LLINOIS 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

(217) 333-4747

http://www.isgs.illinois.edu

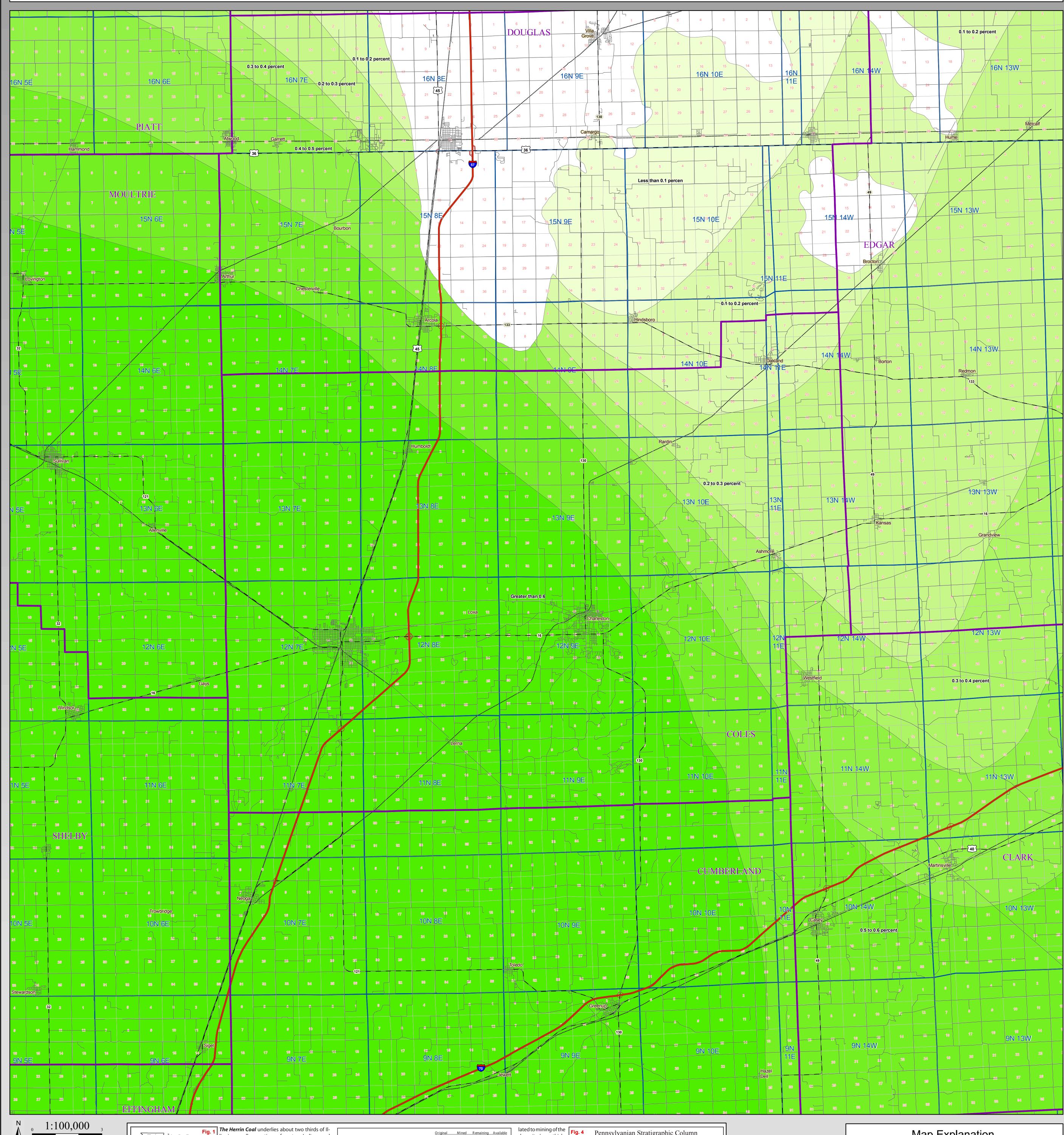
Herrin Coal Chlorine COLES County

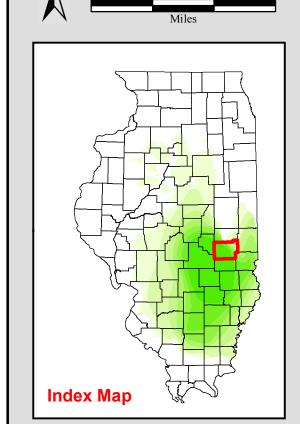
County Coal Map Series Andrew Louchios, Scott Elrick,

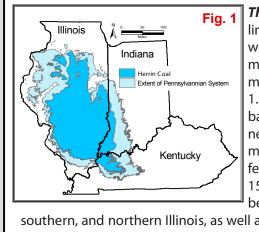
> Chris Korose, David Morse Map construction: October 29, 2009

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

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 maxinum 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,

Rock Sandstone and may be

contemporaneous with the

coal. In areas where the coal

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. Associ- 5 ated with this shale is a channel sandstone commonly as Bi much as a mile wide and 60-80 feet thick mapped as Anvil

					Original	Mined	R emaining	<u>Available</u>
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/ p	otential restr.	9.6	0.1	9.5	4.7
Seelyville			Restricted	or mined	9.7	0	9.7	6.7
0	20	40	60	80	100	(All number	rs in Billions of	Tons)
Fig. 3		billic	ons of tons		221.1	12.5	208.6	96.1
is overlain by feet it has a m		•						

rig. 3	221.1	12.5	208.0	90.1
s overlain by relatively thick bodies of the eet it has a much lower sulfur content that ies the coal principally in parts of William it. Clair, eastern Macoupin, and S. Vermilio Coal is overlain by either the Anna Shale N Brereton Limestone Member. (Hopkins, 196	n elsewh son, Fra on. Gene Member	nere. The nklin, Jef rally, how (black fis	gray shal ferson, M wever the sile shale)	e over- adison, Herrin

5 5	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 Herrin Coal resources, 51 billion tons, are considered available for mining. (See	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	
	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.	

St. David Limestone Turner Mine Shale occur in thicknesses 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.

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

42 to 66 inches thick

and 30 billion tons

Pennsylvanian Stratigraphic Column

Central and Southern
Members and Beds
Northern and Western
Members and Beds
Members and Beds
Members and Beds

Anvil Rock Sandston

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 %

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. 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

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