

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



November 14, 2012
For the WVEEA

Frank Rodgers
Vice Chair WVEEA
Executive Director, Cacapon Institute

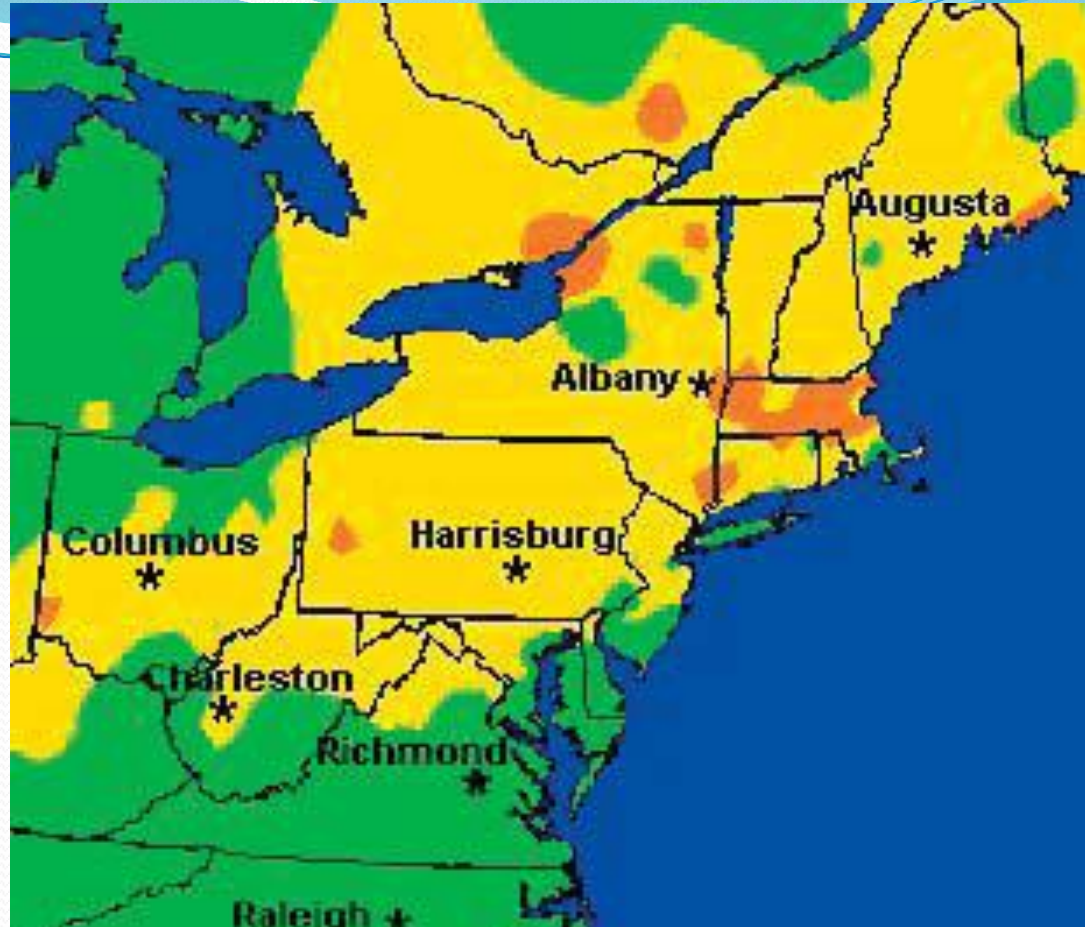
Key Environmental Issues

- 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

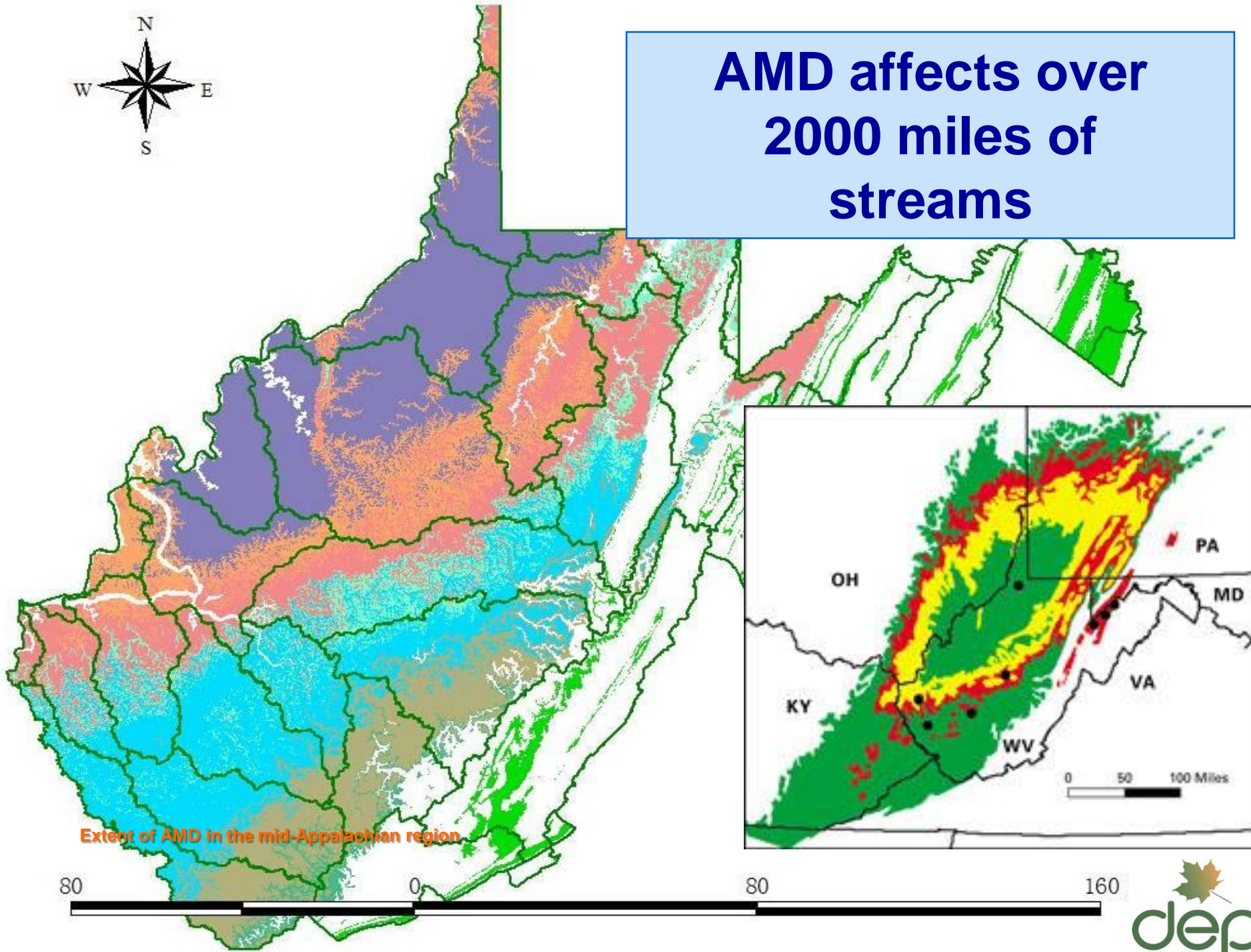
Resource extraction

- Legacy Acid Mine Drainage





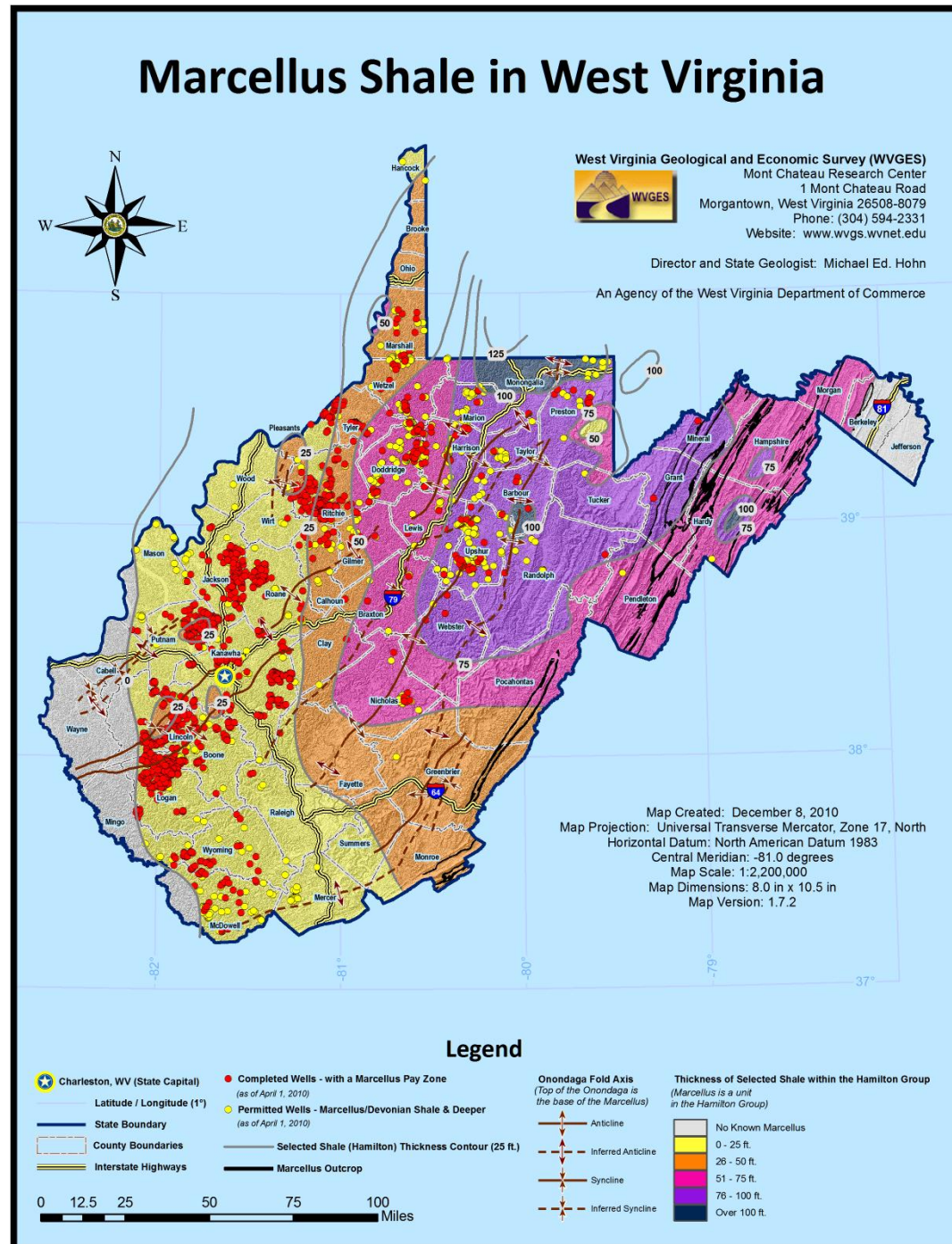
AMD affects over 2000 miles of streams



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*

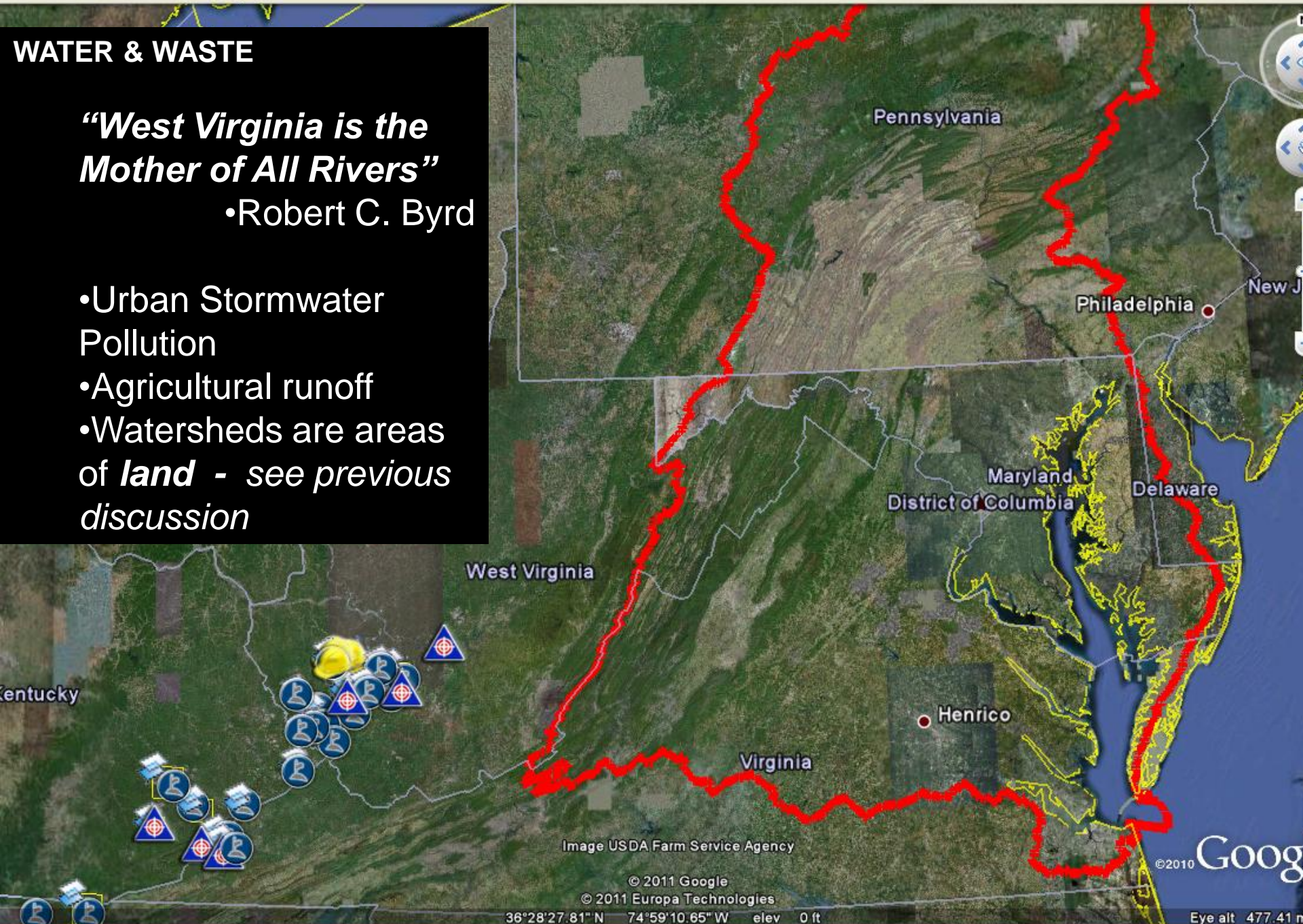


Image USDA Farm Service Agency

© 2011 Google

© 2011 Europa Technologies

36°28'27.81" N 74°59'10.65" W elev 0 ft

Goog
©2010

Eye alt 477.41

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



Ellen Murphy, WVEEA Environmental Literacy
Workgroup Coordinator
Watershed Educator, Potomac Valley Audubon
pvasmail@gmail.com
304-676-3397
PO Box 578, Shepherdstown, WV 25443
www.potomacaudubon.org

Kevin Stitzinger
The Mountain Institute
Watershed Education Coordinator
304 567 2632 (Spruce Knob Mountain Center
office)
304 456 4407 (home office)

Frank Rodgers, liaison with Fed & States
Director
Cacapon Institute, P.O. Box 68, High View,
WV 26808
304-856-1385 / www.cacaponinstitute.org

Vicki Fenwick-Judy, WV Green School lead
Canaan Valley Institute
Davis, WV
Education Coordinator
304.259.4739 x257
www.canaanvi.org

Robin Anglin, WV DOE liaison
Science Coordinator, Office of Instruction
1900 Kanawha Blvd. E., Building 6, Room 603,
Charleston, WV 25305
ranglin@access.k12.wv.us
Phone: (304) 558-5325

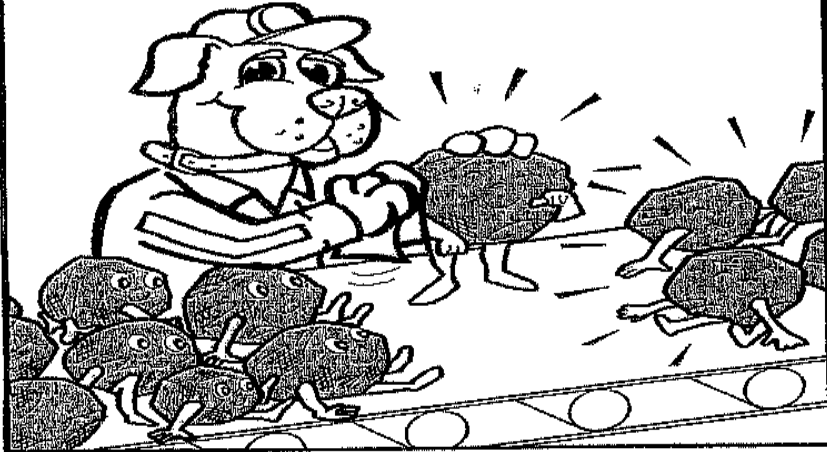
Tim Craddock, WV DEP liaison
Nonpoint Program Coordinator
WVDEP's, Division of Water and Waste
Management
601 57th Street, SE, Charleston, WV 25304
timothy.d.craddock@wv.gov
(304) 926-0499 Ext. 1040
<http://www.dep.wv.gov/nonpoint>

COAL AND OUR ENVIRONMENT

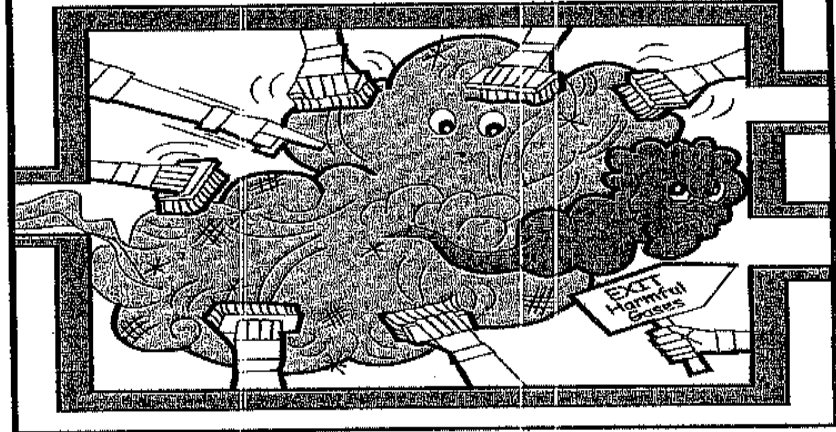
To keep coal from harming our land, air and water:



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.

