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Herrin Coal Sulfur **JERSEY** County

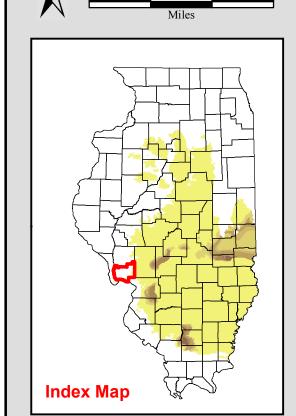
County Coal Map Series

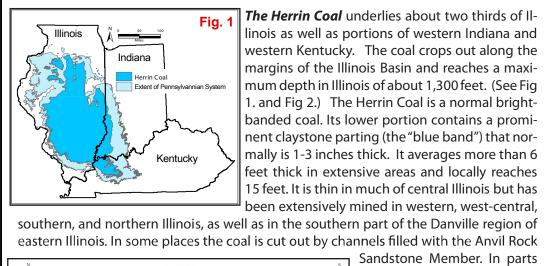
Andrew Louchios, Scott Elrick, Chris Korose, David Morse Map construction: October 29, 2009

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

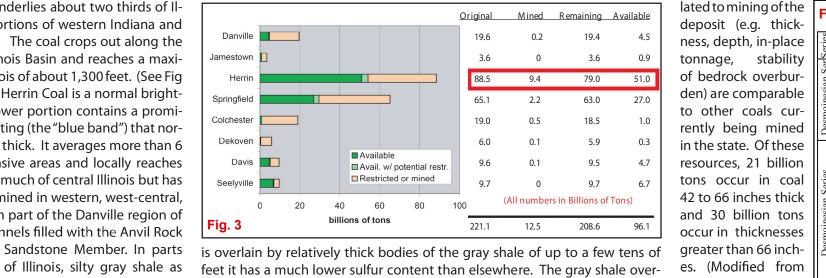
11N\_13W 11N 12W 11N 9W 11N 10W 11N\_8W 14W 8\$ 2W 10N 11W 10N 10W 10N 9W \_10N 8W 2010N 13W -GREENE Eldred MACOUPIN 9S 2W 9N 12W 9N 10W 9N 13W 9N 8W 10S/3W Fidelity Greater than 2.50 (lb S per MM Btu \14₃W 8N 13W \8N [11\W] 8N 8W Lakes 11S 2W CALHOUN **JERSEY** 7N-12W 7N 10W 7N 8W 7N 9W 12S 2W 6N 13W 6N 12W 12**Ş** 1W 6N 10W \_6N9W 6N 8W-13\$ 2W Eagle Alton 5N 8W The Herrin Coal underlies about two thirds of Il-**Map Explanation** Pennsylvanian Stratigraphic Column Original Mined Remaining Available deposit (e.g. thicklinois as well as portions of western Indiana and Central and Southern Northern and Western Eastern and Southern ness, depth, in-place





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

much as a mile wide and 60contemporaneous with the Herrin Coal resources, 51 billion tons, are considered available for mining. (See



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

## rently being mined in the state. Of these resources, 21 billion tons occur in coal 42 to 66 inches thick and 30 billion tons occur in thicknesses

tonnage, stability

of bedrock overbur-

den) are comparable

to other coals cur-

- 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.

Galum Limestor
Allenby Coal

nvil Rock Sandstone

Conant Limestone

Anna Shale

Excello Shale Houchin Creek Coal

Lawson Shale

Anna Shale

## 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)



Greater than 2.50 (lb S per MM Btu)

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. 1.68 to 2.50 (lb S per MM Btu)

## Disclaimer

The maps and digital files of this study were compiled from data from a variety of public

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

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.

in these files is subject to the limitations of the data and varies from place to place.

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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