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Herrin Coal Thickness MCLEAN County

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

Map construction: October 28, 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

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

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

conceptual model of the geology of the area on which to base further work.

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basis of the information presented here.

WOODFORD 27N 6E 27N 5E 27N 4E 27N 3E 27N 2E 27N 1E Panola 26N 6E 26N 5E 26N 4E 26N 3E 26N 2E 26N 1E 26N 1W LIVINGSTON 25N 6E 25N 5E 25N 3E 25N 2E Anchor 24N 4E 24N 3E 24N 6E 24N 5E 24N 1E 24N 1W^ FORD MCLEAN-23N 3E 23N 4E 23N 6E 22N 3E 22N 4E 22N-2E 22N 5E 22N 1W 21N 6E 21N 4E 21N 3E 21N 5E 21N 2E 21N 1E Waynesville DEWIT 20N 1E 20N 1W **The Herrin Coal** underlies about two thirds of Illated to mining of the **Coal Thickness Map Explanation** Pennsylvanian Stratigraphic Column Original Mined Remaining Available linois as well as portions of western Indiana and deposit (e.g. thick-Central and Southern Northern and Western Eastern and Southern Members and Beds Members and Beds Members and Beds western Kentucky. The coal crops out along the ness, depth, in-place margins of the Illinois Basin and reaches a maxi-Surface Mine tonnage, stability 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 Galum Limestor
Allenby Coal mum depth in Illinois of about 1,300 feet. (See Fig of bedrock overburpresent interpretations of the geology of the area and are based on available data. I. and Fig 2.) The Herrin Coal is a normal brightden) are comparable **Underground Mine** However, these interpretations are based on data that may vary with respect to accuracy banded coal. Its lower portion contains a promi-Anvil Rock Sandston to other coals cur-Lawson Shale Conant Limeston of geographic location, type, quantity, and reliability, as they were supplied to the Illinois nent claystone parting (the "blue band") that norrently being mined State Geological Survey. Consequently, the accuracy of the interpreted features shown mally is 1-3 inches thick. It averages more than 6 Insufficient data in the state. Of these

resources, 21 billion

tons occur in coal

42 to 66 inches thick

and 30 billion tons

occur in thicknesses

Avail. w/ potential restr

Sandstone Member. In parts is overlain by relatively thick bodies of the gray shale of up to a few tens of greater than 66 inchof 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)

80 feet thick mapped as Anvil The original resource of Herrin Coal in the State of Illinois totals 88.5 billion References:

ated with this shale is a chan- Coal is overlain by either the Anna Shale Member (black fissile shale) or the

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-

nel sandstone commonly as Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.)

12.5

Rock Sandstone and may be tons, of which 9.4 billion have been mined. Approximately 58% of the original - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.

60

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,

much as a mile wide and 60-

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

Anna Shale

Briar Hill Coal Canton Shale

Excello Shale Houchin Creek Coal

<28 inches

28 to 42 inches

42 to 66 inches

>66 inches

Channel

Split Coal

Anna Shale

Canton Shale

Excello Shale
Houchin Creek Coal
Breezy Hill Limestone
Kerton Creek Coal
Pleasantview Sandstore

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

Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 120, 54 p.