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## Herrin Coal Chlorine WABASH County

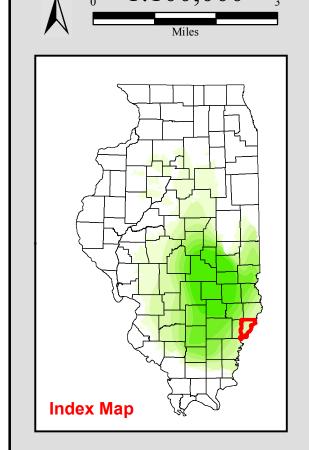
County Coal Map Series Andrew Louchios, Scott Elrick,

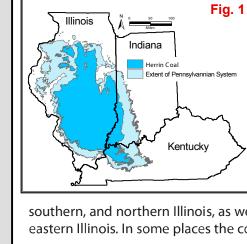
Chris Korose, David Morse Map construction: October 29, 2009

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

Greater than 0.6 3N 11W 3N-12W 3N 13W 3N 14W LAWRENCE 0.5 to 0.6 percent Calhoun 0.2 to 0.3 percent RICHLAND 2N 11W 2N 12W 2N 14W 2N 13W 2N 10E Francisville 0.4 to 0.5 percent WAYNE 1N-11W 1N 12W 1N/13W 1N 14W 1N 10E 11E 0.3 to 0.4 percent WABASH 0.1 to 0.2 percent 1S 13W 1\$ 14W 🥳 1S 10E/ 11E ∖Golden 10---2S 10E 2S 9E 2S 14W EDWARDS 4S 9E WHITE 5S 10E 5S 14W





orth-south cross section of the Pennsylvanian System in Illinois

The Herrin 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 . and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone parting (the "blue band") that normally 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,

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 Sandstone Member. In parts of Illinois, silty gray shale as much as 100 feet thick overlies the Herrin Coal. Associated with this shale is a channel sandstone commonly as much as a mile wide and 60-

		Original	Mined	R emaining	Available
Danville		19.6	0.2	19.4	4.5
Jamestown		3.6	0	3.6	0.9
Herrin		88.5	9.4	79.0	51.0
Springfield		65.1	2.2	63.0	27.0
Colchester		19.0	0.5	18.5	1.0
Dekoven		6.0	0.1	5.9	0.3
Davis	■ Available ■ Avail. w/ potential restr.	9.6	0.1	9.5	4.7
Seelyville	□ Restricted or mined	9.7	0	9.7	6.7
	20 40 60 80 1	00	(All number	rs in Billions of	Tons)
Fig. 3	billions of tons	221.1	12.5	208.6	96.1
	n by relatively thick bodies of the a much lower sulfur content tha			•	

1-3-3
is overlain by relatively thick bodies of the gray shale of up to a few tens of
feet it has a much lower sulfur content than elsewhere. The gray shale over-
lies the coal principally in parts of Williamson, Franklin, Jefferson, Madison,
St. Clair, eastern Macoupin, and S. Vermilion. Generally, however the Herrin
Coal is overlain by either the Anna Shale Member (black fissile shale) or the
Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.)

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-

of Illinois, silty gray shale as much as 100 feet thick overlies the Herrin Coal. Associated with this shale is a channel sandstone commonly as	is overlain by relatively thick bodies of the gray shale of up to a few tens of feet it has a much lower sulfur content than elsewhere. The gray shale overlies the coal principally in parts of Williamson, Franklin, Jefferson, Madison, St. Clair, eastern Macoupin, and S. Vermilion. Generally, however the Herrin Coal is overlain by either the Anna Shale Member (black fissile shale) or the Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.)	es. (Modified from ISGS Pub. IM 120, Treworgy, et al)  Hanover Limestone Excello Shale Houchin Creek Coal Roodhouse Coal Pleasantview Sandstone
much as a mile wide and 60- 80 feet thick mapped as Anvil Rock Sandstone and may be	<b>T</b> he original resource of Herrin Coal in the State of Illinois totals 88.5 billion tons, of which 9.4 billion have been mined. Approximately 58% of the original	References: - Handbook of Illinois Stratigraphy, 1975, Illinois State Geolog

lated to mining of the Fig. 4

deposit (e.g. thick-

ness, depth, in-place

tonnage, stability

of bedrock overbur-

den) are comparable

to other coals cur-

rently being mined

in the state. Of these

resources, 21 billion

tons occur in coal

42 to 66 inches thick

and 30 billion tons

occur in thicknesses

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

Pennsylvanian Stratigraphic Column

Central and Southern Morthern and Western Eastern and Southern Members and Beds Members and Beds Danville Coal Danville Coal Danville Coal

Brereton Limestone Anna Shale

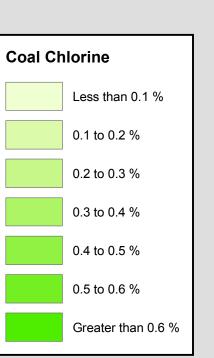
St. David Limestone Turner Mine Shale

Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstore

Anvil Rock Sandston

Brereton Limesto Anna Shale

St. David Limestone Turner Mine Shale



## **Map Explanation**

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. 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.

## **Disclaimer**

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