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Herrin Coal Chlorine MONROE County

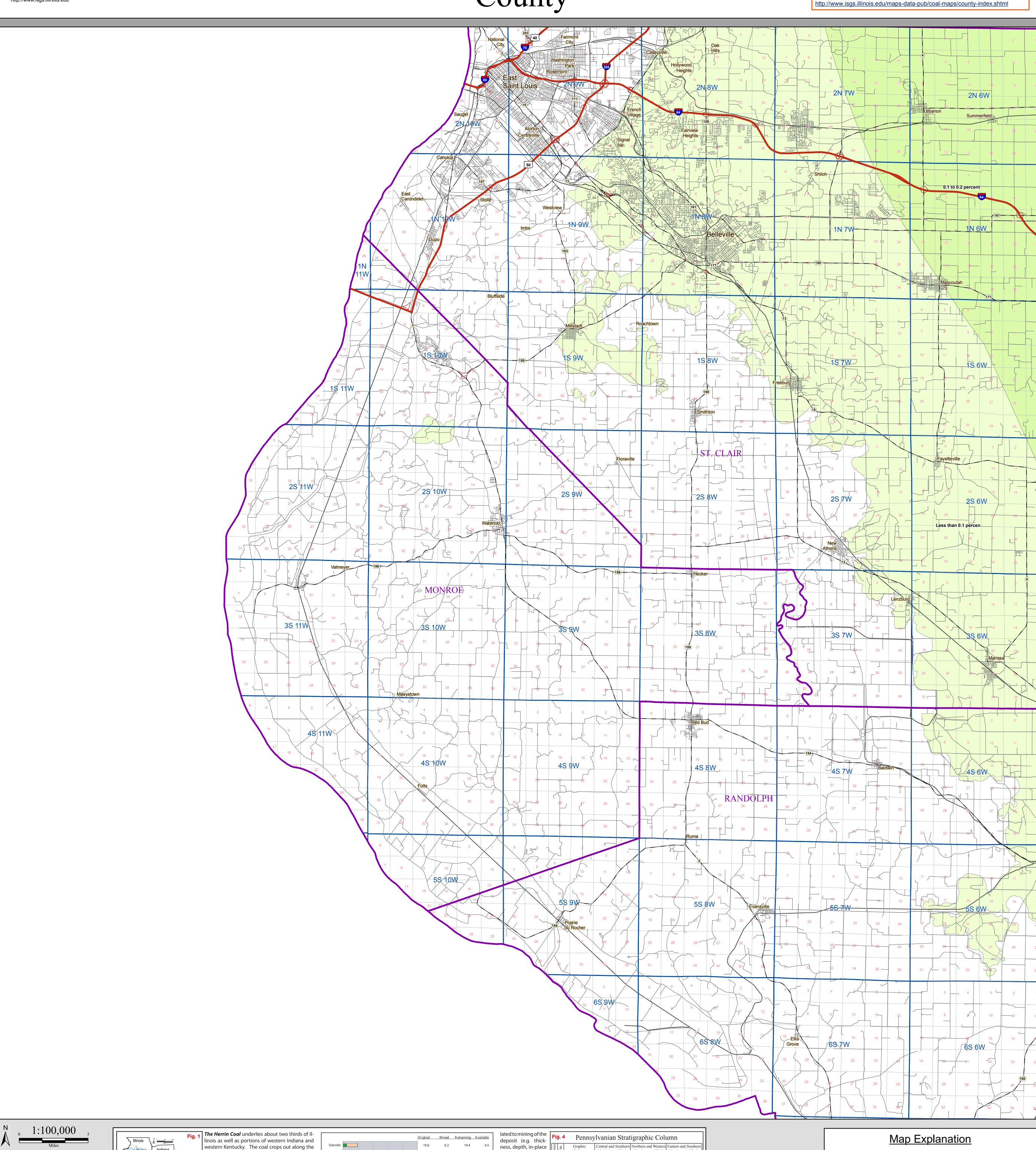
County Coal Map Series

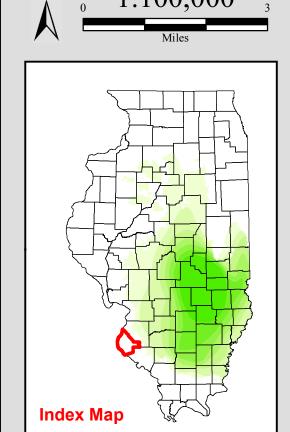
Andrew Louchios, Scott Elrick, Chris Korose, David Morse

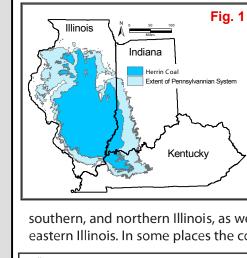
Map construction: October 29, 2009

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:



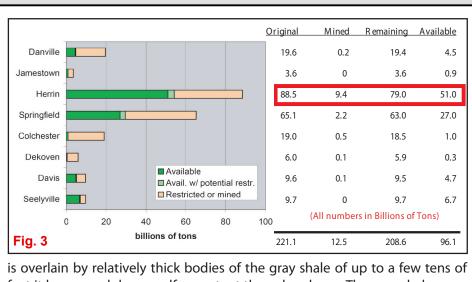




orth-south cross section of the Pennsylvanian System in Illinois

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 Sandstone Member. In parts of Illinois, silty gray shale as much as 100 feet thick overlies the Herrin Coal. Associated with this shale is a channel sandstone commonly as 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:



1 19. 0	221.1	12.3	200.0	50.1
is overlain by relatively thick bodies of the	he gray sha	ale of up	to a few	tens of
feet it has a much lower sulfur content th	nan elsewh	ere. The	gray sha	le over-
lies the coal principally in parts of Willia	mson, Fra	nklin, Jet	fferson, M	adison,
St. Clair, eastern Macoupin, and S. Vermi	ilion. Gene	rally, ho	wever the	Herrin
Coal is overlain by either the Anna Shale	Member	(black fis	sile shale) or the
Brereton Limestone Member. (Hopkins, 1	968 - B95,	See Fig 4	·.)	

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

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 greater than 66 inches. (Modified from ISGS Pub. IM 120, Treworgy, et al)

tonnage, stability

of bedrock overbur-

den) are comparable

to other coals cur-

rently being mined

Ш	Ser	FI	Column	Members and Beds	Members and Beds	Members and Beds
	ian Ser	5	××××××××××××××××××××××××××××××××××××××	— Danville Coal — Galum Limestone — Allenby Coal	Danville Coal	Danville Coal
	Desmoinesian		YYY	Anvil Rock Sandstone Conant Limestone Jamestown Coal	Copperas Creek Sandstone Lawson Shale	Bankston Fork Limestone Anvil Rock Sandstone — Conant Limestone — Jamestown Coal
╟				Anna Shale Energy Shale	Brereton Limestone Anna Shale	Brereton Limestone Anna Shale
	Desmoinesian Series		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Herrin Coal Canton Shale St. David Limestone Turner Mine Shale Dykersburg Shale Springfield Coal Hanover Limestone Excello Shale Houchin Creek Coal Roodhouse Coal	Herrin Coal Spring Lake Coal Bed Big Creek 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	Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Springfield Coal Excello Shale Houchin Creek Coal
			7	Pleasantview Sandstone	Breezy Hill Limestone Kerton Creek Coal Pleasantview Sandstore	Pleasantview Sandstone
-						

- 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.

0.2 to 0.3 % 0.3 to 0.4 % 0.4 to 0.5 % 0.5 to 0.6 % Greater than 0.6 % - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.

Coal Chlorine

Less than 0.1 %

0.1 to 0.2 %

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

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