Benchmark Nonpoint Source Management Approaches In Other States
Benchmark Survey Contacts

Association of State and Interstate Water Pollution Control Administrators

U. S. Environmental Protection Agency Headquarters & Ten Regional Offices
Benchmark Programs

- Florida, North Carolina, New Jersey, Maryland, Oregon, Washington
- New Jersey Buffer Rule
- Chesapeake Bay Programs
  - Maryland
    - Baltimore County, MD
- Pacific Northwest
- Other State Programs
New Jersey Buffer Rule

- Updated Stormwater Rules in 2004
- Rules Included a 300 Foot Buffer for Priority Waterbodies
  - 6,093 Miles of Rivers and Streams
  - 9 Water Supply Reservoirs
- Buffer Rule Challenged in Court
- Courts Upheld Buffer Rule in 2006
Chesapeake Bay Watershed

- Largest Estuary in America
- Includes parts of six states (VA, MD, PA, DE, NY, WV, and all of the District of Columbia)
- 3,600 species of plants, fish and animals
- 15 million people
- The Bay produces 500 million pounds of seafood per year
Chesapeake Bay Programs

- 1976 Congressional Action
- USEPA Five Year Study
- 1983 Historic Chesapeake Bay Agreement
  - States of Virginia, Maryland, Pennsylvania, District of Columbia; USEPA; Chesapeake Bay Commission & other Advisory Groups
- 1987 Chesapeake Bay Agreement
- 2000 Chesapeake Bay Agreement
Chesapeake Bay Program Progress Controlling Nutrients and Sediment

- Chesapeake 1987 Agreement Goal
  - Reduce Nutrients by 40% by 2000
  - Reducing nutrient (nitrogen and phosphorus) loading

- Chesapeake 2000 Agreement sets goals for 2010
  - 175 million lbs of Nitrogen
  - 12.8 million lbs of Phosphorus
  - 4.15 million tons of sediment
  - Achieving 2010 goals will restore Bay to 1950s conditions and achieve standards 96% of time

- From 1995-2004 state and federal government partners invested $2.5 billion in these efforts
Chesapeake Bay Program Progress
Watershed Land Preservation

- Goal: VA, Md, Pa, District of Columbia
- Permanently protect 20% of the 34.6 million acres in their portion of the Bay Watershed
Maryland Chesapeake Bay Water Quality and Land Conservation Programs

- Chesapeake Bay Programs
  - 1984 Chesapeake Bay Critical Area Act
  - Chesapeake Bay Restoration fund
  - Shore Erosion Control Act – State no interest loan program (75%)
  - Waterways Improvement Fund-5% excise tax on boat purchases and .3% motor fuel tax

- Land Conservation and Preservation Programs
  - 1969 Program Open Space
  - 1997 Rural Legacy Program
  - 2001 Maryland Green Infrastructure Assessment & GreenPrint Program
  - Maryland Agricultural Land Preservation Fund
### Baltimore County, Maryland

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Map showing the location of Baltimore County, Maryland, with nearby cities such as Baltimore, Fulton County, and Atlanta.
Baltimore County
Urban Rural Demarcation Line

- Growth Boom in the 1950s
- 1963 Plan for the Valleys
- 1967 Urban Rural Demarcation Line
Baltimore County
Buffer and Setback
Requirements

- **Buffer - Coastal Plain** – Greater of the Following
  - A. 75 feet
  - B. 25 feet from outer wetland boundary
  - C. 25 feet from 100 year floodplain

- **Buffer - Piedmont** – Greater of the Following
  - A. 100 feet
  - B. 25 feet from outer wetland boundary
  - C. 25 feet from 100 year floodplain

- **Additional Buffer for Slope or Erodible Soils**

- **Setback** – 35 feet for Residential; 25 feet for Commercial/Industrial
Baltimore County, MD
Urban Landuse

2000 Landsat Satellite Image

LEGEND
- Green: Forest
- Brown & Light Blue: Fields
- Purple & Dark Blue: Urban
- Black & Dark Blue: Water
- Yellow: Major Roads

Urban Baltimore County
Baltimore County
Rural Landuse
Pennsylvania Growing Greener Program

- $640 Million Statewide Bond Issue Approved by Voters in 2005
- 140 Projects in 50 Counties to Clean Up Rivers and Streams; Protect Natural Areas, Open Spaces and Working Farms

Growing our Communities, Growing our Economy
Oregon’s Growth Management Program

- 1973 Oregon Land Use Act
  - Reduced Local Government Autonomy for Landuse Decisions
  - County Comprehensive Landuse Plans
  - Municipal Landuse Plans with Urban Growth Boundaries
  - Established the Land Conservation and Development Commission
Portland Area Metropolitan Service District

- State Chartered Regional Government
- Directly Elected 7 Member METRO Council
- Land Use and Transportation Planning Agency
- Portland and 23 Additional Cities
- All or part of 3 Counties
Nutrient Regulations

• Minnesota
  • Statewide Phosphorous regulations
  • Regulates application of fertilizers w/ P to turf
  • Applications must be certified. Golf course and establishment exceptions
BMP Requirements

- **Wisconsin**
  - Legislative mandate: formal DNR regulations for stormwater BMP performance
  - Technical standards and specifications to meet water quality standards
- **Maine**
  - NPS Pollution Training and Resource Center
  - BMP information and technical training
State Site Location Permits

- Maine: Site Location of Development Act
  - Permit for developments that “may have a substantial effect upon the environment”
  - Must meet applicable NPS (and other) standards
  - Project types identified in statute, includes tracts of > 20 acres
  - Examples: mineral exploration projects, large structures and subdivisions, and oil terminal facilities
Agricultural Approaches

- **Kentucky**
  - Water Quality Plans and prescribed requirements must be implemented for agricultural operations > 10 acres

- **Vermont**
  - Statewide baseline standard for “accepted agricultural practices”

- **Ohio**
  - Soil and water conservation districts required to adopt regulatory BMPs and enforceable plans
Population Comparison

- Florida
- Georgia
- North Carolina

Population, millions

- 1970
- 1980
- 1990
- 2000
- 2010
- 2020
- 2030
Discussion