Chinese Mining Delegation Visit

December 3, 2004

Questions Posed

- How does Pennsylvania achieve the regulatory goals with small mining operations?
- How does Pennsylvania promote safety at small mining operations?

Mission Statement

The Bureau of Deep Mine Safety's mission is to reduce the possibility of accidents in the underground mines and commercial operations and to protect the property connected therewith, to provide for the health and safety of the miners and contribute to the public safety in relation to deep mining activities.

Small Mine Regulations

All underground mines are regulated equally. The Bureau does not make a distinction between large and small mines.

Questions Posed

How does Pennsylvania achieve the regulatory goals with small mining operations?

How does Pennsylvania promote safety at small mining operations?

Promotes Safety Through:

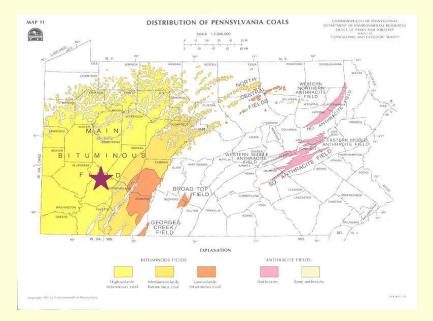
- Bureau Web Page
- Training Courses
- Training Exercises
- Mine Rescue Training
- Engineering/Technical Reviews

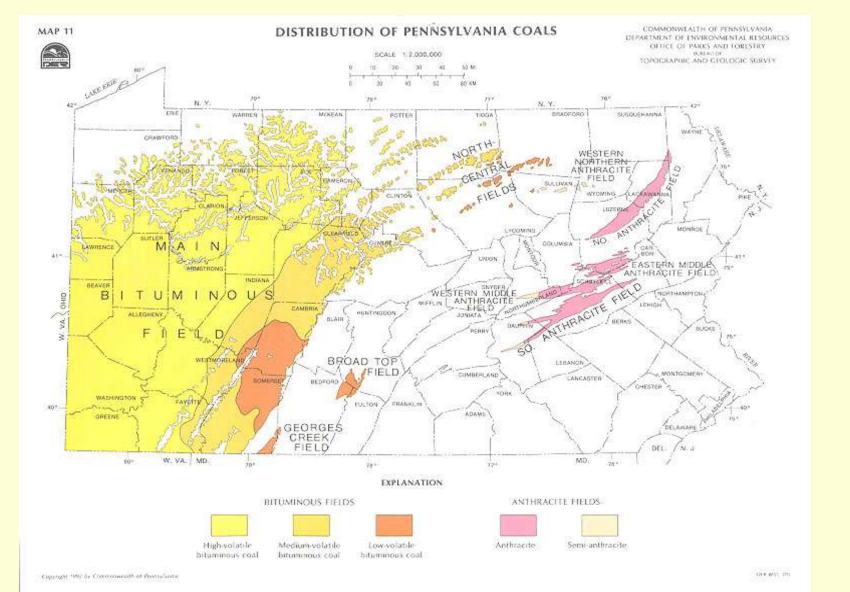
History of Coal Mining in Pennsylvania

- When and where?
- Significant miner safety and health events
- Historical statistics on mining accidents
- **Regulatory standards**
- Technology
- Accident reduction through training
- Inter-agency cooperation
- Other mining organizations

When and Where?

In 1751, John Pattin made the first reference to Bituminous Coal found along Kiskiminetas River near Saltsburg, PA



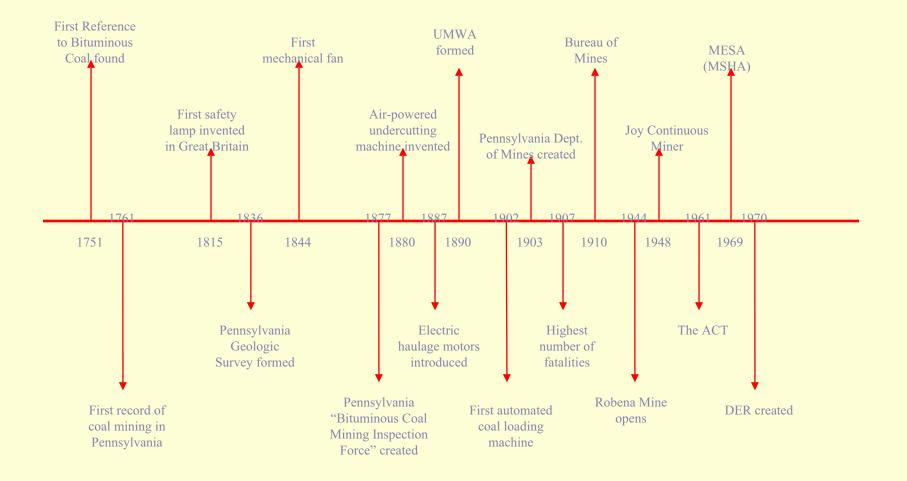


History of Coal Mining in Pennsylvania

When and where?

Significant miner safety and health events

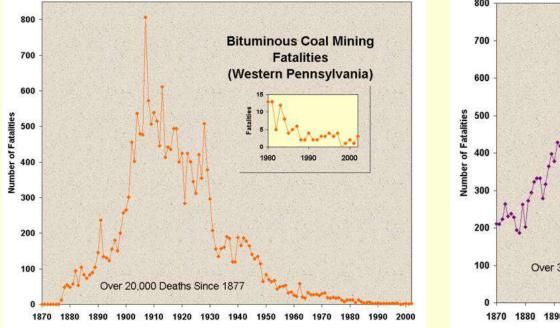
A Timeline of Mining History

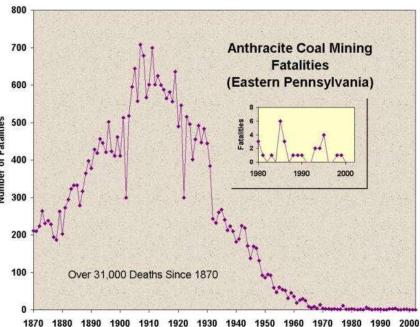


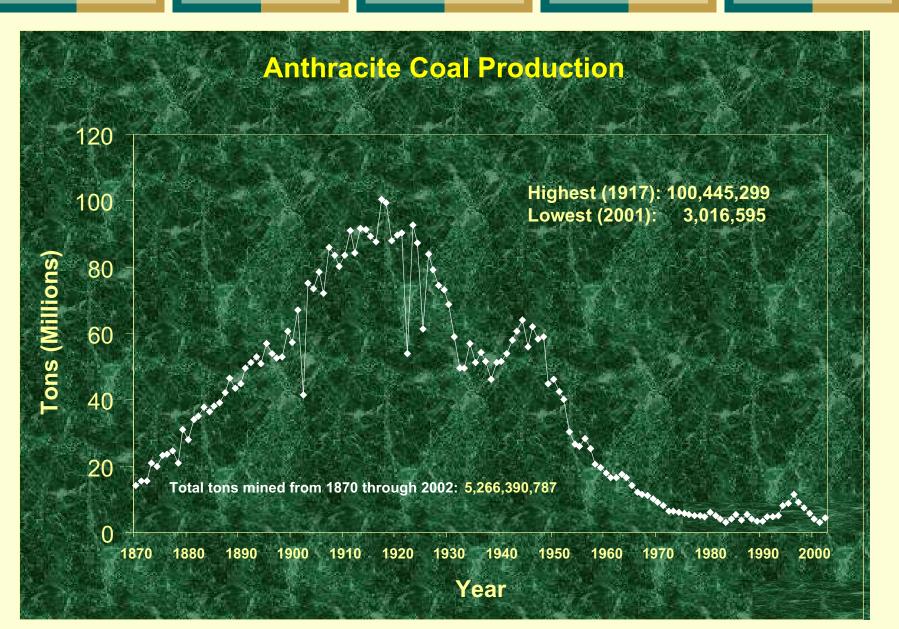
History of Coal Mining in Pennsylvania

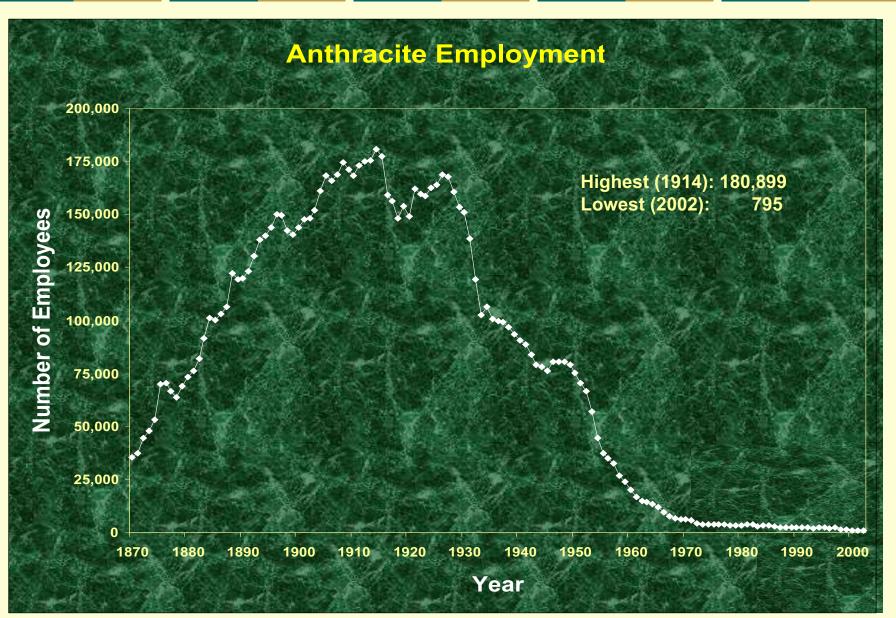
When and where? Significant miner safety and health events Historical statistics on mining accidents

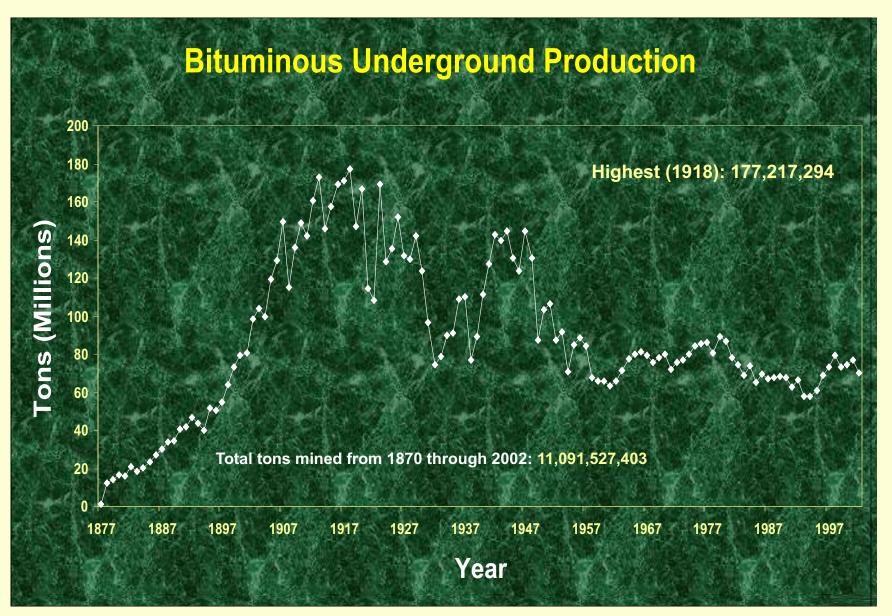
Coal Mining Fatalities

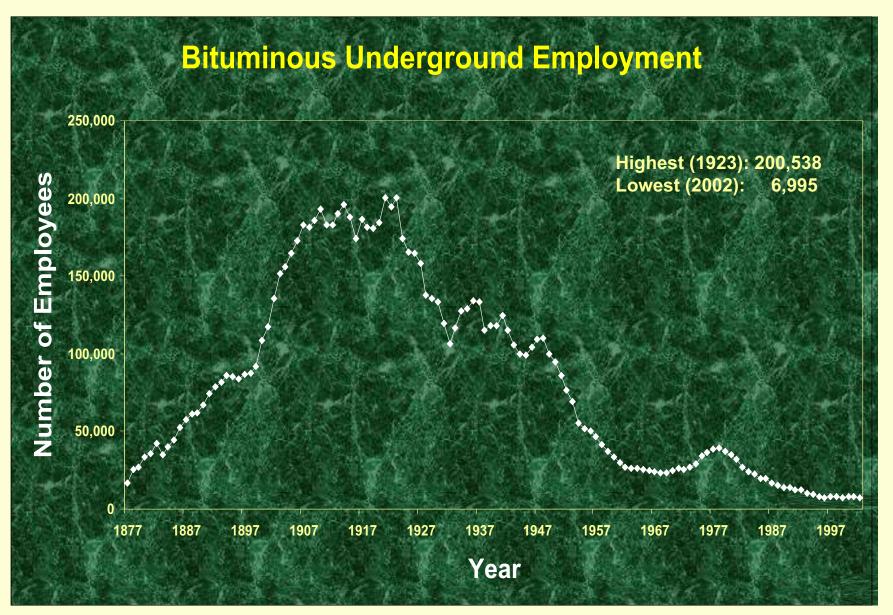












History of Coal Mining in Pennsylvania

When and where? Significant miner safety and health events Historical statistics on mining accidents Regulatory standards

Regulatory Standards

- Organization Chart
- Mining Office Locations
- Rules governing mining

Organization Chart





Rules Governing Mining

- Environmental
- Health and Safety

Environmental Regulations

Chapter 77 Noncoal Mining	Chapter 86 Surface & Underground Coal Mining	Chapter 87 Surface Mining of Coal	Chapter 88 Anthracite Coal
Chapter 89 Underground Mining of Coal and Coal Preparation	Chapter 90 Coal Refuse Disposal	Chapter 92 Pollutant Discharge Elimination System	Chapter 93 Water Quality Standards
Chapter 102 Erosion and Sediment Control	Chapter 105 Dam Safety and Waterway Management	Chapter 121 Air Resources	Chapter 123 Air Resources
Chapter 127 Air Resources	Chapter 129 Air Resources	Chapter 209 Safety in Bituminous Strip Mines	Chapter 210 Blaster's License
Chapter 211 Storage, Handling and Use of Explosives	Chapter 271 Municipal Waste	Chapter 287 Residual Waste	Chapter 401 Mine Subsidence Fund

Health and Safety Laws

- Bureau of Deep Mine Safety
- Mine Safety and Health Adminstration

Bureau of Deep Mine Safety

- Bituminous Coal Mining Laws of Pennsylvania
- Anthracite Coal Mining Laws of Pennsylvania

Bituminous Coal Mining Laws

Establishes the State's responsibilities regarding worker safety

- Secretary
- Inspectors
- Inspection Reports
- Findings
- Discretionary Powers of the Inspector
- Reports of Operating Mines
- Mine Rescue Stations
 - Equipment
 - Instructors
 - Rescue Teams

Bituminous Coal Mining Laws

Referred to as the ACT Enacted in 1961

- Health & safety of persons employed in underground mines
- Protection of property
- Prescribes penalties

Anthracite Mining Laws

Referred to as the ACT Enacted in 1954

 Sets health and safety standards governing anthracite coal mining within the Commonwealth

Mine Safety & Health Administration

Federal Coal Mine Health and Safety Act of 1969

Federal Mine Safety and Health Act of 1977

Federal Coal Mine Health and Safety Act of 1969

- Written in response to the Farmington Mine Disaster
- Written to provide for the protection of the health and safety of persons working in the coal mining industry of the United States

Federal Mine Safety and Health Act of 1977

- Renamed the Federal Coal Mine Health and Safety Act of 1969
- Merged with the Metal and Non-Metallic Mine Safety Act of 1966
- Provides for the protection of the health and safety of persons working in the mining industry of the United States

History of Coal Mining in Pennsylvania

When and where? Significant miner safety and health events Historical statistics on mining accidents Regulatory standards Technology

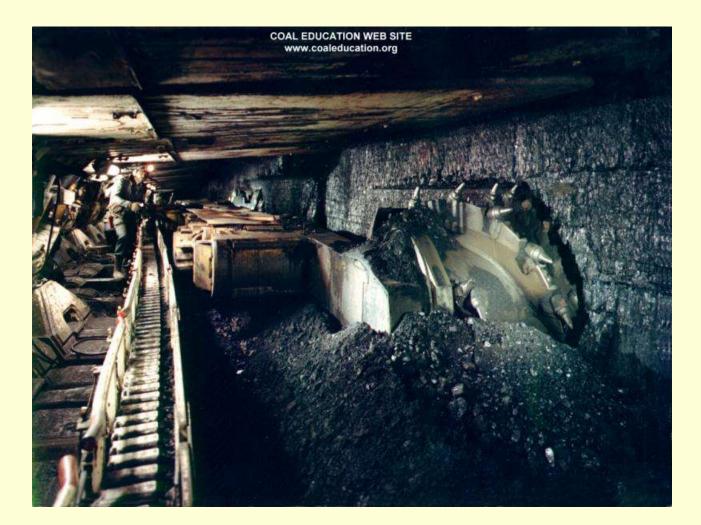
Technology

- Ventilation
- Gas Detection
- Dust Suppression
- Ground Control
- Electrical Equipment
- Diesel Equipment

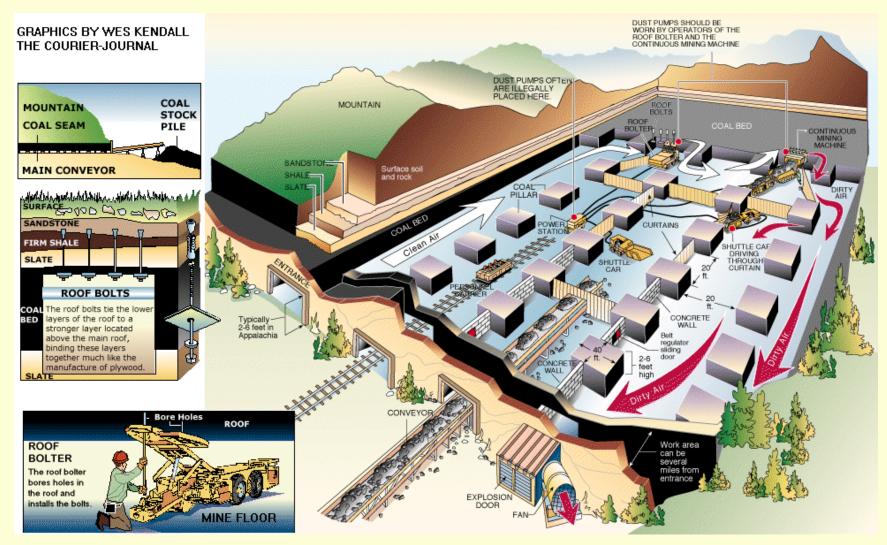




And Now



Anatomy of a Coal Mine



History of Coal Mining in Pennsylvania

When and where? Significant miner safety and health events Historical statistics on mining accidents Regulatory standards Technology Accident reduction through training

Accident Reduction Through Training

- Miner Certification
- Mine Officials Certification
- Hazard Training
- Annual Refresher

History of Coal Mining in Pennsylvania

Inter-agency cooperation



Inter-Agency Cooperation

Accident Investigations Health and Safety Training Funding Accident Statistics Hazard Awareness

History of Coal Mining in Pennsylvania

Other mining organizations

Other Mining Organizations

Pennsylvania Coal Association United Mine Workers of America Office of Surface Mining Pennsylvania Coal Mining Institute of America Holmes Safety Association NIOSH USMRA

Summary

All underground mines are regulated the same, regardless of size.

The elimination of accidents, injuries, and fatalities is a common goal shared by the various groups associated with mining. The collaborative effort from the State/Federal agencies, mining companies, mining organizations, mine labor, safety and health organizations, and academia has shown to be effective in promoting and achieving safer mines.