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Herrin Coal Depth FORD County

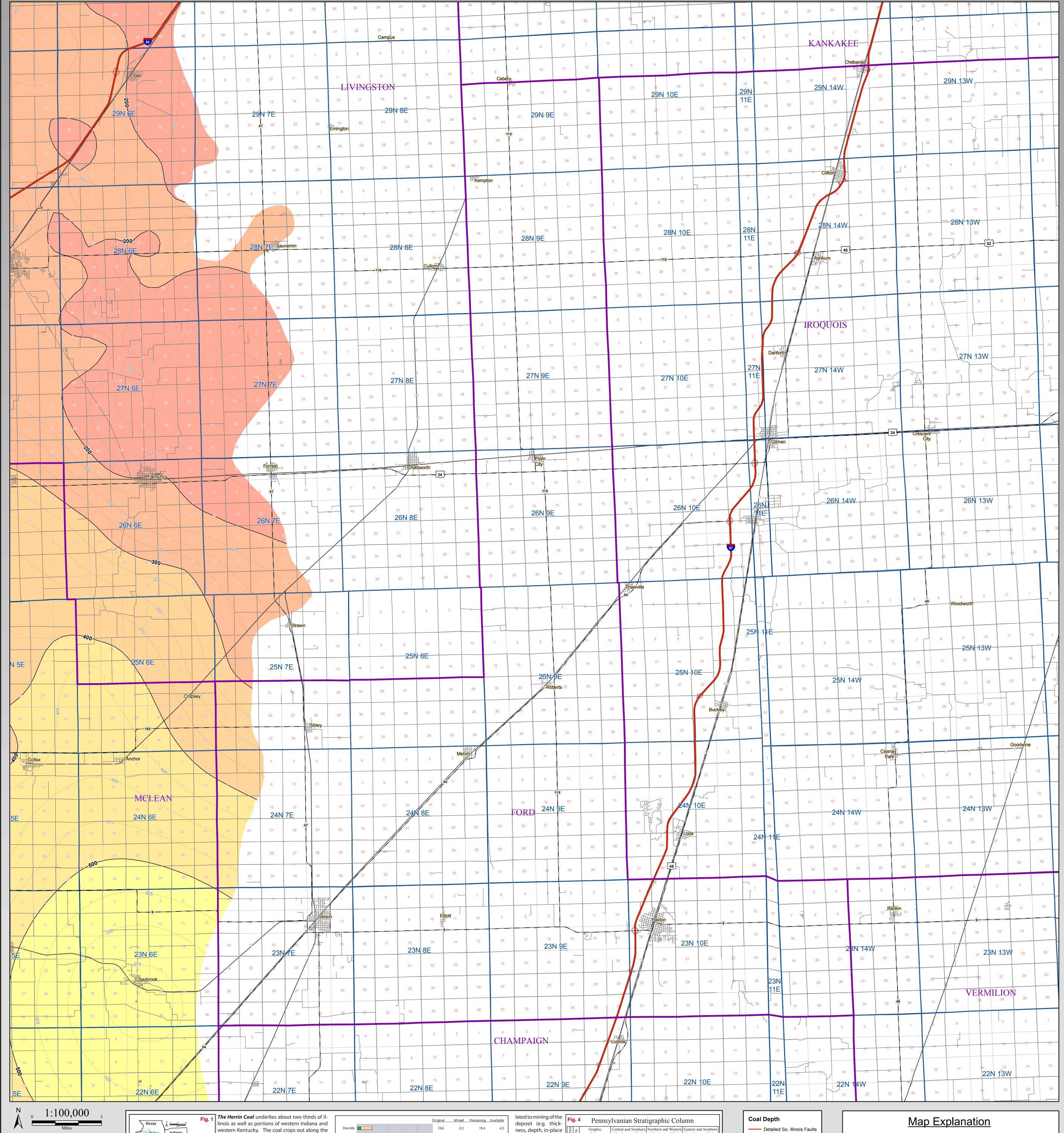
County Coal Map Series Andrew Louchios, Scott Elrick,

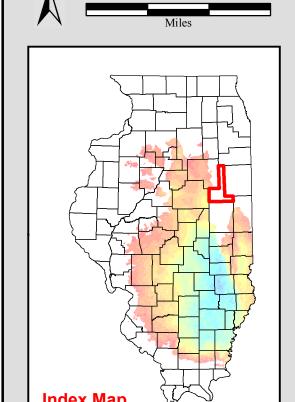
Map construction: October 26, 2009

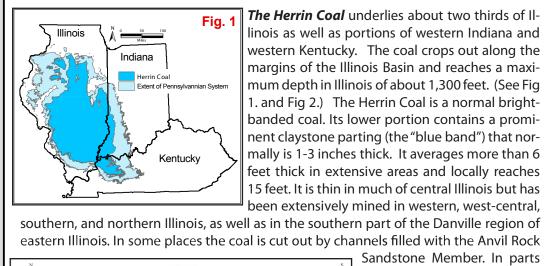
Chris Korose, David Morse

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

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

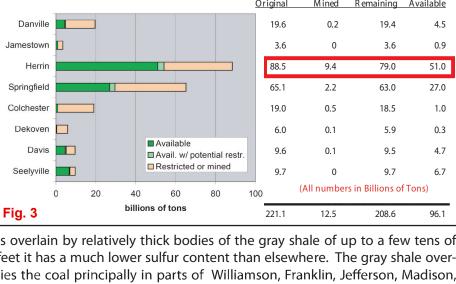






western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig 1. and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone parting (the "blue band") that normally is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

eastern Illinois. In some places the coal is cut out by channels filled with the Anvil Rock much as a mile wide and 60-80 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 th-south cross section of the Pennsylvanian System in Illinois coal. In areas where the coal Fig 3.) Available means that the surface land-use and geologic conditions re-



Sandstone Member. In parts is overlain by relatively thick bodies of the gray shale of up to a few tens of greater than 66 inchof Illinois, silty gray shale as feet it has a much lower sulfur content than elsewhere. The gray shale over- es. (Modified from 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.)

den) are comparable 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

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ness, depth, in-place	Desmoinesian Ser Series	Fm.	Graphic	Central and Southern	Northern and Western	Eastern and South
			Column	Members and Beds	Members and Beds	Members and Be
<i>y</i>		딛		Danville Coal	Danville Coal	Danville Coal
of bedrock overbur-			×××××××××××××××××××××××××××××××××××××××	— Galum Limestone — Allenby Coal		
den) are comparable			******	Bankston Fork Limestone		Bankston Fork Limest
to other coals cur-			Ar	Anvil Rock Sandstone Conant Limestone	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstor
rently being mined				Jamestown Coal		Jamestown Coal
, ,				Brereton Limestone	Brereton Limestone	Brereton Limestone
in the state. Of these	Desmoinesian Series			Anna Shale Energy Shale	Anna Shale	Anna Shale
resources, 21 billion			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Herrin Coal	Herrin Coal	Herrin Coal
tons occur in coal					Spring Lake Coal Bed Big Creek Sandstone	
				Briar Hill Coal	Vermillionville Sandstone	Briar Hill Coal
42 to 66 inches thick			X X X X X X X	Canton Shale	Canton Shale	Canton Shale
and 30 billion tons				St. David Limestone	St. David Limestone	St. David Limeston
				Turner Mine Shale Dykersburg Shale	Turner Mine Shale	Turner Mine Shale
occur in thicknesses			EXXEX XEX EX	Springfield Coal	Springfield Coal	Springfield Coal
greater than 66 inch-					Covel Conglomerate	
9				Hanover Limestone Excello Shale	Hanover Limestone Excello Shale	Excello Shale
es. (Modified from			xxxxxxxxx	Houchin Creek Coal	Houchin Creek Coal	Houchin Creek Coa
ISGS Pub. IM 120,				Roodhouse Coal	Breezy Hill Limestone	Tioucinii Cicok Cou
Treworgy, et al)				Pleasantview Sandstone	Kerton Creek Coal Pleasantview Sandstone	Pleasantview Sandsto
rieworgy, et al)	Щ—	<u> </u>				

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.

Detailed So. Illinois Faults < 100 ft 100 to 200 ft 200 to 300 ft 300 to 400 ft 400 to 500 ft 500 to 600 ft 600 to 700 ft

700 to 800 ft

800 to 900 ft

900 to 1000 ft

1000 to 1100 ft

1100 to 1200 ft

1200 to 1300 ft

1300 to 1400 ft

1400 to 1500 ft

1500 to 1600 ft

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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