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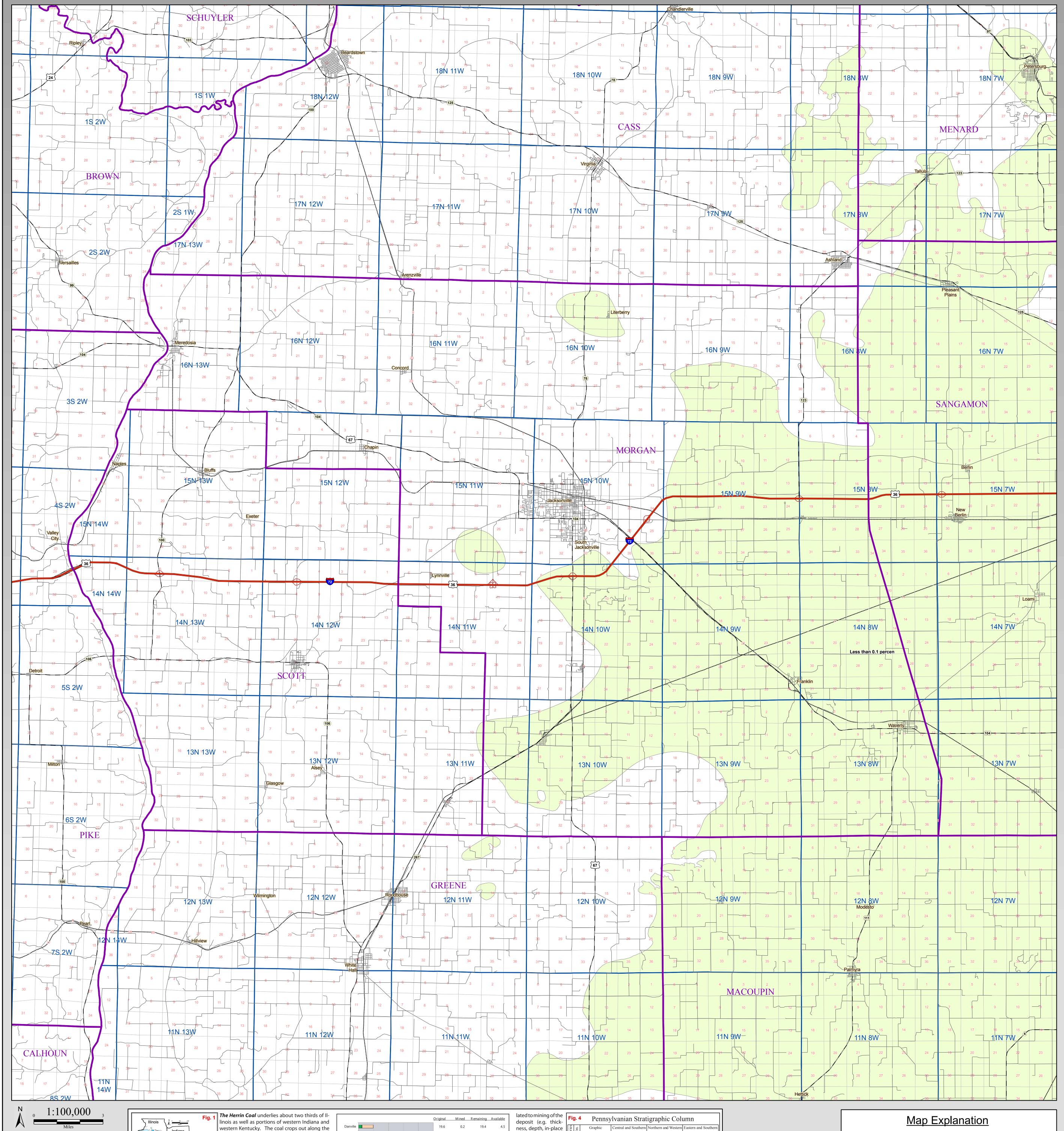
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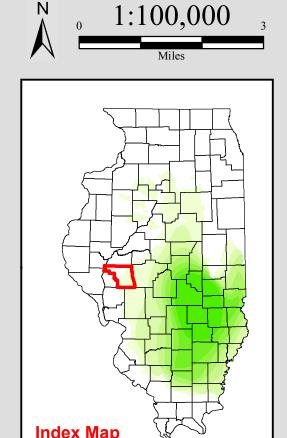
Herrin Coal Chlorine MORGAN

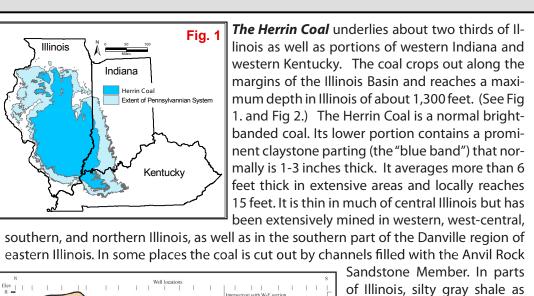
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

Map construction: October 29, 2009

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

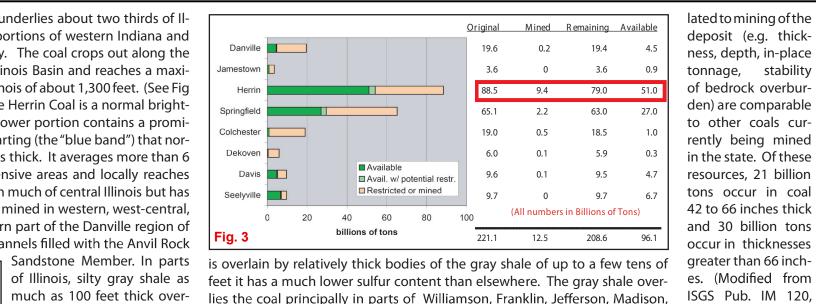






western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig . and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone parting (the "blue band") that normally is 1-3 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,

much as a mile wide and 60-Rock Sandstone and may be tons, of which 9.4 billion have been mined. Approximately 58% of the original contemporaneous with the Herrin Coal resources, 51 billion tons, are considered available for mining. (See orth-south cross section of the Pennsylvanian System in Illinois



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:

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

to other coals currently being mined in the state. Of these resources, 21 billion tons occur in coal 42 to 66 inches thick and 30 billion tons occur in thicknesses

tonnage, stability

of bedrock overbur-

den) are comparable

ies	n.	Graphic	Central and Southern	Northern and Western	Eastern and Souther
Series	Fm.	Column	Members and Beds	Members and Beds	Members and Beds
Desmoinesian Ser	Η.	××××××××××××××××××××××××××××××××××××××	Danville Coal Galum Limestone Allenby Coal Bankston Fork Limestone	Danville Coal	Danville Coal Bankston Fork Limeston
			Anvil Rock Sandstone Conant Limestone Jamestown Coal	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstone — Conant Limestone — Jamestown Coal
Desmoinesian Series D	Carbondale		Brereton Limestone Anna Shale	Brereton Limestone Anna Shale	Brereton Limestone Anna Shale
		*&**&**	Energy Shale Herrin Coal	Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone	Herrin Coal
		XXXXXX	Briar Hill Coal Canton Shale	Canton Shale	Briar Hill Coal Canton Shale
			St. David Limestone Turner Mine Shale Dykersburg Shale	St. David Limestone Turner Mine Shale	St. David Limestone Turner Mine Shale
		BXRXRXR	Springfield Coal	Springfield Coal Covel Conglomerate	Springfield Coal
		XXXXXXXXX	Hanover Limestone Excello Shale Houchin Creek Coal Roodhouse Coal Pleasantview Sandstone	Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstore	Excello Shale Houchin Creek Coal Pleasantview Sandstone

- Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.

Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 120, 54 p.

- Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Herrin

Less than 0.1 % 0.1 to 0.2 % 0.2 to 0.3 % 0.3 to 0.4 % 0.4 to 0.5 % 0.5 to 0.6 % Greater than 0.6 %

Coal Chlorine

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.

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