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Herrin Coal Sulfur RICHLAND County

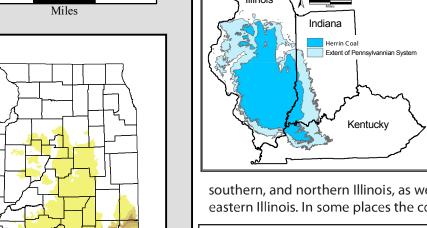
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

Map construction: October 29, 2009

This product is under review and may not meet the standards of the Illinois State Geological Survey.

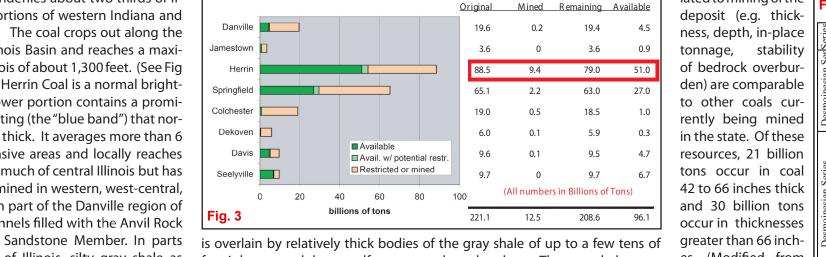
County coal maps and select quadrangle maps available as downloadable PDF files at: http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml

7N 12W 7N 13W 7N 8E 77N 7E 7N 14W 7N 9E 11E CRAWFORD _EFFINGHAM. 6N93W 6N 14W 6N 6N 7E -<u>6N 1</u>2W-11E 6N 9E Marie **JASPER** -Bogota-5N-12W 5N 13W 5N 8E₅ LAWRENCE Ingraham RICHLAND-4N 12W 4N 13W 4N 14W 4N 7E 11E 4N 8E Louisville Sailor Springs CLAY Olney 3N 14W 3N/13W 3N 10E 3N-7EL 50 11E City _{50} Calhoun Greater than 2.50 (lb S per MM Btu) 2N 12W 2<u>N 13W</u> 2N 14W 2N 7E 2N 2N 8E 2N 10E 2N 9E 11E Rinard EDWARDS 1N 13W WABASH 1N 14W 1N 7E 1N 10E 1N 8E 1N 9E WAYNE Bone Gap 1S 13W 1S 10E 1S 9E Mount Carmel **Map Explanation**



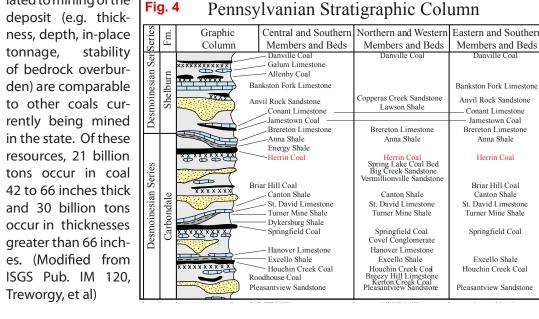
The Herrin Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig 1. and Fig 2.) The Herrin Coal is a normal brightbanded 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 much as a mile wide and 60-



of Illinois, silty gray shale as feet it has a much lower sulfur content than elsewhere. The gray shale over- es. (Modified from much as 100 feet thick over- lies the coal principally in parts of Williamson, Franklin, Jefferson, Madison, ISGS Pub. IM 120, lies the Herrin Coal. Associ- St. Clair, eastern Macoupin, and S. Vermilion. Generally, however the Herrin Treworgy, et al) 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: 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- Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 120, 54 p.



- 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

The maps and digital files of this study were compiled from data from a variety of public **Coal Sulfur** Less than or equal to 0.40 (lb S per MM Btu) 0.41 to 0.60 (lb S per MM Btu)

0.61 to 0.83 (lb S per MM Btu) 0.84 to 1.24 (lb S per MM Btu) 1.25 to 1.67 (lb S per MM Btu) 1.68 to 2.50 (lb S per MM Btu)

Greater than 2.50 (lb S per MM Btu)

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

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