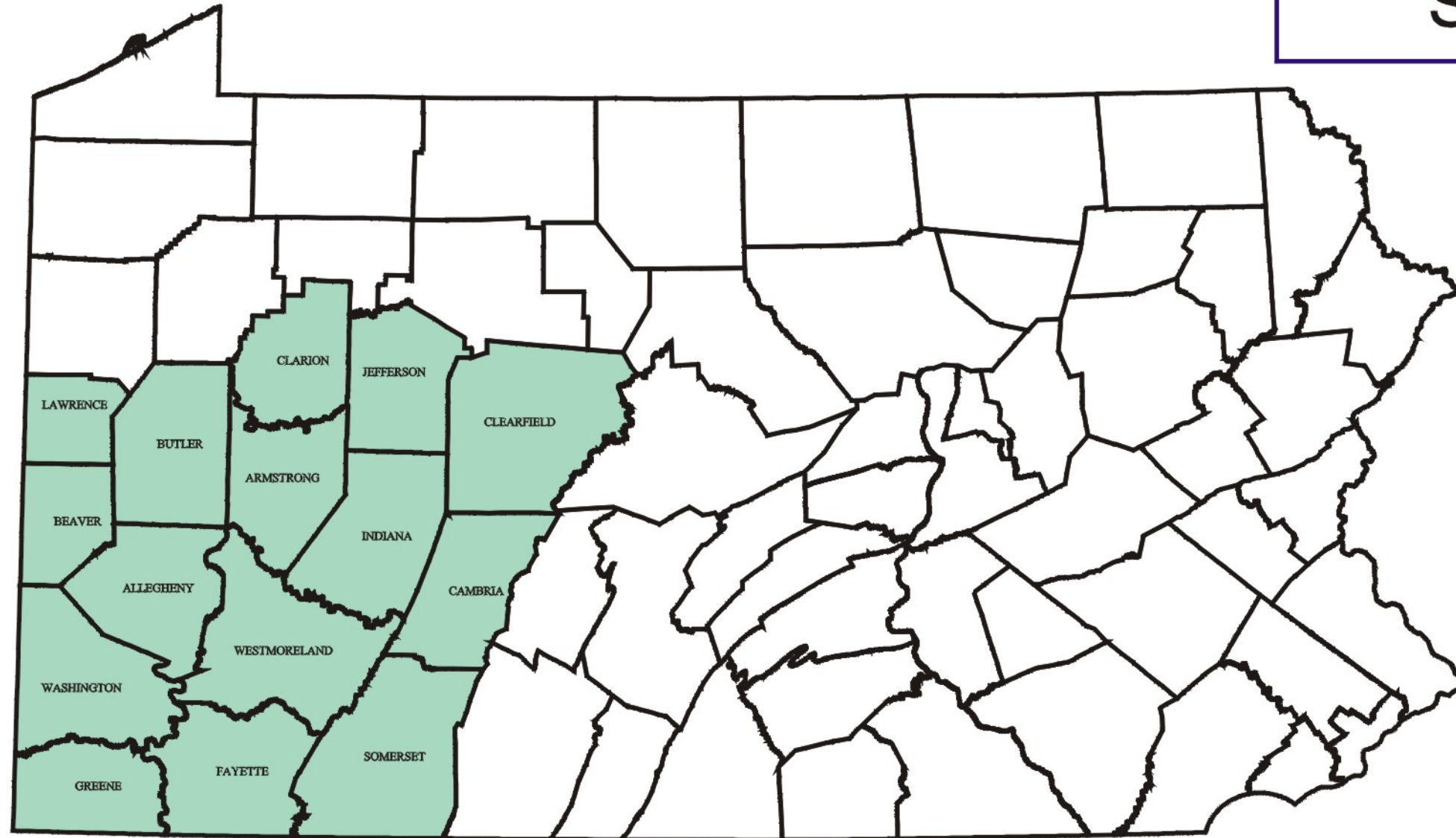


Plate 1 Five Year Report Study Area



Commonwealth of Pennsylvania
Department of Environmental Protection



Tom Ridge, Governor
James M. Seif, Secretary

County Boundary
Study Area

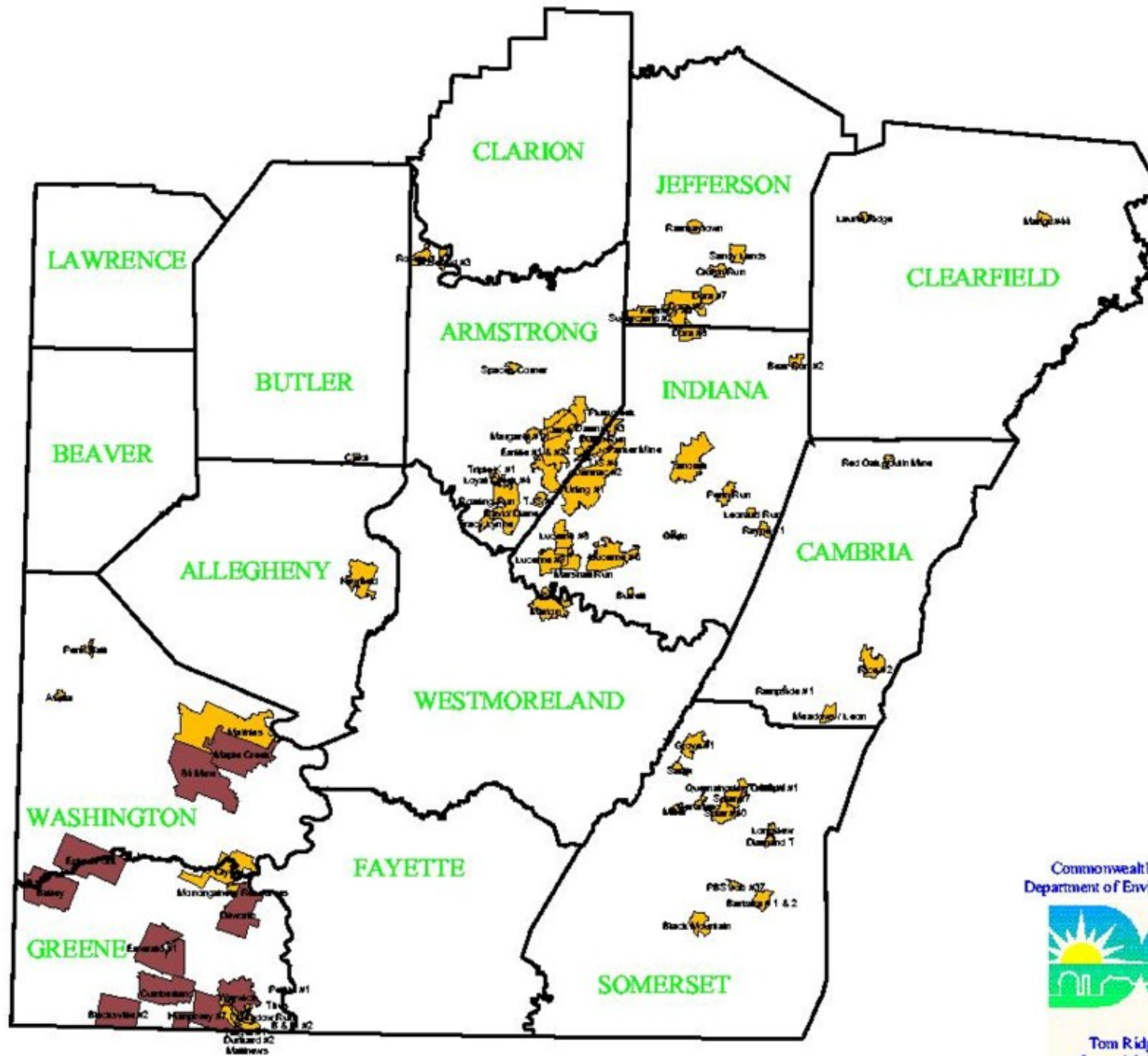


December 1998
0 20 40 Miles

0 20 40 Kilometers

Prepared by: M.J. Klimkos

Plate 2
Area of Study
Showing Mine Locations




Longwall Mines
 Other Underground Mining Methods
 County Boundary

Commonwealth of Pennsylvania
Department of Environmental Protection



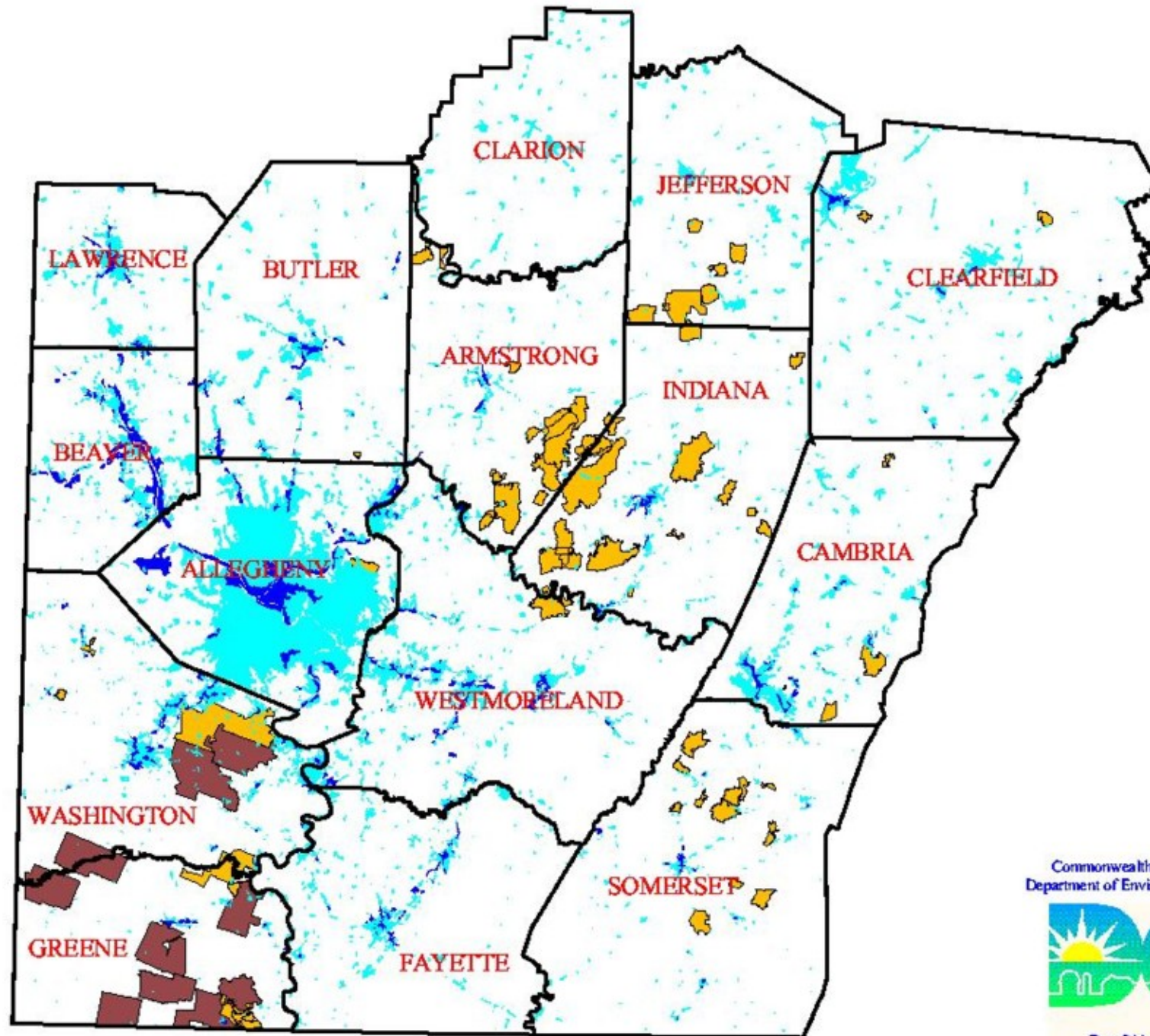
Tom Ridge, Governor
James M. Seif, Secretary



0 10 20 30 40 Miles

0 10 20 30 40 50 Kilometers

Plate 3
 Area of Study
 Showing Mine Locations
 Urban and Suburban Areas



- Suburban Area
- Urban Area
- Data from Pennsylvania Spatial Data Access Center at Penn State University
- Longwall Mines
- Other Underground Mining Methods
- County Boundary

Commonwealth of Pennsylvania
 Department of Environmental Protection



Tom Ridge, Governor
 James M. Seif, Secretary



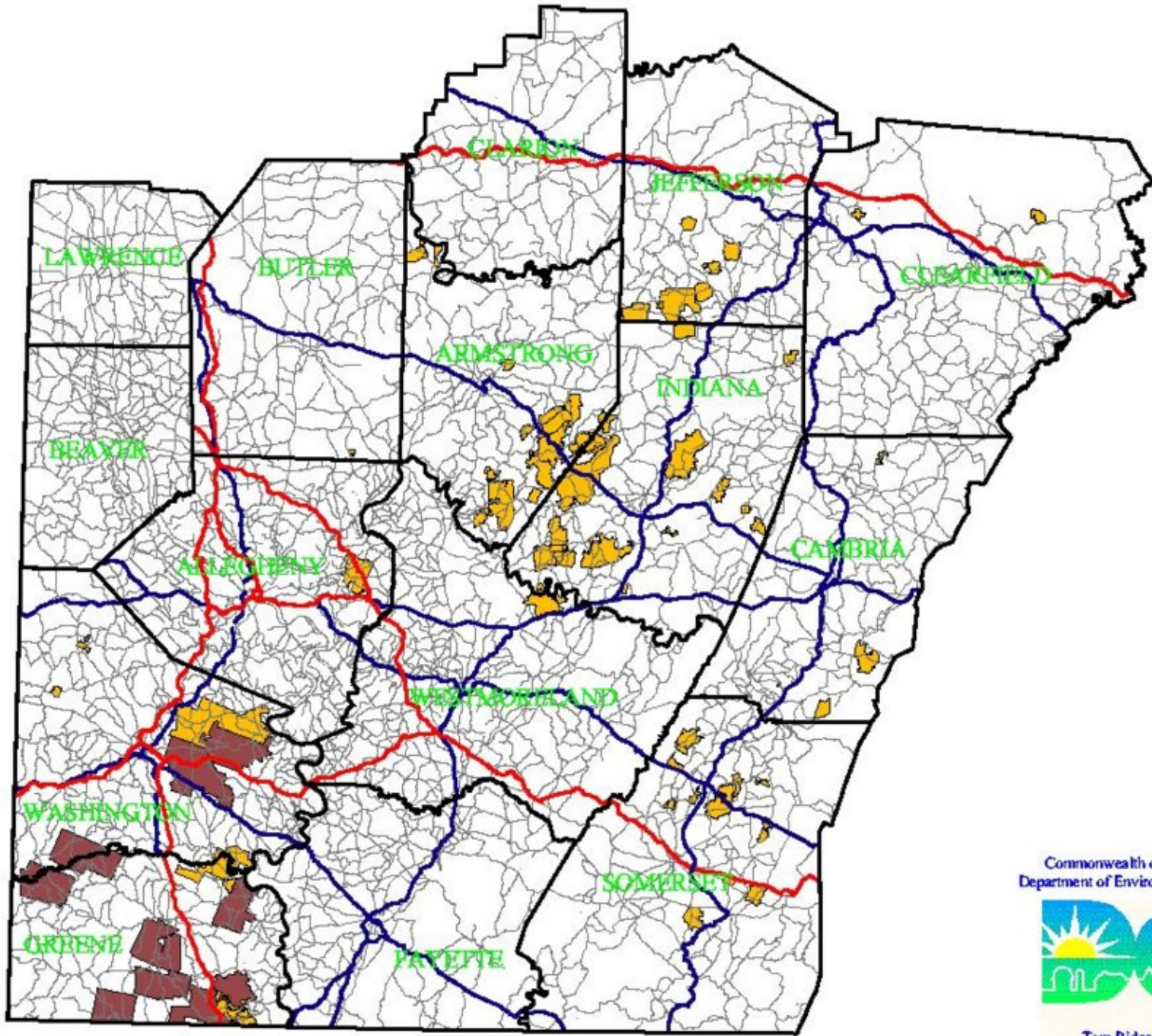
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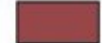


0 10 20 30 40 50 Kilometers

December 1998

Prepared by: M.J. Klimkos

Plate 4 Area of Study Showing Mine Locations and Highways

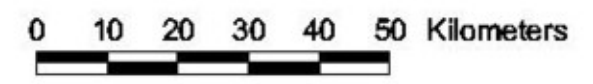
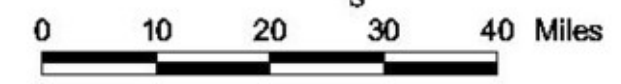


 Interstate Highway
 US Route
 Other Roads
 Data from Pennsylvania Department of Transportation
 Longwall Mines
 Other Underground Mining Methods
 County Boundary

Commonwealth of Pennsylvania
Department of Environmental Protection



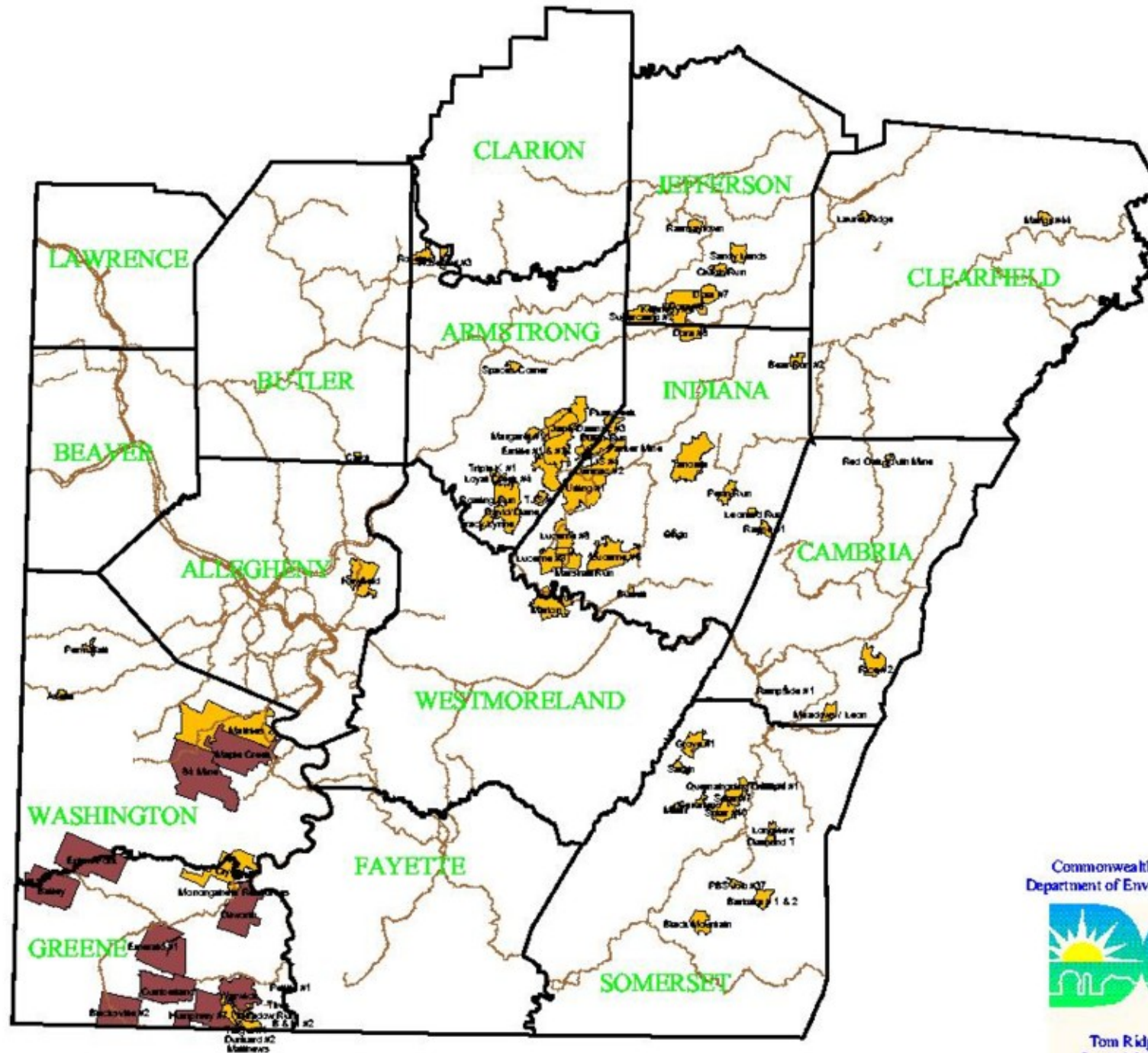
Tom Ridge, Governor
James M. Seif, Secretary







December 1998

Prepared by: M.J. Klimkos

Plate 5
Area of Study
Showing Mine Locations
and
Major Railroads

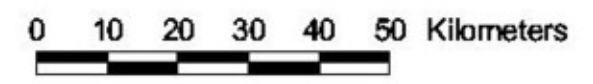
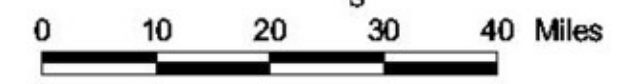


 Major Railroad
Data from DEP GIS Compendium
 Longwall Mines
 Other Underground Mining Methods
 County Boundary

Commonwealth of Pennsylvania
Department of Environmental Protection



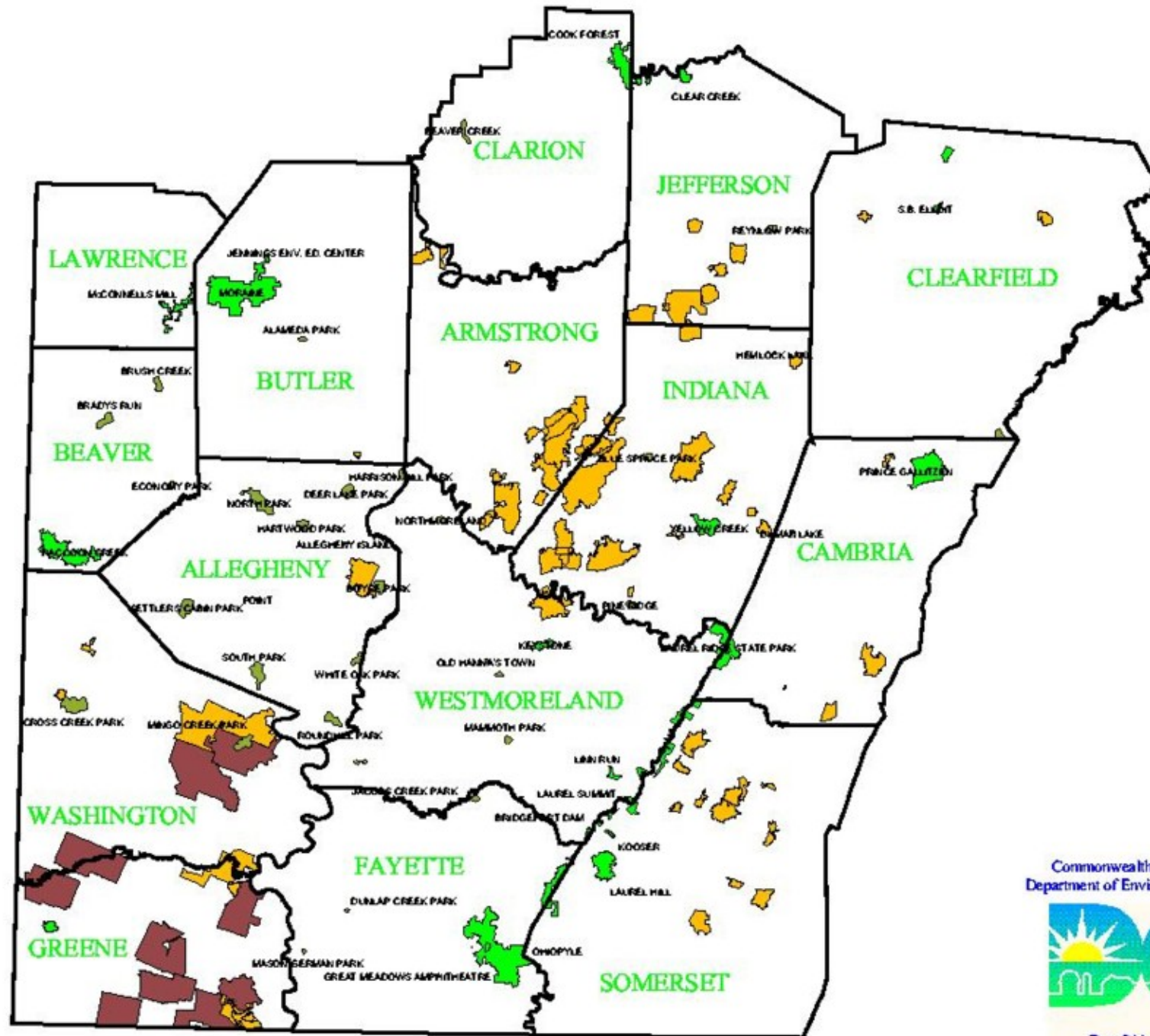
Tom Ridge, Governor
James M. Seif, Secretary



December 1998

Prepared by: M.J. Kirkos

Plate 6
 Area of Study
 Showing Mine Locations
 County and State Parks

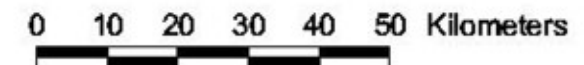
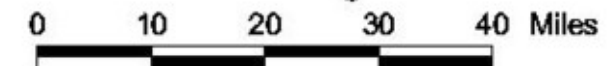


- State Park
- County Park
- Data from DEP GIS Compendium
- Longwall Mines
- Other Underground Mining Methods
- County Boundary

Commonwealth of Pennsylvania
 Department of Environmental Protection



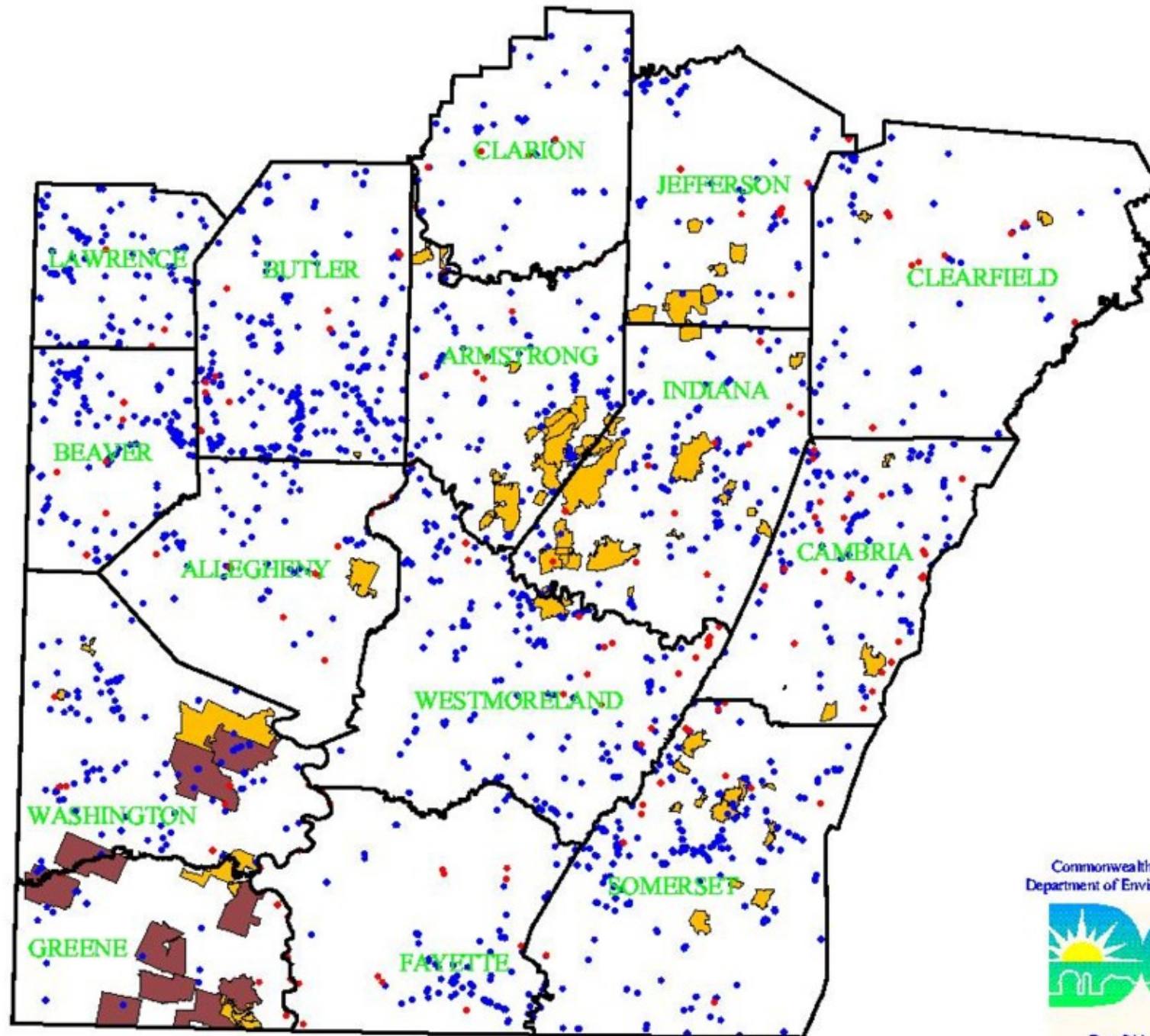
Tom Ridge, Governor
 James M. Seif, Secretary



December 1998

Prepared by: M.J. Klimkos

Plate 7
 Area of Study
 Showing Mine Locations
 and
 Public Water Supplies



- Surface Water Intakes
- Groundwater Sources

Data from Bureau of Water Supply Management

- Longwall Mines
- Other Underground Mining Methods
- County Boundary

Commonwealth of Pennsylvania
 Department of Environmental Protection



Tom Ridge, Governor
 James M. Seif, Secretary

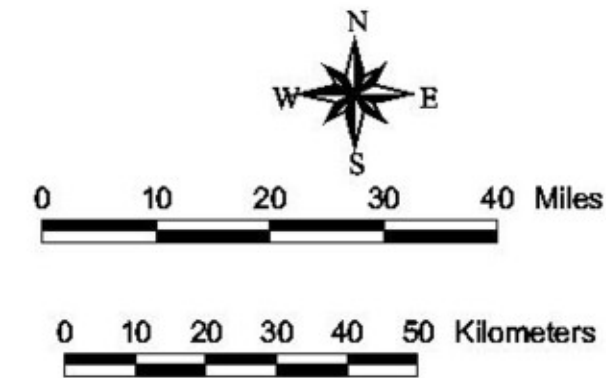
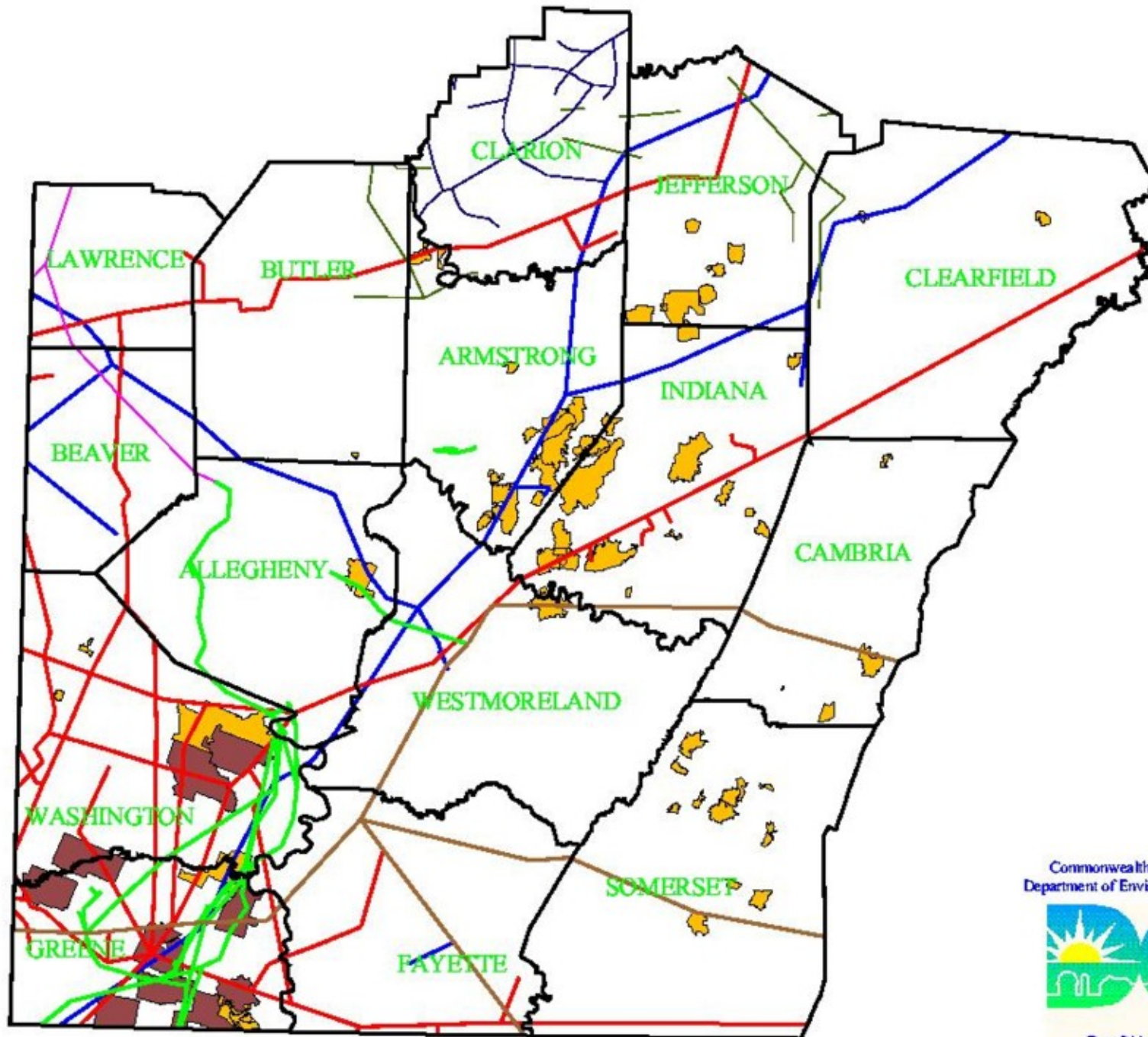












Plate 8
 Area of Study
 Showing Mine Locations
 and
 Natural Gas Transmission Lines



 Texas Eastern
 Tennessee Gas Pipeline
 North Penn
 National Fuels
 Equitable
 Columbia
 CNG Transmission
 Data from U.S. Dept of Transportation
 Office of Pipeline Safety
 Pipenet Files
 Longwall Mines
 Other Underground Mining Methods
 County Boundary

Commonwealth of Pennsylvania
 Department of Environmental Protection

 Tom Ridge, Governor
 James M. Seif, Secretary

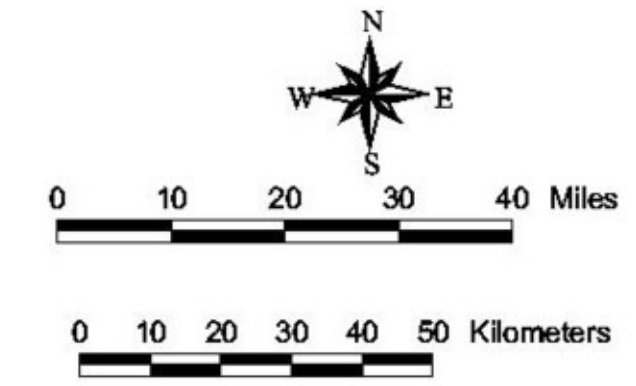
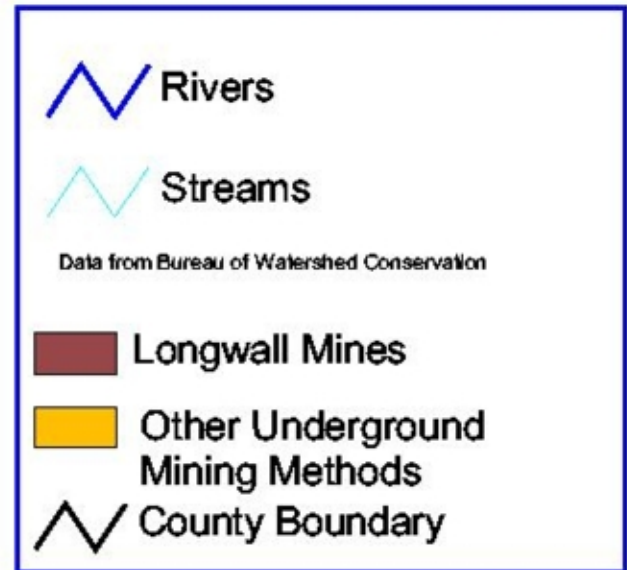
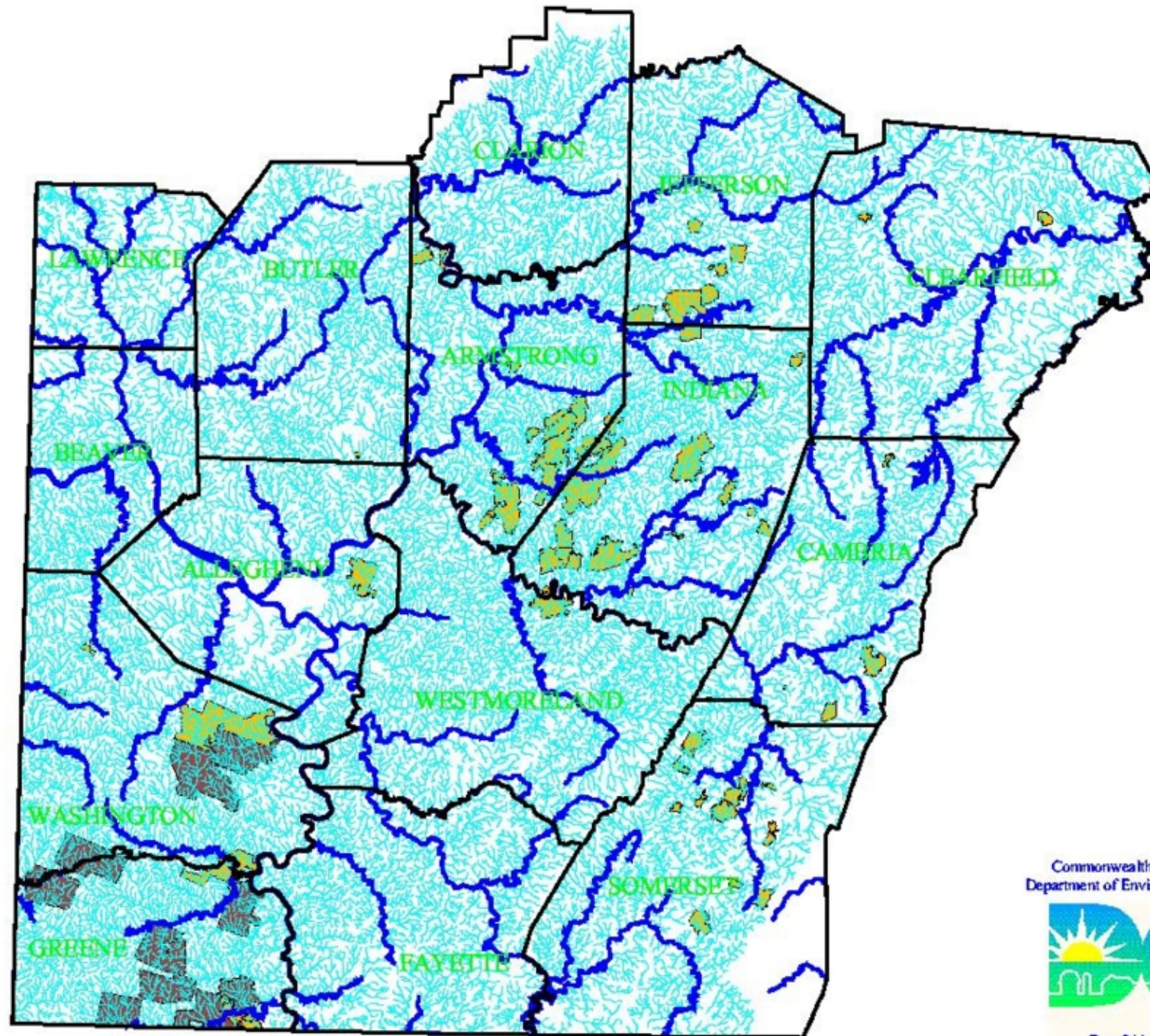


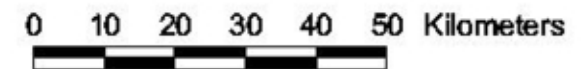
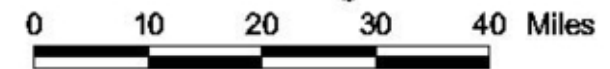
Plate 9
 Area of Study
 Showing Mine Locations
 and
 Major Streams and Rivers



Commonwealth of Pennsylvania
 Department of Environmental Protection



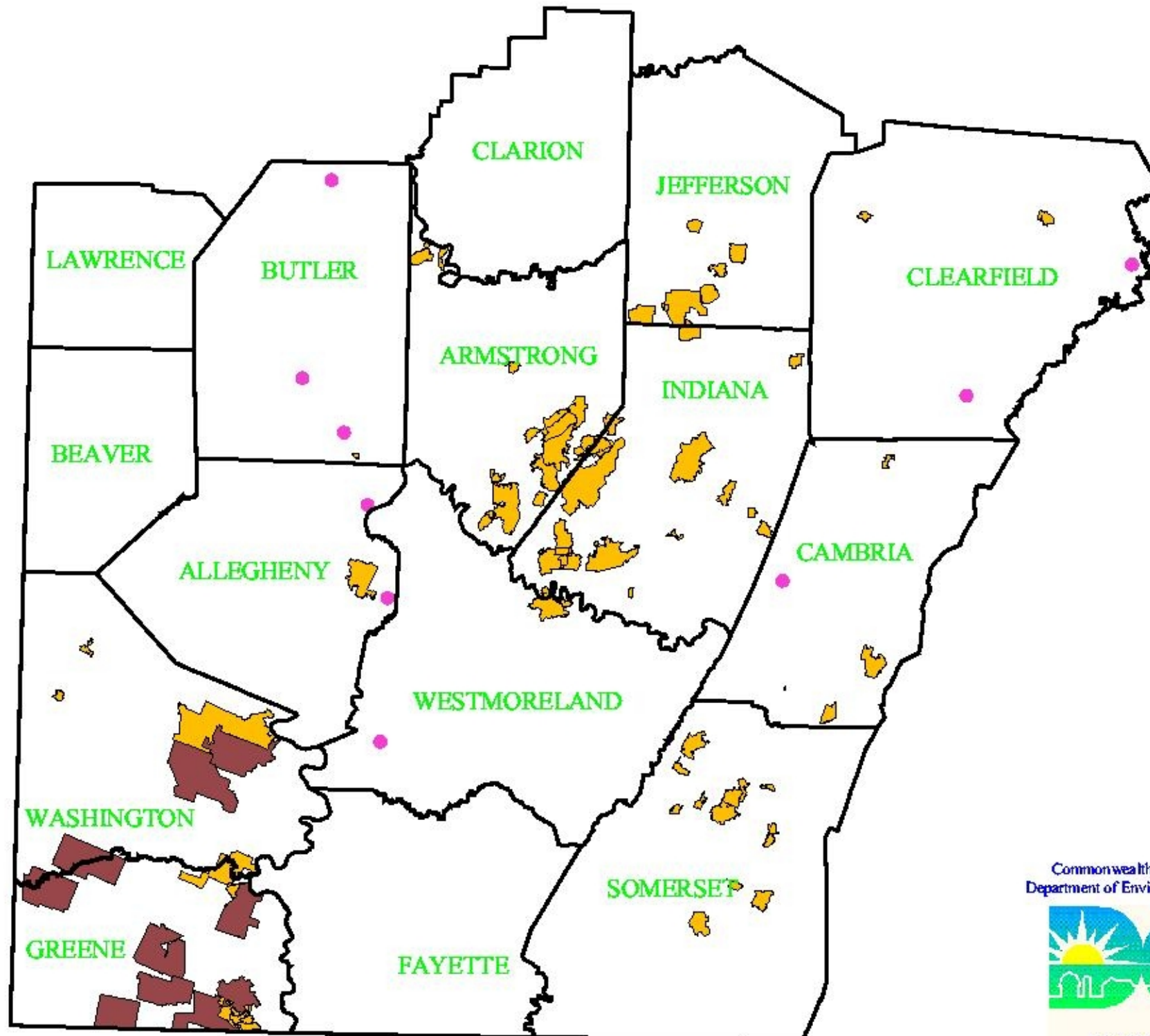
Tom Ridge, Governor
 James M. Seif, Secretary



December 1998

Prepared by: M.J. Klimos

Plate 10
 Area of Study
 Showing Mine Locations
 and
 Solid Waste Sites



● Permitted Solid Waste Site
 Data from Bureau of Land Recycling
 and Waste Management

■ Longwall Mines
 ■ Other Mining Methods
 ~ County Boundary



0 10 20 30 40 Miles

0 10 20 30 40 50 Kilometers

Commonwealth of Pennsylvania
 Department of Environmental Protection



Tom Ridge, Governor
 James M. Seif, Secretary

December 1998

Prepared by: M.J. Klimkos