ILLINOIS AT URBANA-CHAMPAIGN Institute of Natural Resource Sustainability William W. Shilts, Executive Director ILLINOIS STATE GEOLOGICAL SURVEY E. Donald McKay III, Interim Director

Institute of Natural Resource Sustainablity

For more information contact:

http://www.isgs.illinois.edu

(217) 333-4747

Illinois State Geological Survey 615 East Peabody Drive Champaign, Illinois 61820-6964

Herrin Coal Chlorine RANDOLPH County

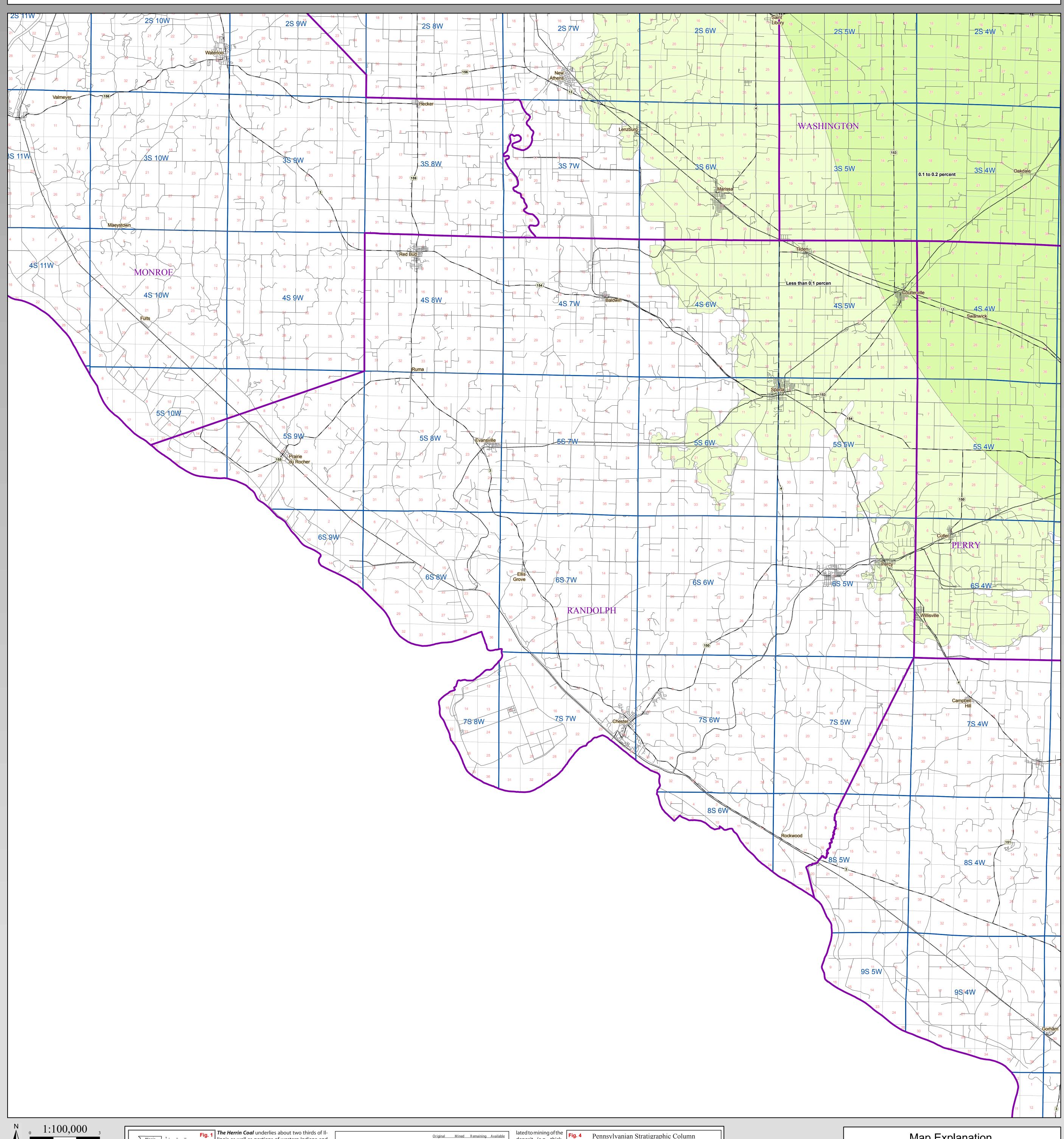
County Coal Map Series

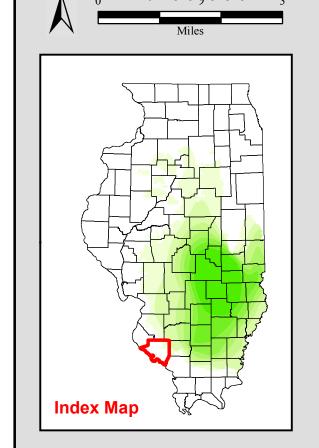
Andrew Louchios, Scott Elrick, Chris Korose, David Morse Map construction: October 29, 2009

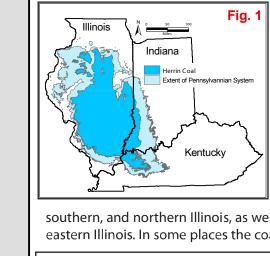
This product is under review and may not meet the

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



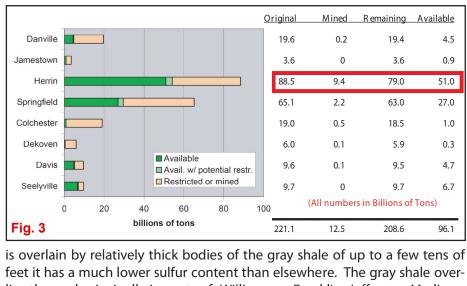




orth-south cross section of the Pennsylvanian System in Illinois

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-



rig. 3	221.1	12.5	208.0	90.1
overlain by relatively thick bodies of the eet it has a much lower sulfur content that es the coal principally in parts of Williar t. Clair, eastern Macoupin, and S. Vermili oal is overlain by either the Anna Shale rereton Limestone Member. (Hopkins, 19	an elsewl nson, Fra ion. Gene Member	nere. The inklin, Jef erally, hov (black fis	gray sha ferson, M wever the sile shale	le over- ladison, e Herrin

80 feet thick mapped as Anvil
The original resource of Herrin Coal in the State of Illinois totals 88.5 billion
References: 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-

to other coals cur- rently being mined in the state. Of these	Desmo	Shel	
resources, 21 billion tons occur in coal 42 to 66 inches thick and 30 billion tons occur in thicknesses greater than 66 inch- es. (Modified from ISGS Pub. IM 120, Treworgy, et al)	Desmoinesian Series	Carbondale	***************************************

deposit (e.g. thick-

ness, depth, in-place

tonnage, stability

of bedrock overbur-

den) are comparable 🏻 🔞

- 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.

Brereton Limest

Anna Shale
Energy Shale

Pennsylvanian Stratigraphic Column

| Central and Southern | Northern and Western | Eastern and Southern | Members and Beds | Members and Beds | Danville Coal | D

peras Creek Sandstone Lawson Shale

Brereton Limestone Anna Shale

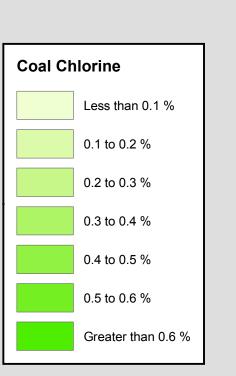
St. David Limestone

Turner Mine Shale

Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstore

Anvil Rock Sandston

rereton Limesto Anna 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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