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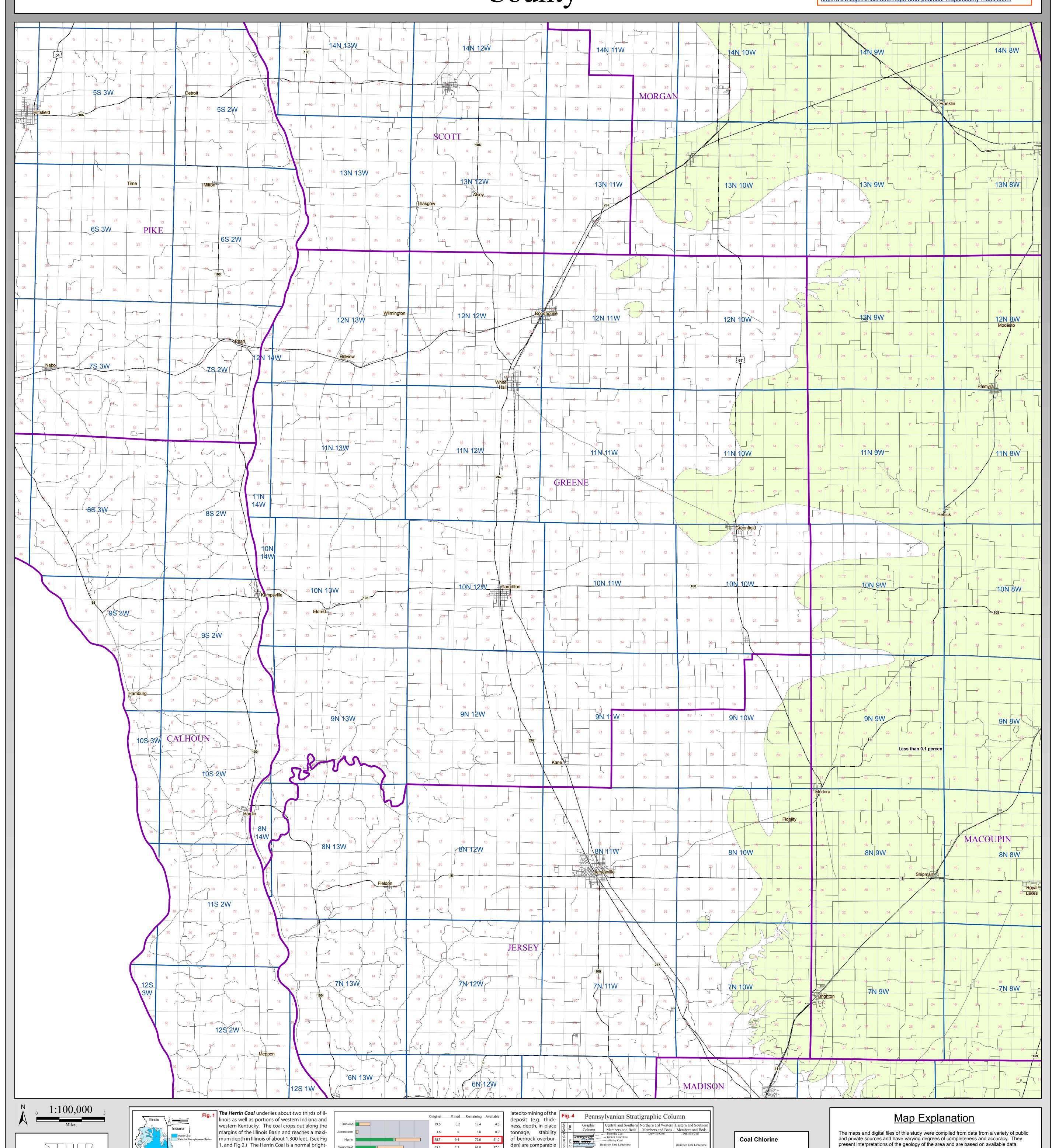
## Herrin Coal Chlorine GREENE County

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: <a href="http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml">http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml</a>



to other coals cur-

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

Rock Sandstone and may be tons, of which 9.4 billion have been mined. Approximately 58% of the original

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.)

■ Restricted or mined

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

orth-south cross section of the Pennsylvanian System in Illinois

<u>Disclaimer</u>

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.

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.

Anvil Rock Sandston

Brereton Limesto Anna Shale

St. David Limestone Turner Mine Shale

Hanover Limestone Excello Shale

- Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.

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

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

Less than 0.1 %

0.1 to 0.2 %

0.2 to 0.3 %

0.3 to 0.4 %

0.4 to 0.5 %

0.5 to 0.6 %

Greater than 0.6 %

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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