ILLINOIS STATE GEOLOGICAL SURVEY E. Donald McKay III, Interim Director For more information contact: Institute of Natural Resource Sustainability

Illinois State Geological Survey 615 East Peabody Drive Champaign, Illinois 61820-6964

http://www.isgs.illinois.edu

(217) 333-4747

Herrin Coal Thickness
GRUNDY
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

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.

© 2009 Board of Trustees of the University of Illinois. All rights reserved.

basis of the information presented here.

<28 inches

28 to 42 inches

42 to 66 inches

>66 inches

Channel

Split Coal

Briar Hill Coal Canton Shale

Excello Shale Houchin Creek Coal

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.

Leland 36N 10E 36N 6E KENDALL 35N 7E 15 ⁻35N 6E∠ 35N 4E 35N 5E Channahon 34N 10E 34N 7E 34N 6E 34N 4E 234N 5E2 33N 10E 33N 6E 33N 4E GRUNDY Carbon Diamond 32N 9E 32N 10E LASALLÉ 32N 8E 32N 6E _32N 5E 32N 4E East Wilmington 31N 10E 31N 9E 31N 6E Union KANKAKEE 30N 10E 30N 6E LIVINGSTON 30N 5E Buckingham 29N 5E 29N 4E **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 western Kentucky. The coal crops out along the ness, depth, in-place Members and Beds | Members and Beds | Members and Beds Surface Mine margins of the Illinois Basin and reaches a maxitonnage, 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 Anna Shale Anna Shale in these files is subject to the limitations of the data and varies from place to place.

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.

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