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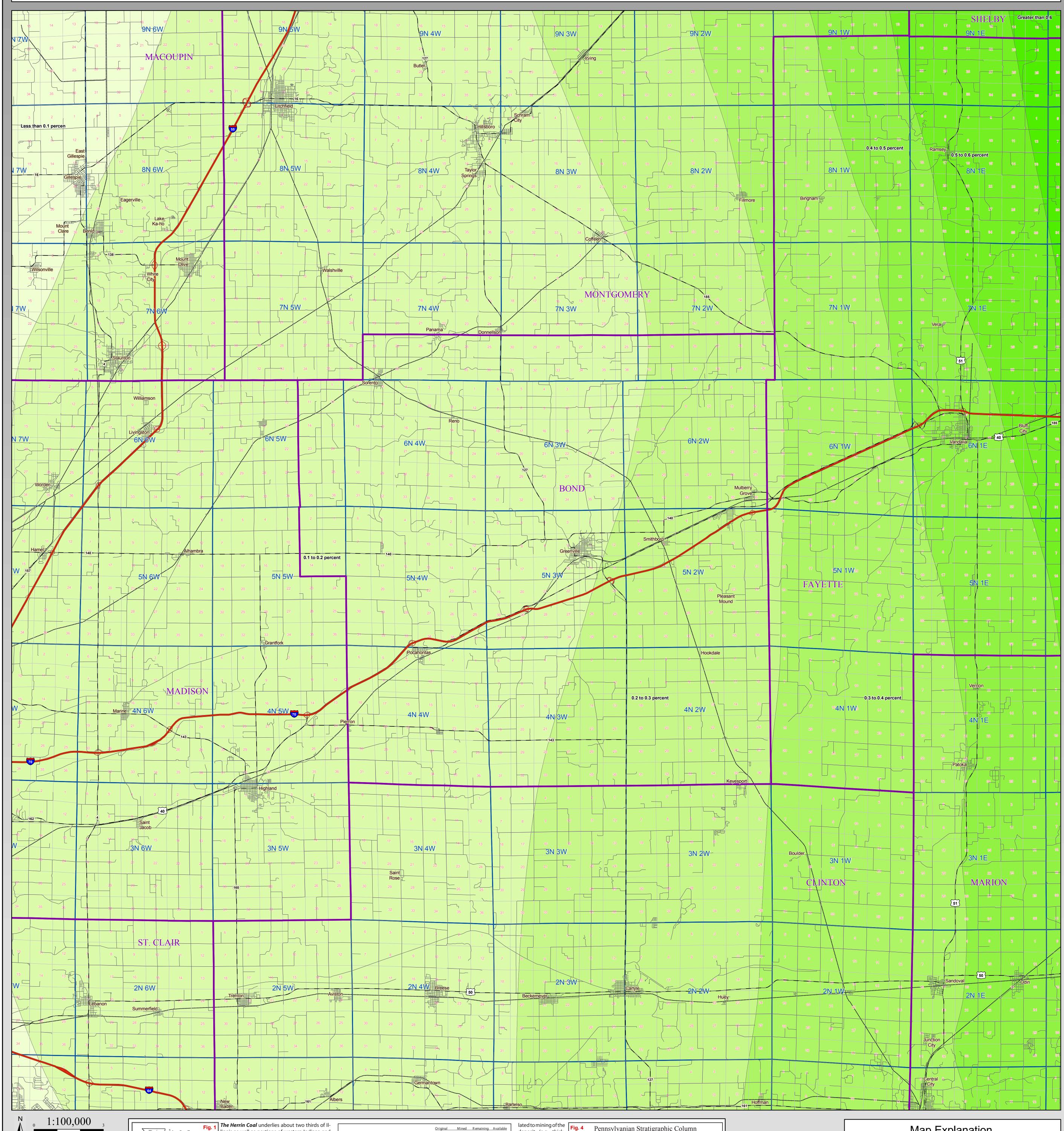
Herrin Coal Chlorine BOND County

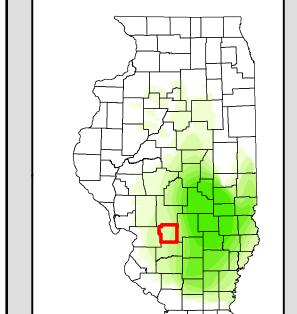
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

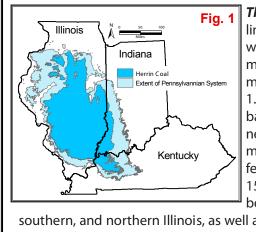
Map construction: October 29, 2009

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 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 is of Illinois, silty gray shale as fee much as 100 feet thick over- lie lies the Herrin Coal. Associ- St. ated with this shale is a channel sandstone commonly as Bre much as a mile wide and 60-80 feet thick mapped as Anvil **T**he 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

						0	riginal	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			■ Ava ■ Ava	ilable il. w/ poten	tial restr.		9.6	0.1	9.5	4.7
Seelyville			■Res	tricted or n	nined		9.7	0	9.7	6.7
	0	20	40	60	80	100		(All numbe	ers 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 the gray shale of up to a few tens of the gray shale over										

ig. 3	billions of tons	221.1	12.5	208.6	96.1		
et it has a much loves the coal principa c. Clair, eastern Macoal is overlain by e	ely thick bodies of the wer sulfur content tha ally in parts of William coupin, and S. Vermili ither the Anna Shale I Member. (Hopkins, 196	in elsewh nson, Frar on. Gene Member (	ere. The nklin, Jeff rally, hov (black fiss	gray shal ferson, M vever the sile shale)	e over- adison, Herrin		

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-

in the state. Of these resources, 21 billion tons occur in coal 42 to 66 inches thick St. David Limestone Turner Mine Shale and 30 billion tons occur in thicknesses Springfield Coal greater than 66 inch- 비営 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)

deposit (e.g. thick-

ness, depth, in-place tonnage, stability

of bedrock overbur-

den) are comparable

to other coals cur-

rently being mined

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
Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 120, 54 p.

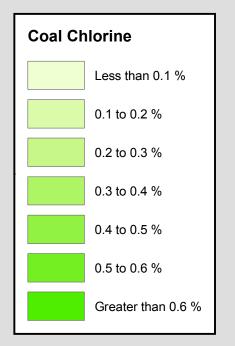
Pennsylvanian Stratigraphic Column

Central and Southern Northern and Western Eastern and Souther Members and Beds Members and Beds Members and Beds

Anvil Rock Sandston

Brereton Limesto Anna Shale

Briar Hill Coal Canton Shale



## **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. 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**

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