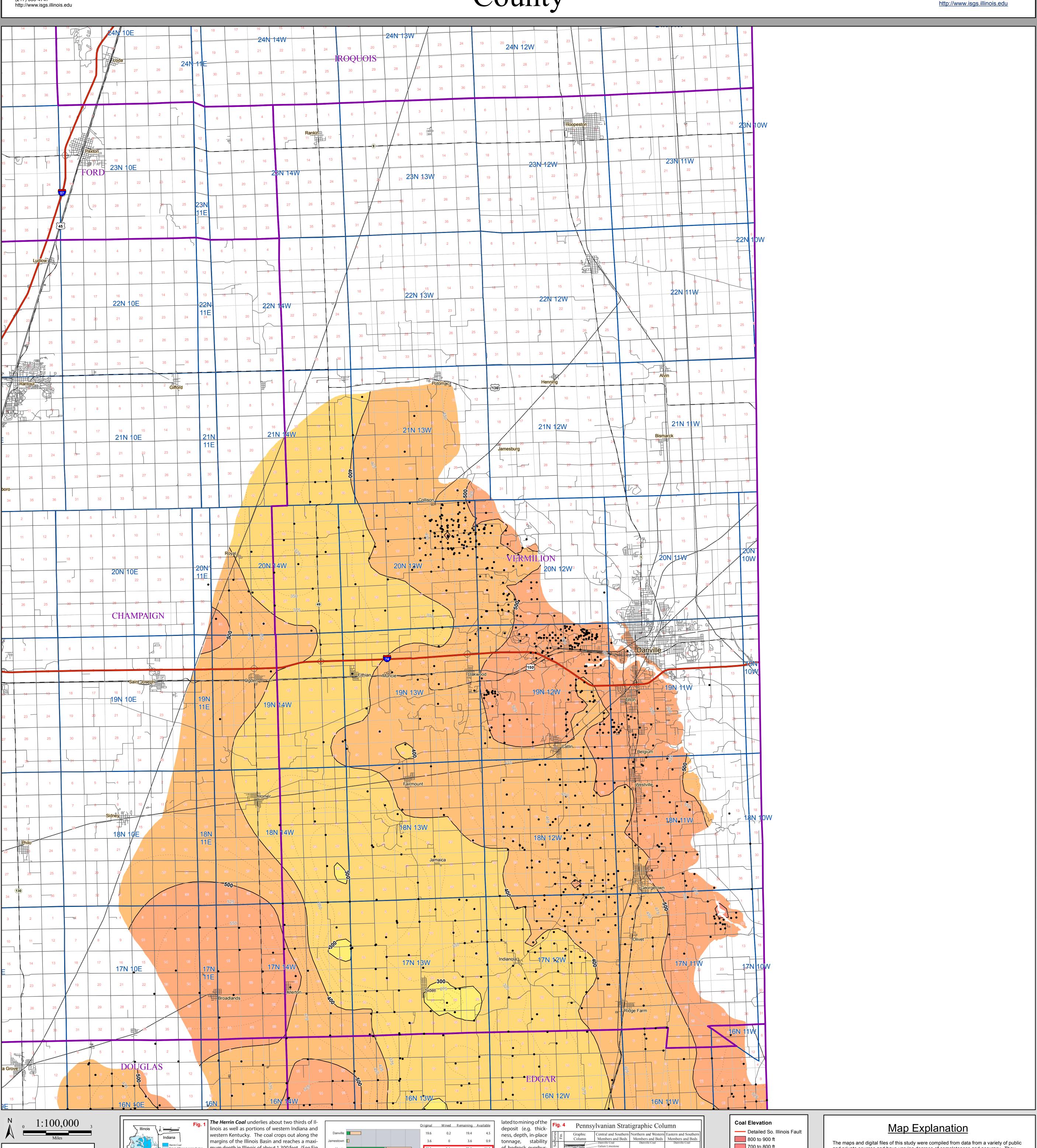
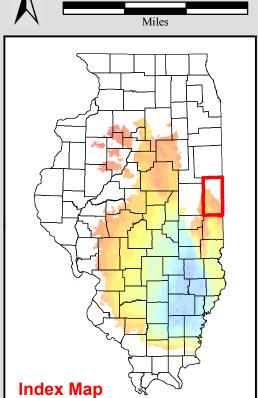
Herrin Coal Elevation VERMILION County

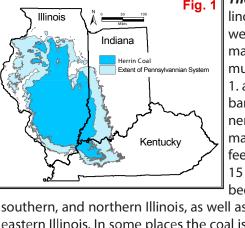
County Coal Map Series ISGS Coal Section Map construction: May, 2015

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:



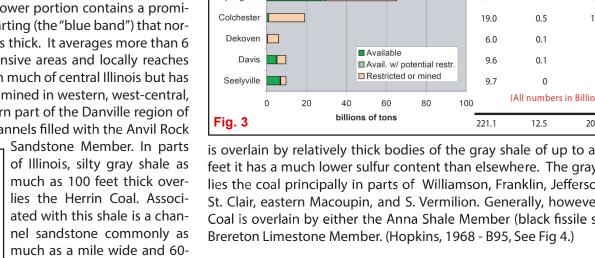




North-south cross section of the Pennsylvanian System in Illinois

mum 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



contemporaneous with the Herrin Coal resources, 51 billion tons, are considered available for mining. (See

19.4 4.5	ness, depth, in-place	erSeries	Fm.	Graphic		Northern and Western]
3.6 0.9	tonnage, stability	rSe	Т	Column	Members and Beds — Danville Coal	Members and Beds Danville Coal	_
79.0 51.0	of bedrock overbur-	Š	ırı	××××××××××××××××××××××××××××××××××××××	Galum Limestone — Allenby Coal	Danvine Coar	
63.0 27.0	den) are comparable	ines	Shelburn	XXXX	Bankston Fork Limestone	Copperas Creek Sandstone	
18.5 1.0	to other coals cur- rently being mined	Desmoinesian	Sh		Anvil Rock Sandstone Conant Limestone Jamestown Coal	Lawson Shale	_
5.9 0.3	in the state. Of these				Brereton Limestone Anna Shale	Brereton Limestone Anna Shale	
9.5 4.7	resources, 21 billion			*&**&*********************************	Energy Shale Herrin Coal	Herrin Coal Spring Lake Coal Bed	
9.7 6.7	tons occur in coal	Series			Briar Hill Coal	Big Creek Sandstone Vermillionville Sandstone	
rs in Billions of Tons)	42 to 66 inches thick and 30 billion tons		lale	XXXXXXX	Canton Shale St. David Limestone	Canton Shale St. David Limestone	
208.6 96.1	occur in thicknesses	noine	Carbondal		Turner Mine Shale Dykersburg Shale	Turner Mine Shale	
up to a few tens one gray shale over efferson, Madison owever the Herrin fissile shale) or the 4.)	greater than 66 inch- es. (Modified from , ISGS Pub. IM 120, Treworgy, et al)	Desmoinesian	Car	**************************************	Springfield Coal Hanover Limestone Excello Shale Houchin Creek Coal Roodhouse Coal Pleasantview Sandstone	Springfield Coal Covel Conglomerate Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstore	

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 - 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. 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.

700 to 800 ft 600 to 700 ft 500 to 600 ft elevation 400 to 500 ft data point 300 to 400 ft 200 to 300 ft 100 to 200 ft 0 to 100 ft -100 to 0 ft -200 to -100 ft -300 to -200 ft -400 to -300 ft -500 to -400 ft -600 to -500 ft -700 to -600 ft

-800 to -700 ft

-900 to -800 ft

< -900 ft

Anvil Rock Sandstone

Houchin Creek Coal

Pleasantview Sandstone

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. Data included in this map are suitable for use at a scale of 1:100,000.

Disclaimer

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