ILLINOIS 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

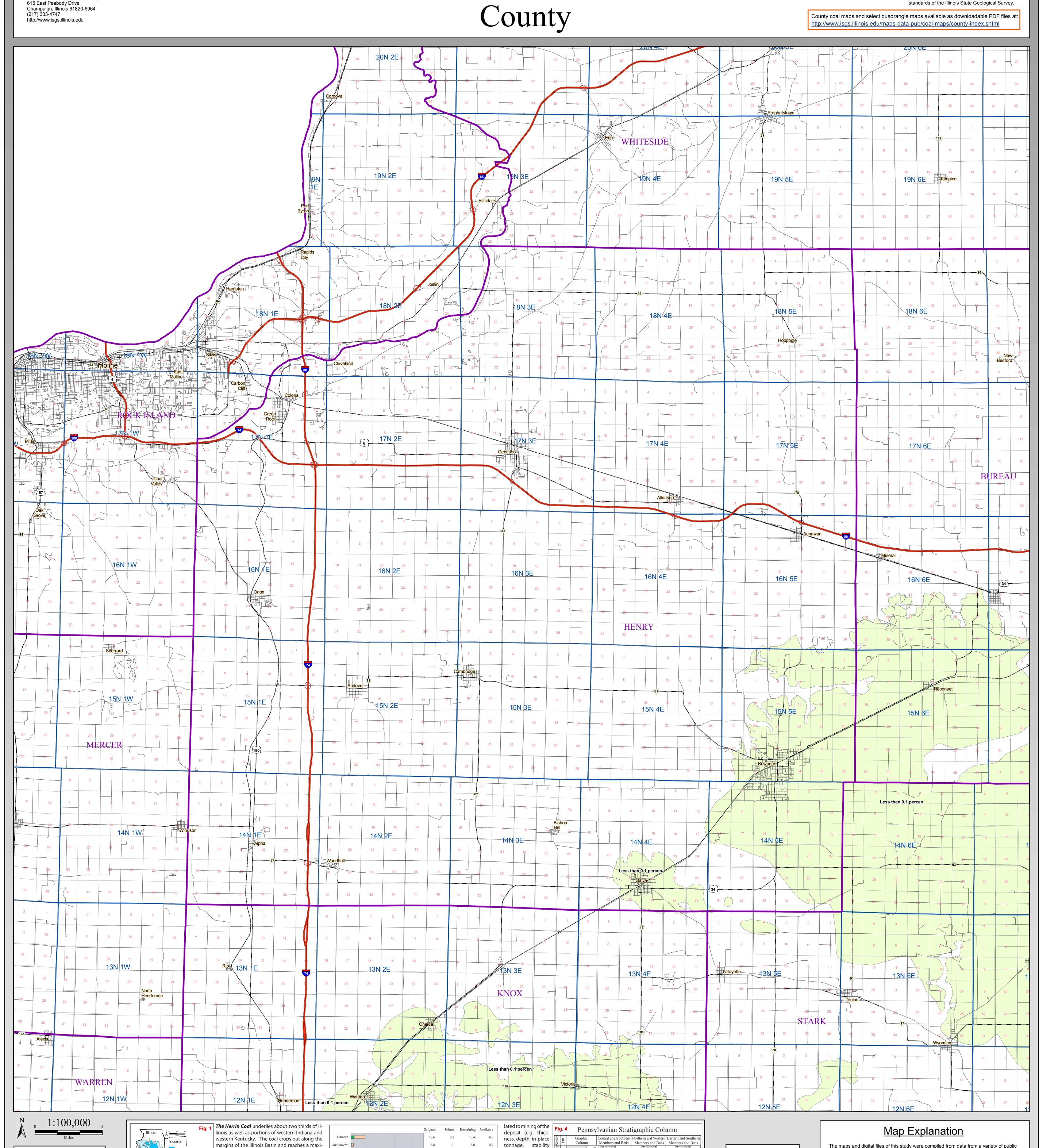
Herrin Coal Chlorine HENRY

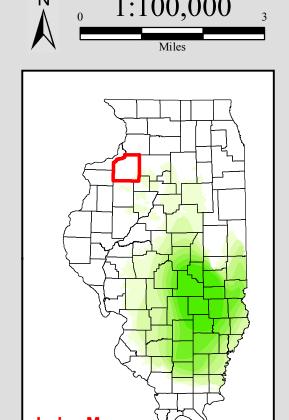
County Coal Map Series Andrew Louchios, Scott Elrick,

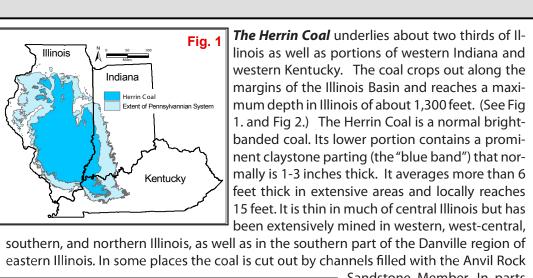
Chris Korose, David Morse Map construction: October 29, 2009

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:







orth-south cross section of the Pennsylvanian System in Illinois

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,

Sandstone Member. In parts is of Illinois, silty gray shale as fe much as 100 feet thick overlies the Herrin Coal. Associated with this shale is a channel sandstone commonly as Br 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
Ref 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

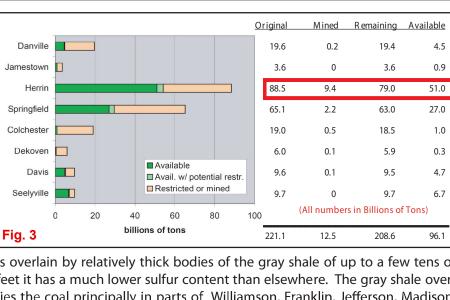


Fig. 3	billions of tons	221.1	12.5	208.6	96.1
feet it has a much l lies the coal princip St. Clair, eastern M Coal is overlain by	vely thick bodies of ower sulfur content pally in parts of Wil acoupin, and S. Ver either the Anna Sha Member. (Hopkins	than elsewh liamson, Frai milion. Gene ale Member (ere. The nklin, Jef rally, hov black fis	gray shal ferson, M wever the sile shale)	e over- adison, Herrin

	10-10-1-10-1				204 3
llions of tons	221.1	12.5	208.6	96.1	and :
thick bodies of the er sulfur content tha in parts of Willian upin, and S. Vermili er the Anna Shale ember. (Hopkins, 19	an elsewh nson, Fra on. Gene Member	nere. The nklin, Jef erally, how (black fis	gray shal ferson, M wever the sile shale)	e over- adison, Herrin	greate es. (I ISGS Trewo
	c				Dofor

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.

of bedrock overbur-

den) are comparable

to other coals cur-

rently being mined

in the state. Of these

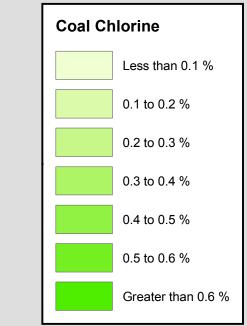
resources, 21 billion	.,	^ô^^ô°ô°ô°	Herrin Coal	Spring Lake Coal Bed	Herrin Coal	
tons occur in coal	eries	100000000000000000000000000000000000000		Big Creek Sandstone		
	Se		Briar Hill Coal	Vermillionville Sandstone	Briar Hill Coal	
42 to 66 inches thick	l al	XXXXXXX	Canton Shale	Canton Shale	Canton Shale	
and 30 billion tons	11. → 1 0		St. David Limestone	St. David Limestone	St. David Limestone	
	<u>i</u> ğ i		Turner Mine Shale	Turner Mine Shale	Turner Mine Shale	
occur in thicknesses	smoin	8 2 X X X X X X X X X X X X X X X X X X	Dykersburg Shale Springfield Coal	Springfield Coal	Springfield Coal	
greater than 66 inch-	Des			Covel Conglomerate		
•	$\parallel \Box \parallel$			Hanover Limestone		
es. (Modified from		XXXXXXXXXX	Excello Shale Houchin Creek Coal	Excello Shale Houchin Creek Coal	Excello Shale Houchin Creek Coal	
ISGS Pub. IM 120,			Roodhouse Coal	Breezy Hill Limestone	Houchin Creek Coar	
•			Pleasantview Sandstone	Kerfon Creek Coal Pleasantview Sandstore	Pleasantview Sandstone	
Treworgy, et al)	ЩĻ				<u> </u>	
Deferences						
References:						
 Handbook of Illinois S 	tratio	graphy, 1975,	Illinois State Geolog	gical Survey Bulle	tin 95, 261p.	

- Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Herrin

peras Creek Sandstone Lawson Shale

Anvil Rock Sandston

Jamestown Coal
 Brereton Limestone
 Anna Shale



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.

 $\hbox{@}$ 2009 Board of Trustees of the University of Illinois. All rights reserved.