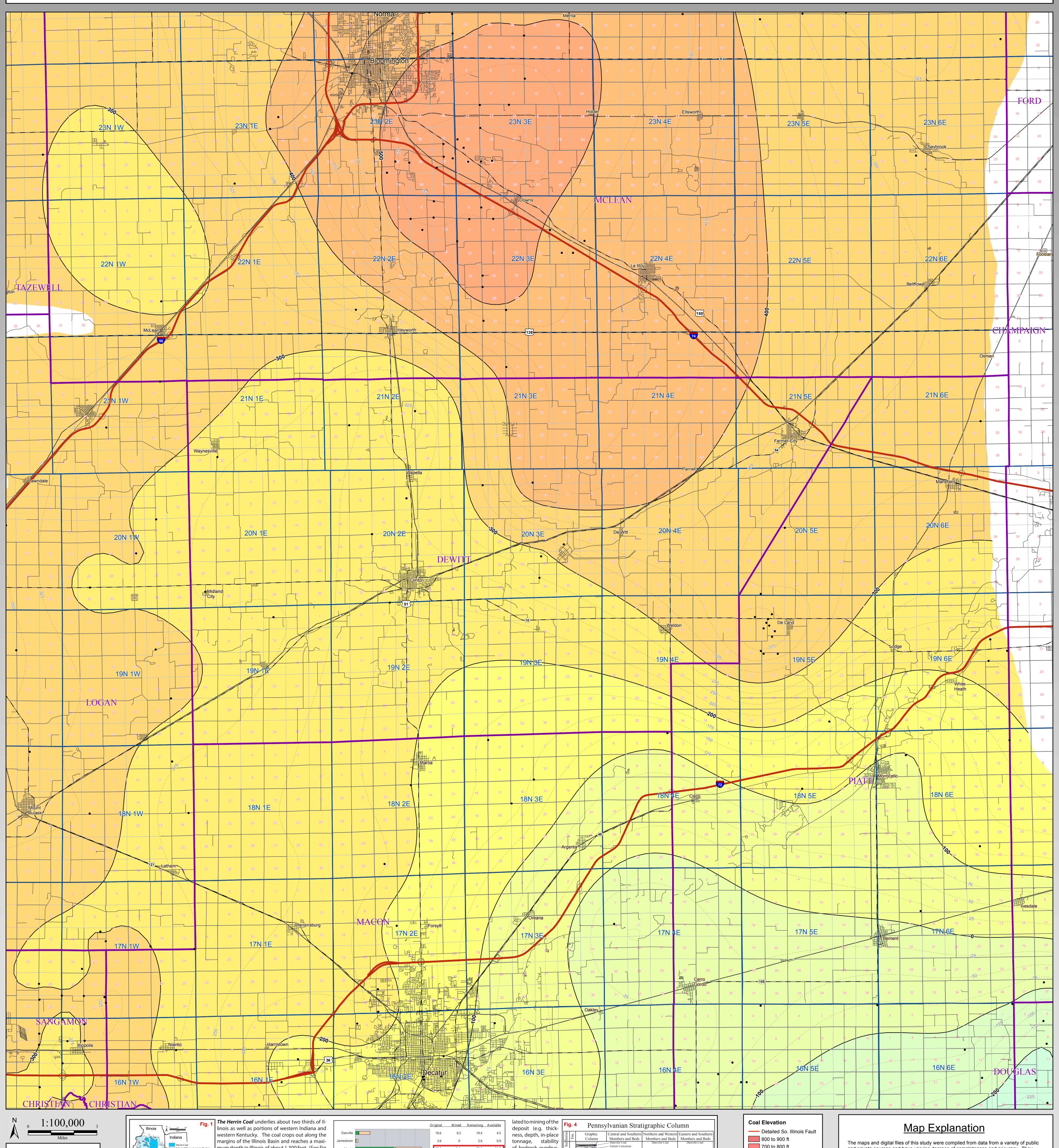
http://www.isgs.illinois.edu

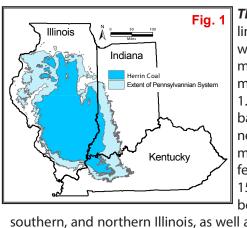
## Herrin Coal Elevation **DEWITT** County

County Coal Map Series ISGS Coal Section Map construction: May, 2015

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



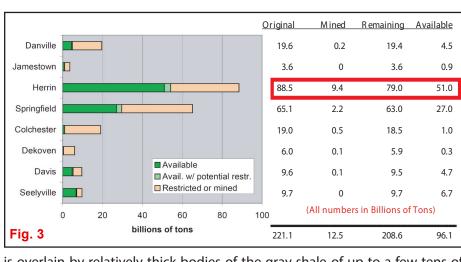


North-south cross section of the Pennsylvanian System in Illinois

mum 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

much as a mile wide and 60-

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 is overlain by relatively thick bodies of the gray shale of up to a few tens of great of Illinois, silty gray shale as feet it has a much lower sulfur content than elsewhere. The gray shale overmuch as 100 feet thick over- lies the coal principally in parts of Williamson, Franklin, Jefferson, Madison, ISGS lies the Herrin Coal. Associ- St. Clair, eastern Macoupin, and S. Vermilion. Generally, however the Herrin Trew 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: contemporaneous with the Herrin Coal resources, 51 billion tons, are considered available for mining. (See

ess, depth, in-place	II∵≍	18	Grapine	Central and Southern	Northern and Western	Lastern and Souther
	Seri	Fm	Column	Members and Beds	Members and Beds	Members and Beds
nnage, stability bedrock overbur- en) are comparable	Ser	Shelburn	××××××××××××××××××××××××××××××××××××××	Danville Coal Galum Limestone Allenby Coal Bankston Fork Limestone	Danville Coal	Danville Coal  Bankston Fork Limestone
other coals cur- ntly being mined	Desmoinesian			Anvil Rock Sandstone Conant Limestone Jamestown Coal	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstone  — Conant Limestone  — Jamestown Coal
the state. Of these				Brereton Limestone Anna Shale Energy Shale	Brereton Limestone Anna Shale	Brereton Limestone Anna Shale
sources, 21 billion ns occur in coal 2 to 66 inches thick nd 30 billion tons ccur in thicknesses eater than 66 inche. (Modified from GS Pub. IM 120, eworgy, et al)	Desmoinesian Series	Carbondale	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	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	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 Kerfon Creek Coal Pleasantview Sandstore	Herrin Coal  Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Springfield Coal  Excello Shale Houchin Creek Coal  Pleasantview Sandstone

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. In areas where the coal 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.

700 to 800 ft 600 to 700 ft 500 to 600 ft elevation 400 to 500 ft data point 300 to 400 ft 200 to 300 ft 100 to 200 ft 0 to 100 ft -100 to 0 ft -200 to -100 ft -300 to -200 ft -400 to -300 ft -500 to -400 ft -600 to -500 ft -700 to -600 ft

-800 to -700 ft

-900 to -800 ft

< -900 ft

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. Data included in this map are suitable for use at a scale of 1:100,000.

## **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.

© 2015 Board of Trustees of the University of Illinois. All rights reserved.