



# THE CONEWAGO CREEK INITIATIVE

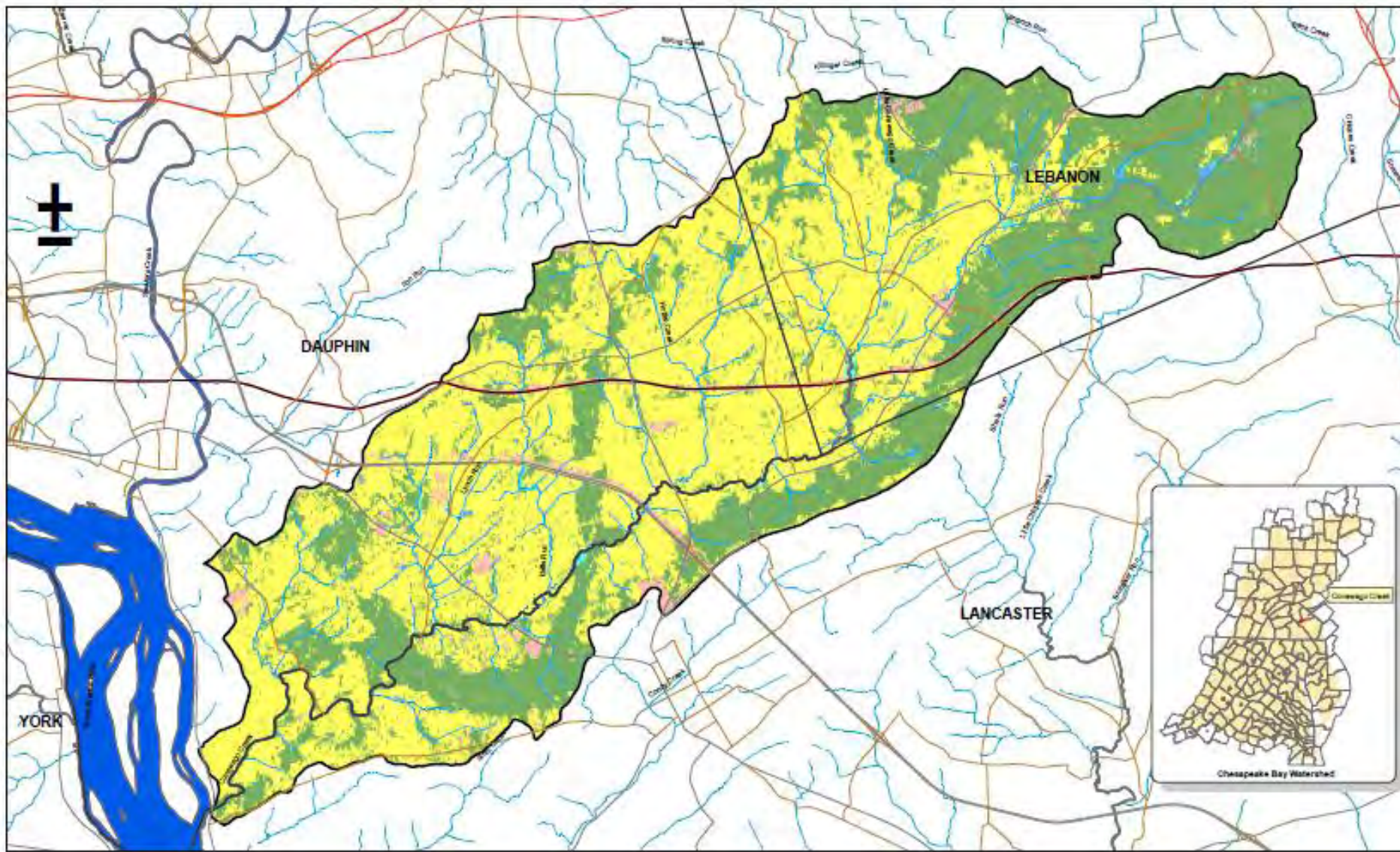
*Community working together for a  
restored Conewago.*

*A Retrospective: 2009 - 2013*

**Matt Royer**

**Director, Agriculture & Environment Center  
Penn State College of Agricultural Sciences**





**Legend**

- |                |                     |                   |
|----------------|---------------------|-------------------|
| Conewago       | Stream - Identified | water             |
| Countyline     | Stream - Potential  | low density urban |
| Interstate Hwy | Reservoir           | agriculture       |
| US Hwy         |                     | forest            |
| PA Hwy         |                     | wetland           |
|                |                     | parkland          |
|                |                     | transitional      |

# Conewago Creek Watershed

0 0.5 1 2 Miles

Map produced by the Land Analysis Laboratory, Department of Crop and Soil Science, College of Agricultural, Sciences and Forestry, Pennsylvania State University  
 Data Sources: USGS National Hydrologic Data, USDA National Forest Inventory, USDA National Wetlands Inventory, USDA National Forest Inventory  
 Conewago Creek Watershed, York County, PA, 2000



# Conewago Creek Timeline

## “The Stars Align” (M Hubler)



**CONEWAGO CREEK**  
INITIATIVE



**TCCCA  
Founded**



Photo by DCCD

**DCCD's First  
319 Grant**



**Conewago  
Initiative NFWF  
Grant to PSU**

2002

2006

2007

2008

2009

2010

**Conewago  
WIP  
Finalized**



**TCCCA  
Hershey  
Meadows  
319 Grant**



**USDA  
Showcase  
Watershed  
Designation**



Photo by NRCS

# Conewago Creek Initiative

## The Partnership



**Alliance for the Chesapeake Bay  
Aquatic Resource Restoration Co.  
Capital Area RC&D  
Chesapeake Bay Foundation  
Chesapeake Commons  
Dauphin County Conservation District  
Elizabethtown Area Water Authority  
Elizabethtown College  
Lancaster County Conservation District  
LandStudies, Inc.  
Lebanon County Conservation District  
Londonderry Township  
Lower Dauphin High School  
Milton Hershey School  
PA DEP  
Penn State Public Media  
Penn State University**

**Red Barn Consulting  
RGS Associates  
South Londonderry Township  
Stroud Water Research Center  
Susquehanna River Basin Commission  
Tetra Tech  
Tri-County Conewago Creek Association  
USDA Agriculture Research Service  
USDA NRCS  
US Fish and Wildlife Service  
US Geologic Survey  
Viable Industries, LLC  
Wild Resources, Inc.  
ZedX, Inc.**

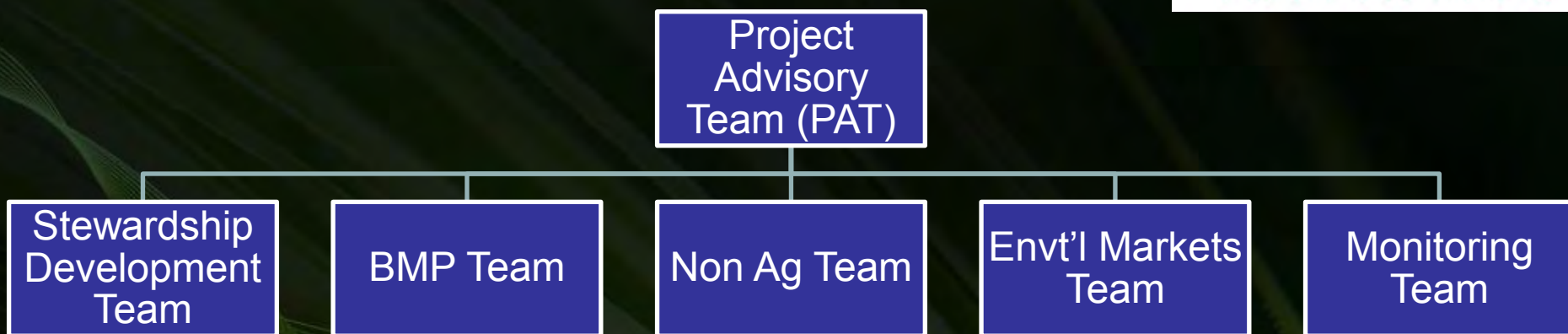


# Conewago Creek Initiative

## Organizational Structure



**CONEWAGO CREEK**  
INITIATIVE

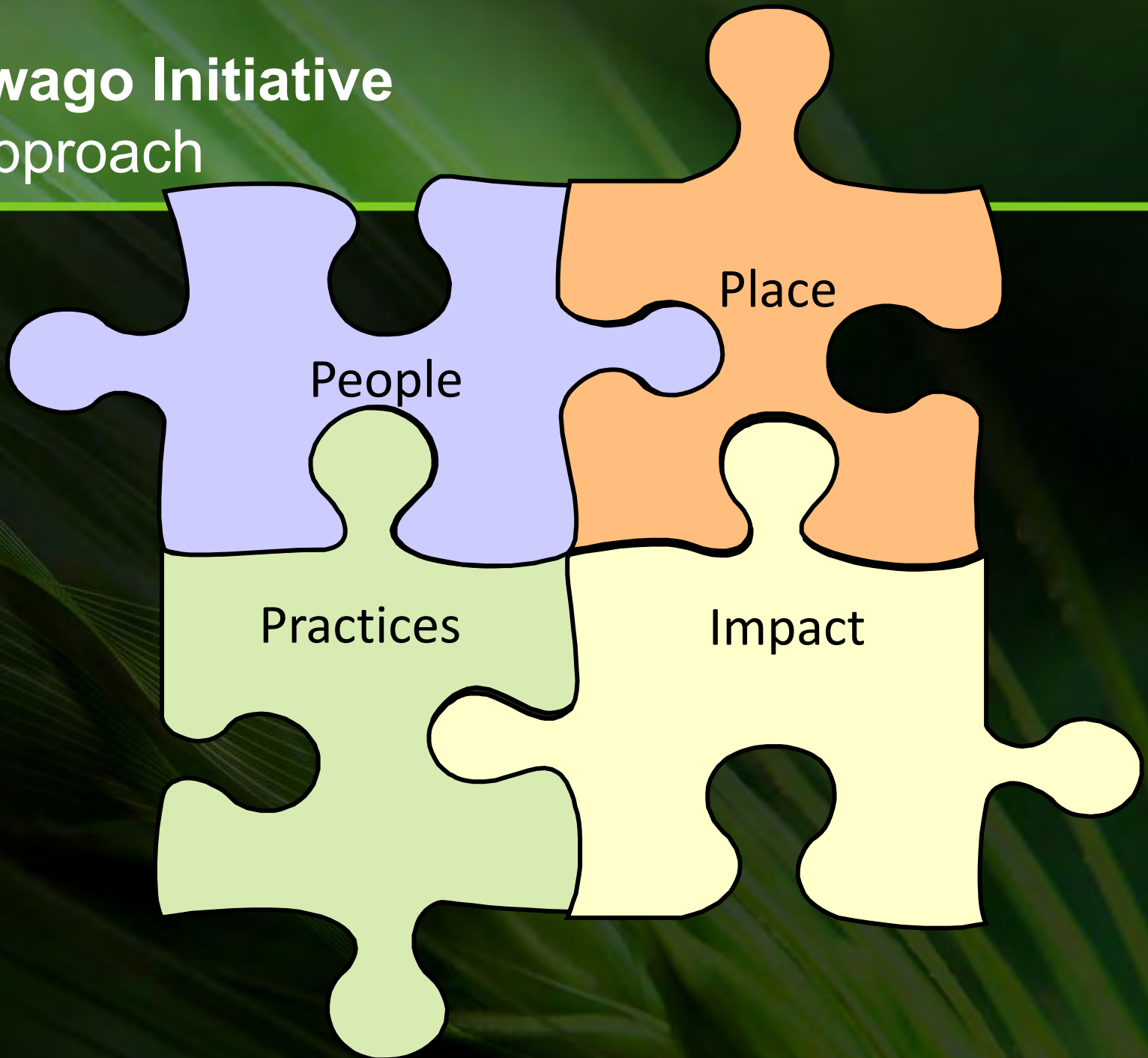


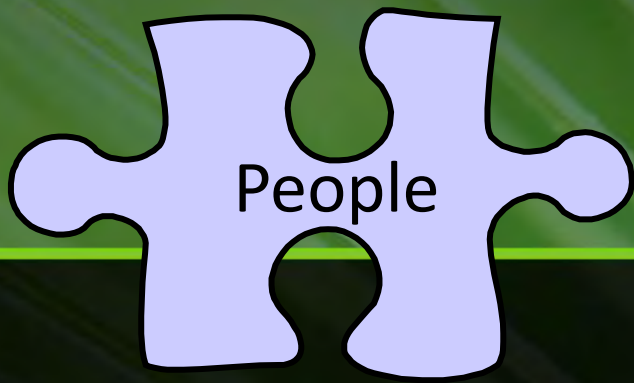
**Staff support provided by  
Penn State Agriculture and Environment Center**

- Project Coordinator (M. Royer)
- Assistant Project Coordinator (K. Kyler)
- Student Interns

# Conewago Initiative

## Our Approach





- Over 100 residents engaged to create a vision for the watershed
- Over 40 community events engaging 1,300 participants
- 135 “Stream Team” volunteers trained, 3,400 youth involved
- Website ([conewagoinitiative.net](http://conewagoinitiative.net)), e-newsletter, Facebook







- Communicating value of ecosystem services:  
*Stories from the Conewago*
- Identifying environmental market opportunities  
(12 nutrient trading assessments)







## Conservation Planning

Conservation Planning  
Prior to Initiative



- Farmers with Plans (70%)
- Farmers without Plans (30%)

Conservation Planning  
Since Initiative



- Farmers with Plans (98%)
- Farmers without Plans (2%)

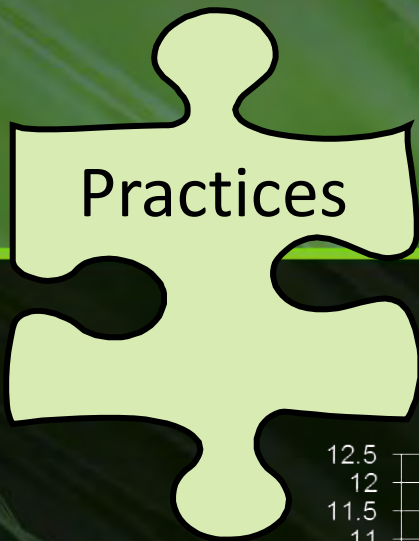


## BMP Implementation

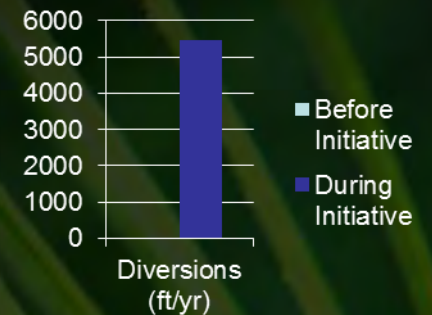
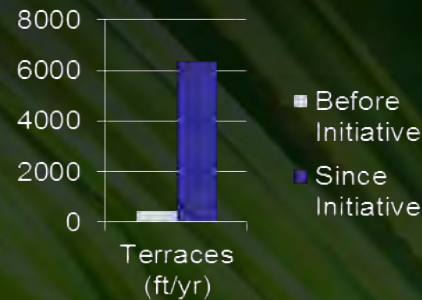
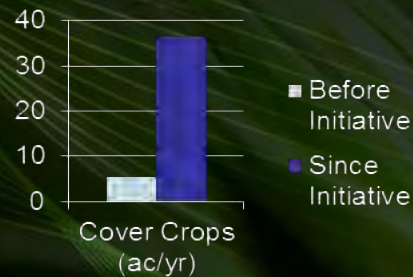
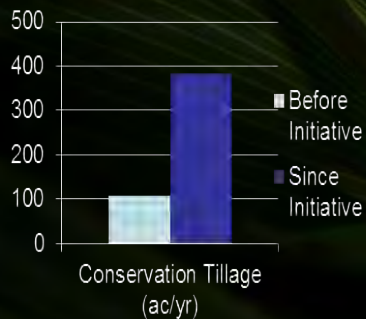
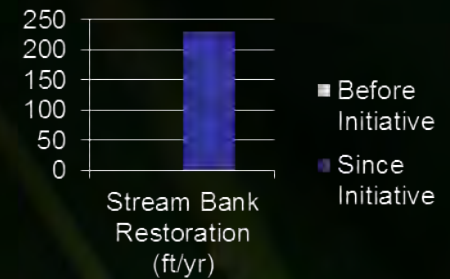
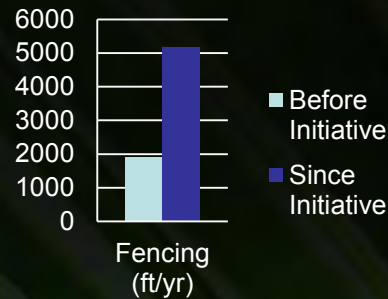
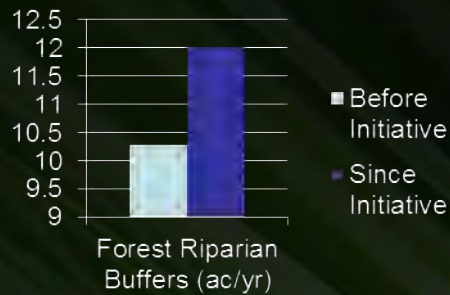
- Over 7,000 trees planted
- 60 acres riparian buffers restored
- 1,920 acres of conservation tillage
- 183 acres of cover crops
- 26,000 feet of fencing
- 4,700 feet of stream bank restoration
- 31,850 feet of terraces
- 5,475 feet of diversions







## BMP Implementation Rates





## Stormwater Program

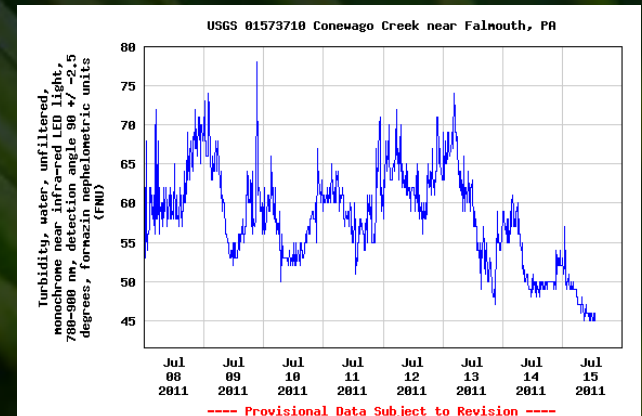
- 22 stormwater plans created
- 14 stormwater BMPs implemented
- Conservation Toolbox for Municipalities created





# Impact

- Comprehensive monitoring plan
- Two USGS gage stations



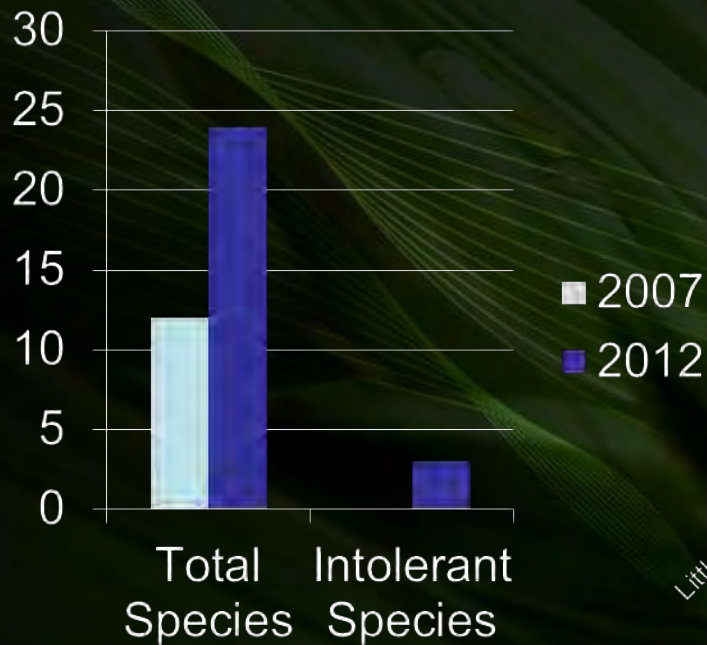




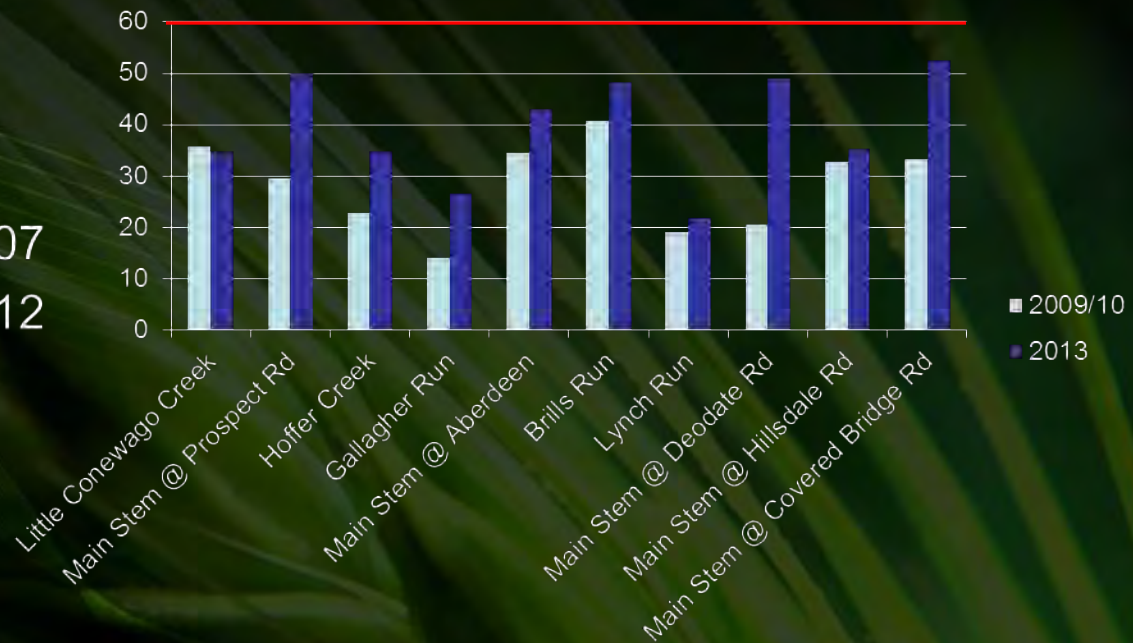


Impact

### HM Fish Sampling



### Macroinvertebrate Sampling (IBI Scores)





**Visit us on the web at:**

**[www.conewagoinitiative.net](http://www.conewagoinitiative.net)**

**Watch A Conewago Story at:**

**[www.conewagoinitiative.net](http://www.conewagoinitiative.net)**

***Funding for the Conewago Creek Initiative provided by: National Fish and Wildlife Foundation, Foundation for Pennsylvania Watersheds, and our many Initiative partners***