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Herrin Coal Chlorine RICHLAND County

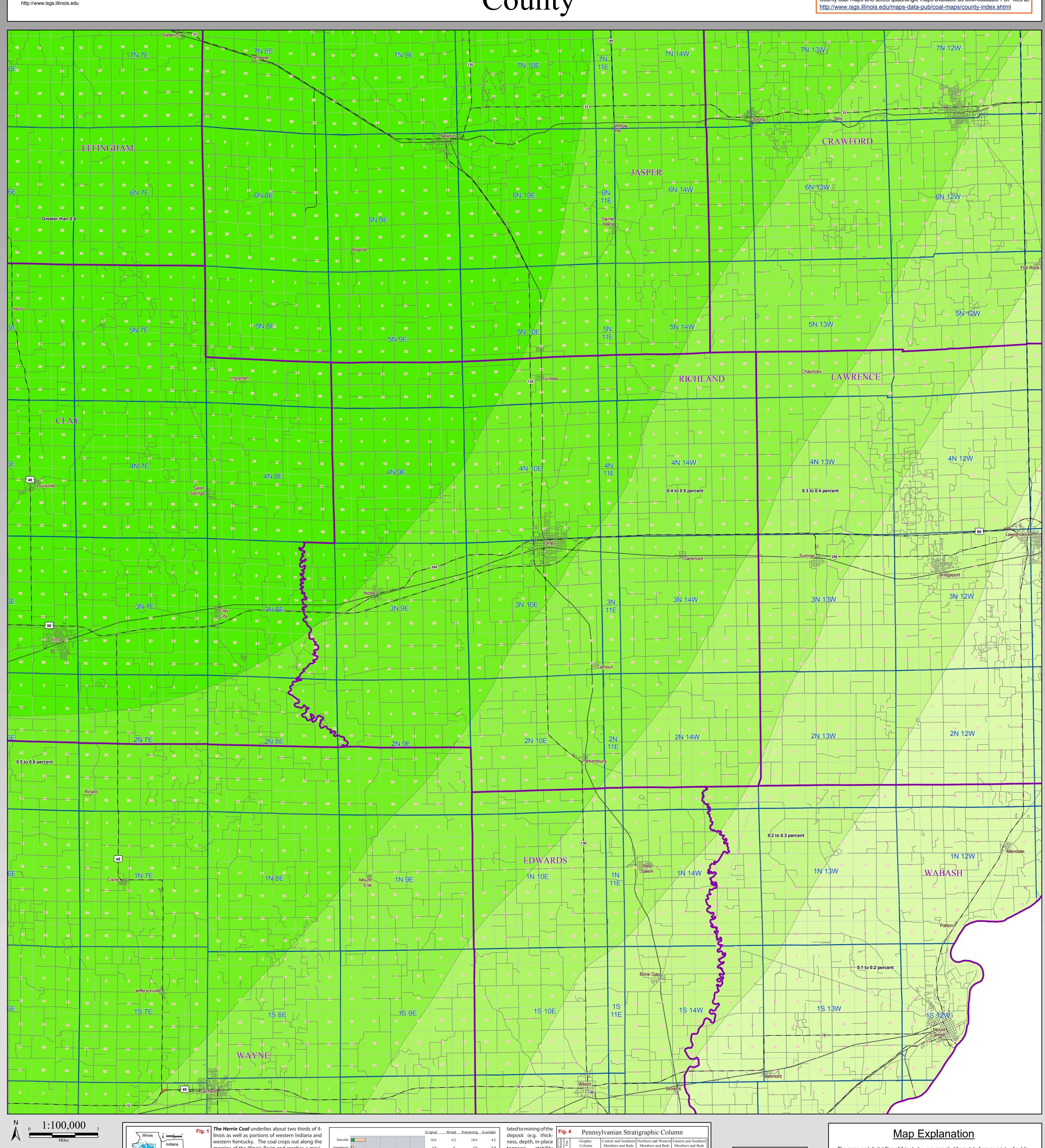
County Coal Map Series Andrew Louchios, Scott Elrick,

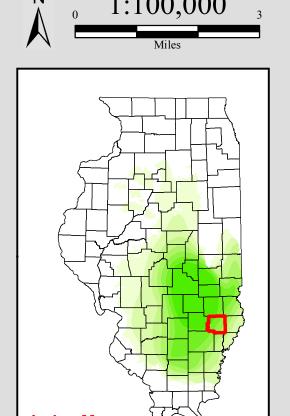
Map construction: October 29, 2009

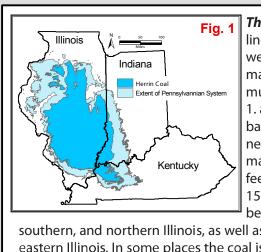
Chris Korose, David Morse

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:



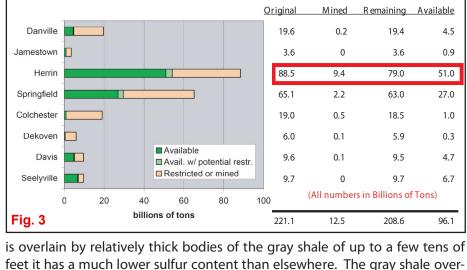




western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig . and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone parting (the "blue band") that normally is 1-3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

coal. In areas where the coal

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 Sandstone Member. In parts is of Illinois, silty gray shale as fe much as 100 feet thick overlies the Herrin Coal. Associated with this shale is a channel sandstone commonly as B much as a mile wide and 60-80 feet thick mapped as Anvil The Rock Sandstone and may be t contemporaneous with the orth-south cross section of the Pennsylvanian System in Illinois



rig. 3	221.1	12.5	208.0	90.1
is overlain by relatively thick bodies of the feet it has a much lower sulfur content the lies the coal principally in parts of Willia St. Clair, eastern Macoupin, and S. Vermil Coal is overlain by either the Anna Shale Brereton Limestone Member. (Hopkins, 19	nan elsewh mson, Fran lion. Gene Member	iere. The nklin, Jef rally, how (black fis	gray shal ferson, M wever the sile shale	le over- adison, Herrin

The original resource of Herrin Coal in the State of Illinois totals 88.5 billion tons, of which 9.4 billion have been mined. Approximately 58% of the original	References: - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.	
Herrin Coal resources, 51 billion tons, are considered available for mining. (See	- Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Herrin	
Fig 3.) Available means that the surface land-use and geologic conditions re-	Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 120, 54 p.	

5.1 5.1 5.1 5.1	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 greater than 66 inches. (Modified from ISGS Pub. IM 120, Treworgy, et al)	Desmoinesian Series Desmo	Carbondale Sh	THE TAXABLE PARTY OF TAXABLE PARTY	Anvil Rock Sandstone Conant Limestone Jamestown Coal Brereton Limestone Anna Shale Energy Shale Herrin Coal Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Dykersburg Shale Springfield Coal Hanover Limestone Excello Shale Houchin Creek Coal Roodhouse Coal Pleasantview Sandstone	Lawson Shale Brereton Limestone Anna Shale Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone Vermillionville Sandstone Canton Shale St. David Limestone Turner Mine Shale Springfield Coal Covel Conglomerate Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstone	Anvil Rock Sanastone — Conant Limestone — Jamestown Coal Brereton Limestone Anna Shale Herrin Coal Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Springfield Coal Excello Shale Houchin Creek Coal Pleasantview Sandstone
rrin the ion inal	Treworgy, et al) References: - Handbook of Illinois S	<u>L</u>	igr	aphy, 1975,			

tonnage, stability

of bedrock overbur-

den) are comparable

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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