I L L I N O I S 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

http://www.isgs.illinois.edu

(217) 333-4747

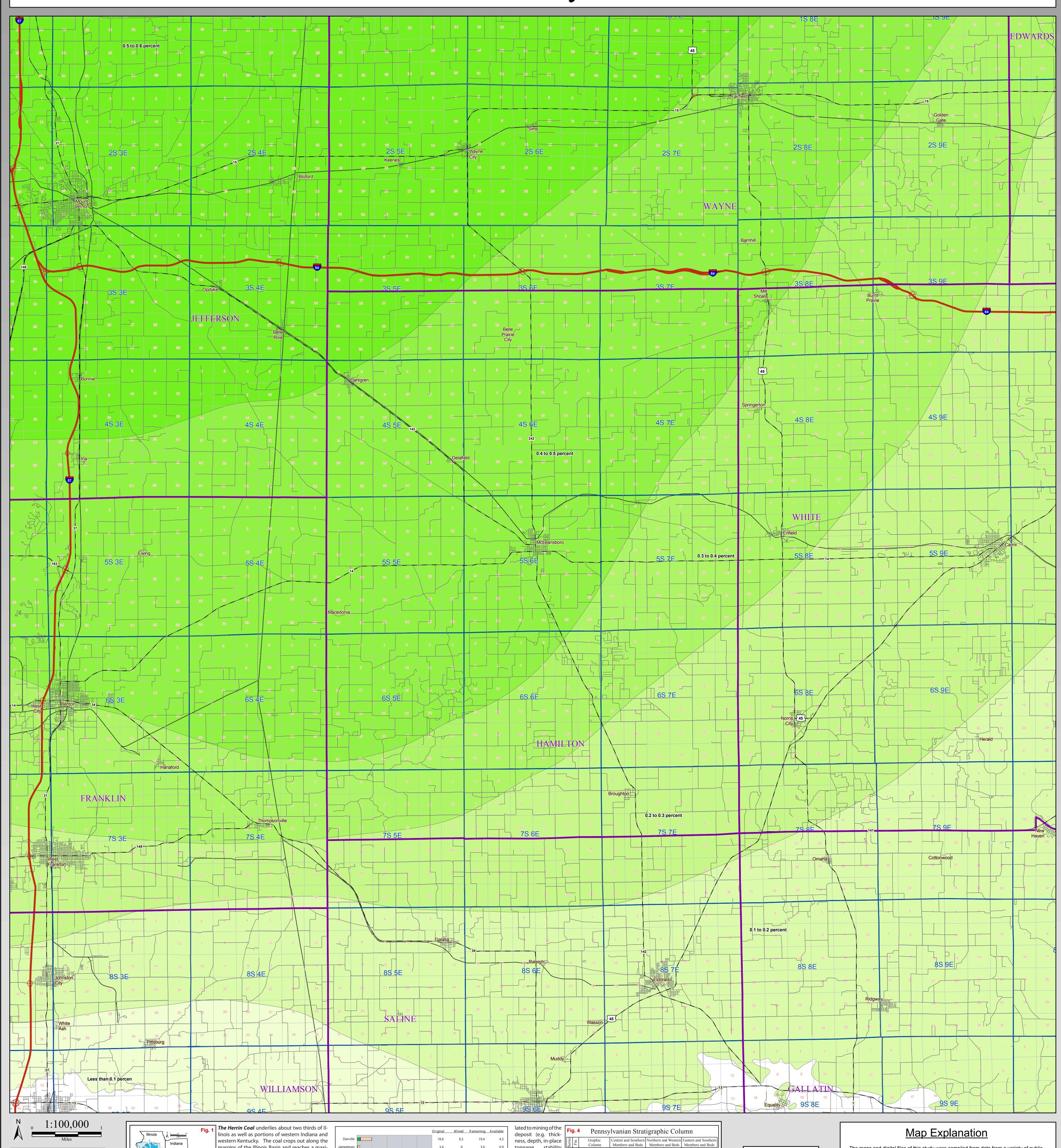
## Herrin Coal Chlorine HAMILTON County

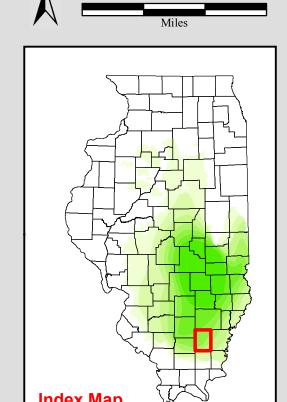
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

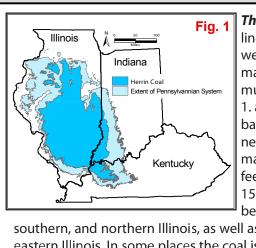
Map construction: October 29, 2009

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

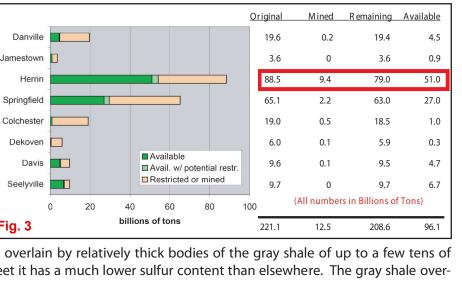






western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig . and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone parting (the "blue band") that normally is 1-3 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 60-80 feet thick mapped as Anvil 
The original resource of Herrin Coal in the State of Illinois totals 88.5 billion 
References: 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 orth-south cross section of the Pennsylvanian System in Illinois



	0	20	40	60	80	100	(All numbers	(All numbers in Billions of Tons)		
Fig. 3			billions	of tons		221	.1 12.5	208.6	96.1	
			•			_	y shale of up			
							sewhere. The , Franklin, Je	J ,		
			•				Generally, ho			
Coal is o	overla	ain by e	either t	he Anr	na Sha	ile Mem	ber (black fi	ssile shale	) or the	
Breretor	ո Lim	estone	Memb	er. (Ho	pkins,	1968 - E	395, See Fig 4	1.)		

coal. In areas where the coal Fig 3.) Available means that the surface land-use and geologic conditions re-

of bedrock overburden) are comparable Anvil Rock Sandston to other coals currently being mined Brereton Limesto Anna Shale in the state. Of these resources, 21 billion Briar Hill Coal Canton Shale 42 to 66 inches thick St. David Limestone Turner Mine Shale and 30 billion tons St. David Limestone Turner Mine Shale occur in thicknesses Springfield Coal greater than 66 inch-Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstore es. (Modified from ISGS Pub. IM 120, Treworgy, et al) - 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.

tonnage, stability

## **Coal Chlorine** 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 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

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.

in these files is subject to the limitations of the data and varies from place to place.

## **Disclaimer**

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