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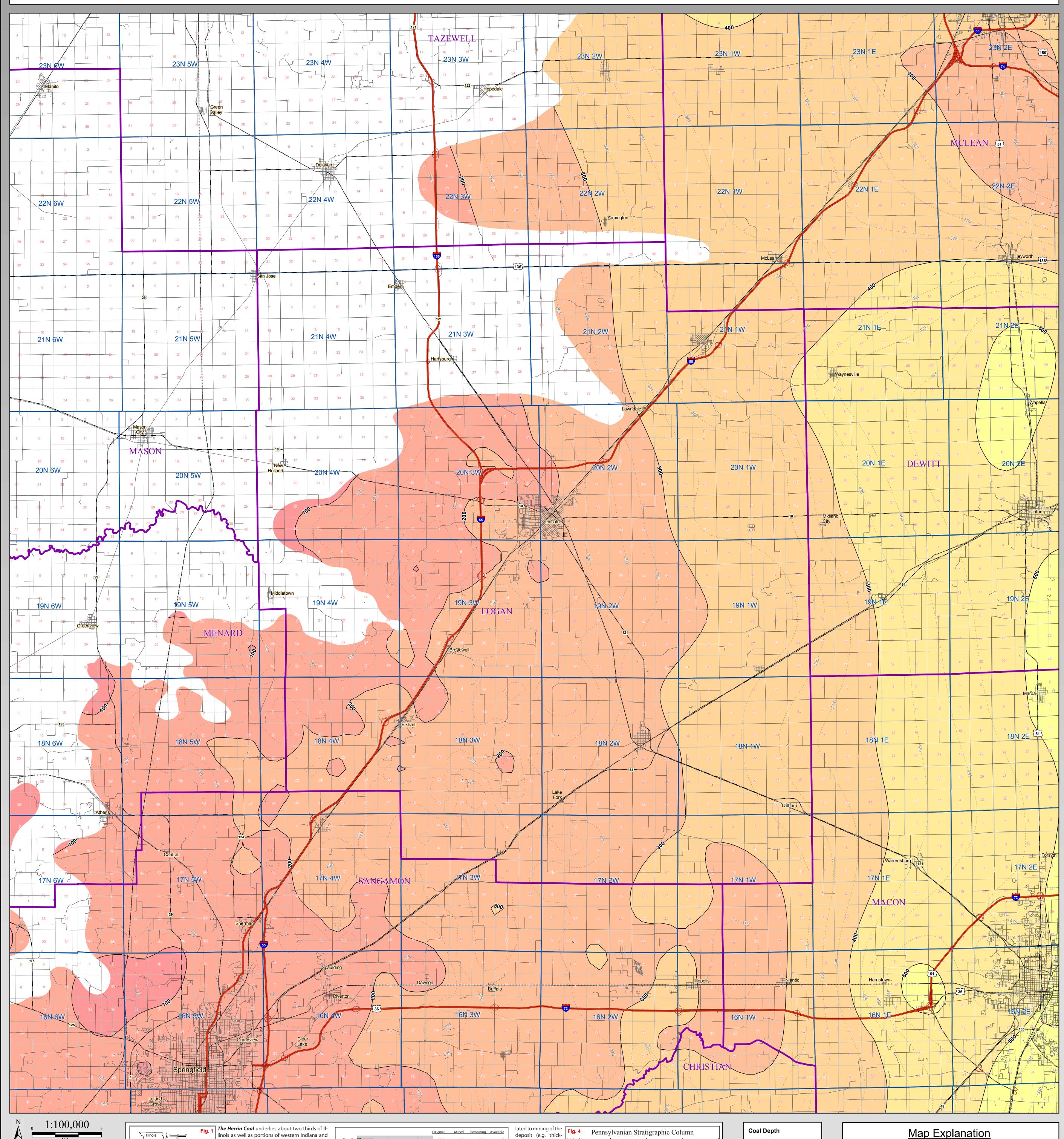
Herrin Coal Depth LOGAN County

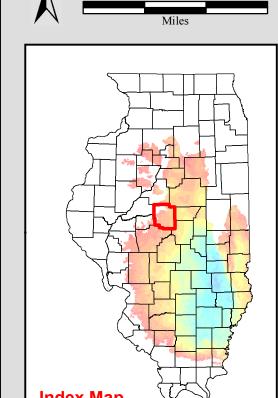
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

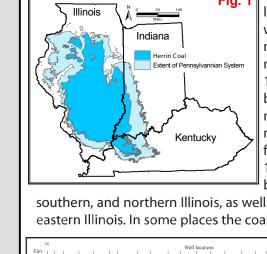
Map construction: October 26, 2009

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







rth-south cross section of the Pennsylvanian System in Illinois

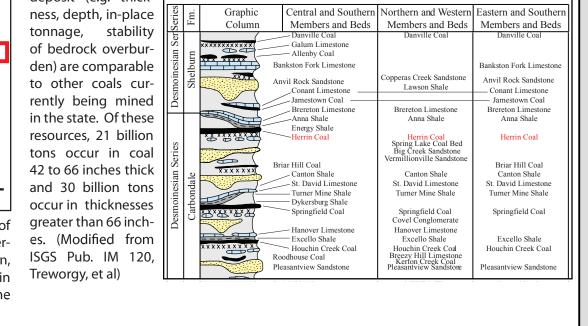
linois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,300 feet. (See Fig 1. and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone 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-

					<u>0</u>	iginal	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					1	6.0	0.1	5.9	0.3
Davis			Available Avail. w/ p	otential restr.		9.6	0.1	9.5	4.7
Seelyville			Restricted	l or mined		9.7	0	9.7	6.7
	0 20	40	60	80	100		(All numbe	ers in Billions o	f Tons)
Fig. 3		billio	ns of tons			221.1	12.5	208.6	96.1
	n by relativ	-			_	-		-	

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

much as a mile wide and 60-	Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.)	
80 feet thick mapped as Anvil	The original resource of Herrin Coal in the State of Illinois totals 88.5 billion	
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-	



## - 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.

## Detailed So. Illinois Faults < 100 ft 100 to 200 ft 200 to 300 ft 300 to 400 ft 400 to 500 ft 500 to 600 ft 600 to 700 ft 700 to 800 ft 800 to 900 ft 900 to 1000 ft 1000 to 1100 ft 1100 to 1200 ft

1200 to 1300 ft

1300 to 1400 ft

1400 to 1500 ft

1500 to 1600 ft

## 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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