

# **CLEAN AND CLEAR BY 2040**

**Operating with a bias towards action** 

Photo: Donegal Trout Unlimited at Clean Water Fund project site



## Pennsylvania's State Constitution states...



"...the people have the right to clean air, pure water, and to the preservation of the natural, scenic, historic and esthetic values of the environment."

- Article I, Section 27





How Lanca	ster Co	ounty Co	mpares
	Lancaster	Pennsylvania	United States
Average Size of Farm	78 acres	130 acres	442 acres
# of Certified Organic Farms	139	803	14,217
Ranked Value of Lancaster's Milk		1st 🔵	8th
Average Age of a Farmer	48.7	56.1	58.3
# of Dairy Farms	1776	7048	40,000
Ranking of # of Eggs Produced	1st	1st	1st
Number of pigs	359,505	1,250,000	72,900,000



#### Lancaster County is the most productive non-irrigated farming county in the United States.

#### Approximately 5,100 farms; average size is 77 acres (state average is 175 acres) USDA 2017 Ag Census

Jointly, the county's Agricultural Preservation Board and Lancaster Farmland Trust have 113,000 acres of farmland preserved. Nearly 80% of preserved farm owners that work with the Farmland Trust are Plain Sect Amish or Mennonite farmers. **We are the #1 county in the nation for farmland preservation.** 





### IIS News Rest Places rank



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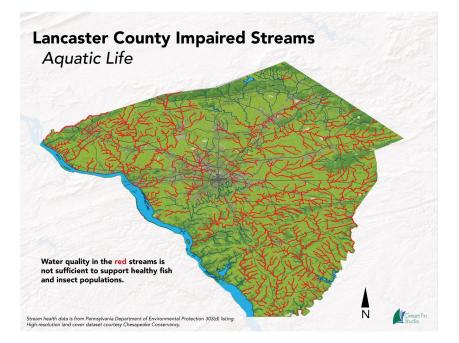
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# Investigations

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residents, affordability for housing, tax rates and quality of health ca

# More than half of Lancaster County's 1,400 miles of streams are impaired.

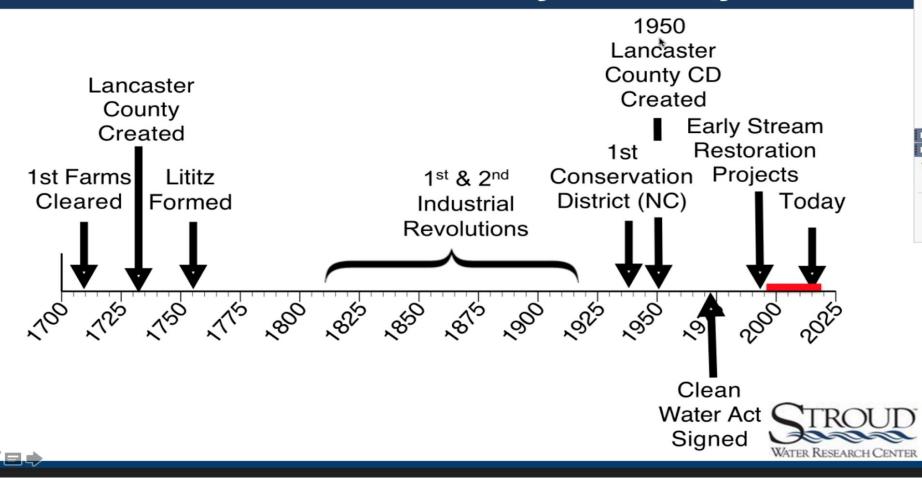


Lancaster County streams have the highest amount of nitrogen, phosphorus, and sediment in monitored areas of the Chesapeake Bay Watershed.

With a mixture of rural, suburban, and city landscapes, the sources are diverse and deeply tied to land use, **both current day and historical.** 



# Lancaster County History



## **Water Quality in Lancaster**

### Problem

More than half of Lancaster County's 1,400 miles of streams are impaired.

Lancaster County streams have the highest amount of nitrogen, phosphorus, and sediment in monitored areas of the Chesapeake Bay Watershed.

### Solution

Build and sustain a local multi-sector collaboration, supported by a strong backbone organization, to advance a community-led Common Agenda toward a shared result.





### Get the "who" before the "what" or "how"

"The most critical factor by far is an *influential champion* (or small group of champions) who commands the respect necessary to bring CEO-level cross-sector leaders together and keep their active engagement over time. We have consistently seen the importance of dynamic leadership in catalyzing and sustaining collective impact efforts."

- Stanford Social Innovation Review



### Steering Committee Members

The Partners is guided by a Steering Committee and Executive Committee. Representatives may serve a max of three terms of three years each.

New Steering Committee members are nominated by the Executive Committee and voted in by the Steering Committee.

The group meets at least four times per calendar year.



<u>Sector</u>	<u>Organization</u>	
Business	Turkey Hill Dairy, CEO	
Business-related non-profit	Economic Development Company of Lancaster, President	
Conservation and Agriculture	Lancaster County Conservation District, Manager	
Agriculture	Lancaster Farmland Trust, president	
Local Government	West Lampeter Township, zoning and planning officer	
Local Government	City of Lancaster, Director of Public Works	
Conservation non-profit	Lancaster Conservancy, lawyer and land preservationist	
Banking, local government, agriculture	Fulton Bank advisor/Rapho Township Supervisor	
Accounting, Agriculture	Acuity Advisors (Partner)/Ag Council	
Higher Education & non-profit	Water Science Institute, Executive Director	
Higher Education & watershed association	PSU Agriculture and Environment Center, Professor and Director	
Agriculture	Red Barn Consulting, President	
Business	ancaster Chamber of Commerce, Vice President	
County Government	Lancaster County, Commissioner	
Local Government and Agriculture	Government and Agriculture Salisbury Township, Supervisor	



## The Lancaster Clean Water Partners

#### **Collective Impact Approach**

We believe that an organized, collaborative effort is the best way to make a lasting, positive impact on Lancaster County. We seek to bring together strong leaders from diverse backgrounds under one common vision:

### Clean and clear water by 2040!



The structure of Lancaster Clean Water Partners



# 1 Tool That Pushed Our Progress -Common Agenda



A shared vision of clean and clear water in Lancaster County by 2040.

**Our shared mission** is to rapidly accelerate and expand the ability of the partner organizations to restore and sustain healthy Lancaster County waterways.

The Common Agenda outlines how we'll get there.



# Common Agenda

- Problem
- Solution
- Priorities
- Strategies
- Progress indicators
- Shared values

The Lancaster Clean Water Partners brings together a diverse group of partner organizations – local leaders in business, municipal public service, higher education, conservation planning, and non-profit management – with a **shared vision** of clean and clear water in Lancaster County by 2040

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#### **COMMON AGENDA**

OUR PATH TO CLEAN AND CLEAR STREAMS BY 2040





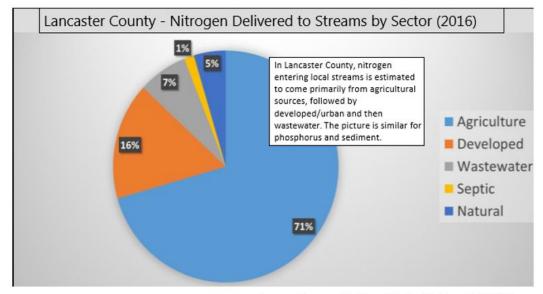


# Scaled use of sustainable, proven and promising practices (BMPs) at adequate levels for rapid success with the Lancaster Countywide Action Plan (CAP)



# CAP Opportunity

We know the best opportunities for clean water work and economic support for Lancaster's local priorities and people are in agriculture.



Source: Community Clean Water Toolbox, DEP 2018



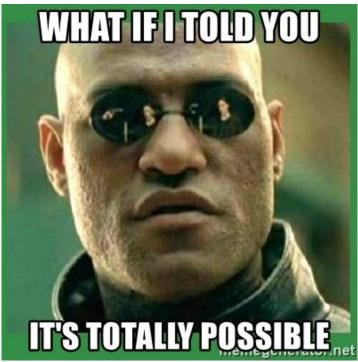
# Countywide Action Plan (CAP)

With the planning process complete, Lancaster partners are now implementing the CAP.

Lancaster is responsible for 21% of the state's nitrogen and 23% of the phosphorus reduction goals – that's a lot of work in one county!

#### What we've realized:

- It's absolutely possible
- Seriously underfunded and understaffed





# It Means We Need More Horsepower!

#### THANK YOU EPA FOR YOUR SUPPORT OF THE CAP PROGRAM!

#### The Lancaster Clean Water Partners is the lead entity along with the Conservation District.

#### The CAP Coordinator Team includes:







Mike LaSala Laurel Etter Longenecker Jeff Swinehart Jeb Musser Gordon Hoover Joellyn Warren



### It Means Our Progress Indicators Now Reflect the CAP Goals

**PROGRESS INDICATORS** 



- BMPs in place for 7.14 million pounds of nitrogen reduced by 2025
- BMPs in place for 540,000 pounds of phosphorus reduced by 2025
- BMPs in place for 222.7 million pounds of sediment reduced by 2025
- Net reduction of impaired streams to 350 miles by 2030
- 75% of adult county residents familiar with the issue, supportive, and actively engaged personally



# **CAP Implementation Projects - \$6.7 million**



# 66% use no-till or minimum till practices

### Your challenge:

Find out how many acres or % of Lancaster County has cover crops





Farmers using a **dragline to inject dairy manure** after harvest to conserve nutrients. Cover crops are planted after manure is injected to retain nutrients and control soil erosion. Expanding these practices are part of our CAP.

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Farmers use a custom made horse-drawn **dragline to inject dairy manure** after harvest to conserve nutrients. Meeting the cultural and business needs of partners is essential to soil health and community wide success.



Well-maintained buffer on farmland along Big Beaver Creek.



Lancaster Conservancy worked for 10 years in this area and recently acquired the Conewago tract at auction. It would have been sold for commercial development doubtfully would have allowed the same the MS4 project presented here to proceeded as planned.



### Legacy Sediment Removal - BSR Project and Oak Tree Development





Donegal Trout Unlimited has worked with Camp Andrews for stream restoration success



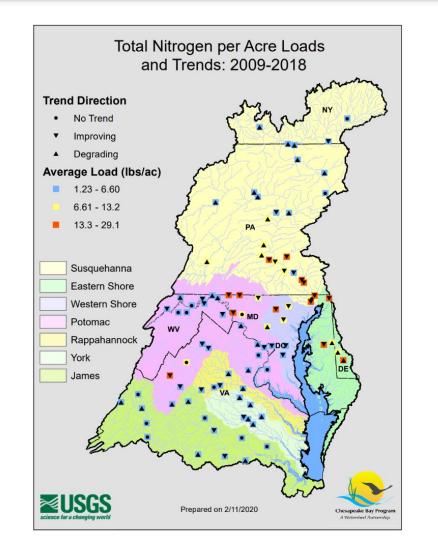








### USGS trends







### The entire community is working on the same goal at the same time to improve our local water quality

# **Delisting Strategy**



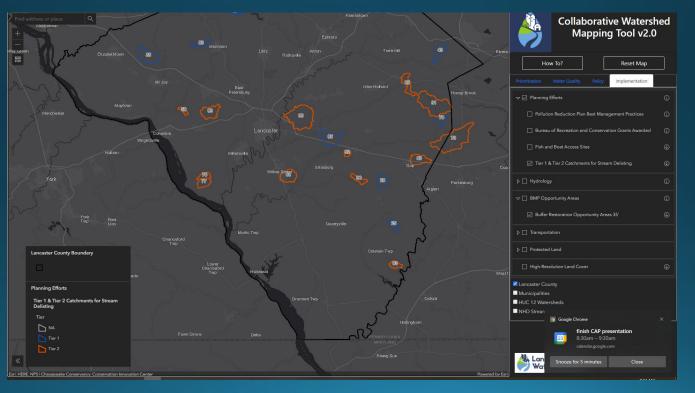


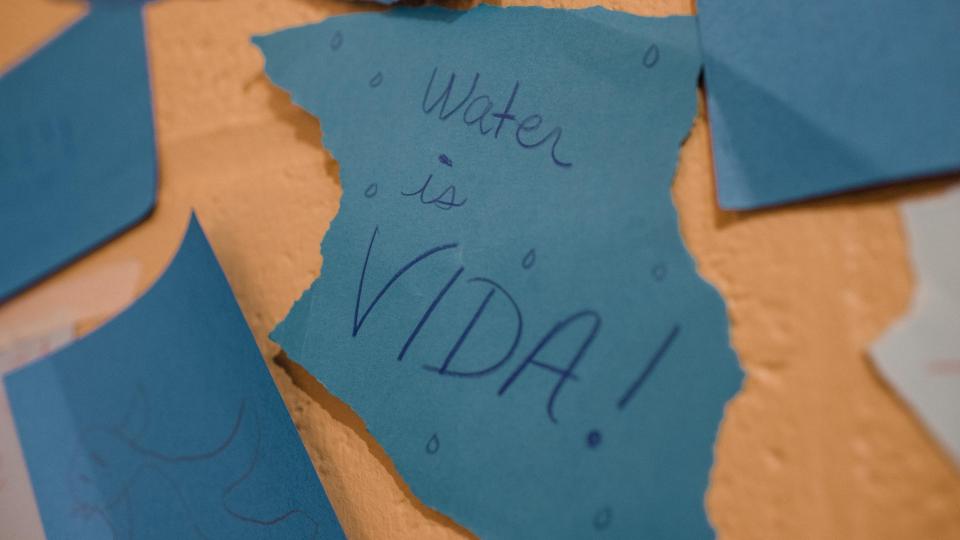


#### Lancaster Clean Water Partners Collaborative Watershed Mapping Tool



### Access: https://lcwp.cicapps.org









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