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

Institute of Natural Resource Sustainablity

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

(217) 333-4747

http://www.isgs.illinois.edu

Herrin Coal Chlorine FORD County

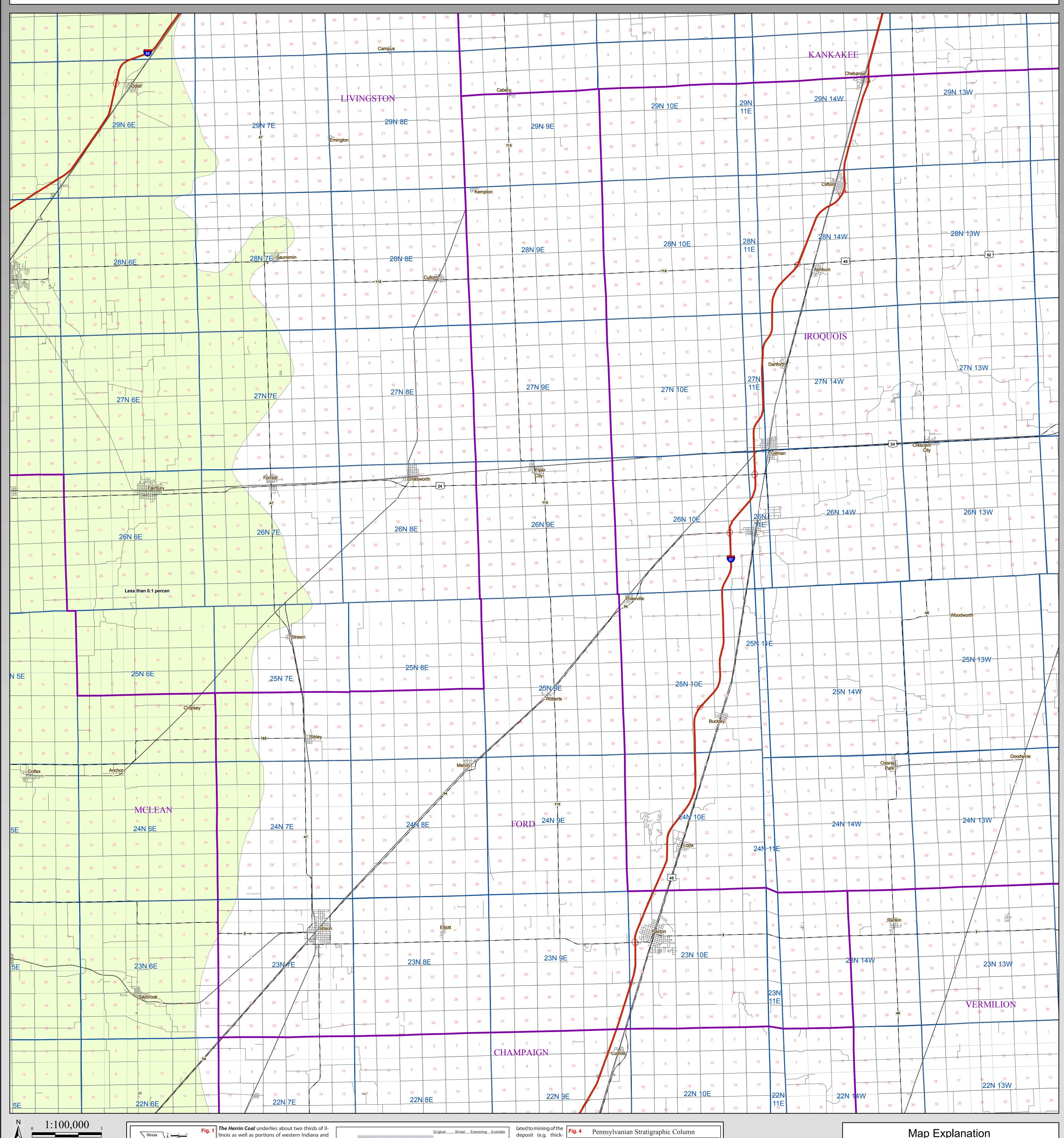
County Coal Map Series Andrew Louchios, Scott Elrick,

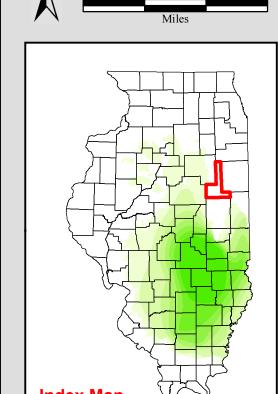
Chris Korose, David Morse

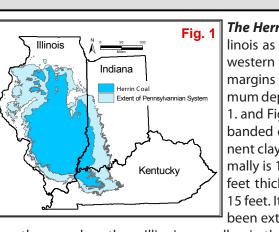
Map construction: October 29, 2009

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

County 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



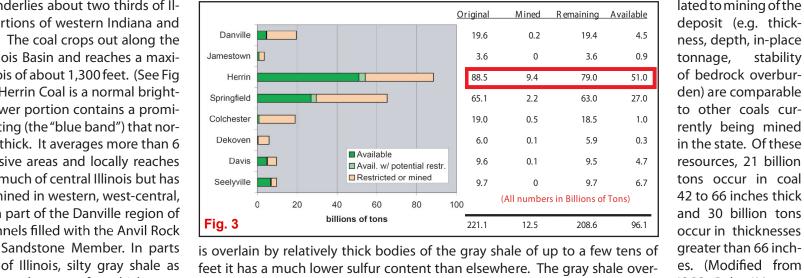




orth-south cross section of the Pennsylvanian System in Illinois

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 . 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 60-80 feet thick mapped as Anvil
The original resource of Herrin Coal in the State of Illinois totals 88.5 billion
References: Rock Sandstone and may be tons, of which 9.4 billion have been mined. Approximately 58% of the original



of 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.)

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-

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

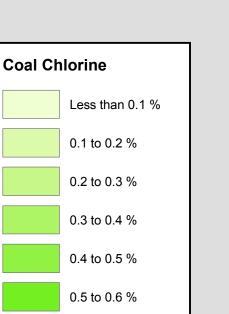
acposit (c.g. tilicit						
ness, depth, in-place	eries	Fm.	Graphic	Central and Southern	Northern and Western	Eastern and Southern
· · · · · · · · · · · · · · · · · · ·	S	F	Column	Members and Beds	Members and Beds	Members and Beds
<i>,</i> ,	Ser			— Danville Coal — Galum Limestone	Danville Coal	Danville Coal
of bedrock overbur-	Desmoinesian 5	Ε.	×××××××××××××××××××××××××××××××××××××××	—— Allenby Coal		
den) are comparable			XXXX	Bankston Fork Limestone		Bankston Fork Limestone
to other coals cur-			XXXX	Anvil Rock Sandstone	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstone
rently being mined	esr			Conant Limestone		Conant Limestone Jamestown Coal
, ,	Ω			Brereton Limestone	Brereton Limestone	Brereton Limestone
in the state. Of these				Anna Shale	Anna Shale	Anna Shale
resources, 21 billion	es		******	Energy Shale Herrin Coal	Herrin Coal Spring Lake Coal Bed Big Creek Sandstone	Herrin Coal
tons occur in coal	Series				Vermillionville Sandstone	
42 to 66 inches thick			XXXXXXX	Briar Hill Coal Canton Shale	Canton Shale	Briar Hill Coal Canton Shale
and 20 billion tons	sia	lale		St. David Limestone	St. David Limestone	St. David Limestone
and 30 billion tons	ne	onc		Turner Mine Shale	Turner Mine Shale	Turner Mine Shale
occur in thicknesses greater than 66 inch-	Desmoinesian Carbondale	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Dykersburg Shale Springfield Coal	Springfield Coal Covel Conglomerate	Springfield Coal	
	Ι"			Hanover Limestone	Hanover Limestone	
es. (Modified from			xxxxxxxxx	Excello Shale Houchin Creek Coal	Excello Shale Houchin Creek Coal	Excello Shale Houchin Creek Coal
ISGS Pub. IM 120,				Roodhouse Coal Pleasantview Sandstone	Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstore	Pleasantview Sandstone
Treworgy, et al)	<u> </u>	Ļ				

- 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

Greater than 0.6 %



Map Explanation

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.