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Springfield Coal Sulfur CHAMPAIGN County

County Coal Map Series Andrew Louchios, Scott Elrick,

Map construction: October 29, 2009

Chris Korose, David Morse

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

23N 10E 23N 9E 23N 8E 23N 13W 23N 6E MCLEAN 22N 13W 22N 10E 22N 9E _22N_1<mark>4</mark>W 22N 8E 22N 7E 21N 13W 21N 14W 21N 10E 21N 8E 21N 7E 21N 6E _20N_14W 20N 13W 20N 9E 11E 20N 8E CHAMPAIGN Oakwood Urbana 19N 13W 19N 10E 19N 7E 718N 13W 18N 14W 18N 18N 9E VERMILION Greater than 2.50 (lb S per MM Btu) 17N 13W 17N 14W 17N 10E 17N 9E 17N 7E 17N 6E 16N 13W 16N 1 16N 10E 16N 8E 16N 7E 16N 6E 11E Hume the Illinois River. The Pennsylvanian Stratigraphic Column

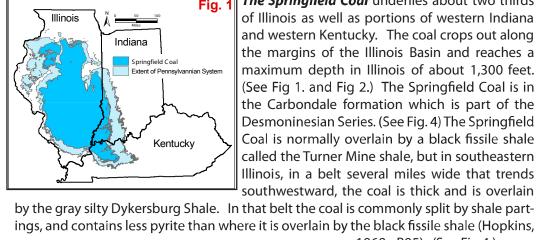


Fig. 1 The Springfield Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig 1. and Fig 2.) The Springfield Coal is in the Carbondale formation which is part of the Desmoninesian Series. (See Fig. 4) The Springfield Coal is normally overlain by a black fissile shale called the Turner Mine shale, but in southeastern Illinois, in a belt several miles wide that trends southwestward, the coal is thick and is overlain by the gray silty Dykersburg Shale. In that belt the coal is commonly split by shale part-

> 968 - B95). (See Fig 4.) **T**he original resource of Springfield Coal in the State of Illinois totals 65.1 billion tons, of which 2.2 billion have 41% of the original Springfield thickest resources of Springfield Coal in Illinois are found in the central part of

Original Mined Remaining Available 79.0 Avail. w/ potential restr. 12.5 208.6 means that the surface land-use and geologic conditions related to mining of

the deposit (e.g. thickness, depth, in-place tonnage, stability of bedrock overburden) are comparable to other coals currently being mined in the state. Of these resources, 23 billion tons occur in coal 42 to 66 inches thick and 4 billion tons occur in thicknesses greater than 66 inches thick. been mined. Approximately **T**he Springfield Coal has been mined in Illinois for well over 100 years. The

Central and Southern Northern and Western Eastern and Southern in the southwestern Members and Beds | Members and Beds | Members and Beds and extreme northern portions of the coal field. (Modified from ISGS Pub. IM Canton Shale St. David Limestone Turner Mine Shale 118, Treworgy, et al) St. David Limestone Turner Mine Shale Dykersburg Shale Excello Shale
Houchin Creek Coal

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)

coal is thin or absent

- Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p. the state around the city of Springfield and in the southeastern part of the state - Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Springfield along the Galatia Channel. Recent and historical mining of the coal has been concentrated in these areas and in shallow surface minable deposits west of Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 118, 43 p.

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. 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

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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