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Herrin Coal Chlorine CHAMPAIGN County

County Coal Map Series

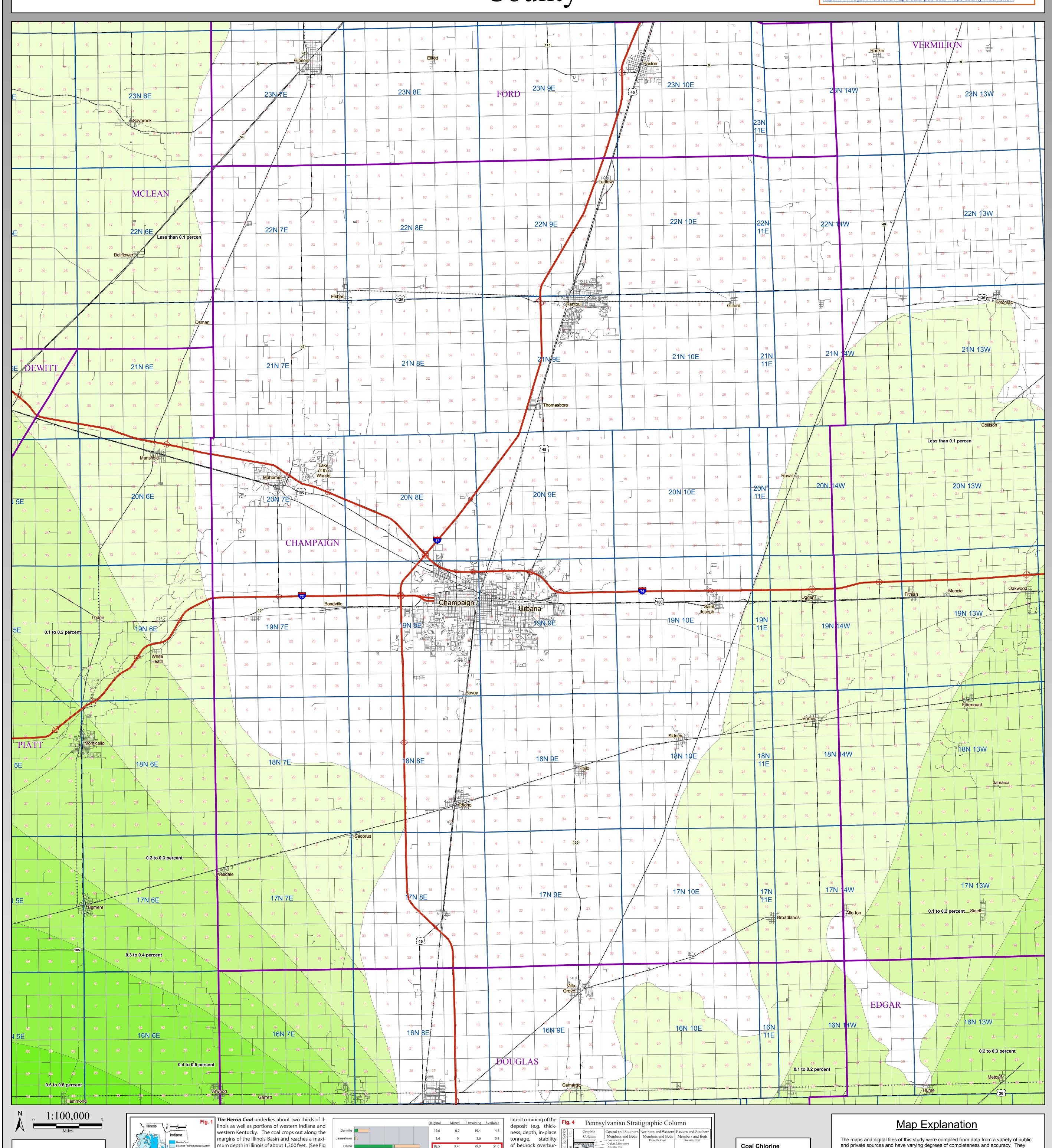
Andrew Louchios, Scott Elrick,

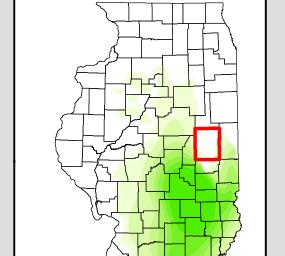
Chris Korose, David Morse

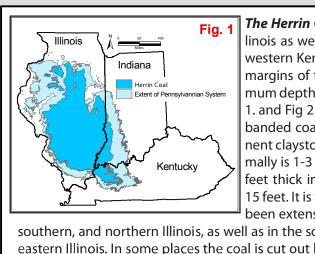
Map construction: October 29, 2009

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

The Herrin Coal underlies about two thirds of Illinois 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 1. and Fig 2.) The Herrin Coal is a normal bright-banded 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

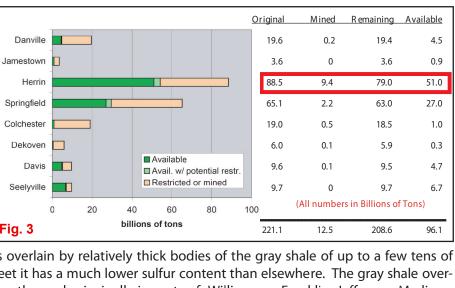


Fig. 3	billions of tons	221.1	12.5	208.6	96.1
feet it has a r lies the coal St. Clair, east Coal is overla	relatively thick bodies of to much lower sulfur content to principally in parts of Willia ern Macoupin, and S. Verm whin by either the Anna Shala estone Member. (Hopkins, 1	han elsewh amson, Fra nilion. Gene e Member	nere. The nklin, Jet erally, ho (black fis	gray shal ferson, M wever the sile shale	e over- adison Herrin

much as a mile wide and 6080 feet thick mapped as Anvil
Rock Sandstone and may be contemporaneous with the coal. In areas where the coal

Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.)

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 contemporaneous with the coal. In areas where the coal

Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.)

References:

- 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.

den) are comparable

to other coals cur-

rently being mined

in the state. Of these

resources, 21 billion

42 to 66 inches thick

and 30 billion tons

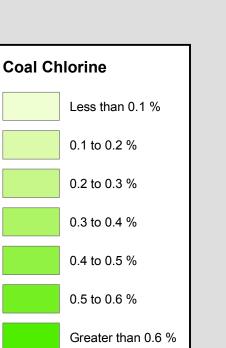
occur in thicknesses

es. (Modified from

ISGS Pub. IM 120,

Treworgy, et al)

greater than 66 inch-



Anvil Rock Sandston

Brereton Limesto Anna Shale

St. David Limestone Turner Mine Shale

Springfield Coal

Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstore 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.

<u>Disclaimer</u>

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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