Governor Martin O'Malley's National Conference on Ecosystem Restoration

August 1, 2011
OLD GOVERNMENT TENETS

• If the Governor really wants to know, we can find out. But we’ll have to pull all our people off their jobs. And it will take weeks.

• We’ll get to that as soon as we can, but it will take a few months because our budget was cut last year.

• That’s the way we’ve always done it / We’re already doing that / We tried that and it didn’t work.

• I hope the legislature forgets about this before next year’s budget hearing.
STAT TENETS

- Timely and Accurate intelligence shared by all
- Rapid deployment of resources
- Effective tactics and strategies
- Relentless follow-up and assessment
Baltimore Homicides & Shootings

2000
Baltimore Homicides & Shootings

2001
Baltimore Homicides & Shootings

2003
Baltimore Homicides & Shootings

2004
Baltimore Homicides & Shootings

2005
Governor Martin O'Malley Announces 2011 Blue Crab Winter Dredge Survey Results

Governor Martin O'Malley announced that the Chesapeake Bay’s blue crab population is at its second highest level since 1997 and well above the target for the third year in a row, setting the stage for a Bay-wide recovery. The results of the 2011 Blue Crab Winter Dredge Survey indicate that management measures put into place in 2008 are continuing to pay dividends for the crab population, the industry, recreational crabbers and those who just plain enjoy the Bay’s favorite crustacean. Joined by stakeholders, elected officials and staff, Governor O’Malley made the announcement from the deck of Mike’s Crab House near Annapolis, overlooking the South River.

Read more...

Maryland’s Role in the Chesapeake Bay TMDL

The State of Maryland submitted its Final Phase I Watershed Implementation Plan to the Environmental Protection Agency on December 3, 2010. This Plan was developed by the Maryland Department of the Environment, Natural Resources, Agriculture, and Planning, using the State’s estimated data and reports.
Blue Crab Population

Estimated over-wintering abundance of blue crabs in Chesapeake Bay.

Estimate is based on data from the Baywide winter dredge survey conducted by MDNR and VIMS.
Causes of the Problems

Patuxent
Causes of Nitrogen Pollution

- Farms
- Wastewater Treatment Plants
- Stormwater Runoff
- Septic Systems
- Forests

*Forests naturally contribute a small amount of nutrients and sediment to the Bay, but are not considered to be a pollution source.

The chart below shows how Nitrogen pollution from All Causes in Patuxent has changed over time.

Nitrogen pollution fuels the growth of algae, creating dense, harmful algae blooms that rob the Chesapeake Bay’s aquatic life of needed sunlight and oxygen. Sources of nitrogen pollution include air pollution from vehicles, coal-burning power plants and industry; fertilizers from farmfields, lawns and golf courses; wastewater from industrial facilities, sewage treatment plants and septic systems; and animal manure from farms.

Please note that this information is based on the EPA Phase 4.3 Watershed Model. Maryland’s TMDL and the Watershed Implementation Plan are supported by a new model that is nearing completion.
PLANTING COVER CROPS

Cover Crops
- Traditional Cover Crops Only
- Commodity Cover Crops Only

REDUCING POLLUTION FROM URBAN AREAS

IMPLEMENTING BEST FARMING PRACTICES

RESTORING NATURAL FILTERS

CONSERVING HIGH PRIORITY LANDS

NOTE: For each category above, the most effective solutions are listed in order of greatest impact.

Includes both traditional and commodity cover crops. Maryland began tracking commodity cover crops in 2007.
Progress is shown on this graph differently than for all of the other solutions. The goal is to move the nitrogen discharges down to or below the green goal line. The speedometer represents the current percent progress toward the goal since 2000.
Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

### Farms: Natural Filters

- Wastewater Treatment Plants ENR
- Urban Nutrient Management Regulations
- MD Healthy Air Act
- Blue Plains BNR Upgrade

### Reducing Pollution from Urban Areas

- Stormwater Runoff Management Retrofits
  - Septic Retrofits Inside of Critical Area
  - Septic Retrofits Outside of Critical Area
  - Septic Hookups to WWTPs

### Restoring Natural Filters on Public Lands

### Conserving High Priority Lands

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**Reducing Pollution from Urban Areas**

Stormwater Runoff Management Retrofits

An estimated 90,000 acres of watershed will be restored by 2011 as Maryland’s large jurisdictions work to meet the recently-tightened requirements of municipal stormwater permits.
Stream Health

Collection Date: 2003

Combined Stream Health Index: 3.095238
Stream Health Index - Fish: 2.333333
Stream Health Index - Aquatic Insects: 3.857143

Detailed Data Stream Health Coloring