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## Springfield Coal Depth CASS

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:

County http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml 4Ň 4Ė 4N 1W 4N 2E 4N-3E <u>{24}</u> MCDONOUGH 21N 8W 21N 7W 21N 9W 3N 3E 3N 2W FULTON 20N 9W 20N 8W 20N 7W MASON 20N 10W SCHUYLER 19N 10W MENARD 18N 11W 18N 10W 1S 2W BROWN 17N 12W <del>-17</del>N-1</del>1W 2<sup>s</sup> 1W 17N 7W 2S 2W SANGAMON 16N 12W 16N 11W 16N 10W 16N 9W 16N 8W 16N 7W 15N 7W MORGAN SCOT 14N 14W 14N 13W 14N 7W 14N 8W 14N 10W **The Springfield Coal** underlies about two thirds the Illinois River. The Coal Depth **Map Explanation** Pennsylvanian Stratigraphic Column Original Mined Remaining Available of Illinois as well as portions of western Indiana coal is thin or absent Central and Southern Northern and Western Eastern and Southern Members and Beds Members and Beds Members and Beds and western Kentucky. The coal crops out along in the southwestern Detailed So. Illinois Faults Indiana the margins of the Illinois Basin and reaches a and extreme north-The maps and digital files of this study were compiled from data from a variety of public < 100 ft and private sources and have varying degrees of completeness and accuracy. They maximum depth in Illinois of about 1,300 feet. ern portions of the 100 to 200 ft (See Fig 1. and Fig 2.) The Springfield Coal is in present interpretations of the geology of the area and are based on available data. coal field. (Modified However, these interpretations are based on data that may vary with respect to accuracy the Carbondale formation which is part of the from ISGS Pub. IM 200 to 300 ft Canton Shale St. David Limestone Turner Mine Shale of geographic location, type, quantity, and reliability, as they were supplied to the Illinois Desmoninesian Series. (See Fig. 4) The Springfield 118, Treworgy, et al) St. David Limestone Turner Mine Shale 300 to 400 ft State Geological Survey. Consequently, the accuracy of the interpreted features shown Coal is normally overlain by a black fissile shale in these files is subject to the limitations of the data and varies from place to place. 400 to 500 ft called the Turner Mine shale, but in southeastern Avail. w/ potential restr Illinois, in a belt several miles wide that trends 500 to 600 ft Contoured features less than 7 million square feet (about 1/2 mile square) in area Excello Shale Excello Shale Houchin Creek Coa southwestward, the coal is thick and is overlain may not be accurately portrayed or resolved. This data set provides a large-scale 600 to 700 ft by the gray silty Dykersburg Shale. In that belt the coal is commonly split by shale partconceptual model of the geology of the area on which to base further work. 12.5 700 to 800 ft Lowell Coal These data are not intended for use in site-specific screening or decision-making. ings, and contains less pyrite than where it is overlain by the black fissile shale (Hopkins,

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 over-

Coal resources, 27 billion tons, the state around the city of Springfield and in the southeastern part of the state - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.

mining (See Fig 3.). Available 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.

- Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Springfield

The original resource of burden) are comparable to other coals currently being mined in the state. Of

Springfield Coal in the State these resources, 23 billion tons occur in coal 42 to 66 inches thick and 4 billion

been mined. Approximately  $\mathbf{T}$ he Springfield Coal has been mined in Illinois for well over 100 years. The

are considered available for along the Galatia Channel. Recent and historical mining of the coal has been

41% of the original Springfield thickest resources of Springfield Coal in Illinois are found in the central part of **References**:

of Illinois totals 65.1 billion tons occur in thicknesses greater than 66 inches thick.

tons, of which 2.2 billion have

orth-south cross section of the Pennsylvanian System in Illinois

800 to 900 ft

900 to 1000 ft

1000 to 1100 ft

1100 to 1200 ft

1200 to 1300 ft

1300 to 1400 ft

1400 to 1500 ft

1500 to 1600 ft

**Disclaimer** 

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basis of the information presented here.