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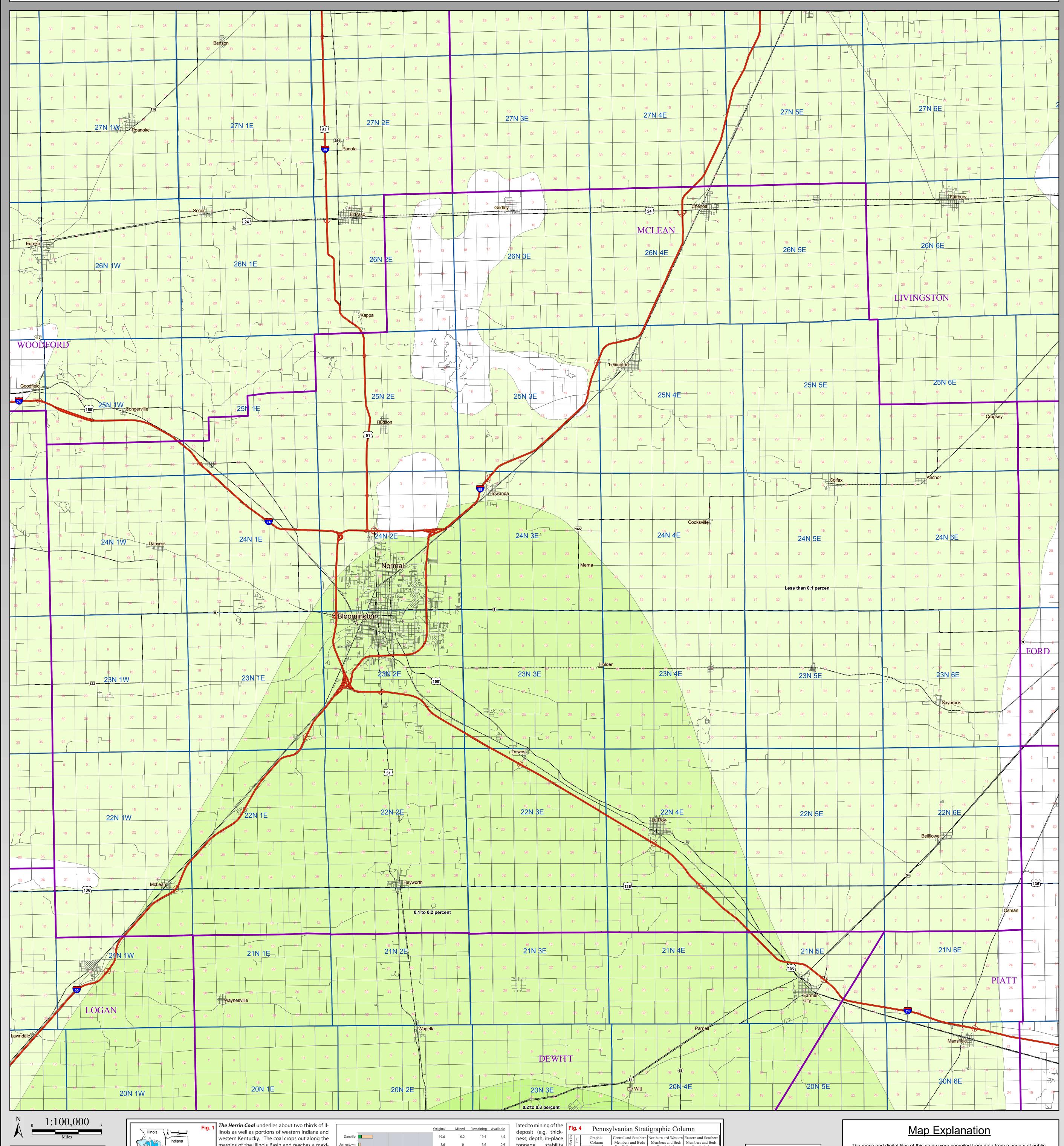
## Herrin Coal Chlorine MCLEAN County

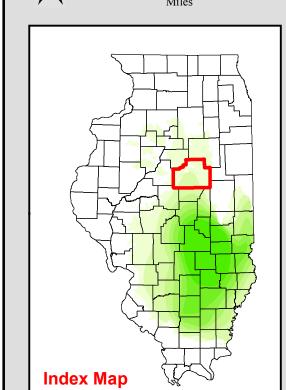
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

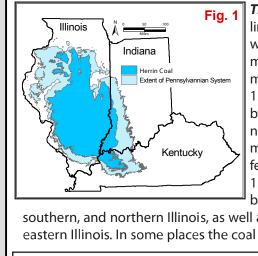
Map construction: October 29, 2009

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







orth-south cross section of the Pennsylvanian System in Illinois

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 Rock Sandstone and may be

					<u>Original</u>	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/ pe	otential restr.	9.6	0.1	9.5	4.7
Seelyville			Restricted	or mined	9.7	0	9.7	6.7
	0 2	20 4	0 60	80 1	00	(All numbe	rs in Billions of	f Tons)
Fig. 3	billions of tons			221.1	12.5	208.6	96.1	
s overlain by relatively thick bodies of the gray shale of up to a few tens of eet it has a much lower sulfur content than elsewhere. The gray shale over-								
reet it ha	s a mud	ch lowe	r sultur co	ntent tha	n elsev	vnere. If	ne gray sh	iale ove

	0	20	40	60	80	100	(	(All numbers in Billions of Tons)			
Fig. 3	. 3 billions of tons			ļ	221.1	12.5	208.6	96.1			
feet it ha lies the St. Clair,	as a r coal east overla	much l princip ern Ma ain by	ower subally in acouping either t	ulfur co parts on, and the An	ontent of Will S. Verr na Sha	than liamso nilion le Me	elsewh on, Fra n. Gene ember	nere. The inklin, Jet erally, ho (black fis	to a few gray sha fferson, M wever the ssile shale	le over adison Herrir	

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.)	IS
The 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	<u>R</u>

coal. In areas where the coal Fig 3.) Available means that the surface land-use and geologic conditions re- Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 120, 54 p.

contemporaneous with the Herrin Coal resources, 51 billion tons, are considered available for mining. (See

Briar Hill Coal Canton Shale 42 to 66 inches thick St. David Limestone Turner Mine Shale St. David Limestone Turner Mine Shale and 30 billion tons 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

Anvil Rock Sandston

Jamestown Coal
 Brereton Limestone
 Anna Shale

tonnage, stability

of bedrock overbur-

den) are comparable

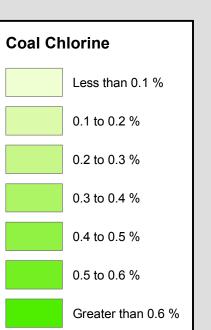
to other coals cur-

rently being mined

in the state. Of these

resources, 21 billion

tons occur in coal



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**

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 basis of the information presented here.

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