


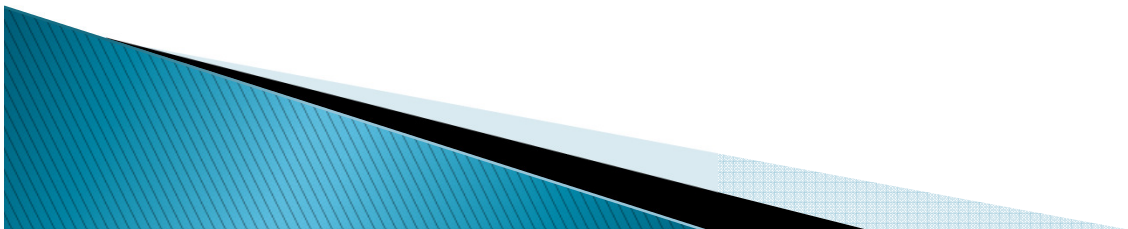
Clean Scapes:

*Keep the rain,
not the runoff!*

Howard County Residential Stormwater BMP
Financial Incentive Program



The Chesapeake Watershed



Captain John Smith Explores the Chesapeake, 1607



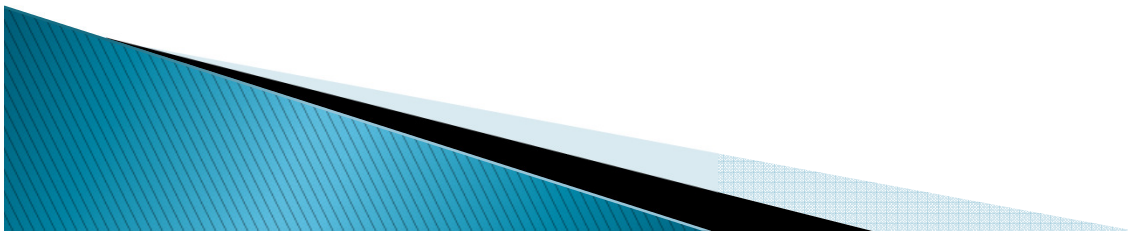
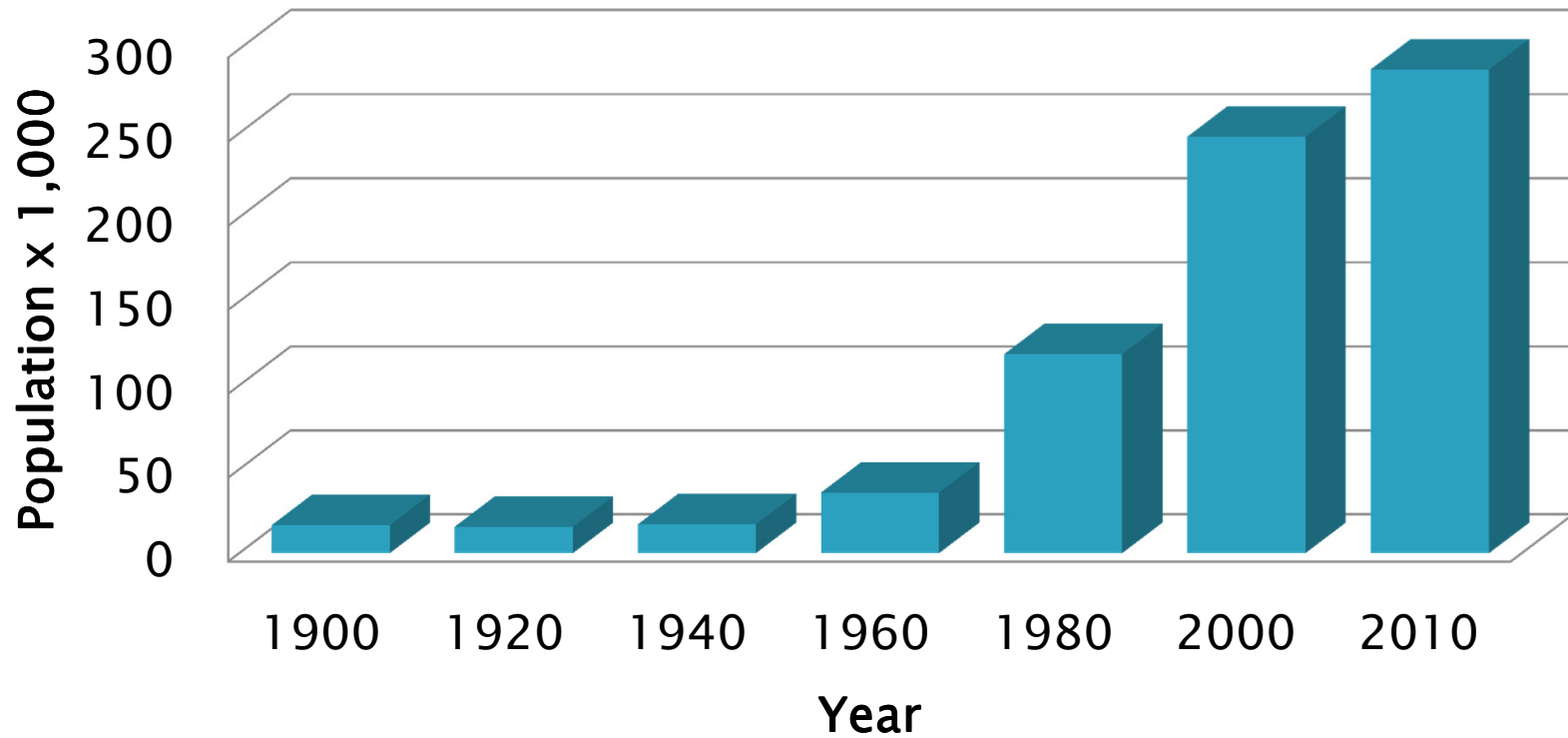
Smith's Observations

“An abundance of fish, lying so thicke with their heads above the water, as for want of nets (our barge driving amongst them) we attempted to catch them with a frying pan: but we found it a bad instrument to catch fish with: neither better fish, more plenty, nor more variety for smal fish, had any of us ever seene in any place so swimming in the water, but they are not to be caught with frying pans”

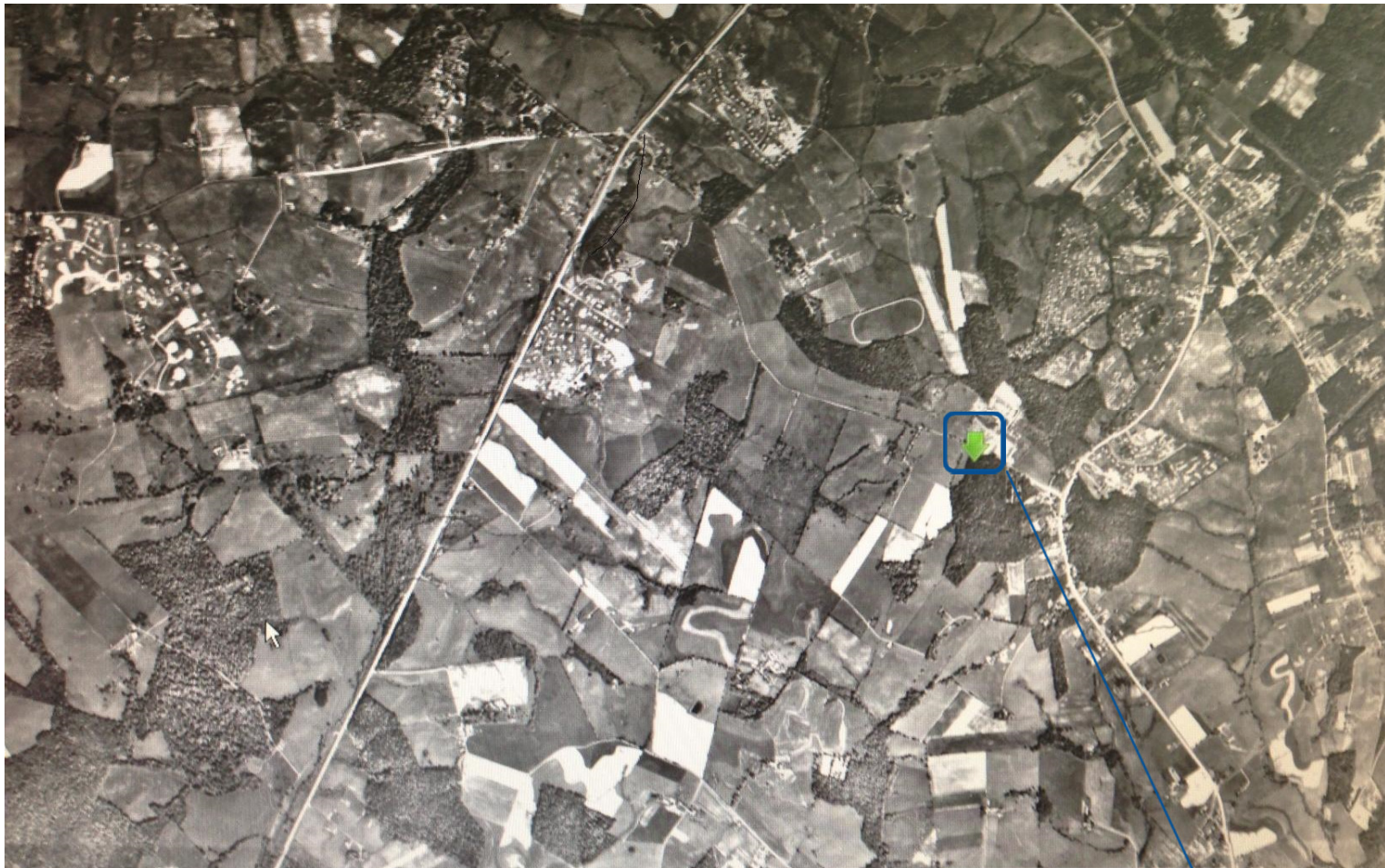


Population Growth

Howard County Growth

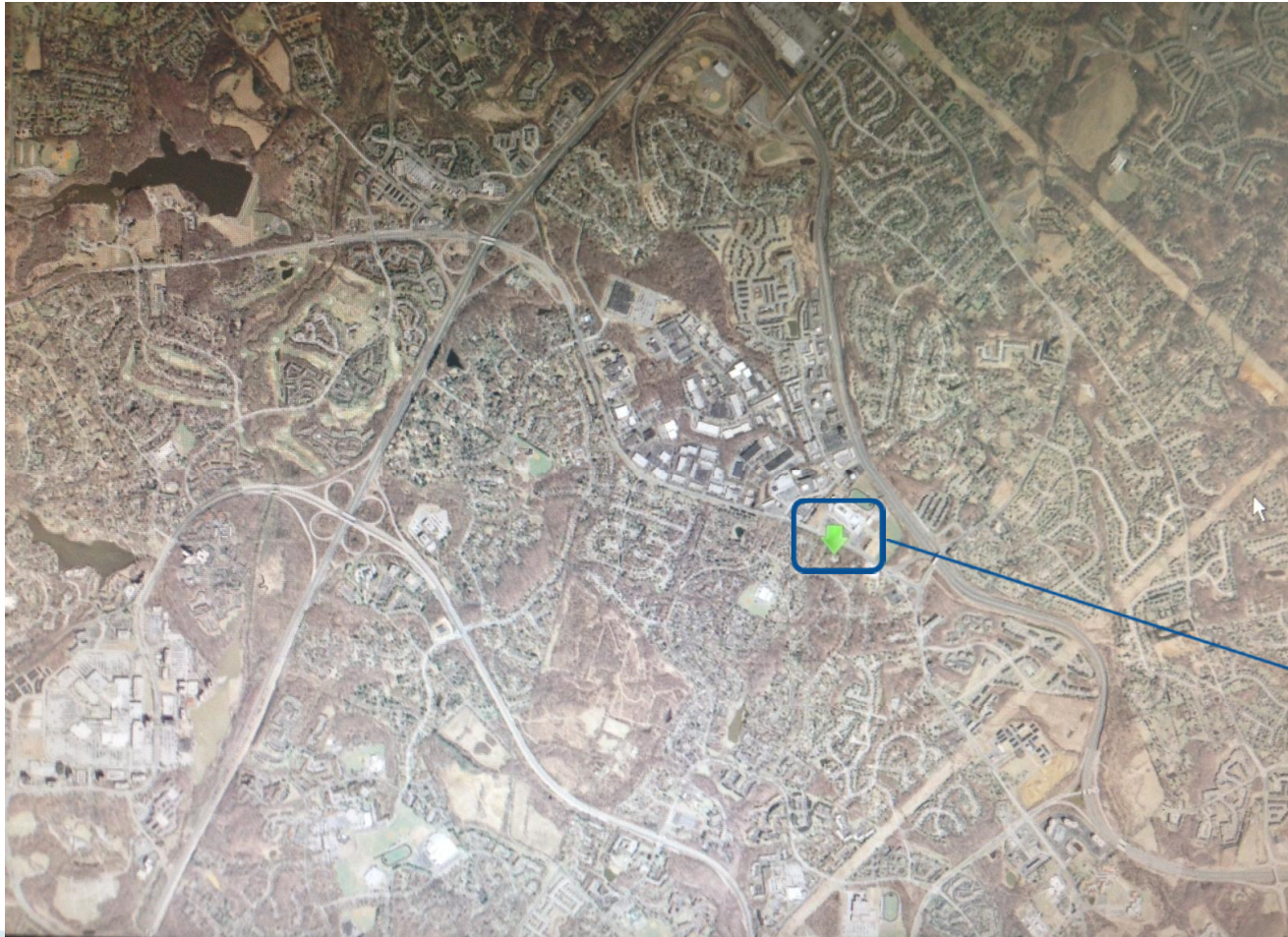


Howard County Land Use 1965



Howard High
School

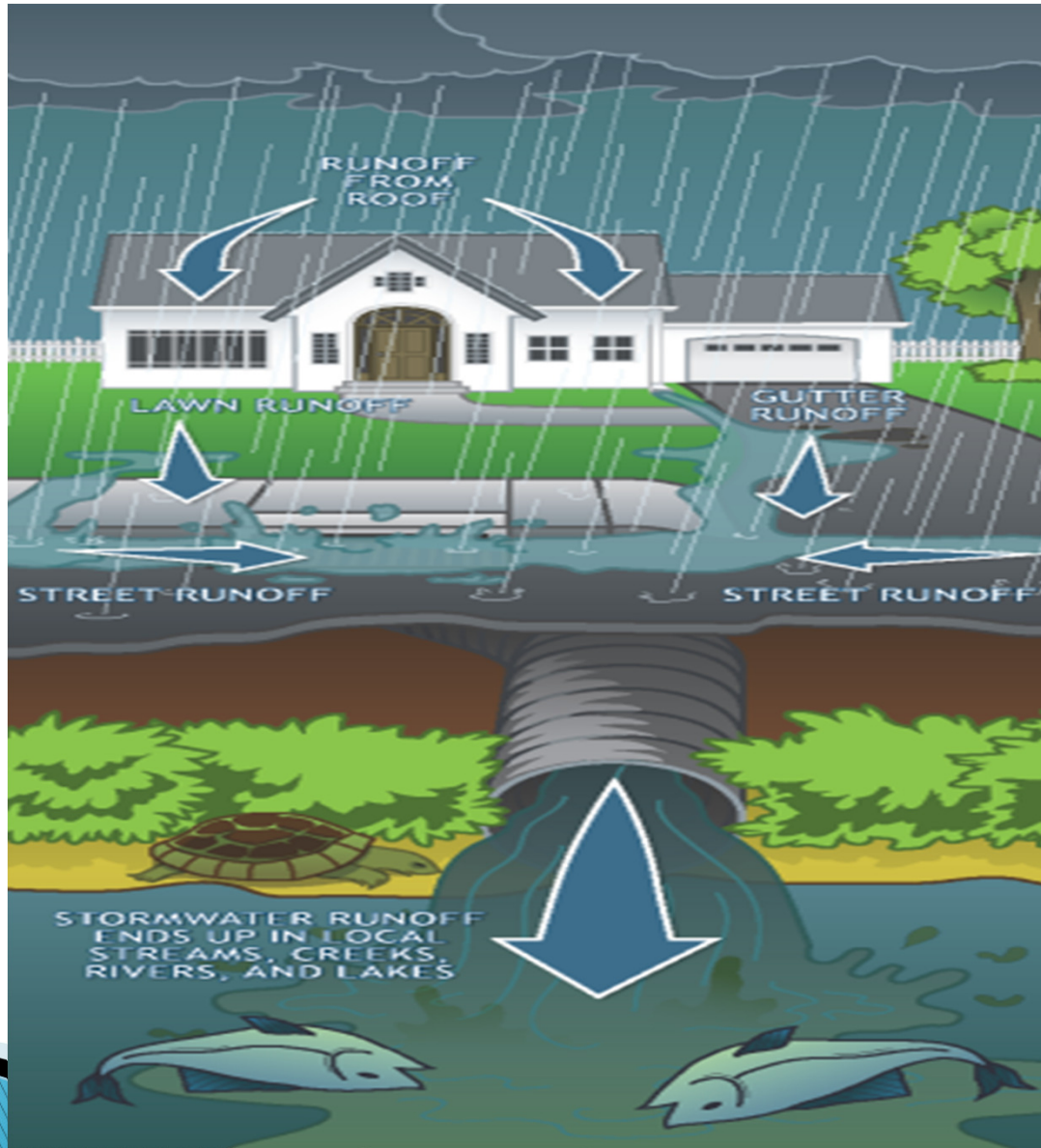
Howard County Land Use 2011



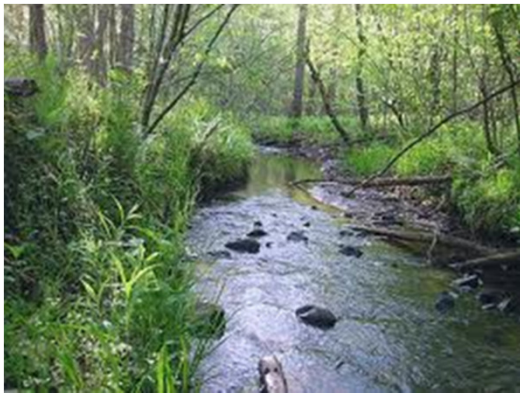
Howard High School



So what?



See the Difference



On a larger scale



How do we address this?

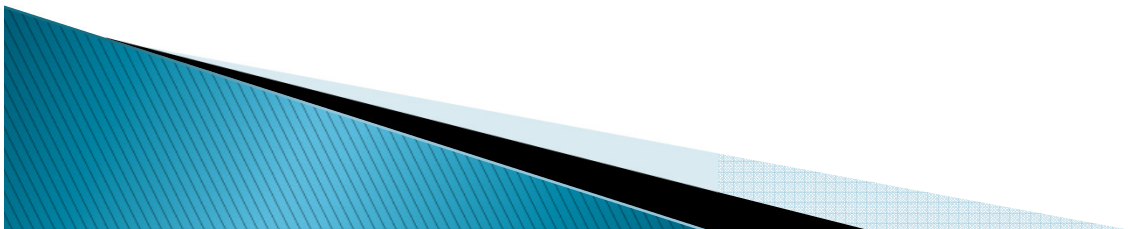
Maryland Department of Environment issues MS₄ permits to 10 largest Maryland counties



Howard County must manage 20% of unmanaged impervious surfaces by 2019

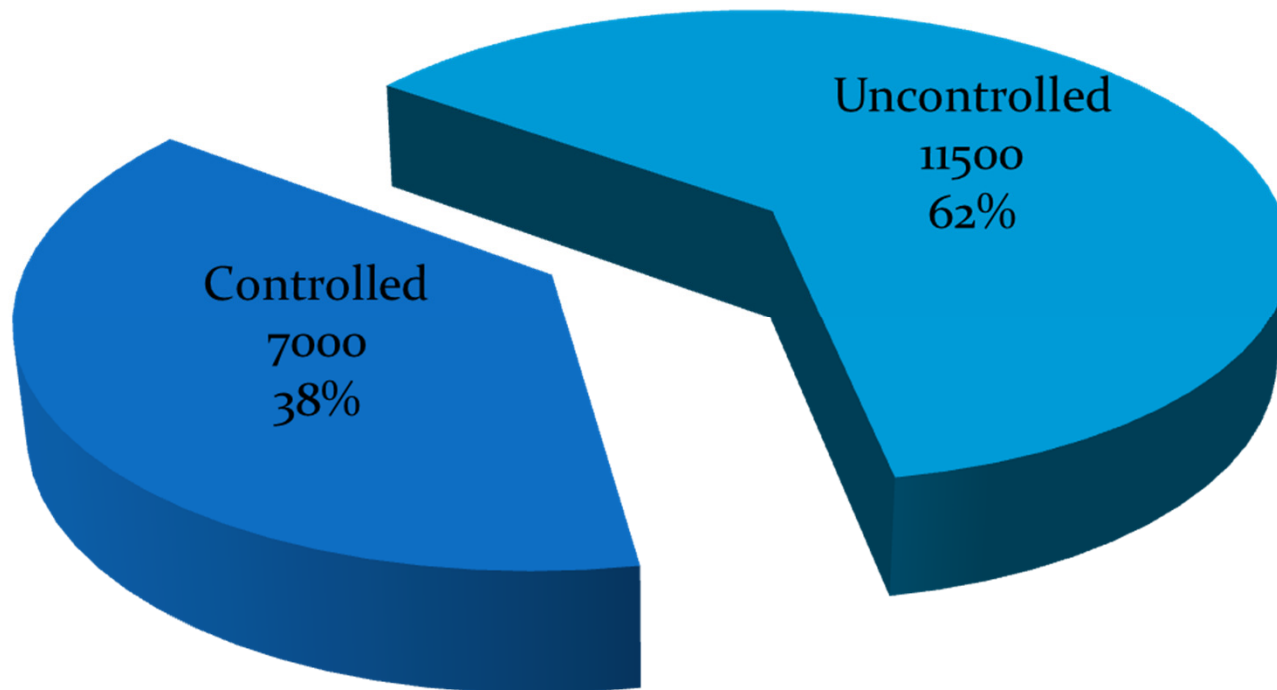


Watershed Protection Fee



Playing catch up

Acres of Impervious Surface

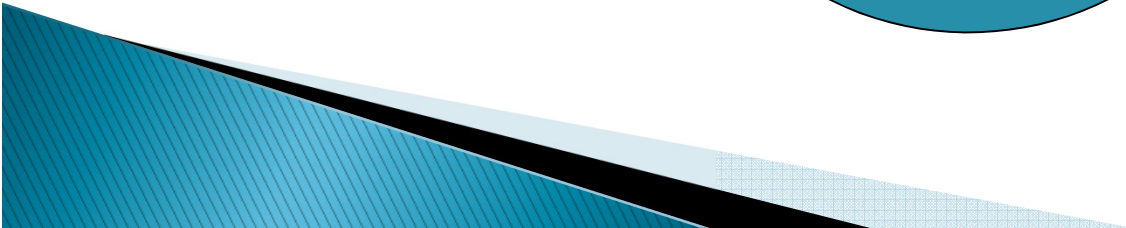
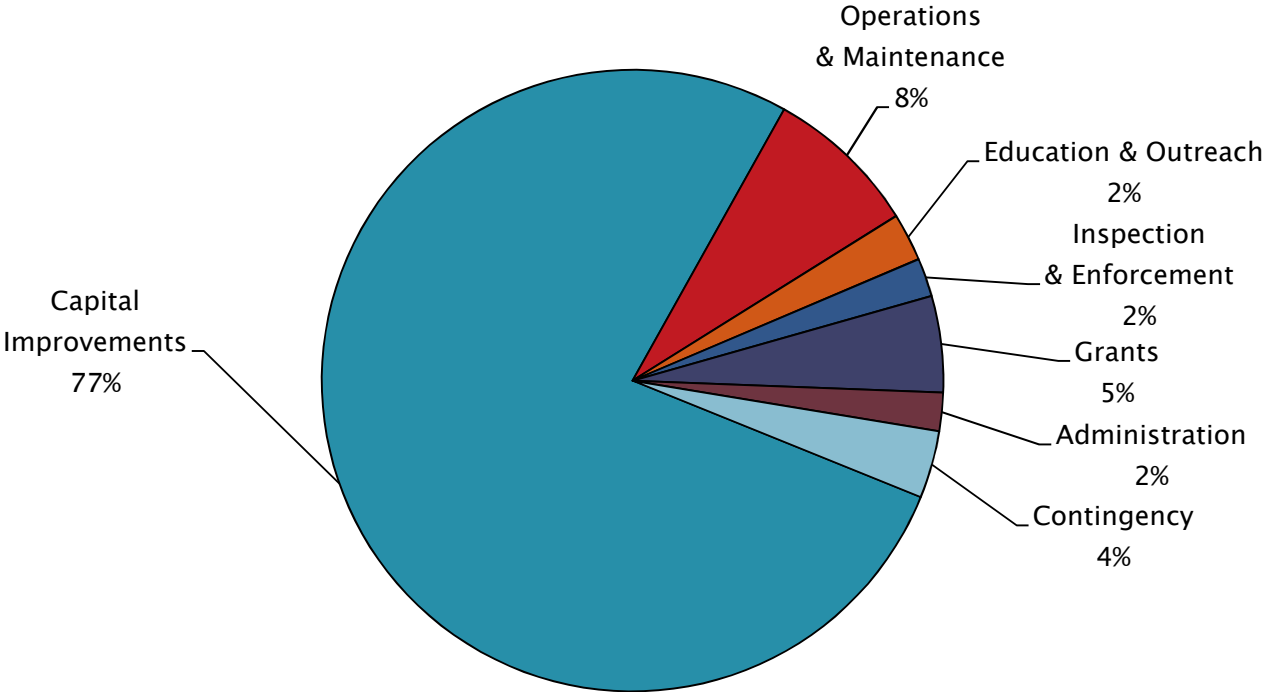


New State permit requires County to control approx. 2,500 existing impervious acres in the next 5 years.

Watershed Protection Fund Revenue FY 2014

\$10,400,000

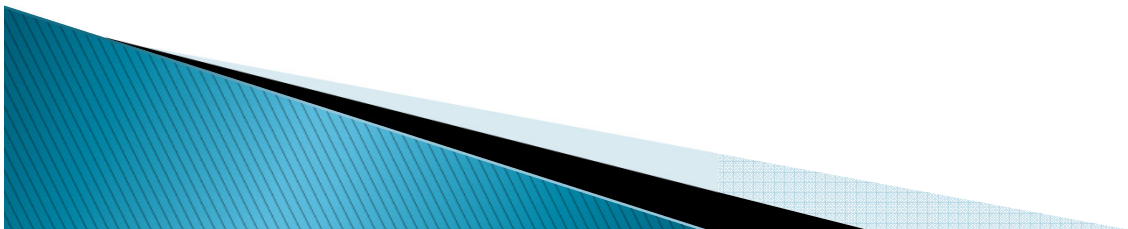
Watershed Protection Fund FY 2014 Distribution



Where does the money go?

–Residential Sector

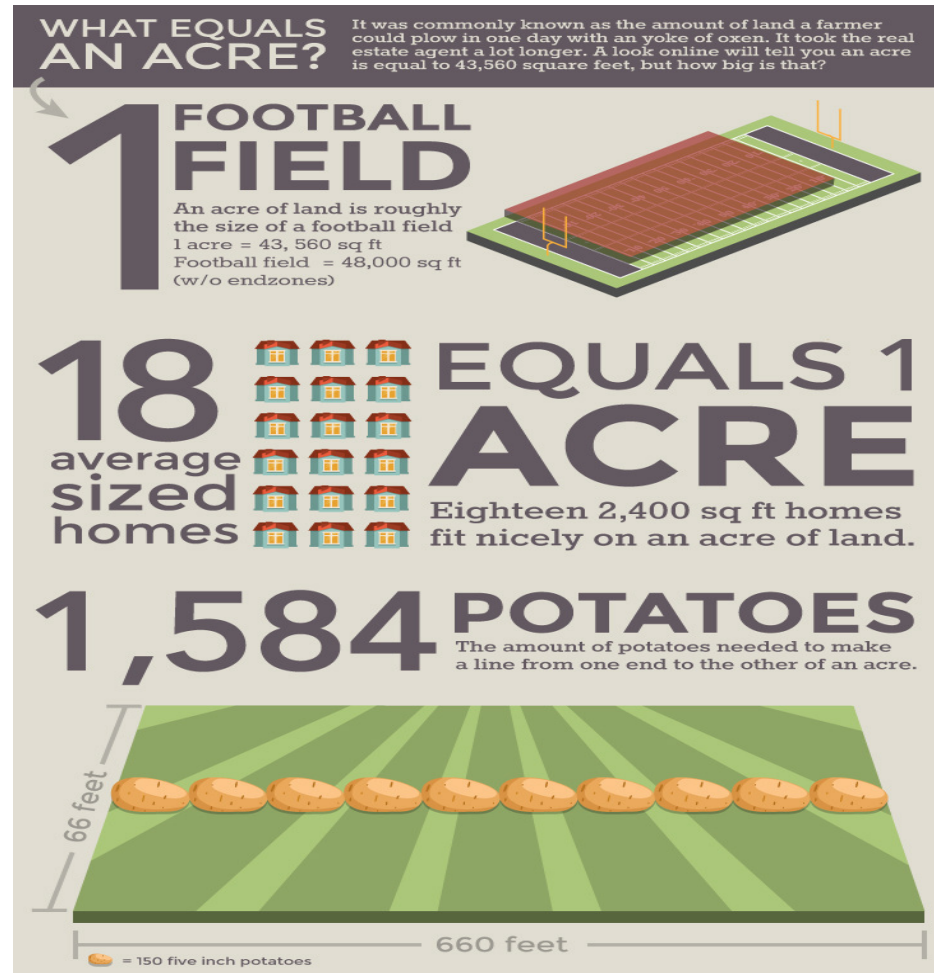
- ▶ Private land is important
- ▶ 52% of impervious surface is residential
- ▶ Thank you for doing your part
 - 50% toward cost paid for BMP
 - 20% annual credit against WPF





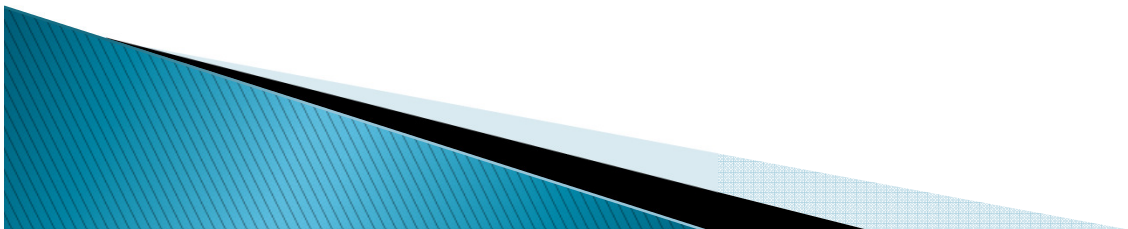
Residential Results

- ▶ 1.65 impervious acres treated on 112 residential lots
- ▶ \$54,000 expended
- ▶ \$32,000 per Impervious acre treated



Residential goals

- ▶ Green landscaping workshops—Spring 2015
 - Green Registry
 - Large Stores
 - Current and simple information
- ▶ Pilot county—landscaper certification
- ▶ Evaluating current materials
- ▶ Reach outside of Columbia
 - CleanScapes Community
 - NFWF Funding
- ▶ Networking within environmental community
 - Rain Garden Information Session



Residential goals–Simplified Information

Clean  Scapes:

*Keep the rain,
not the runoff!*

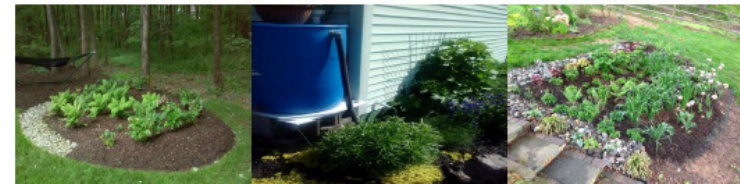


Howard County Residential Stormwater Best Management
Practice Financial Incentive Program

Residential goals–Connect with Local Stores and Landscapers

GREEN REGISTRY

Connect with Stores That Sell What You Need for Your Next Eco-Landscaping Project



Clean Scapes:

*Keep the rain,
not the runoff!*

Eco Friendly Gardening Cheat Sheet

Resources

Do-it-yourself Installation Guide
Homeowner Guide for a More Friendly Bay
<http://chesapeakestormwater.net/2013/04/homeowner-bmp-guide/>

Financial Resources
Howard County's residential credit and reimbursement program
<http://www.cleanwaterhoward.com/what-is-your-role/residential-properties>

Materials-Green Registry:
Lowe's (Elkridge), Sun Nurseries, and Grandfather's Garden Center

Property Stormwater Site Assessments
Howard County Watershed Stewards Academy
<http://howardwsa.org/>

Disclaimer: Inclusion in this list does not confer certification, an official endorsement, or approval from the Howard County Government or any of its agencies, or from the University of Maryland
University of Maryland is an Equal Opportunity Employer and Offers Equal Access Programs

Contractors

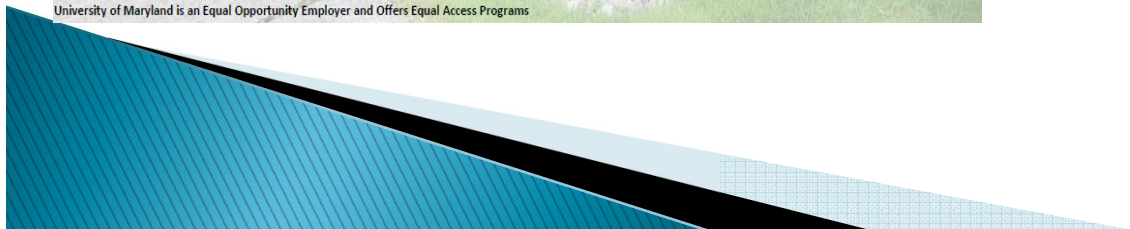
Lauren's Garden Service
www.laurensgardenservice.com
410-461-2535

Village Gardeners
www.villagegardenerscapes.com
301-748-9872

McHale Landscape
www.mchalelandscape.com
301-599-8300

UNIVERSITY OF MARYLAND
EXTENSION
Solutions in your community

clean HOWARD
Howard County Stormwater Solutions



Changes in Residential Program

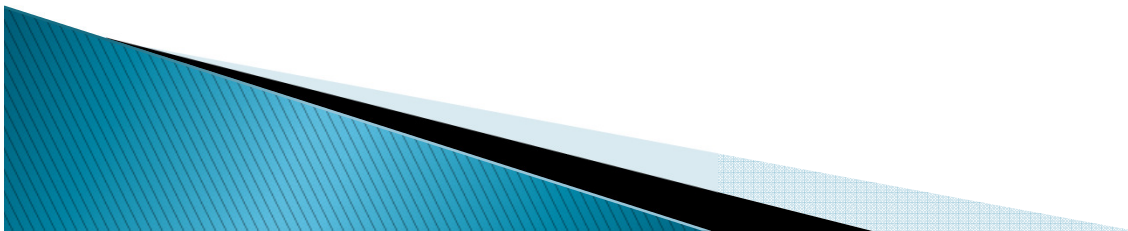
- 75% of cost HoCo, 25% of cost to resident
 - Low income receive 100% cost coverage
- Pilot area of Northern Little Patuxent Subwatershed
- 50 BMP packages planned
- HoCo providing all work and optional maintenance package through contractor
- Funding from NFWF \$20K to cover low income or folded back into residential reimbursement and credit program
- RFP to hire contractor by end of 2015 for spring kick off 2016.



Where does the money go?

–Outreach and Education

- ▶ Stream mAPPer
- ▶ Storm Drain stencils
- ▶ Watershed Networking
- ▶ Support community groups



Outreach: Storm Drain Stencils

- ▶ Local impact, local message
- ▶ Over 75 storm drains stenciled
 - HCC
 - Community



Outreach: stream mAPPER

- ▶ Monitor streams
- ▶ Raise awareness
- ▶ 176 active users
- ▶ www.streammapper.org

Stream mAPPER *noun* \strēam mǎppər\
1 : A crowd-sourced method to monitor more than 757 miles of streams in Howard County
2 : A free smart phone app that, in less than 5 minutes, helps you assess stream quality
3 : A highly palatable method to couple nature and tech-



The sections fit together to create a picture of stream health



See where others have mAPPED



Each entry will generate a blue pin on the public map, linked at www.cleanwaterhoward.com.

Mark your spot with a tree tag



Find it in the iTunes store!



Search 'Stream mAPPER' Start pecking to know the streams in your neighborhood!

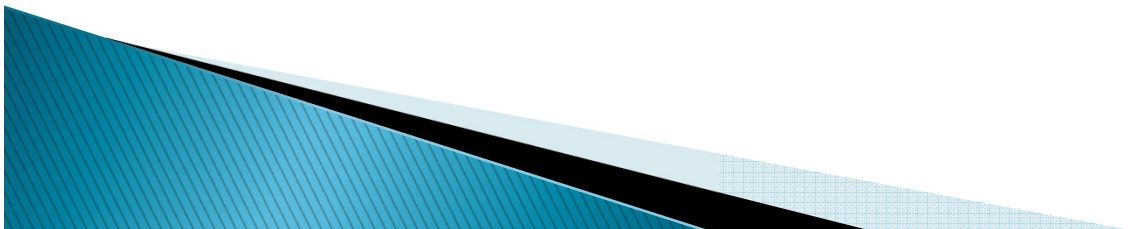


What can you do?

- ▶ Get involved
 - Howard County WSA
 - Stream mAPPer
 - Stencil
- ▶ Green makeover
 - BMPs
 - Lawn changes
 - Pick up pet waste



Every drop counts!



Rachel Beebe
Howard County Office of Environmental
Sustainability

rbeebe@howardcountymd.gov

