)

4th - 6th GRADE:

- 1ST Place: Alex Stephens (Mech. Middle School)
- 2nd Place: Ethan Guswiler (Mech. Middle School)
- 3rd Place: Emily Lewis (Good Shepherd)

7th - 9th GRADE:

- 1ST Place: Samantha Chidiac (Good Shepherd)
- 2nd Place: Zach Frock (Mech. Middle School)
- 3rd Place: Kathryn Mallory (Good Shepherd)

COLLEGE SCHOLARSHIPS

The Cumberland County Conservation District handed out two college scholarships in 2004. Each scholarship is worth \$500.00 and they were awarded to Charles Weems of Boiling Springs and Robert Reese of Carlisle.

Charles Weems is a senior at Shippensburg University where he is majoring in Geo-Environmental Studies with a minor in Geographic Information Systems/Biology. Charlie also completed an internship with the Conservation District in the summer of 2003.

Robert Reese is a junior at Penn State University where he is in the College of Agriculture Sciences majoring in Horticulture. When Robert is not attending classes, he assists at Ken Reese's Nursery in Newburg.

Funding for the college scholarships is provided by profits from the annual tree seedling sale.

2nd ANNUAL CUMBERLAND COUNTY CONSERVATION DISTRICT GOLF TOURNAMENT



The team of (left to right) Mike Lubinsky, Vince McCollum, Brian Jaymes, and Ken Lubinsky celebrate on their way to a 2nd Place Finish.

The 2nd Annual Cumberland County Conservation District Golf Tournament was held at Mayapple Golf Links on October 6, 2004. There were 47 participants that enjoyed the warm Fall afternoon.

The Conservation District would like to thank the following businesses for their generous donations:

Dick's Sporting Goods
Shearer Advertising
Carlisle Beverage
Mayapple Golf Links
John W. Gleim Jr. Excavating
The Sand Trap
Brookwood Investment Advisors Inc

We would also like to thank Mayapple Golf Links for their help in making the day a success. The participants enjoyed a terrific steak dinner following the day on the course and prizes were awarded for the three low scores, skill holes, and random drawing. We must also thank all of the participants who made the day complete. Thanks to all and see you next year!

All proceeds from the event benefit environmental education efforts in Cumberland County.

2004 Tree Seedling Sale Financial Report

Date of sale – April 15 & 16, 2004

Total Income - \$18,979.00

Expenses	Amount
Kutco Printing	\$300.25
Treessentials	\$3,925.54
Ernst Conservation Seeds	\$219.00
Fry Communications	\$461.17
PA Dept of Revenue	\$978.83
Scott Bros. Nursery	\$529.46
Carino Nursery	\$1,330.50
Dutch Mill Bulbs	\$730.00
Kruger Rental	\$172.56
Musser Forest	\$556.00
Strathmeyer Forests	\$1,643.00
Warren Co. Nursery	\$1,361.15
Edgar Wright	\$911.20
Bruce Payer	\$170.00
Pikes Pike Nurseries	\$928.00
Total Expenses	\$14,216.66

Net Profits—\$4,762.34

Total Customers—362

Item Sold	Quantity Sold
Colorado Blue Spruce	1,890
Douglas Fir	2,240
White Pine	3,310
Concolor Fir	1,550
Sugar Maple	720
White Oak	1,320
Bradford Pear	148
Myrtle	3,425 clumps
Acorns	45 lbs.
Wildflower	202 oz.
A. Spectacular Gladiolus	42
B. Hosta	20
C. Tiger Lilies	50
D. Everbearing Strawberry	77
K. Peacock Orchids	32
P. Daylily Stella D'Oro	41
2 ft. Shelter	227
3 ft. Shelter	1,809
4 ft. Shelter	454
5 ft. Shelter	38
2 ft. Stake	86
3 ft. Stake	1,791
4 ft. Stake	163
5 ft. Stake	32

Legislative Tour

On April 30, 2004, the Conservation District conducted a tour of two farm sites and a local stream restoration project to show local legislators work being completed with state and federal grants to improve water quality in Cumberland County.

Conservation District staff and several cooperating agencies were joined on the tour by State Representative Will Gabig, Christian Muniz from State Representative Jeff Coy's office, Jay "Buck" Swisher from Congressman Todd Platt's office and Debra Kephart from State Representative Pat Vance's office.

The first stop of the tour took us to the farm of Alan Shughart. Alan had a barnyard runoff problem next to a township road. By using funding from a federal Section 319 grant, Alan was able to concrete the barnyard area and install a collection and distribution system to handle the manure. Liquid runoff from the site is pumped to a manifold pipe and evenly distributed to a stabilized alfalfa field.

The Ray Thrush farm outside Shippensburg, where federal funds were used to install best management practices was the second stop on the tour. In order to improve on some barnyard and manure handling issues, Ray built a manure storage structure to store manure until the optimum time for spreading on the crop fields. He also installed the following best management practices: concrete of the barnyard area, waste transfer system and proper pasture management.

The last stop of the day was to look at a stream restoration project on the Burd Run near Shippensburg. State Growing Greener funds were used to relocate Burd Run back to its original stream bed. In the early 1900's, Burd Run was straightened for some unknown reason and this project entailed restoring the stream back to a natural course and stabilize the riparian area with seedlings. A walking trail was installed with informational signs with hopes that local high school and college students will utilize the trail and gain knowledge of the natural resources in the area.

All in all, the legislative tour was a big success and we plan to complete similar tours in the future to show how funding is being spent in Cumberland County to improve our vital natural resources.



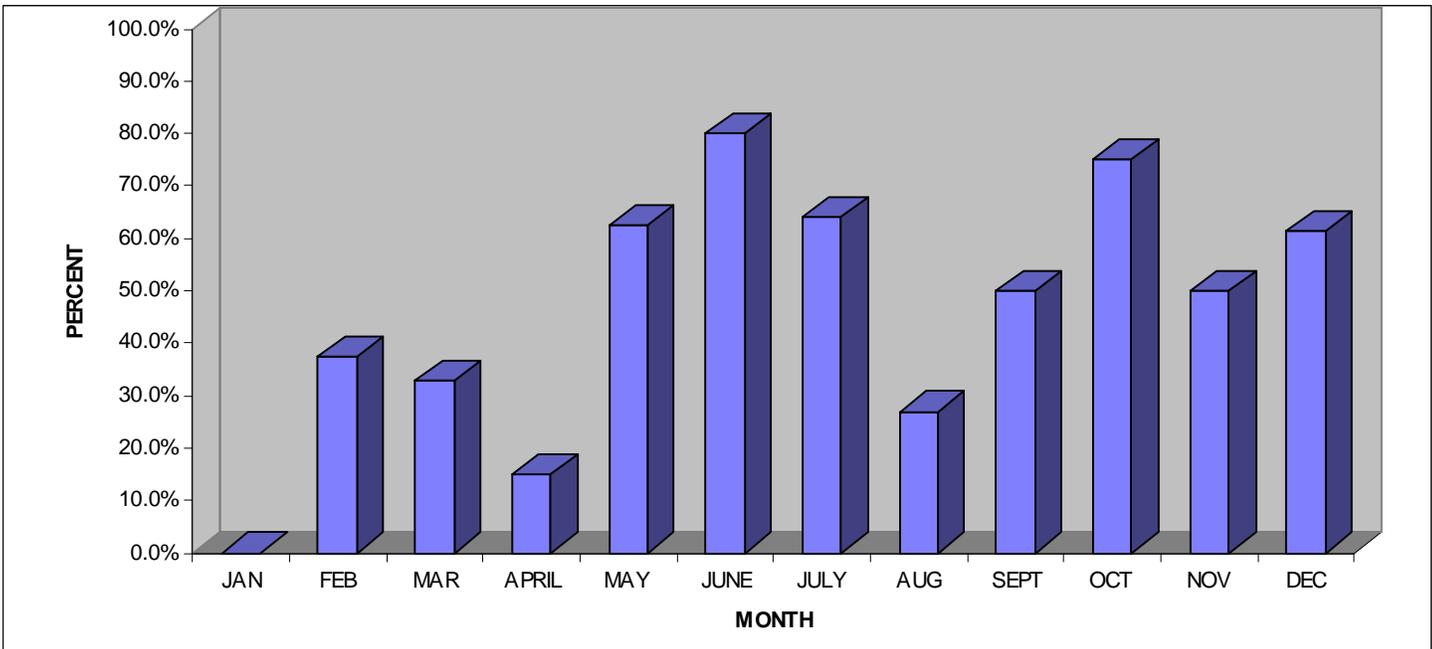
2004 Water Testing Program

The Cumberland County Conservation District continued to serve the citizens of the County through the monthly water testing program. Through this program, water can be tested for a variety of contaminants such as coliform bacteria, e.coli, nitrates, lead, iron, sodium, etc. In 2004, nearly 200 tests were processed by the District for a minimal fee and set to Analytical Labs, Middletown, PA for analysis. There was an upward trend in the percentage of samples testing positive for total coliform in 2004.

The results from the 2004 water testing program are as follows:

TEST	TOTAL TESTS	# TESTING POSITIVE	% TESTING POSITIVE	TREND FROM LAST YEAR	MAX CONTAMINANT LEVEL
TOTAL COLIFORM	100	49	49.0%	Up	0 Colonies
E.COLI	41	4	9.8%	Down	Negative
NITRATE	18	7	38.9%	Up	10 mg/L
LEAD	10	2	20.0%	Up	0.015 mg/L
IRON	7	1	14.3%	Down	0.3 mg/L
SULFATE	7	0	0.0%	Same	250 mg/L
pH	3	0	0.0%	Same	6.5-8.5
MANGANESE	1	0	0.0%	No Previous Tests	0.05 mg/L
SODIUM	4				No Standard
FLOURIDE	1				No Standard
HARDNESS	7				No Standard
YEARLY TOTAL	199	63			

Percent of coliform bacteria tests with positive results.



2004 EROSION AND SEDIMENTATION CONTROL PROGRAM

The primary goal of the erosion and sedimentation pollution control program is the protection of water resources from the impacts of accelerated erosion and the sedimentation that results. We as a District want to ensure that the soil and water resources of Cumberland County are used wisely. As the county continues to experience overall growth, it becomes increasingly important to make sure that resources are protected according to the regulations. We have continued to work with the regulated community to make certain that they are up to date with the most current regulations and methods of construction. The District has been given the authority to administer the erosion and sedimentation control program by the Department of Environmental Protection (DEP) to achieve this goal. Through a delegation agreement with DEP, the District has been authorized to:

RESPOND TO COMPLAINTS

The District receives complaints from the public and municipal officials. When a complaint is received in the office, the District will conduct a field evaluation and follow-up with the appropriate actions or referral.

REVIEW EROSION AND SEDIMENTATION CONTROL PLANS



Home Depot, Carlisle

The District reviews the plans to assure adequacy with current regulations. Chapter 102 requires that all earthmoving activities over 5,000 square feet must develop an erosion control plan. The design of the plan must minimize accelerated erosion and resulting sedimentation to waters of the Commonwealth.

INSPECT EARTHMOVING SITES

The District has two qualified technicians, Brian Jaymes and Kim Falvey, who are authorized to perform inspections of earthmoving sites in the field to determine compliance with Chapter 102 Regulations. The District meets with contractors at the site of the disturbance to go over the plan. They will walk the site to determine if the plan is being implemented and best management practices

(BMPs) are properly installed and maintained. At the conclusion of the inspection, an Earth Disturbance Inspection Report is completed stating site conditions and any violations of Chapter 102 regulations and the Clean Streams Law. A date is established to correct the violations in order to place the site in compliance.



Heishmans Mill fish by-pass channel

ADMINISTER THE NPDES PROGRAM

This program requires general or individual permits for any earthmoving activities disturbing greater than five acres of land over the life of the project or sites disturbing between 1 and 5 acres with a point source discharge to surface waters of the Commonwealth.

EDUCATE THE PUBLIC

The District provides the public with information on the most current regulations and methods of construction. During March, the District held an educational workshop directed toward E&S plan preparers. The workshop was intended to provide them with information on the NPDES program and post construction BMP's. Approximately 45 individuals attended the workshop.

ENFORCE CHAPTER 102 RULES AND REGULATIONS

Under the Clean Streams Law and the District's Level III delegation agreement with DEP, the District has the authority to impose penalties on violators who will not voluntarily comply. The District's main goal is to work with developers and contractors to achieve voluntary compliance for violations in the field. When this is not possible, a Notice of Violation (NOV) is sent to the responsible individual inviting them to an administrative enforcement conference with the District. If the District determines that penalties will be assessed after reviewing all the facts, the money is forwarded to DEP and deposited into the Clean Water Fund.

2004 E&S PROGRAM ACCOMPLISHMENTS

E&S Plan Reviews.....	152
Project Acres.....	3426
Disturbed Acres.....	1286
Inspections.....	304
General NPDES Permits.....	56
Individual NPDES Permits.....	3
Complaints.....	50
Civil Actions.....	5

E&S PROGRAM REVENUE

E&S Plan Review Fees.....	\$67,985
NPDES Permit Fees.....	\$18,000
Civil Action Penalties (Forwarded to DEP).....	\$13,455

TOWNSHIPS WITH THE MOST PROPOSED
DISTURBED ACRES

Silver Spring.....	218
South Middleton.....	202
Southampton.....	186
Hampden.....	173
Middlesex.....	74
Dickinson.....	71

Biosolids

Biosolids are nutrient rich organic materials derived from wastewater solids (sewage sludge and residential septage) that have been stabilized, meet specific processing and quality criteria and are suitable for land application.

Cumberland County Conservation District assists the Department of Environmental Protection (DEP) in the implementation of the Biosolids Program. Our role includes:

- General education and outreach to the general public and interest groups.
- Assist local municipalities in evaluating suitable land application sites for Biosolids upon request.
- Assist in ensuring that the conservation plan or erosion and sedimentation plan meet all the necessary requirements.
- Monitor the land application of Biosolids.
- Review complaints.
- Site inspections.

We continue to have one of the highest number of permitted sites in Pennsylvania. In 2004 there were 65 sites permitted by either municipalities or septage haulers. We continue to work closely with producers, sewage treatment plant operators, and septage haulers to promote the benefits of biosolids, while educating the general public.

Watershed Program: 2004

This past year the Conservation District received several grants to improve the watersheds of Cumberland County. The first grant was to create rain barrels for County residents that include educational information packets. Additionally, this project enabled the Conservation District to purchase a groundwater model for educating students and the general public. Next, the Conservation District received a Pennsylvania Growing Greener grant to install agricultural best management practices on a farm along the Yellow Breeches creek. Lastly, through a grant received by PA Cleanways, an illegal dump survey was developed for the County and will be used as a tool to plan and obtain funding for illegal dump cleanups in the County.

**Watershed Association Spotlight: Yellow Breeches
Watershed Association**

Efforts on the Rivers Conservation Plan and Watershed Assessment project continued throughout the year. Municipalities within the watershed were contacted to obtain data/ information on issues/concerns and planning workshops with municipal representatives were conducted. These activities were coordinated by the public outreach committee. The natural resources committee assisted with data analysis and GIS mapping being prepared by the consultant. It is anticipated that the draft reports will be available for municipal and public review and comment early in 2005. The RCP and Watershed Assessment reports will provide the framework and serve as a management plan for addressing problems within the watershed.

In 2004, YBWA participated in other sub watershed initiatives involving Trout Run and Cedar Run. The Trout Run Initiative includes Upper Allen Township and Messiah College as partners. The Cedar Run initiative is being led by a partnership including the Pennsylvania Environmental Council, Alliance for the Chesapeake Bay, Lower Allen Township and the Cumberland Valley Chapter of Trout Unlimited.

Other activities included a logo contest with area schools and assistance with several stream clean-up events. YBWA also participated in the Cumberland County Open Space Plan project and provided support for the Conservation District's efforts to secure grant funding for BMP implementation within the watershed.

For more information about YBWA, visit their web site at www.ybwa.org.

2004 Chesapeake Bay Program Annual Report



Cumberland County has participated in the Chesapeake Bay Program since 1987. Since that time, over \$1,132,000 has been provided to agricultural landowners to install Best Management Practices on their operations. The installation of these BMPs has helped to reduce nutrient and sediment pollution in the County's waterways and ultimately, the Chesapeake Bay.

Although the Bay Program has been a success in Cumberland County, 2004 has spurred significant changes in Pennsylvania's Chesapeake Bay Program. As part of the Chesapeake 2000 Agreement, PA has made a commitment to help remove the Chesapeake Bay from the Federal Clean Water Act's list of impaired waters by 2010.

The PA Department of Environmental Protection has developed a new Chesapeake Bay Tributary Strategy which is based on new scientific criteria. The PA Strategy, which includes new BMPs and approaches, is intended to boost nutrient and sediment reductions across the Bay Watershed in hopes of reaching the 2010 goal. As part of the PA Strategy, Cumberland County and other counties within the Bay watershed have developed county specific plans intended to compliment the State Strategy.

In the future, the new Strategy will guide Cumberland County throughout implementation of the Chesapeake Bay Program. 2004 was the last year of program implementation under the existing program guidelines.

For more information about the Chesapeake Bay Program in Cumberland County, contact Craig Mitchell at the Cumberland County Conservation District.

The following Table summarizes 2004 Bay Program activities:

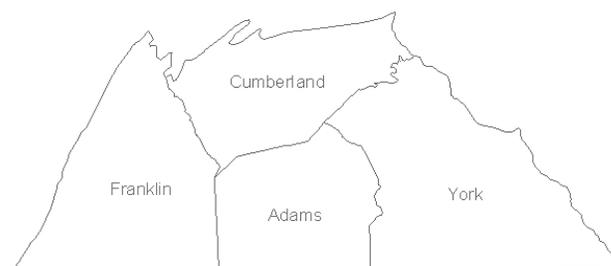
Activity	Number Reported
BMP Funds requested by the District:	\$186,233.58
BMP Funds received by the District:	\$56,100.00
Cost share dollars paid to landowners in 2004:	\$7,491.41
Administrative Funds received by the District:	\$5,500.00
Number of new applicants requesting assistance:	9
Number of Landowners assisted with BMP implementation	4
Number of Soil Tests pulled by the Bay Technician:	18
Designs completed by the District Bay Engineer:	14
Nutrient Management Plans addressed by the Bay Technician:	5
Completion of the County Chesapeake Bay Tributary Strategy	n/a

2004 ANNUAL CHESAPEAKE BAY ENGINEERING ACTIVITY

Michael Lubinsky E.I.T., Regional Agricultural Engineering Specialist Best Management Practices Designed During 2004

County	Date Approved	Best Management Practices Planned (* Practices Implemented)
<i>Adams County</i>		
1. Roger Steele*	April 23, 2004	Heavy Use and Stacking Areas, Liquid Distribution/Treatment System
<i>Cumberland County</i>		
1. Jason Haycock	January 27, 2004	Ag. Waste Storage Structure, Heavy Use Areas, Underground Outlets
2. Wayne Hensel	January 29, 2004	Ag. Waste Storage Structure, Heavy Use Areas, Underground Outlets
3. Roy Leaman	February 5, 2004	Ag. Waste Storage Structure, Heavy Use Areas, Underground Outlets
4. Dean Wickard	February 12, 2004	Roofed Ag. Waste Storage and Heavy Use Areas
5. Fred Potteiger*	February 17, 2004	Heavy Use and Stacking Areas, Liquid Distribution/Treatment System
6. John Stamy*	June 13, 2004	Ag. Waste Storage Structure
7. Wayne Hensel*	June 13, 2004	Ag. Waste Storage Structure, Heavy Use Areas, Underground Outlets
8. Ernest Horst*	June 22, 2004	Ag. Waste Storage Structure
9. Gerald Jones	July 27, 2004	Ag. Waste Storage Structure, Heavy Use Areas, Underground Outlets
10. Lamar Sensenig*	August 10, 2004	Ag. Waste Storage Structure, Heavy Use Areas, Underground Outlets
11. James Deitch	August 22, 2004	Ag. Waste Storage Structure
12. Don Adams*	September 23, 2004	Roofed Ag. Waste Storage and Heavy Use Areas
13. James Deitch	October 29, 2004	Heavy Use and Stacking Areas, Liquid Distribution/Treatment System
14. Sheldon Brymesser*	November 5, 2004	Ag. Waste Storage Structure
<i>Franklin County</i>		
1. Eugene Martin	January 6, 2004	Ag. Waste Storage Structure, Heavy Use and Stacking Areas, Waste Transfer System
2. Rodger Wildeson*	January 21, 2004	Ag. Waste Storage Structure, Heavy Use Areas, Underground Outlets
<i>York County</i>		
1. No Design Activity		

Total Cost of Projects Approximately \$1,290,000



Nutrient Management Program Activities

2004 was an eventful year for the Pennsylvania Nutrient Management Act. Major changes are being proposed to the state nutrient management rules and concentrated animal operations (CAOs). These are the first significant changes since the Pennsylvania Nutrient Management Act of 1993 became effective in 1997. The proposed changes aim to strengthen the nutrient management program and water quality protection throughout the Commonwealth. During the summer and fall of 2004 the public had the opportunity to comment on the proposed revisions to the Pennsylvania Nutrient Management Act regulations. The new revised regulations should go into effect in the summer of 2005.

Cumberland County continues to plan an active role in encouraging farmers to obtain and implement a nutrient management plan. Since the beginning of the Nutrient Management Rules and Regulations were implemented in 1997 we have approved 84 nutrient management plans (13 are CAOs and 71 are volunteers). In 2004 we approved 11 nutrient management plans (1 CAO and 10 volunteers).

Nutrient Management Plan Implementation Grant Program

Cumberland County farmers continue to benefit from the Nutrient Management Plan Implementation Grant Program which offers funding up to \$75,000.00 at 80% cost share to install agricultural best management practices. Since the beginning of the program in 2000, Cumberland has had 20 applications totaling over \$900,000 in cost share submitted to the State Conservation Commission for funding. In 2004 there were 3 applications submitted and funded.

Pre-Sidedress Nitrogen Testing (PSNT)

Cumberland County Conservation District continues to offer the Pre-Sidedress Nitrogen Testing (PSNT) on corn to local farmers. This is a free service that the conservation district has offered for 6 years. An intern from Shippensburg University was hired to help gather and run the soil tests necessary for the test. In 2004 there were 97 fields tested on 17 different operations. 49 fields had a nitrogen recommendation and 48 fields did not have a nitrogen recommendation. This program will be offered again in 2005.



Grazing system installed at Craig Millers, under Project Grass.

Project Grass

Project Grass is a cooperative effort by local farmers, county conservation districts and other partners with assistance from the United States Department of Agriculture agencies to promote grazing in Pennsylvania. In 2004 we continued to implement best management practices associated with grazing on Cumberland County farms. Such practices included exterior fencing on a horse operation; interior and exterior fencing on a sheep operation; and interior, exterior fencing, a watering system and alley way on a beef operation. In addition to the implementation of these practices, staff from Cumberland County Conservation District served on the South Central Regional Project Grass Executive Committee.

Outreach and Education Activities

The Cumberland County Conservation District continues to educate and promote the Nutrient Management Rules and Regulations and the benefits of nutrient management planning to area producers. In 2004 the Cumberland County Conservation District was represented at various local agricultural events:

- Witmers Implement Service's open house
- Cumberland County Corn Clinic
- Cumberland Valley Cooperative's winter meeting

In 2004 the nutrient management staff also gave presentations at the following events:

- Pennsylvania Nutrient Management Conference
- Pennsylvania Horse World Expo

Dirt & Gravel Roads Program

Two municipalities in Cumberland County applied for and received funding to complete best management practices under the Dirt & Gravel Roads Program.

Penn Township installed nine new culverts on Peach Orchard Road the week before Hurricane Ivan hit Pennsylvania. After inspecting the road the week after Ivan, you could see there was little to no damage because water was not able to build up in large volumes or velocity.

In contrast, the same road in Cooke Township had severe erosion from the storm. New culverts were installed in this area of the road and hopefully this will prevent future problems.

Cooke Township also installed three road culverts on High Mountain Road and stabilized drainage outlets and ditches.

An annual allocation of \$15,000.00 is provided to the Conservation District for municipalities to implement practices on dirt roads to prevent pollution to local streams. Currently, thirteen municipalities have attended the required training session and will be eligible to apply for funding in 2005.

EXPENSES

	ADMIN.	EDUCATION	CONSTRUCTION	YEAR TOTALS
1999	\$130.99	\$62.23	\$ 1,150.72	\$1,343.94
2000	\$539.97	\$720.00	\$ 16,431.61	\$17,691.58
2001	\$293.45	\$ 1,104.16	\$48,195.04	\$49,592.65
2002	\$424.75		\$25,931.50	\$ 26,356.25
2003	\$281.99		\$ 15,000.00	\$15,281.99
2004	\$199.35	\$ 340.00	\$7,638.62	\$8,177.97
TOTAL	\$1,870.50	\$ 2,226.39	\$114,347.49	\$118,444.38

#s as of 12-31-04

CUMBERLAND COUNTY FARM SERVICE AGENCY (FSA)

The Cumberland County FSA Office, an agency of the United States Department of Agriculture (USDA), located in Carlisle, PA administers the Conservation Reserve Program/ Conservation Reserve Enhancement Program and assists with the Environmental Quality Incentives Program (EQIP). In 2005, EQIP will be administered by the Natural Resources Conservation Service (NRCS).

The Farm Service Agency also administers commodity price and income support programs, farm ownership and operating loans. In addition, FSA will continue to offer cost-sharing and land rental payments for the Conservation Reserve Program/Conservation Reserve Enhancement Program (10 to 15 year contracts that involve removing cropland or marginal pastureland from agricultural production).

The Federal Agriculture Improvement and Reform Act of 1996 (THE FARM BILL) repealed several Conservation Programs and combined the functions of these programs into the Environmental Quality Incentives Program (EQIP).

The Cumberland County FSA Office received \$232,607 for 2004 EQIP. Under this program farms are ranked to determine funding eligibility, by the NRCS, based on environmental benefits. During 2004, approximately \$207,094 worth of cost-sharing was paid to eligible farmers and landowners.

The Conservation Reserve Enhancement Program (CREP) is a federal-state natural resource conservation program targeted to address state and nationally significant agricultural related environmental problems. Through CREP, program participants receive financial incentives from USDA to voluntarily enroll acreage in CREP for contracts of 10 to 15 year periods. Participants remove cropland or marginal pastureland from agricultural production and convert the land to native grasses, trees, and other vegetation. Through CREP, Pennsylvania farmers will be able to join other farmers and states in protecting the environmental resources of the Chesapeake Bay. This will help lower water temperatures, increase dissolved oxygen and provide wildlife habitat. To date, Cumberland County has completed 210 CREP contracts totaling 4453.0 acres. The Fiscal Year (FY) 2004 annual rental payments issued to Cumberland County participants equaled \$315,730.

Additional CREP payments were also issued as cost/share and/or incentive payments equal to \$388,423.

Additional details concerning any of these programs can be obtained by calling the County Office at 717-249-3924 or by visiting the County Office at 43 Brookwood Avenue, Suite 2, Carlisle, PA.



Steven M. Spangler
Land Management Group Supervisor
42 Burnside Drive
East Berlin, Pennsylvania 17316

877-877-9107

PENNSYLVANIA GAME COMMISSION

Cumberland County Cooperators Habitat Accomplishments through 2004

Location	Switchgrass – acres	Other Warm Grass – acres	Streambank Fence – miles	Border Cut – acres	Wetlands – number	Cooperators – number
SGL 169	0	0	0	0	0	0
SGL 230	0	0	0	0	0	0
SGL 305	0	0	0	0	0	0
FGP 153	4	0	0	0	0	1
FGP 201	0	0	0	0	0	0
TOTALS	4	0	0	0	0	1

Table 1. Accomplishments in 2004 through CREP. Royer machine performed 89 acres of rejuvenation cut on SGL 169 hedgerows.

Location	Switchgrass – acres	Other Warm Grass – acres	Streambank Fence – miles	Border Cut – acres	Wetlands – number	Date Established
SGL 169	322	169	0	37	9	1968-2004
SGL 230	20	5	0	7	0	1994-2004
SGL 305	0	0	0	3	0	1994-2004
FGP 153	130	192	7.1	30	5	1994-2004
FGP 201	0	0	0	2	0	1994-2004
TOTALS	472	366	7.1	79	14	

Table 2. Accomplishments through December 2004.

Location	Seedlings De- livered	Seedlings Planted/ acres	Food Plot Mix Delivered/ lbs.	Nest Boxes Delivered	Nest Boxes Installed	Pheasants Released
SGL 169	0	1	900	0	0	1640
SGL 230	0	0	120	0	0	655
SGL 305	0	0	0	0	0	0
FGP 153	8100	0	590	33	0	295
FGP 201	700	0	140	0	0	0
TOTALS	8800	1	1750	33	0	2590

Table 3. In addition, the above habitat improvements, etc., were accomplished in 2004.

The Pennsylvania Game Commission's Food & Cover Corps has been extremely busy with maintaining infrastructure and habitat improvements on state game lands this past year. Our personnel support CREP, WHIP, WRP, EQIP, etc. on private lands, as well as maintaining the state game lands.

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES BUREAU OF FORESTRY

The Forest Land Enhancement Program (FLEP), authorized by Congress under the 2002 Farm Bill, has had its funding restored to 25% of the previous levels. Funds for next year for the State of Pennsylvania are unlikely to exceed \$100,000.00.

ON THE MICHAUX STATE FOREST

Timber Sales

Nine timber sales involving 598 acres were sold during 2004. This generated \$306,155.00 for the Common wealth.

Fuelwood

392 permits for 722 cords generated revenue in the amount of \$7,112.00

Erosion Control and Wildlife

23 acres of haul roads, log landings, and wildlife openings were seeded.

Tree Planting

600 white oak acorns were planted on 21 acres to enhance species diversity, benefit wildlife, and reinforce oak regeneration. More planting is planned on these sites in 2005.

Deer Fences

8' woven wire deer exclosures have been installed at several locations across the Michaux State Forest. Twenty-two fence exclosures, involving 728 acres and 22.6 miles of fencing (perimeter) have been erected to protect hardwood regeneration from deer browsing.

CUMBERLAND COUNTY LANDOWNER ASSISTANCE

Bruce W. Kile, Service Forester with the Department of Conservation and Natural Resources, Bureau of Forestry, assisted 56 landowners in the county in 2004. The technical assistance provided included timber management, marketing wildlife habitat enhancement, erosion control, insect and disease identification and control recommendations, riparian buffer planting, tree planting plans, and environmental education.

Urban Forestry

Carlisle, Camp Hill, Lemoyne, and the Carlisle Barracks have again been recognized as Tree Cities for 2004. The national Arbor Day Foundation, in cooperation with the U.S. Conference of Mayors, and the national League of Cities, recognized the town for meeting the high standards required.

2004 FOREST HEALTH

Contrary to last year (2003), this most recent growing season was somewhat normal: average precipitation and warm. That, fortunately, provided conditions less likely to encourage leaf diseases and foliage blights such as anthracnose. Most trees made it through with only one set of healthy leaves.

With one notable exception, our annual insect and disease flights over the District revealed no visible insect defoliation. Egg mass plots taken in late summer confirm low gypsy moth populations for next spring. For the third year running, no gypsy moth spray program is planned. The occasional damp weather was enough for continued development of the *Entomophaga maimaiga* fungus, which is the primary natural control of the gypsy moth.

Elongate hemlock scale populations (a native insect) continue to increase in the South Mountain region of Adams and Franklin Counties, south of Route 30. This is likely related to hemlock woolly Adelgid stress on the trees in this area. For 2004, five thousand *Cybocephalus nipponicus*, obtained from the New Jersey Department of Agriculture, were released on the State Forest. These tiny predatory beetles (native to Korea) serve as a biological control for the hemlock scale. Evaluation and recovery plots established in 2003 demonstrate that the beetles are now resident to Franklin County. Forty-one of the predators were recovered in the Old Forge area.

The hemlock woolly adelgid population is still thriving in our area, continuing to cause tree decline and mortality. Research, currently underway, treated a limited number of hemlocks on both State Park and Forest lands. The treatment does not provide wide area control, but should serve as a measure of direct application techniques for historic and specimen trees. We remain hopeful that the predator beetle, *Pseudoscytnus tsugae*, released on the State Forest in 2001 and 2002 will provide some natural control in time.

As a precaution against future surprises, DCNR pest managers last year set up a number of new sampling sites. Their goal is to monitor for "Sudden Oak Death" on both State and private land. This is an unresolved problem affecting the west coast in the past few years. Stay tuned...

The BIG news for our District in 2004 was the long anticipated emergence of Brood X of the 17 year periodical cicada! Following mating, each female cicada proceeded to lay 400-600 eggs in batches of 25 within a series of parallel slits on hardwood branchlets. Long after the eggs hatched and larvae dropped to the ground (to restart the cycle), most of the wounded twigs died and broke off the trees. This "defoliation" is clearly visible from the air. Franklin, Adams, and Cumberland Counties suffered a combined impact on 11, 219 acres. Most of the trees will make a full recovery.

Robert McBride
Service Forester

**PA FISH AND BOAT COMMISSION
ANNUAL REPORT FOR DISTRICT 6065
(CUMBERLAND & EASTERN FRANKLIN COUNTIES)**

This is a report of various statistics, activities and accomplishments within the 6065 District. It is by no means all inclusive of Fish & Boat Commission related activities; it covers those personnel and activities under the supervision of the assigned waterways conservation officer.

A significant administrative change occurred in 2004. Due to a vacancy in Franklin County, I was also assigned ten townships in eastern Franklin County to provide coverage. Changes like this take a period of adjustment to work out the bugs to allow for a more efficient operation.

LAW ENFORCEMENT

Law enforcement is carried out by the assigned Waterways Conservation Officer. He is assisted by four Deputy Waterways Conservation Officers. In addition to general patrols throughout entire Cumberland County, the officers also focus specific patrols on Fish Commission property plus cooperative landowner's property.

Complaints of fish violations were high in the spring of this year due to warm and sunny weekends with people fishing before the trout season. This resulted in a high number of citations being issued for this violation.

FISH & BOAT CODE VIOLATIONS FOR 2004

Following is a compilation of the type and number of the various violations encountered by officers of the District in the year 2004.

- Total prosecutions Fish & Boat Code: 149
- Non-Fish & Boat Code violations: 1 (Controlled substance - marijuana)

Of the 149 citations issued, 136 pled guilty and 11 hearings were held at the District Justice level. This resulted in 10 cases found guilty and one case was dismissed.

Warnings given for minor infractions:

- Fish Code - 120
- Boat Code - 53

POLLUTIONS

First, I want to thank the Cumberland County Conservation District for all their help during the year. We assisted each other to identify and handle problem areas before any pollution occurred. However, with all the rain during the summer, there still were a number of pollutions. These were handled by DEP, Conservation District or myself. Sediment is still the number one pollutant.

SUMMARY

Cumberland County is a busy, diversified district itself, then include eastern Franklin County. Fortunately, with the help of dedicated and selfless deputies and those who help in stocking trout, not to mention other concerned individuals, we are able to provide timely and efficient service to all. Thanks to those who gave their time and efforts on behalf of our aquatic conservation efforts. Special recognition is given to our deputy waterways conservation officers along with the valuable assistance from the PA State Police and various municipal police agencies throughout the district.

Type of Violations	# of Cases
Fishing without a license	34
Boating w/o PFD's (life jackets)	25
Misuse of property (Fish Comm or cooperative landowner)	24
Fishing Approved Trout Waters before the season	21
Use of bait in special regulations area	15
Fishing in kids area	7
Over the limit of fish	3
Trespassing on dam breast	3
Boating w/o safety certificate	2
False information to officer	2
Borrowing a fishing license	2
Littering	2
Transferring sale of boat w/o title	2
Lending a fishing license	1
Fishing w/o Trout stamp	1
Operating boat after sunset w/o lights	1
Boat capacity plate violation	1
No wake violation	1
Operating kayak on state property w/o permit	1
Maintaining fire on state property	1