ILLINOIS AT URBANA-CHAMPAIGN Institute of Natural Resource Sustainability William W. Shilts, Executive Director ILLINOIS STATE GEOLOGICAL SURVEY E. Donald McKay III, Interim Director

Institute of Natural Resource Sustainablity

For more information contact:

http://www.isgs.illinois.edu

(217) 333-4747

Illinois State Geological Survey 615 East Peabody Drive Champaign, Illinois 61820-6964

Herrin Coal Thickness CHRISTIAN County

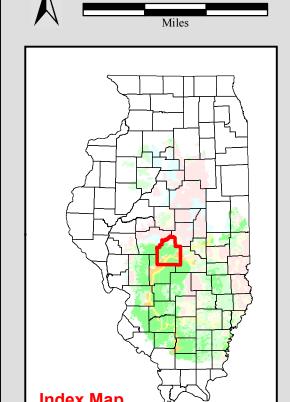
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

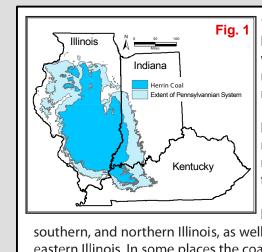
Map construction: October 28, 2009

This product is under review and may not meet the standards of the Illinois State Geological Survey.

County coal maps and select quadrangle maps available as downloadable PDF files at: http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml

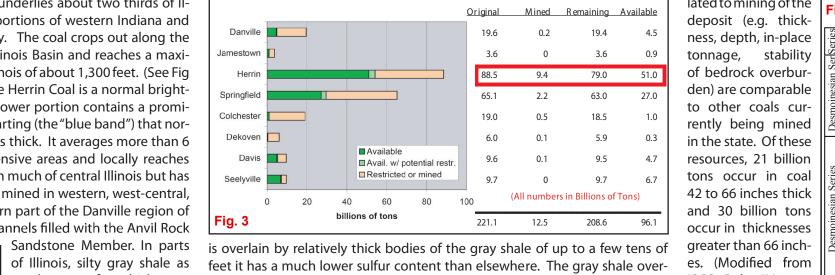
LOGAN 17N¹2E 17N 1E 17N 4W 17N 1W Illiopolis 16N 3E 16N 3W 16N 2W 16N 1W MACON SANGAMON 15N 3E 15N 4W 15N 1E 14N 2W 14N 1W 14N 1E 14N 3E 13N 1E 13N 1W 13N 3E 13N 2E Assumption 12N 2W/ 12N 1E 12N 2E 11N 2W 11N 3E 11N 11N 3W 11N 1W Waggoner SHELBY Lakewood 10N 1W 10N 3E 10N 4W 10N 3W 10N 2E MONTGOMERY Oconee The Herrin Coal underlies about two thirds of Illated to mining of the **Coal Thickness Map Explanation** Pennsylvanian Stratigraphic Column Original Mined Remaining Available deposit (e.g. thick-





linois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig I. and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone parting (the "blue band") that normally is 1-3 inches thick. It averages more than 6 feet thick in extensive areas and locally reaches 15 feet. It is thin in much of central Illinois but has been extensively mined in western, west-central,

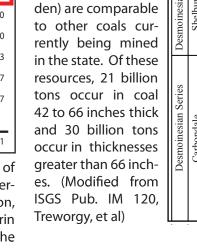
southern, and northern Illinois, as well as in the southern part of the Danville region of eastern Illinois. In some places the coal is cut out by channels filled with the Anvil Rock much as a mile wide and 60-



much as 100 feet thick over- lies the coal principally in parts of Williamson, Franklin, Jefferson, Madison, ISGS Pub. IM 120, lies the Herrin Coal. Associ- St. Clair, eastern Macoupin, and S. Vermilion. Generally, however the Herrin Treworgy, et al) ated with this shale is a chan- Coal is overlain by either the Anna Shale Member (black fissile shale) or the nel sandstone commonly as Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.) 80 feet thick mapped as Anvil The original resource of Herrin Coal in the State of Illinois totals 88.5 billion References:

contemporaneous with the Herrin Coal resources, 51 billion tons, are considered available for mining. (See

coal. In areas where the coal Fig 3.) Available means that the surface land-use and geologic conditions re-



ness, depth, in-place

tonnage, stability

of bedrock overbur-

Rock Sandstone and may be tons, of which 9.4 billion have been mined. Approximately 58% of the original - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p. - Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Herrin Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 120, 54 p.

Galum Limestor
Allenby Coal

Central and Southern
Members and Beds
Danville Coal

Central and Southern
Members and Beds
Danville Coal
Danville Coal
Danville Coal
Danville Coal
Danville Coal

Lawson Shale

Anna Shale

Canton Shale

Excello Shale
Houchin Creek Coal
Breezy Hill Limestone
Kerton Creek Coal
Pleasantview Sandstore

Anvil Rock Sandston

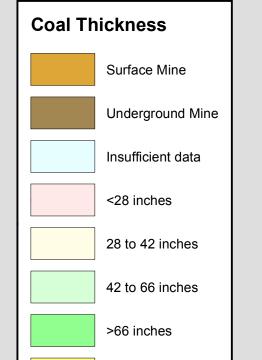
Conant Limestone

Brereton Limeston Anna Shale

Herrin Coal

Briar Hill Coal Canton Shale

Excello Shale Houchin Creek Coal



Channel

Split Coal

The maps and digital files of this study were compiled from data from a variety of public and private sources and have varying degrees of completeness and accuracy. They present interpretations of the geology of the area and are based on available data. However, these interpretations are based on data that may vary with respect to accuracy of geographic location, type, quantity, and reliability, as they were supplied to the Illinois State Geological Survey. Consequently, the accuracy of the interpreted features shown in these files is subject to the limitations of the data and varies from place to place.

Contoured features less than 7 million square feet (about 1/2 mile square) in area may not be accurately portrayed or resolved. This data set provides a large-scale conceptual model of the geology of the area on which to base further work. These data are not intended for use in site-specific screening or decision-making.

Disclaimer

The Illinois State Geological Survey and the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

© 2009 Board of Trustees of the University of Illinois. All rights reserved.