# Chesapeake Bay Forestry Workgroup March 7, 2013



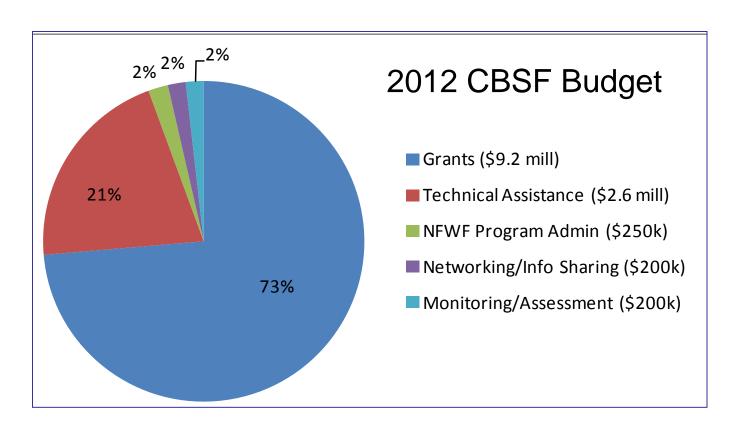
Accelerating local implementation of the most innovative, sustainable and cost-effective strategies to restore and protect water quality and vital habitats within the Chesapeake Bay watershed.





# **Chesapeake Bay Stewardship Fund Overview**

- Provide Financial Assistance
- Provide Technical Assistance
- Facilitate Information Sharing and Networking
- Monitor Project Success and Assess Program Impact







## Chesapeake Bay Stewardship Fund

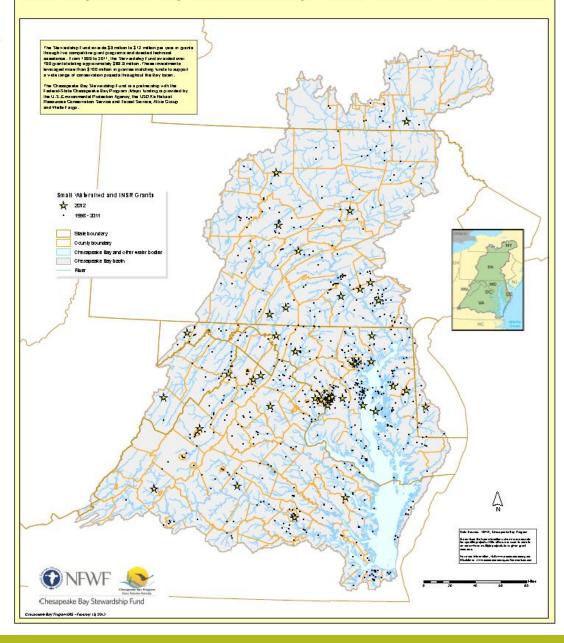
### Investments 1999-2012

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

## Outcomes 1999-2012

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

#### Chesapeake Bay Stewardship Fund Grants 1999-2012



# **Funding Partners**

















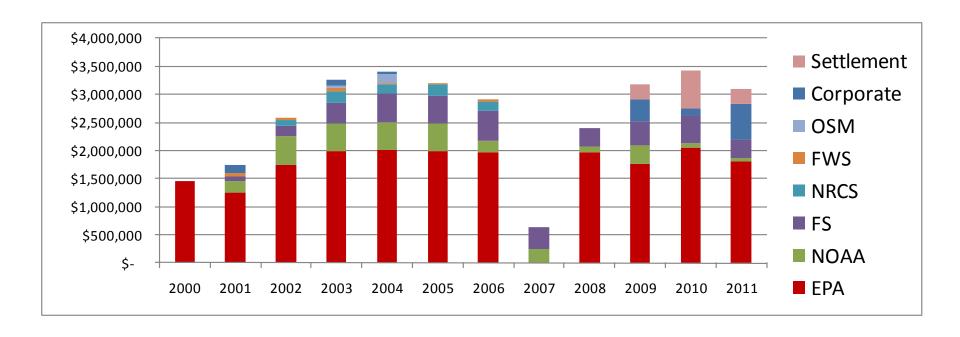








## **Small Watershed Grants: 2000-2011**







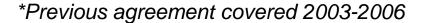
# FWG Investments: By the Numbers - 2007-2012\* 6

## **Funding**

- √ \$998,000 awarded to NFWF
- √ \$928,603 awarded in competitive grants
- ✓ \$69,397 (7%) for program management (only \$15,317 (2%) has been expended)
- ✓ Leveraged \$1.5 million in other NFWF grant funds (e.g., EPA, NRCS, Altria)
- ✓ Leveraged \$3.8 million in grantee matching funds

#### **Outcomes**

- ✓ Restored 156 miles or 658 acres of riparian forest buffer
- ✓ Installed 40 miles of livestock exclusion fencing
- ✓ Restored 512 acres of wetlands









# Forest Service Funding: Who and What

## <u>Who</u>

✓ Local Nonprofits

Clearwater Conservancy, Scenic Rivers Land Trust, Elizabeth River Project, Northern Neck Land Conservancy

✓ Regional/National Nonprofits

Alliance for the Chesapeake Bay, Piedmont Environmental Council, Ducks Unlimited, Chesapeake Bay Foundation, The Nature Conservancy, Stroud Water Research Center, Center for Watershed Protection, Potomac Conservancy, Pinchot Institute

✓ Conservation Districts and RC&D's

Clinton Co. Conservation District, Pocono RC&D, Capital RC&D, Culpeper SWCD, Adams Co. Conservation District, Western Maryland RC&D

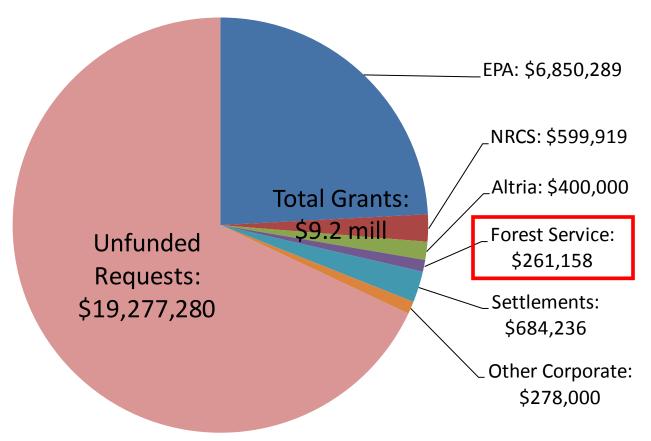
### **What**

- ✓ Riparian Forest Buffers
- ✓ Urban Tree Canopy
- ✓ Turf to Trees
- ✓ Innovative Policy and Financing





# 2012 Snapshot: Grants Awarded vs. Requests



- Projects funded by FS received over \$778k in addition
   Federal and private funds
- Over \$3.7 million to projects with buffer and reforestation outcomes
- ✓ Projects will restore 744 acres of riparian buffer along 176 miles of stream





## **Example: Upper Rappahannock Watershed**

NFWF awarded two grants for work in the Upper Rappahannock in 2009. The Piedmont Environmental Council received \$74,926 for an outreach program to promote broader participation in cost-share programs for livestock exclusion fencing and buffer restoration. Trout Unlimited received \$72,933 to remove an aging four foot high, 80 foot long dam on the Thornton River that blocked fish migration.

- Engaged 30 farmers in conservation, 17 of whom were first-time enrollees in cost-share
- •Installed 22 miles of livestock fencing, excluding 1700 cows from stream access
- Restored 93 acres of riparian buffer
- Established conservation easements on 2,800 acres
- Opened over 60 miles of upstream habitat to fish

#### **Project Partners**

Piedmont Environmental Council (grantee)
Trout Unlimited
Culpeper Soil and Water Conservation District
Virginia Cooperative Extension
Rappahannock, Culpeper and Madison Counties
RappFLOW
Earth Sangha
Turkey Mountain Flyfishing Club
National Park Service



# **Example: Whole Watershed Approach in Lancaster County**

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



# Example: Restoring Stream Corridors in Centre County, PA

Five grants totaling over \$540,000 awarded between 2007 and 2012 targeting Spring and Spruce Creeks

- Restoring over 12 miles of streamside forest buffers
- Installing 6 miles of livestock exclusion fencing
- Stabilizing a quarter mile of stream bank
- Engaging 17 landowners in conservation on their lands

#### <u>Grantees</u>

ClearWater Conservancy
Local Trout Unlimited Chapter
Centre County Conservation District



# NFWF Ches Bay Business Plan: 2013-2025

## 1. Focus on High Priority Targeted Watersheds

Using a science-based approach, NFWF has identified 16 watersheds where investments will result in measurable increases in species populations, and improvements in water quality and local stream health.



## 2. Support Innovation on Cross Cutting Issues

Invest in innovative methods and new techologies that hold the promise to drive down costs, expand the effectiveness of restoration practices and accelerate the pace of recovery.



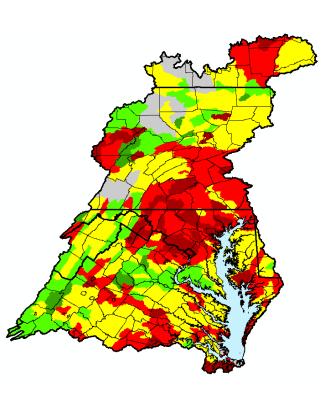
# 3. Advance Local Government Green Infrastructure Solutions

Over 1800 units of local government have authority over decisions that will determine the future of the Chesapeake Bay. NFWF helps local governments restore their rivers and streams while meeting the challenges posed by Chesapeake restoration.

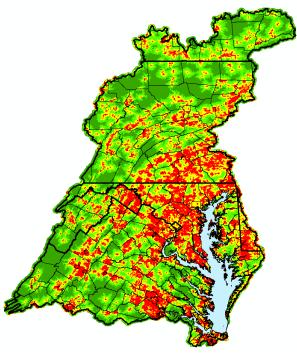




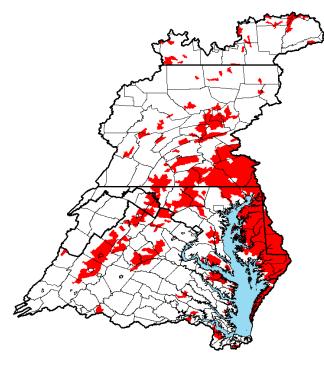
# 1. Focus on High Priority Targeted Watersheds



Improve Stream Health (EPA IBI Data)

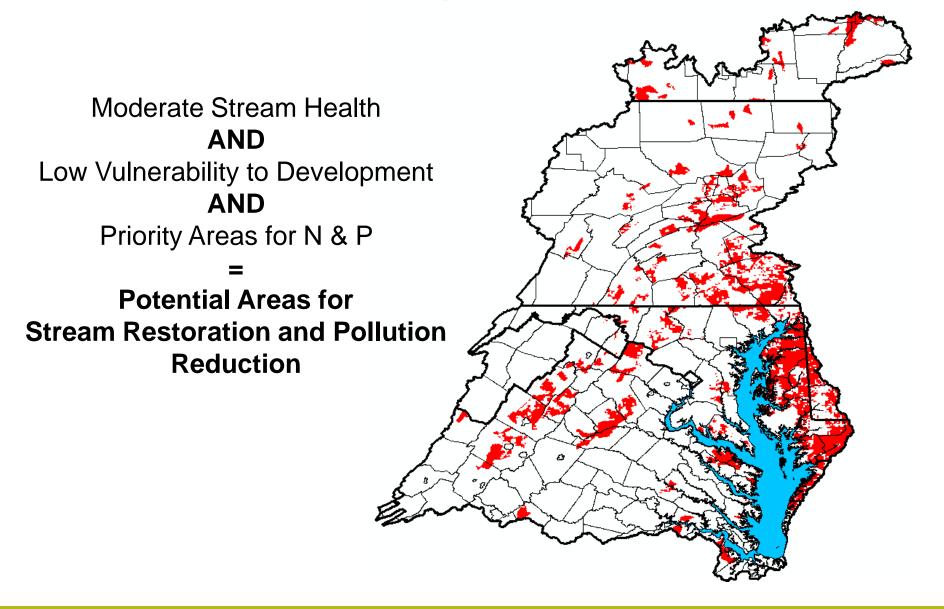


Minimize Vulnerability from Development (USGS Resource Lands Assessment Data)

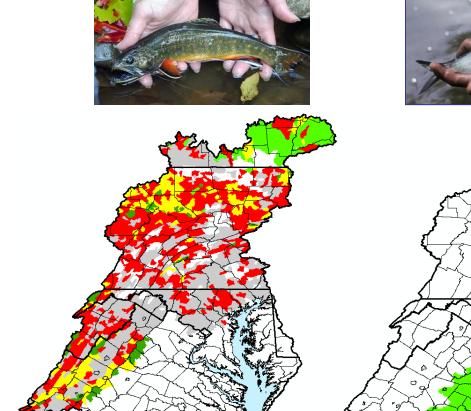


Target Significant Sources of Nutrient Runoff (CBP 2012 Priority Agricultural Watersheds)

# **Establishing Our Criteria**



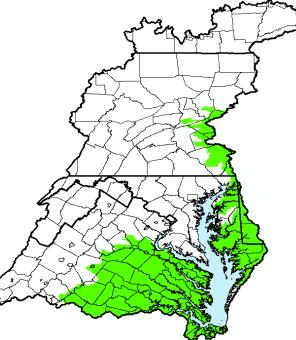
# **Overlay Opportunities to Recover Keystone Species**



Eastern Brook Trout
Population Status

Source: Eastern Brook Trout Joint Venture

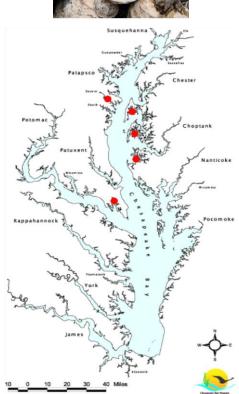




Priority Watersheds for River Herring Conservation

Source: USDA-NRCS

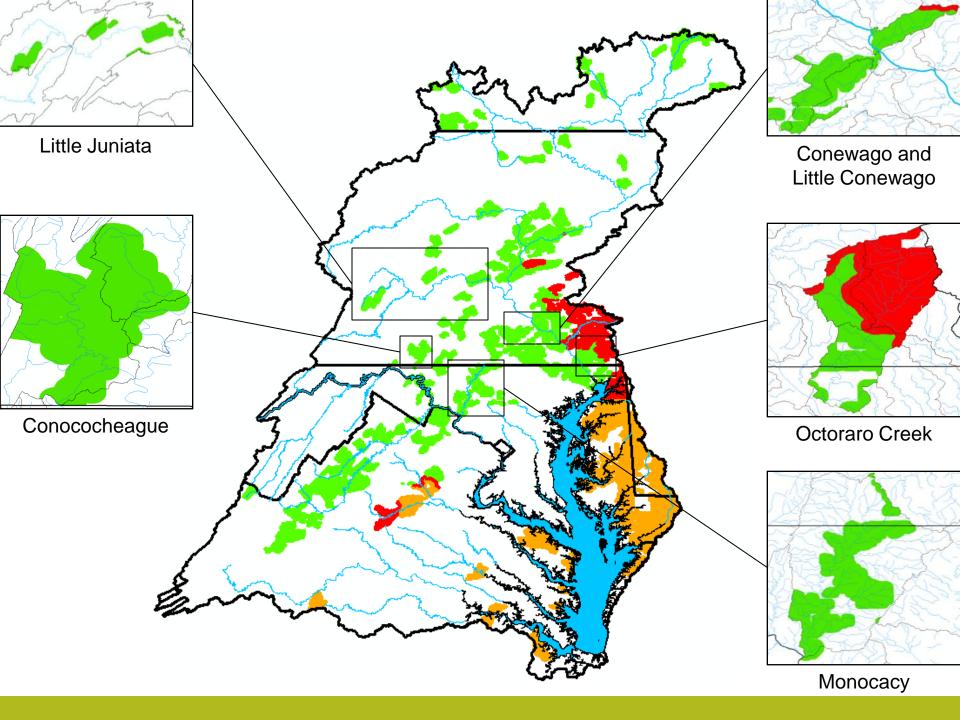




Priority Investment Areas for Oyster Reef Restoration

Source: MD DNR

**Chesapeake Bay Stewardship Fund Targeted Watersheds** 16 **Eastern Brook Trout Habitat River Herring Habitat Unadilla Headwaters Both EBT and RH Habitat Oyster Priority Areas Tioughnioga Headwaters Chemung Headwaters** Middle Susquehanna Watersheds West Branch Susquehanna River Watersheds Juniata River Watersheds **Lower Susquehanna and Conestoga River Watersheds Conodoguinet Creek Headwaters Upper Potomac River Watersheds Upper Eastern Shore** Shenandoah Valley Middle Eastern Shore Rappahannock and Rapidan **Lower Eastern Shore Headwaters Virginia's Upper Neck** Lower James River



# 2. Support Innovation on Cross Cutting Issues

- Advance Market-Based
   Solutions to Manage Manure
- Support Innovative approaches to Manage Fisheries, including Blue Crabs and Native Oysters
- 3. Support Policy Development and Emerging Solutions that tackle stormwater finance challenges and drive all costs down
- 4. Strengthen **Technical Assistance**, nurture emerging eco-system markets and better align financial incentives to private landowners













# 3. Advancing Local Government Green Infrastructure Solutions

- 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 local government networking so that they can share and learn from one another









## **Chesapeake Bay**

Scorecard: 2013-2025 (yr 0 of 12)





Species Outcomes:		<u>Goal</u>	<u>Progress</u>	Initiative Strategies:	Goals
	Alewife Alosa pseudoharengus	200 additional	0%	Habitat Conservation:  O acres  TE	BD Acres protected under long-term easement
	Blueback Herring  Alosa aestivalis	miles of stream occupied	of goal	Habitat Restoration:  10 acres  60 acres  40	Acres of oyster reef restored in 5 priority rivers 00,000 Acres of land restored in targeted watersheds
	Eastern Book Trout Salvelinus fontinalis	Improve status of 12 subwatersheds	<b>0%</b> of goal <b>0%</b>	13 miles 20	Miles of riparian buffer restored in watersheds Miles of opened to fish passage Acres of wetlands restored
		New populations in 15 subwatersheds	of goal	Habitat Management: 40 miles 2,0	000 Miles of livestock exclusion fencing installed
	Chesapeake Blue Crab Callinectes sapidus	215 million spawning-age females	<b>0%</b> of goal	Capacity, Outreach, Incentives:  177,632  TE  5	assistance
	American Oyster Crassostrea virginica	Restore populations in 5 subwatersheds	<b>6.7%</b> of goal	Species-specific Strategies : 50 million 2 bi	Oyster spat planted in the 5 priority subwatersheds
Other Outcome	es: Water Quality	Reduce Nitrogen pollution by 6.3M pounds  Reduce Phosphorous pollution by 1M pounds	2.9% of goal  1.6% of goal	Planning, Research, Monitoring:  TBD  TB  TBD  TB  TBD  TBD  TBD  TBD	Percent of prioritization of stream barriers complete  Research studies completed to develop

## **Timeline for 2013 Grants**

- Issue RFP
- Webinar for Applicants
- Proposals Due
- Committee Reviews
- Congressional/Board Notification
- Grants Announced
- Grant Agreements Issued

April 8

May 3

May 30

6/1 - 7/19

7/26 - 8/25

Late Aug/Early Sept

Sept - Nov





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