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## Herrin Coal Depth CLAY County

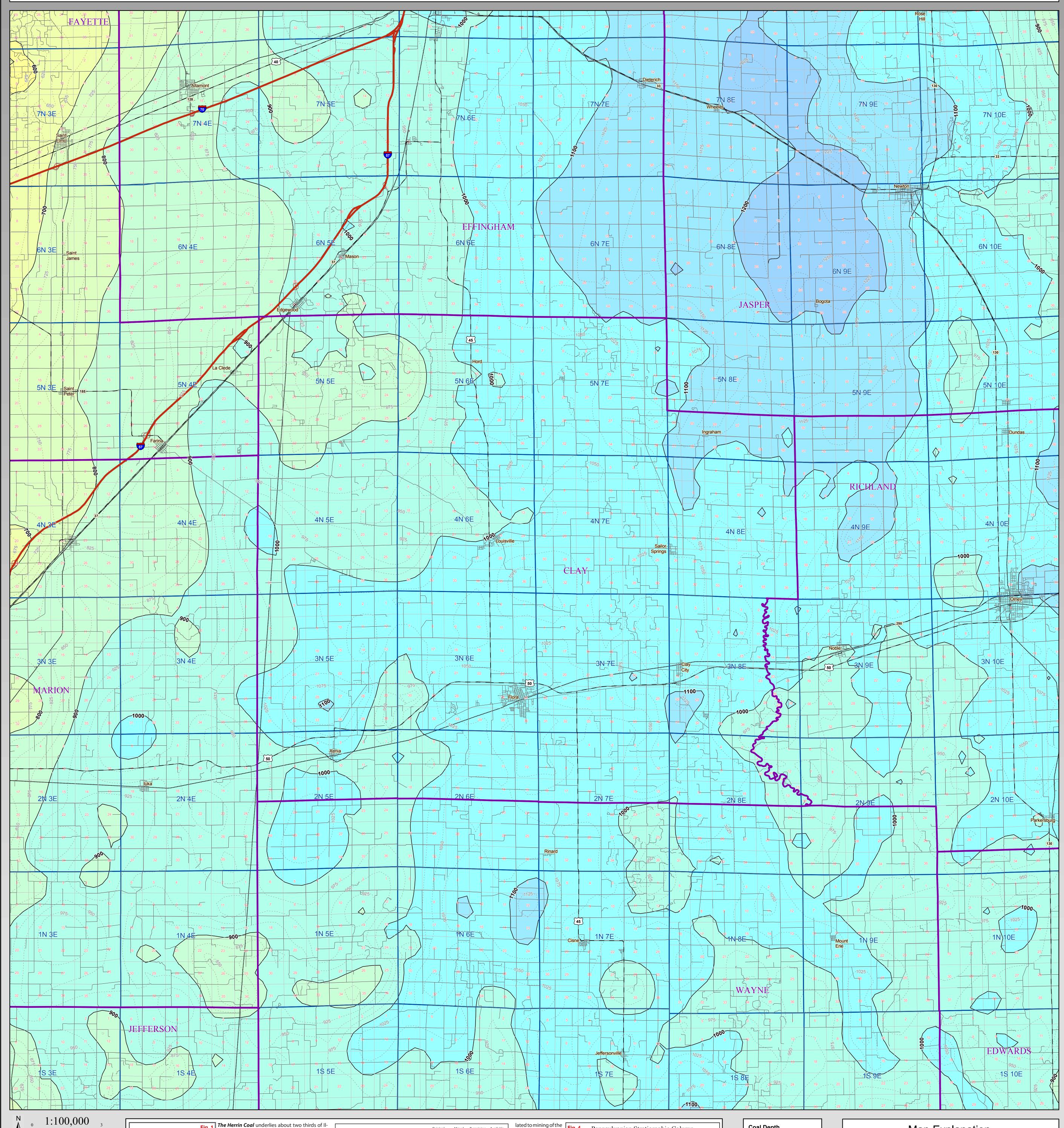
County Coal Map Series

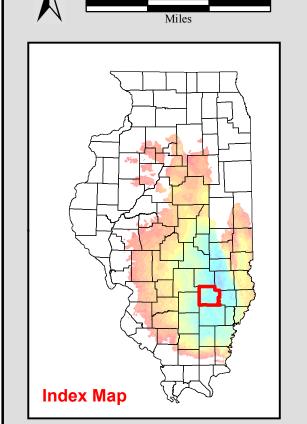
Andrew Louchios, Scott Elrick,
Chris Korose, David Morse

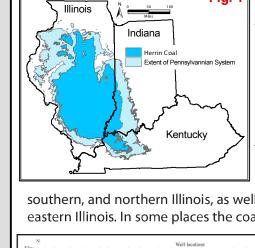
Map construction: October 26, 2009

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: <a href="http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml">http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml</a>







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,

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 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 Rock Sandstone and may be contemporaneous with the

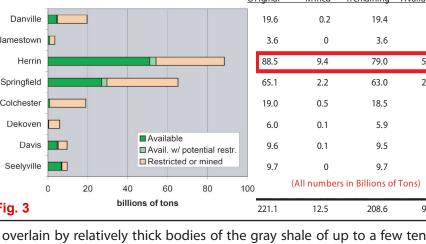
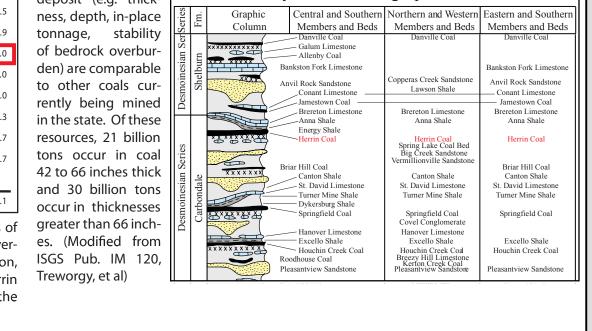


Fig. 3	billions of tons	221.1	12.5	208.6	96.1
feet it has a lies the coal St. Clair, eas Coal is over	by relatively thick bodies of the much lower sulfur content the I principally in parts of Willia Stern Macoupin, and S. Vermi lain by either the Anna Shale nestone Member. (Hopkins, 1	nan elsewl mson, Fra lion. Gene Member	nere. The inklin, Jef erally, ho (black fis	e gray shal fferson, M wever the ssile shale)	e 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
Herrin Coal resources, 51 billion tons, are considered available for mining. (See
Fig 3.) Available means that the surface land-use and geologic conditions re-



deposit (e.g. thick-

Pennsylvanian Stratigraphic Column

## 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.

Coal Depth

Detailed So. Illinois Faults
< 100 ft

100 to 200 ft

200 to 300 ft

300 to 400 ft

400 to 500 ft

500 to 600 ft

600 to 700 ft

700 to 800 ft

800 to 900 ft

900 to 1000 ft

1100 to 1200 ft

1200 to 1300 ft

1300 to 1400 ft

1400 to 1500 ft

1500 to 1600 ft

## 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.

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.

## <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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