## ILLINOIS AT URBANA-CHAMPAIGN Institute of Natural Resource Sustainability William W. Shilts, Executive Director ILLINOIS STATE GEOLOGICAL SURVEY E. Donald McKay III, Interim Director For more information contact: Institute of Natural Resource Sustainablity Illinois State Geological Survey 615 East Peabody Drive Champaign, Illinois 61820-6964 (217) 333-4747 http://www.isgs.illinois.edu

## Herrin Coal Depth CASS County

County Coal Map Series

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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:

http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml 4Ň 4Ė 4N 2W Industry 4N 1W 4N 2E 4N-3E <u>{24}</u> MCDONOUGH 21N 8W 21N 7W 21N 9W 3N 3E 3N 2W 3N 2E FULTON 20N 9W 20N 8W 20N 7W MASON 20N 10W SCHUYLER 19N 10W MENARD 18N 11W 18N 10W 18N 8W 18N 7W 1S 2W BROWN 17N 12W <del>-17</del>N-1</del>1W 2<sup>s</sup> 1W 2S 2W SANGAMON 16N 12W 16N 11W 16N 10W 16N 9W 16N 7W PIKE 3S 2W 15N 11W 15N 7W **MORGAN** SCOT 67 14N 14W 14N 13W 14N 8W 14N 7W 14N 10W The Herrin Coal underlies about two thirds of Illated to mining of the Coal Depth **Map Explanation** Pennsylvanian Stratigraphic Column 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 Detailed So. Illinois Faults western Kentucky. The coal crops out along the ness, depth, in-place

tonnage, stability

of bedrock overbur-

den) are comparable

rently being mined

in the state. Of these

resources, 21 billion

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 inch-

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)

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.

to other coals cur-

margins of the Illinois Basin and reaches a maxi-

mum depth in Illinois of about 1,300 feet. (See Fig

1. and Fig 2.) The Herrin Coal is a normal bright-

banded coal. Its lower portion contains a promi-

nent claystone parting (the "blue band") that nor-

mally 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,

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

<u>Disclaimer</u>

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.

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.

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

< 100 ft

nvil Rock Sandstor

ereton Limeston Anna Shale

Excello Shale

Lawson Shale

- 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.

100 to 200 ft

200 to 300 ft

300 to 400 ft

400 to 500 ft

500 to 600 ft

600 to 700 ft

700 to 800 ft

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

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

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