

Chesapeake Bay Executive Order Environmental Literacy Meeting: [State] Briefing



November 14, 2012
For the WVEEA

Frank Rodgers
Vice Chair WVEEA
Executive Director, Cacapon Institute



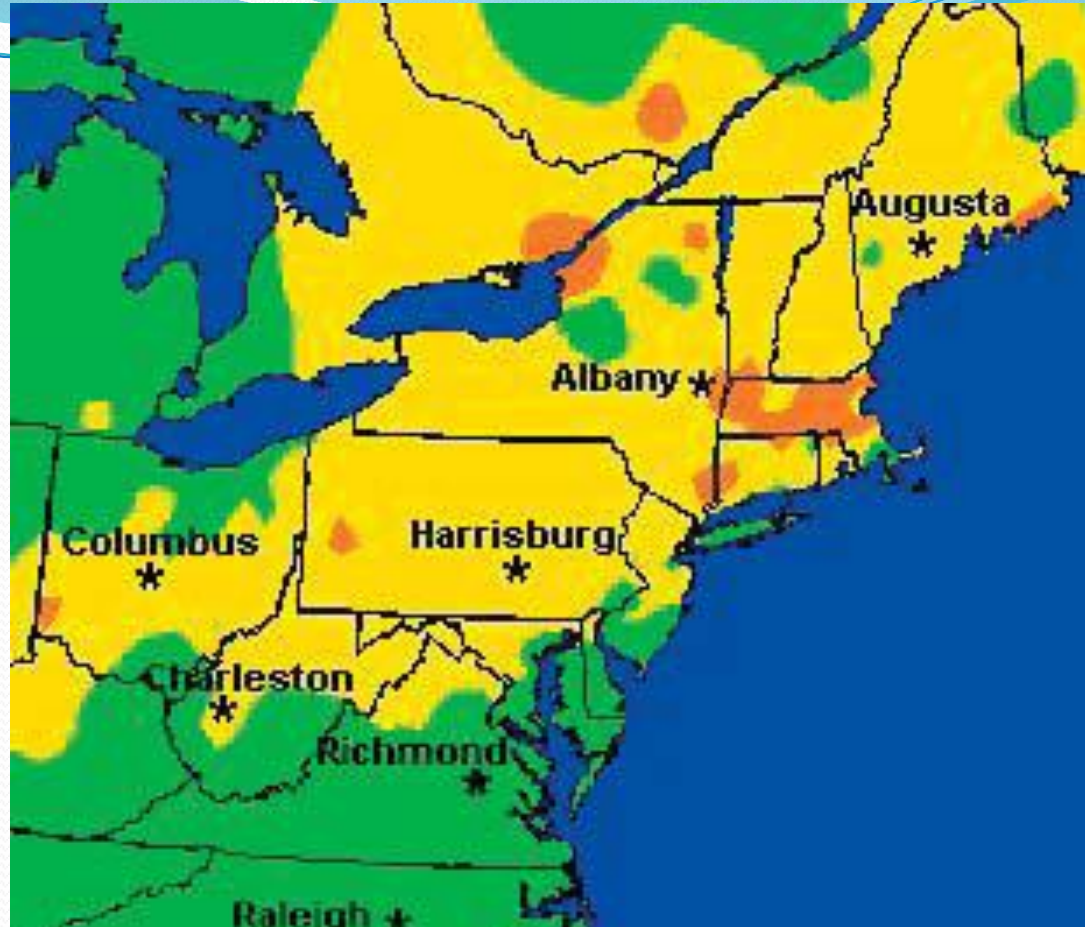
Key Environmental Issues

- 2-3 major environmental issues that are the focus of part of the state environmental protection and restoration efforts

West Virginia will key on WV DEP's priorities.

**Air**[Division of Air Quality Home](#)[Air Quality Index](#)[Open Burning Regulations](#)[Air Monitoring Data](#)**Land**[REAP](#)[Abandoned Mine Lands and Reclamation](#)[Division of Mining and Reclamation](#)[Office of Oil and Gas](#)**Water and Waste**[Water and Waste Home](#)[Water Withdrawal Guidance Tool](#)[Permitting](#)[Stream Information](#)**Inside DEP**[West Virginia Energy Efficient Appliance Rebate Program](#)[Environmental Advocate](#)[Contact the Executive Office](#)[Environmental Enforcement](#)

WV DEP is organized by
air,
land,
water & waste.



Air:

Nine cities and many counties are monitored and are included in the State Implementation Plan for air quality attainment.

LAND

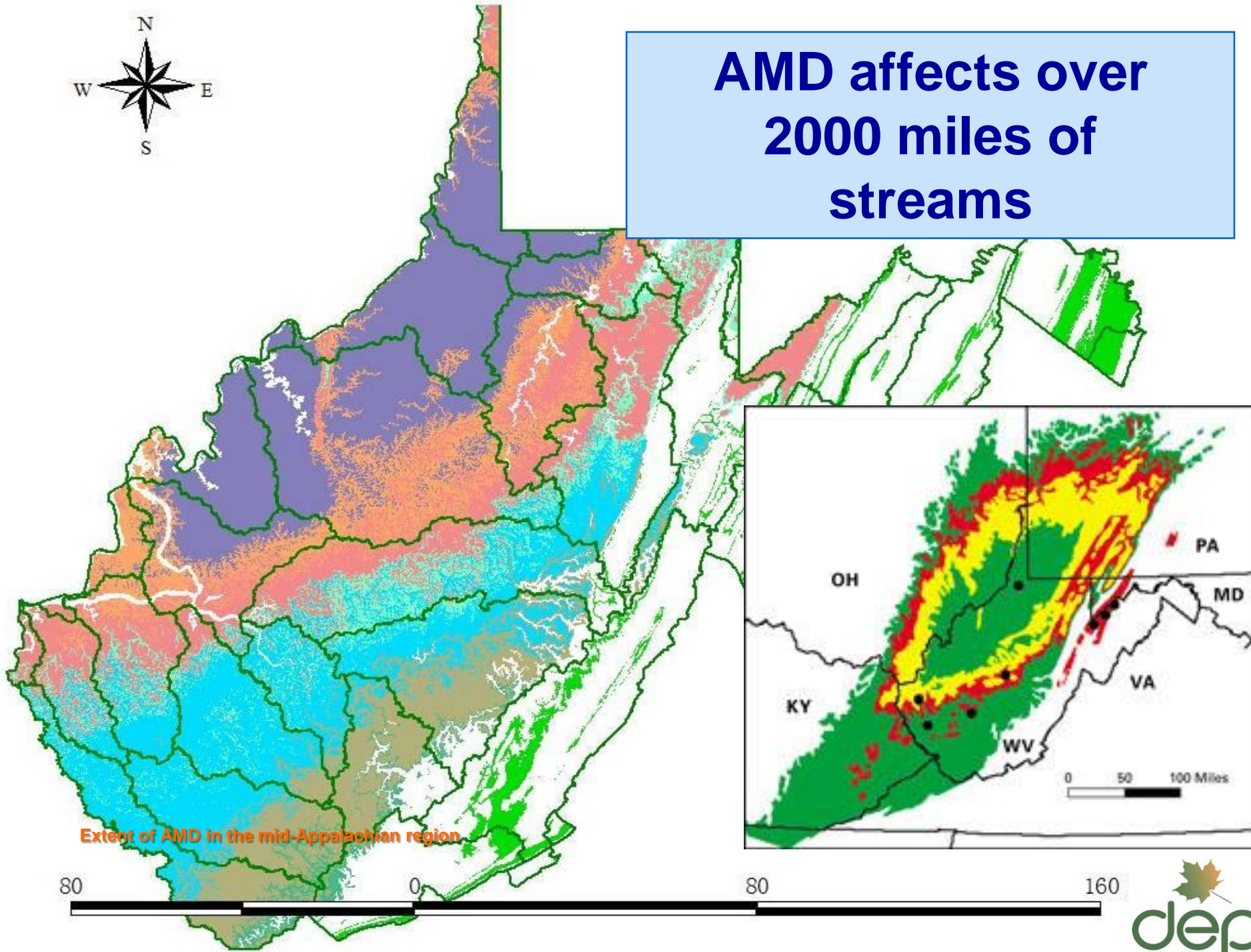
Resource extraction

- Legacy Acid Mine Drainage





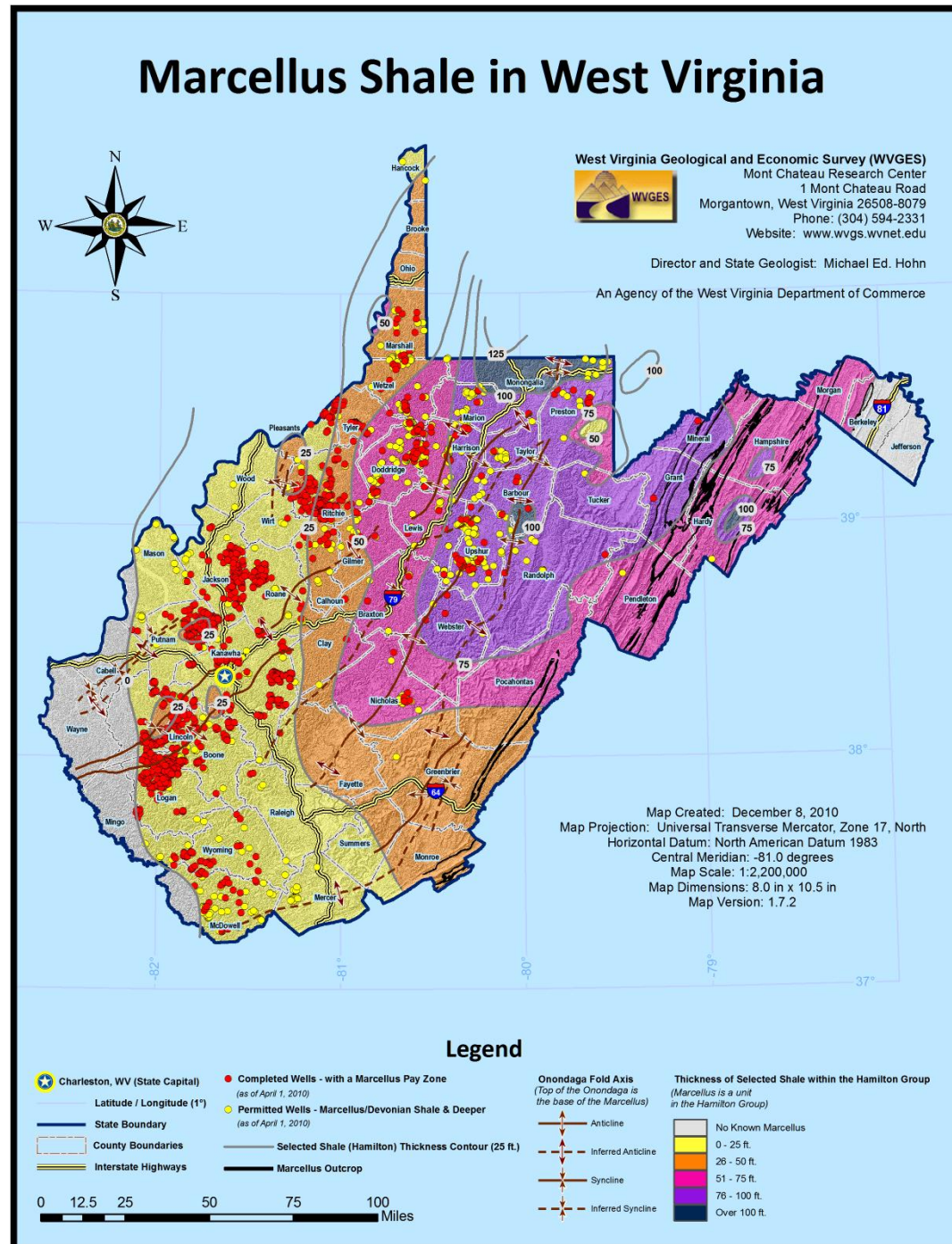
AMD affects over 2000 miles of streams



LAND

Resource extraction

- Marcellus Shale





A satellite map showing a large, irregularly shaped area of deforestation or land clearing, appearing in shades of brown and tan, surrounded by dense green forest. A yellow dashed line runs vertically through the left side of the image. A white callout box with a black border is positioned on the left, containing the text "5 miles". Two black lines extend from the box: one points to the top edge of the cleared area, and the other points to the town of Amherstdale on the right side of the map.

5 miles

Amherstdale



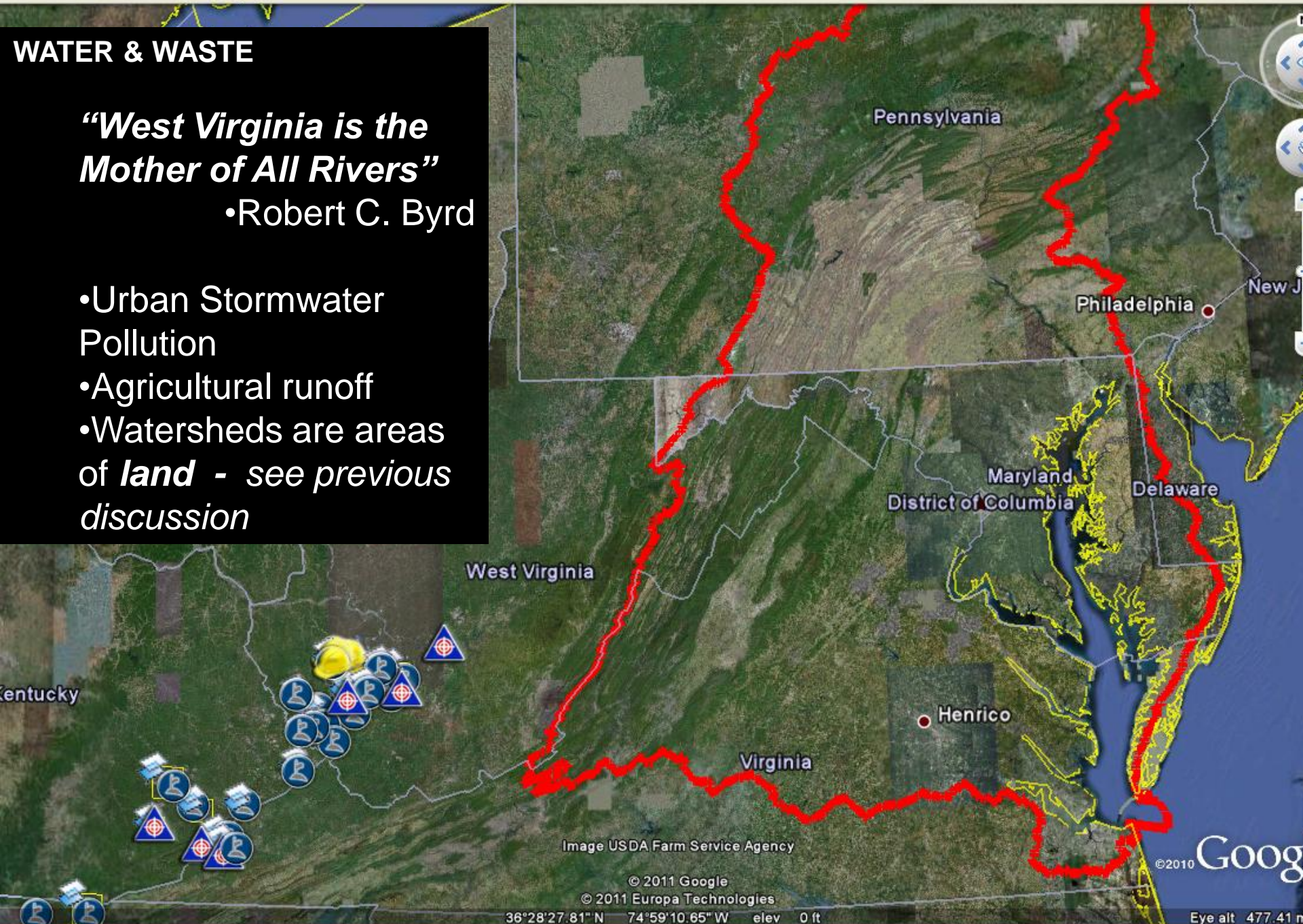


WATER & WASTE

***“West Virginia is the
Mother of All Rivers”***

•Robert C. Byrd

- Urban Stormwater Pollution
- Agricultural runoff
- Watersheds are areas of ***land*** - see *previous discussion*



Environmental Education

Vision: Ultimate Objective

- Every student will have a meaningful outdoor PBL, MWEE and/or 21st Century experience
- EL embedded in WV DOE's Constent Standards & Objectives

Status of Literacy Planning

Accomplishments

- 2006 WVEEA Founded
- 2007 1st WVEEA Conference
- 2010 EL workgroup proposed
- Fall 2010 WV joins Mid-Atlantic EL Roundtable
- March 25-26, 2011 EL conference session
- November 2012 WV Science Teachers Association engaged in EL effort
- March 27, 2013 Next WVEEA Conference



Status of Literacy Planning:

Barrier to advancing

STATE SUPPORT?

- WV Legislature, in principal, supports EL
- WV DOE, DEP, & Forest Service support EL through WVEEA

DOE PARTNER?

- WV Department of Education supports
- DOE not interested in lead role
- Staffer on WVEEA work group
- DOE reestablishing Environmental Science Content Standards & Objectives

Environmental Education

Vision:

Future plan/activity

- WVDE Green Ribbon Schools
- State approved EL plan
 - WVDE approval
 - Governor's Office recognition

Major Components of Plan: Objectives?

- Introduce K-12 students to environmental issues as they relate to ecosystem balance and sustainable living.
- No less than 3 meaningful outdoor experiences prior to graduation.

Major Components of Plan: Themes?

- Public private partnerships for environmental literacy
- Engage “environmental” groups (e.g. Master Naturalists, Audubon Societies, watershed associations)
- Develop WV Green School program

Team



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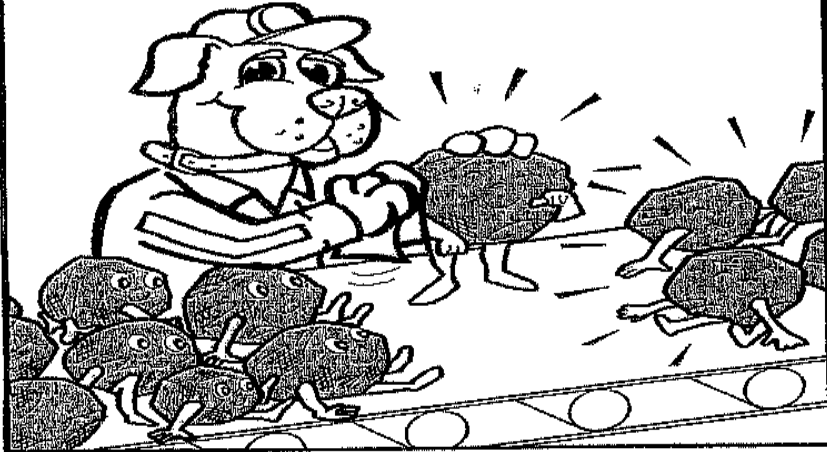
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COAL AND OUR ENVIRONMENT

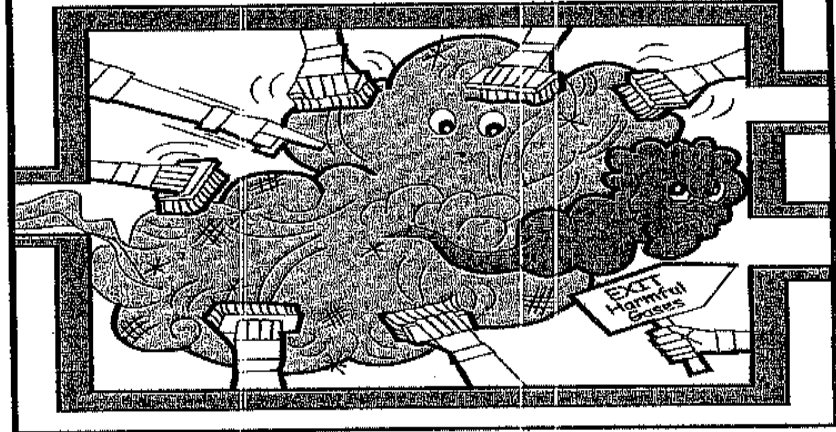
To keep coal from harming our land, air and water:



Coal is cleaned before being burned.



"Scrubbers" take out most of the harmful gases.



Soil is replaced. Grass and trees are planted after surface mining.

