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
“An aboundance 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

<table>
<thead>
<tr>
<th>Year</th>
<th>Population (x 1,000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900</td>
<td>300</td>
</tr>
<tr>
<td>1920</td>
<td>50</td>
</tr>
<tr>
<td>1940</td>
<td>75</td>
</tr>
<tr>
<td>1960</td>
<td>100</td>
</tr>
<tr>
<td>1980</td>
<td>200</td>
</tr>
<tr>
<td>2000</td>
<td>250</td>
</tr>
<tr>
<td>2010</td>
<td>300</td>
</tr>
</tbody>
</table>
Howard County Land Use 1965
Howard County Land Use 2011
So what?

Diagram showing runoff from a house, including roof, lawn, gutter, street, and stormwater, leading to local streams, creeks, rivers, and lakes.
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
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

- Capital Improvements: 77%
- Operations & Maintenance: 8%
- Education & Outreach: 2%
- Inspection & Enforcement: 2%
- Grants: 5%
- Administration: 2%
- Contingency: 4%
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

CleanScapes:

Keep the rain, not the runoff!

Howard County Residential Stormwater Best Management Practice Financial Incentive Program
Residential goals—Connect with Local Stores and Landscapers

**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/](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](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/](http://howardwsa.org/)

**Contractors**
- Lauren’s Garden Service
  - [www.laurensgardenservice.com](http://www.laurensgardenservice.com)
  - 410-461-2535
- Village Gardeners
  - [www.villagegardenercapes.com](http://www.villagegardenercapes.com)
  - 301-748-9872
- McHale Landscape
  - [www.mchalelandscape.com](http://www.mchalelandscape.com)
  - 301-599-6300

**GREEN REGISTRY**

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

**Clean Scapes:**

Keep the rain, not the runoff!
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
What can you do?

- Get involved
  - Howard County WSA
  - Stream mAPPer
  - Stencil

- Green makeover
  - BMPs
  - Lawn changes
  - Pick up pet waste

Every drop counts!