

# Advancing Local Government Green Infrastructure Solutions



*Accelerating local implementation of the most innovative, sustainable and cost-effective strategies to restore and protect water quality and vital habitats within the Chesapeake Bay watershed.*



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# Overview of Presentation

## **Quick Introduction to NFWF**

### **Overview of Chesapeake Bay Stewardship Fund**

- ✓ **13 years of grantmaking**
- ✓ **New Business Plan for 2013-2025**

### **Local Government Green Infrastructure Strategy**

- ✓ **Program Design**
- ✓ **2012 Investments**
- ✓ **Plans for 2013**



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# ABOUT THE NATIONAL FISH AND WILDLIFE FOUNDATION

## WWW.NFWF.ORG

### WHO WE ARE

- Chartered by Congress in 1984
- 30 member Board appointed by Secretary of the Interior
  - Includes FWS Director & NOAA Administrator

### WHAT WE DO

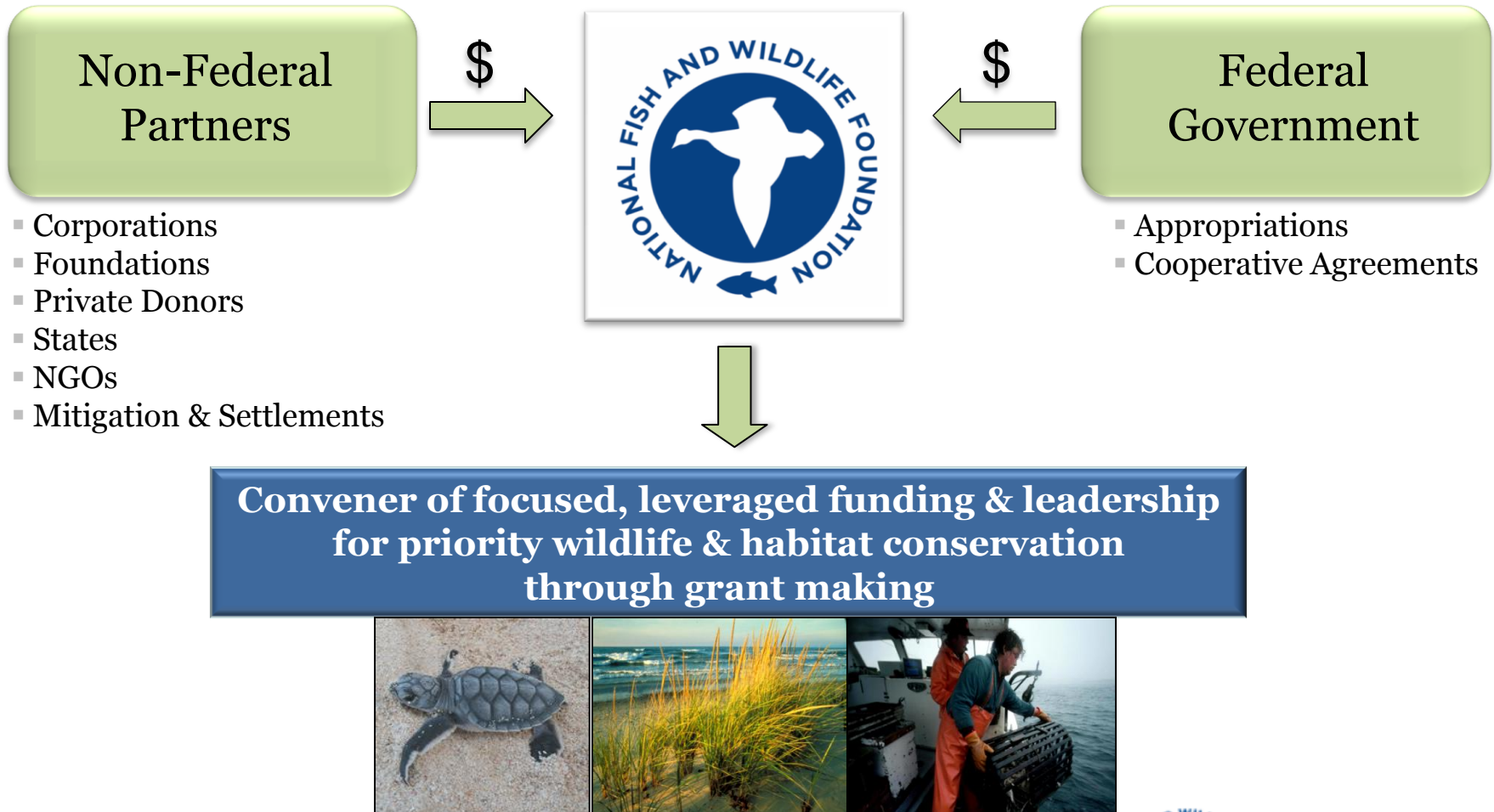
- Sustain, restore, enhance the nation's natural heritage
- Bring collaboration among federal agencies & private funders
- Create common ground among diverse interests

### HOW WE DO IT

- Leverage private money with public funding – average 3:1
- On-the-ground conservation projects through grant making

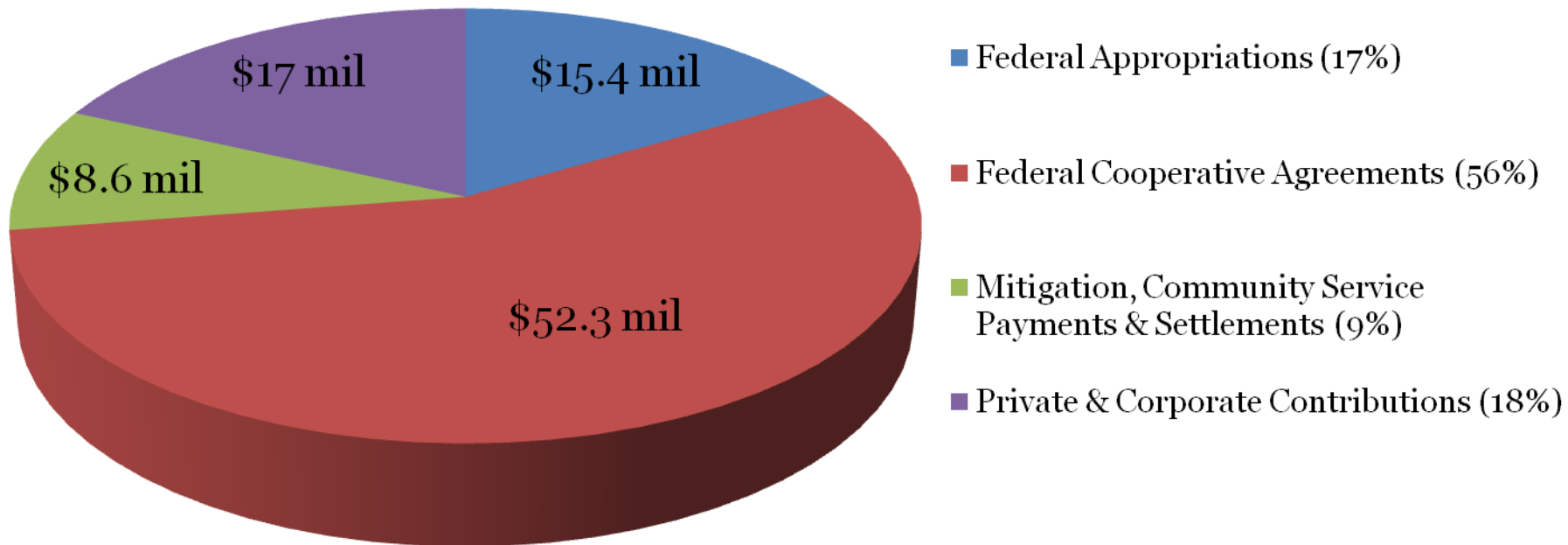


# How Do We Do It



# How Do We Do It

FY 2011 Disbursements to Grantees = \$93.3 million







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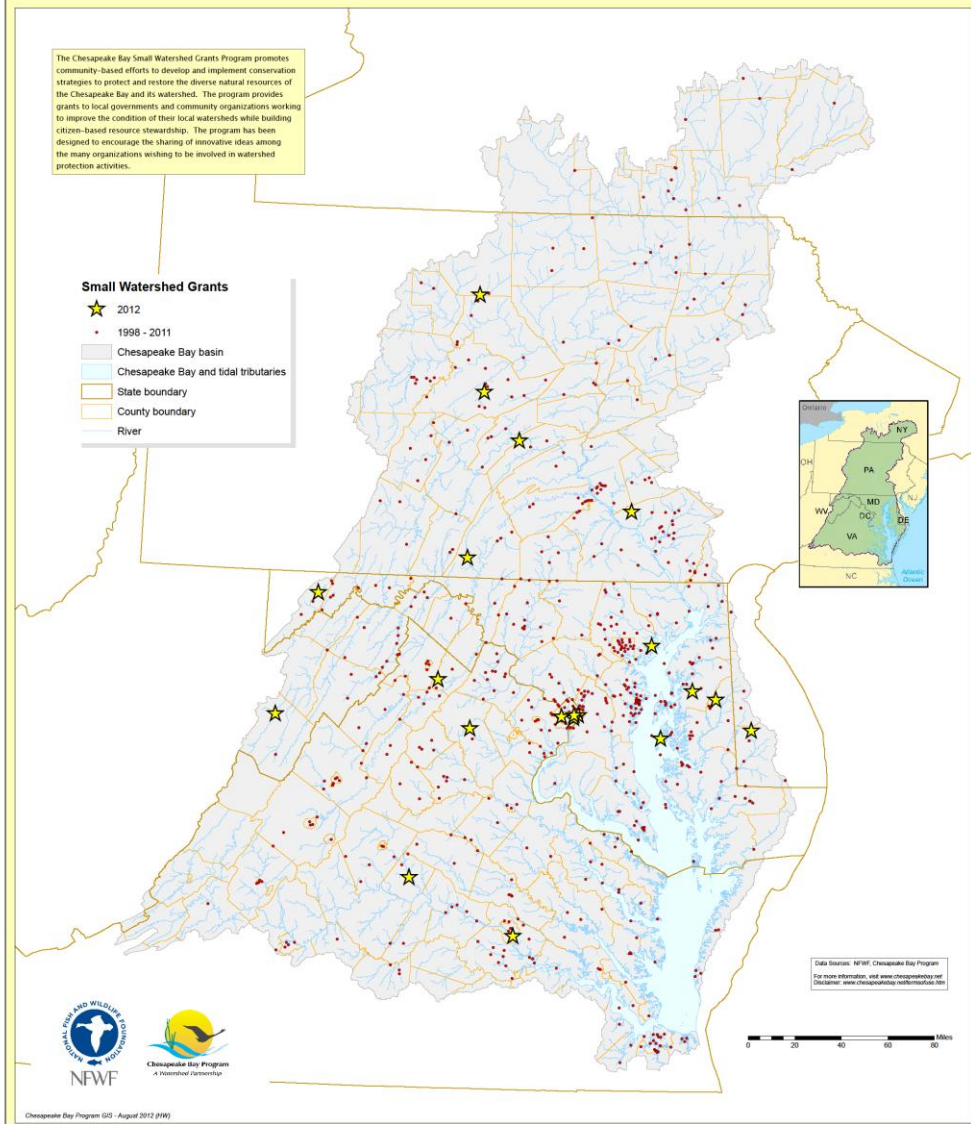
## Investments 1999-2012

- 788 grants totaling over \$84M
- \$121M in matching funds
- Funded c. 30% of requests
- Awarded \$6M - \$12M per year

## Outcomes 1999-2012

- Restored 122,000 acres of habitat including:
  - 4,600 acres of wetlands
  - 142 acres of oyster reefs
  - 1,475 miles of riparian buffer
- Preserved 519,000 acres
- Engaged over 860,000 homeowners, farmers and children in conservation
- Reduced 14.4M lbs of nitrogen and 4.1M lbs of phosphorous, 490M lbs of sediment

## Chesapeake Bay Small Watershed Grants – 1998–2012



# Funding Partners

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**Chesapeake Bay Program**

*A Watershed Partnership*



**Altria**



DISTRICT  
DEPARTMENT  
OF THE  
ENVIRONMENT



**Walmart**   
Acres for America

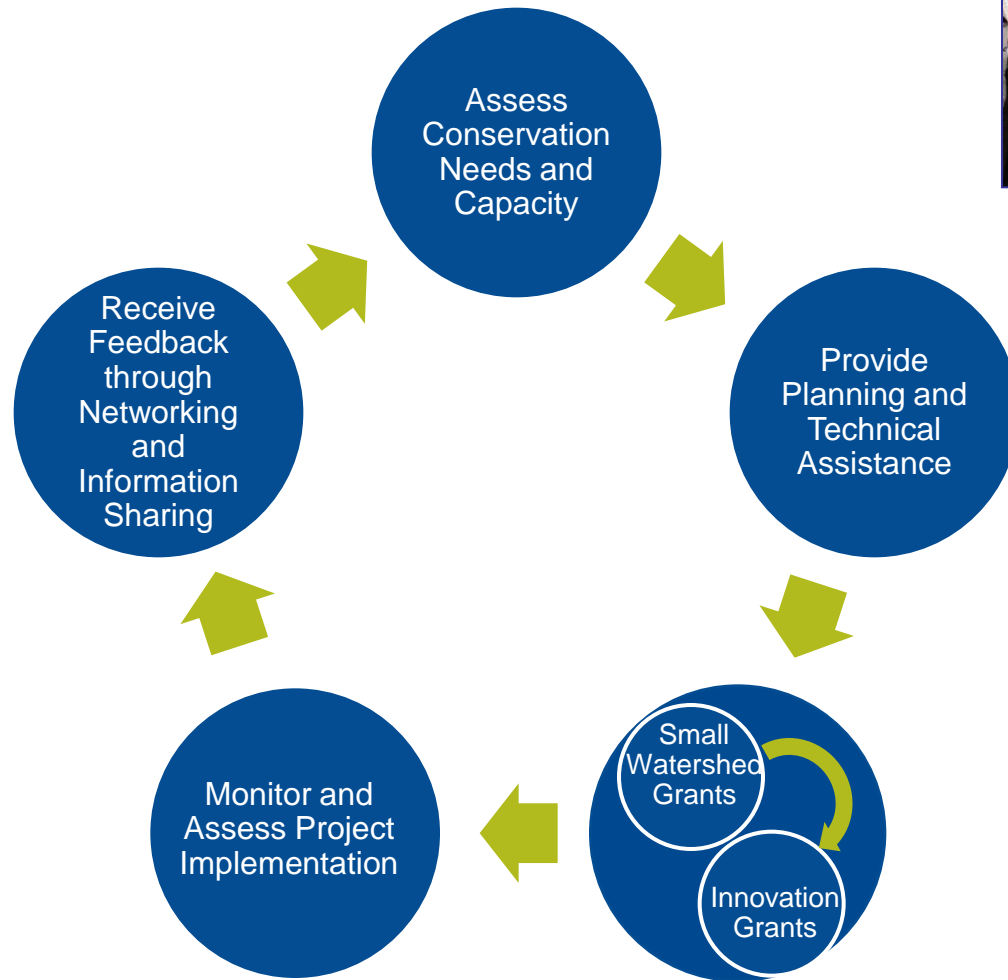


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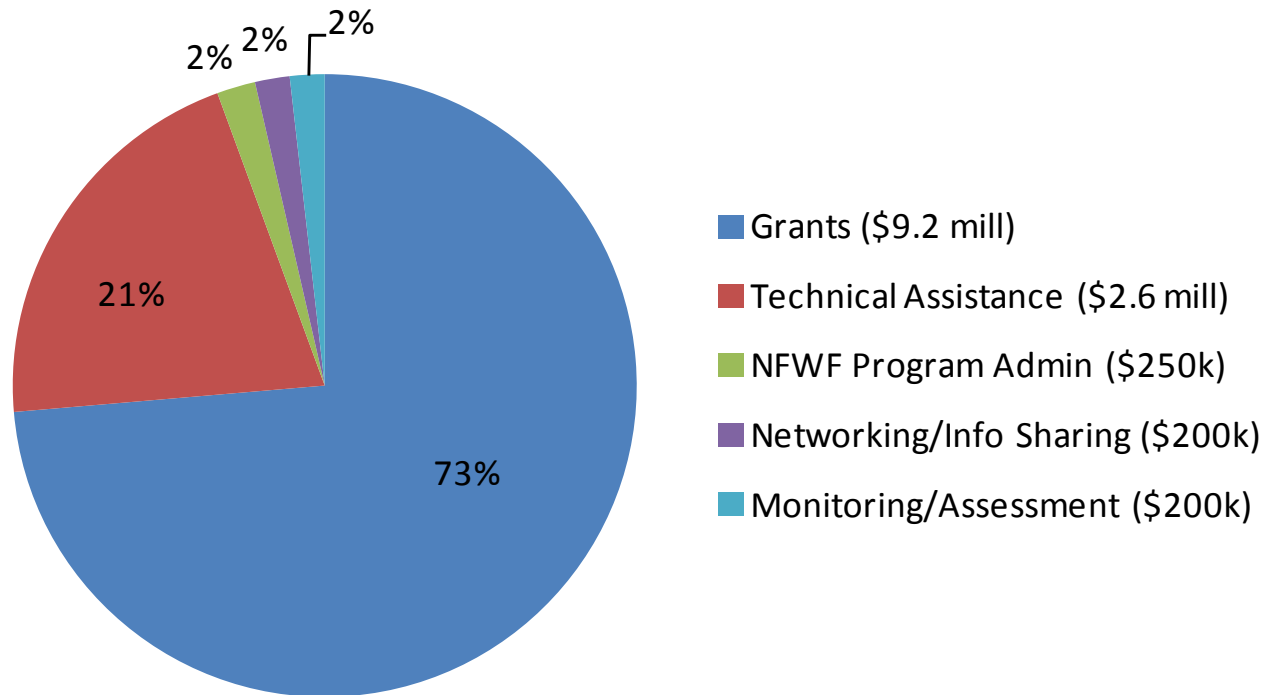
# Implementation Tools



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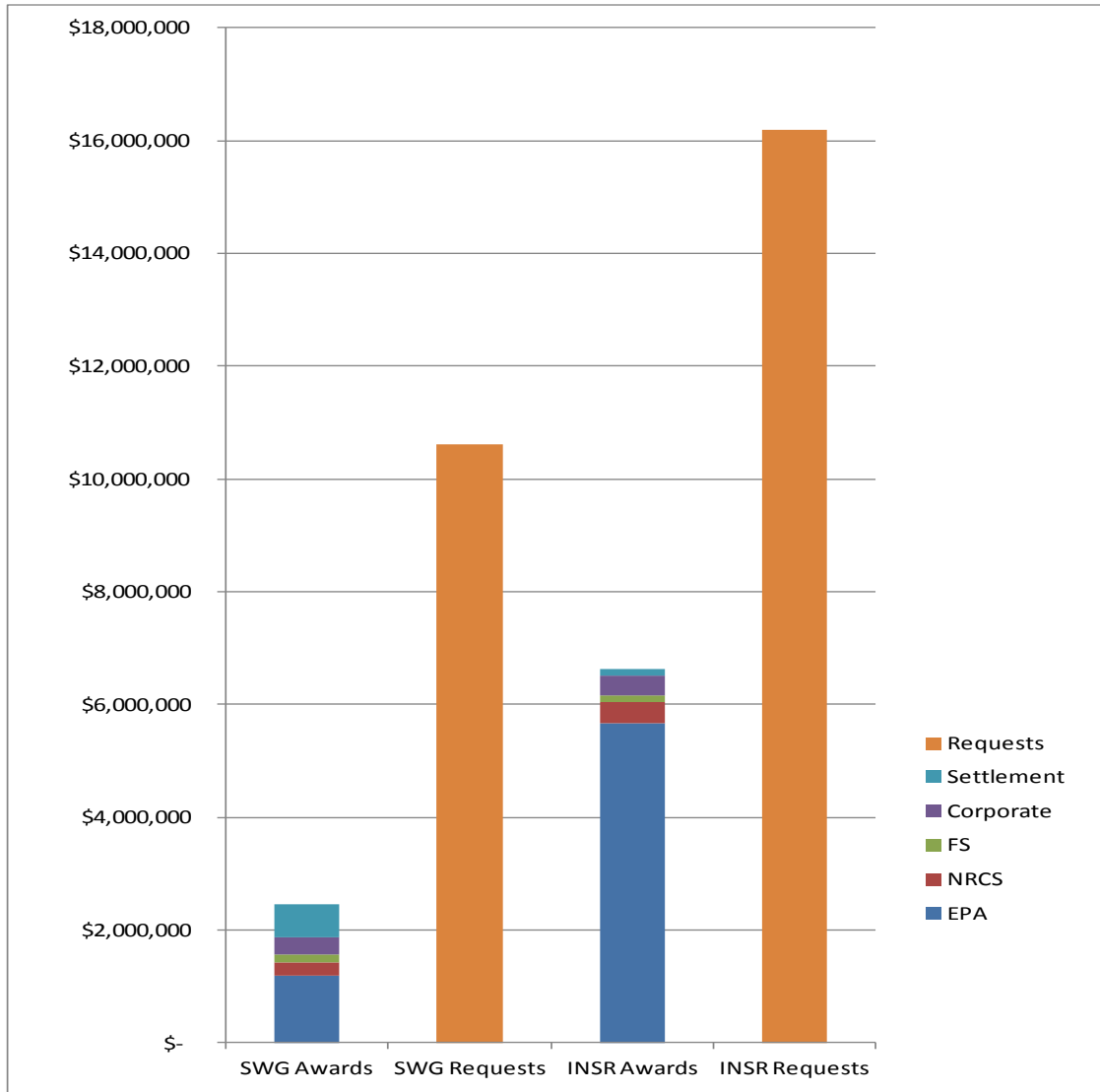


# 2012 Conservation Investments



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# 2012 Grants\* Awarded vs. Requests



Awarded \$9.2 million in grants out of \$26.8 million in requests.

## Funders

\$7 million EPA

\$600k NRCS

\$250k Forest Service

\$680k Corporate

\$680k Settlement Funds

Leveraging \$13.5 million in grantee matching funds

*\*Does not include funding and requests for technical assistance*



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## 1. Focus on High Priority Targeted Watersheds

Use a science-based approach to identify watersheds where investments result in quantifiable WQ, habitat and species improvements and where success can serve as a showcase

## 2. Use Innovation and Technology to Accelerate the Pace and Drive Down the Costs

Tackle issues that matter across the watershed – manure, stormwater finance, fisheries management, and energy development. Support new restoration techniques, leverage existing funds and advance new eco-system markets.

## 3. Advance Local Government Green Infrastructure Solutions

Encourage adoption and scale-up of best practices. Showcase successful strategies and ensure that information and technology is shared across key stakeholder groups.



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### Species Outcomes:



**Alewife**  
*Alosa pseudoharengus*



**Blueback Herring**  
*Alosa aestivalis*



**Eastern Brook Trout**  
*Salvelinus fontinalis*



**Chesapeake Blue Crab**  
*Callinectes sapidus*



**American Oyster**  
*Crassostrea virginica*

### Other Outcomes:



**Water Quality**

### Goal

### Progress

200 additional miles of stream occupied

**0%**  
of goal

Improve status of 12 subwatersheds

**0%**  
of goal

New populations in 15 subwatersheds

**0%**  
of goal

215 million spawning-age females

**0%**  
of goal

Restore populations in 5 subwatersheds

**6.7%**  
of goal

Reduce Nitrogen pollution by 6.3M pounds

**2.9%**  
of goal

Reduce Phosphorous pollution by 1M pounds

**1.6%**  
of goal

### Initiative Strategies:

### Goals

#### Habitat Conservation:

0 acres

TBD

Acres protected under long-term easement

#### Habitat Restoration:

10 acres

150

Acres of oyster reef restored in 5 priority rivers

60 acres

400,000

Acres of land restored in targeted watersheds

164 miles

2,500

Miles of riparian buffer restored in watersheds

13 miles

200

Miles of opened to fish passage

152 acres

7,500

Acres of wetlands restored

#### Habitat Management:

40 miles

2,000

Miles of livestock exclusion fencing installed

#### Capacity, Outreach, Incentives:

177,632

TBD

Private landowners reached through technical assistance

5

50

Local govs with developed financing strategies

#### Species-specific Strategies :

50 million

2 billion

Oyster spat planted in the 5 priority subwatersheds

#### Planning, Research, Monitoring:

TBD

TBD

Key streams being monitored

0

100

Percent of prioritization of stream barriers complete

0

TBD

Research studies completed to develop innovative approach to establishing counts of migratory river herring

0

2

Sustainable community-based quota management system developed for the Chesapeake Bay Blue Crab fishery



# Putting it All Together: Whole Watershed Approach in Lancaster County

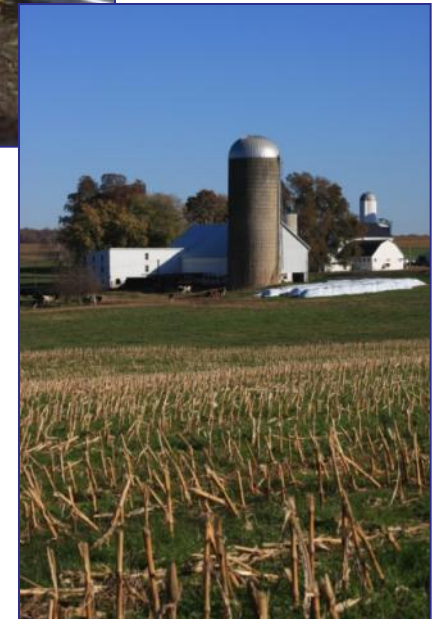
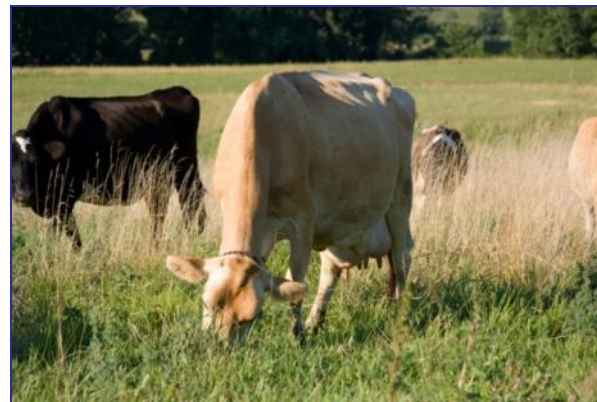
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NFWF has awarded 18 grants between 2007 and 2012 totaling \$6.6 million, and leveraging over \$12 million in matching funds.

- Restoring over 140 miles of streamside forest buffers
- Installing over 35 miles of livestock exclusion fencing
- Restoring 110 acres of wetlands
- Implementing BMP's on 9,500 acres of farmland
- Treating runoff from 91 acres of developed lands using innovative green infrastructure strategies
- Engaging 3000 volunteers in on-the-ground restoration
- Reducing pollution to the Chesapeake by 1.2 mill lbs of nitrogen, 560k lbs of phosphorous and 6,900 tons of sediment per year

## Grantees

Lancaster Farmland Trust  
Lancaster County Conservation District  
Chesapeake Bay Foundation  
Environmental Defense Fund  
American Farmland Trust  
Stroud Water Research Center  
Pennsylvania State University  
City of Lancaster  
LIVE Green  
Center for Watershed Protection



# Advancing Local Government Green Infrastructure Solutions

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- Showcase how green/environmental solutions can be woven into capital improvement projects already on the books
- Develop financing strategies that help local governments determine the most appropriate and effective solutions to funding long-term environmental needs
- Build technical capacity/expertise to enhance and lower the cost of implementation
- Support the networking of local governments so that they can share and learn from one another



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# 2012 Focus on Local Gov't Green Infrastructure

## Grants

- \$20k - \$200k Small Watershed Grants
- \$200k - \$500k Innovation Grants

## Technical Assistance

- Up to \$40k in “walk up” contractual support
  - pool of consultants
  - rolling application process
- Up to \$150k in contractual support for capacity building
  - pool of pre-screened consultants
  - annual selection process
  - facilitation and project management support
  - targeted networking and training opportunities



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# 2012 Local Government Awards At-a-Glance

## Grants for Green Infrastructure Projects

- ✓ 10 grants totaling \$2.1 million

## “Walk-Up” Technical Assistance

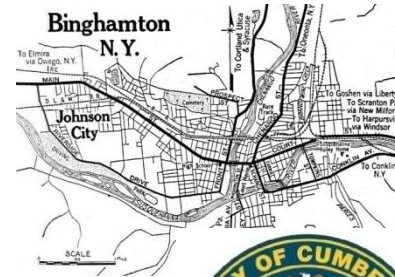
- ✓ 22 awards totaling \$700k

## Local Government Capacity Building

- ✓ 14 participants totaling \$1.8 million in assistance

## Networking for Local Governments and T.A. Providers

- ✓ Pre-Forum Workshop at 2012 Chesapeake Watershed Forum
- ✓ Participation in annual Chesapeake Stormwater Partners Retreat in April
- ✓ Exploring workshop series with Alliance for Chesapeake Bay and LGAC





# What Kind of Help Are they Getting?

## Assessment and Prioritization

- Stormwater site and watershed assessments
- Stream corridor assessments
- WIP assessments

## Financing Strategies

- Stormwater financing
- Green infrastructure financing
- WIP financing

## Design and Implementation

- Innovative stormwater management projects (Low Impact Development)
- Stream corridor and wetland restoration projects

## Program Development

- Integrating Green Infrastructure into capital improvement programs
- Illicit discharge detection and elimination (IDDE)
- Turf-to-trees and urban forestry
- Stormwater maintenance

## Stormwater Outreach/Community-based Social Marketing.



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# Who is Seeking Help?

## Assessment and Prioritization

Harrisonburg (VA), Bridgewater (VA), Petersburg (VA), Mercersburg (PA), Waynesboro (VA), East Hempfield (PA), Lebanon Co (PA), Frederick County (VA), Clarke Co (VA), Warren Co (VA), Shenandoah Co (VA), Page Co (VA), Somerset Co (MD), Talbot Co (MD), Kilmarnock (VA), Warwick Twp (PA), Wicomico Co (MD), Mt. Rainier (MD), Easton (MD)

## Financing Strategies

Lancaster Co (PA), City of Lancaster (PA), Oxford (MD), Calvert Co (MD), Mathews Co (VA), Gloucester Co (VA), Middlesex Co (VA), King and Queen Co (VA), King William Co (VA), Essex Co (VA)

## Design and Implementation

City of Lexington (VA), City of Richmond (VA), Town of Forest Heights (MD), City of Cambridge (MD), Wrightsville Borough (PA), Charles Town (WV), Ranson (WV), Laurel (DE), Bethel (DE), Frederick Co (MD), Havre de Grace (MD), Schulykill Co (PA), Washington (DC), Centreville (MD), Greenwood (DE), Clarke Co (VA)

## Program Development/Green Infrastructure Integration

City of Hampton (VA), Scranton (PA), Prince George's Co (MD), Howard Co (MD), James City Co (VA)

## Stormwater Outreach/Community-based Social Marketing

Cumberland Co (PA), Arlington Co (VA), City of Binghamton (NY)



# Plans for Local Government in 2013

- Continue to concentrate investments in local governments demonstrating a need and ability to succeed (create models of success that can support others)
- Further develop financing strategies that meet WIP goals and reflect the needs of local governments/communities
- Build models for how local governments can fully integrate green infrastructure into existing capital improvement budgets and strategies
- Modify existing NFWF financing platform to potentially be used by local governments to finance WIPs
- Support training and networking for local government staff in partnership with Local Government Advisory Committee and invest in telling stories (successes AND failures)

# How CBC Can Help!

- Support NFWF's local government initiative – encourage full funding for EPA Chesapeake Bay Program and these important grant programs
- Support full funding of existing state infrastructure programs that upgrade sewage treatment plants and encourage integration of green infrastructure into traditionally “gray” infrastructure programs
- Analyze the potential and the cost savings to local governments associated with integrating green infrastructure improvements into “gray” infrastructure capital projects
- Encourage local governments to work with NFWF and our partners in designing financing strategies



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