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Springfield Coal Sulfur WOODFORD County

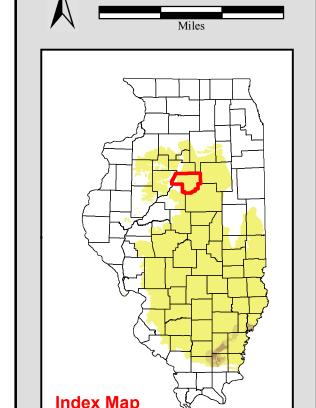
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

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

13N 8E 13N 9E MARSHALL 30N 3E 30N 1W 30N-2W Greater than 2.50 (lb S per MM Btu) LASALLE 12N 9E 12N 8E Rutland 29N 3E 29N 1E 29N 2E 29N 2W LIVINGSTON Greater than 2.50 (lb S per MM Btu). Minonk PEORIA 28N 1E 28N 1W 28N 3W Flanagan Benson Garden 27N 2E 27N 2W 27N 3W 27N 4W Panola Peoria 24 26N 3E 26N 26N 1E 26N 1W 26N 2W Peoria WOODFORD Kappa 25N 2W 25N 4W_ Greater than 2.50 (lb S per MM Btu) TAZEWELI 24N 3E 24N 1E 24N-3W 24N 1W 24N 2W 24N 4W 23N 3E 23N 1E 23N 1W 23N 3W 23N 5W



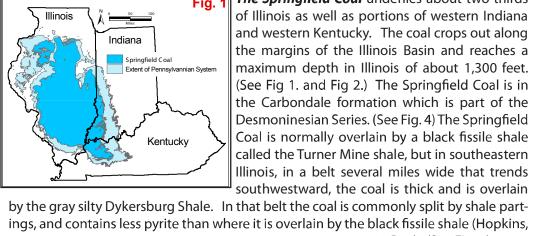
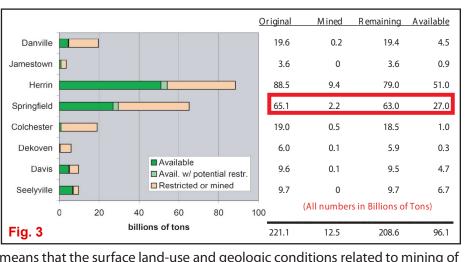


Fig. 1 The Springfield Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig 1. and Fig 2.) The Springfield Coal is in the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

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 been mined. Approximately **T**he Springfield Coal has been mined in Illinois for well over 100 years. The 41% of the original Springfield thickest resources of Springfield Coal in Illinois are found in the central part of Coal resources, 27 billion tons,



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.

the state around the city of Springfield and in the southeastern part of the state

along the Galatia Channel. Recent and historical mining of the coal has been

the Illinois River. The

coal is thin or absent

in the southwestern

and extreme north-

ern portions of the coal field. (Modified from ISGS Pub. IM 118, Treworgy, et al) St. David Limestone Turner Mine Shale Dykersburg Shale Excello Shale
Houchin Creek Coal
oodhouse Coal Excello Shale
Houchin Creek Coal
Breezy Hill Limestone
Kerfon Creek Coal
Pleasantview Sandstone

Pennsylvanian Stratigraphic Column

Central and Southern Northern and Western Eastern and Southern

Members and Beds Members and Beds Members and Beds

- 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 Springfield 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.

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. **Coal Sulfur** Less than or equal to 0.40 (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)

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. 0.41 to 0.60 (lb S per MM Btu) 0.61 to 0.83 (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.

Map Explanation

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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