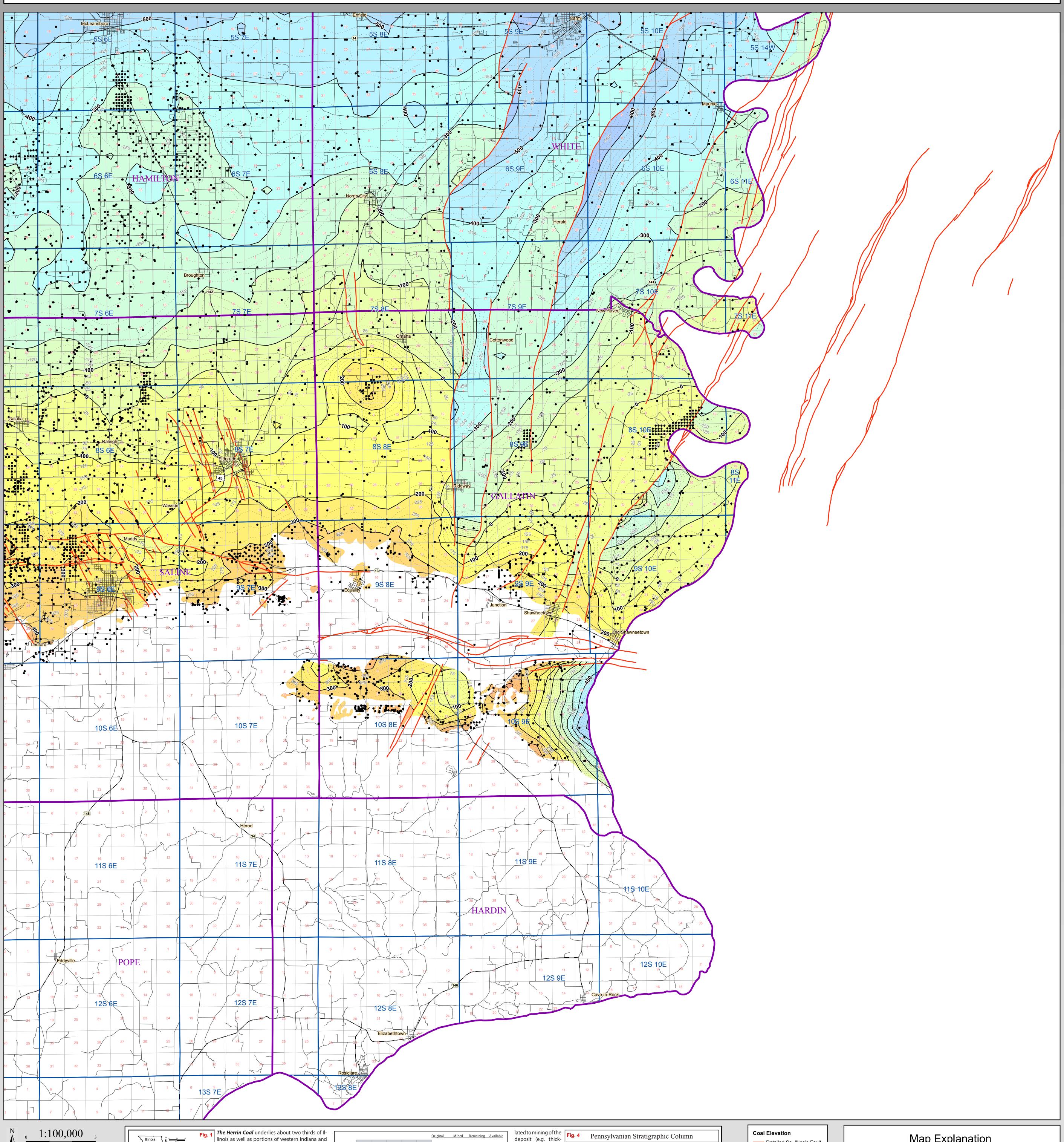
http://www.isgs.illinois.edu

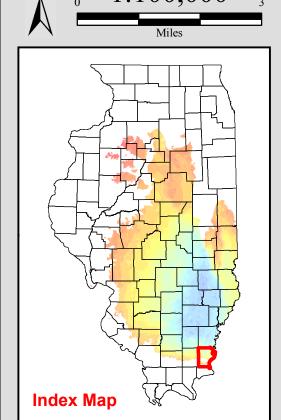
## Herrin Coal Elevation GALLATIN County

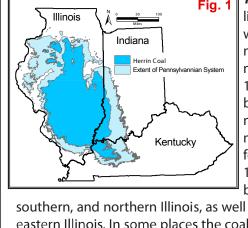
County Coal Map Series ISGS Coal Section Map construction: May, 2015

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: http://www.isgs.illinois.edu







linois 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 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

Sandstone Member. In parts 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 References: contemporaneous with the Herrin Coal resources, 51 billion tons, are considered available for mining. (See North-south cross section of the Pennsylvanian System in Illinois

					<u>Original</u>	Mined	Remaining	<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 2	0 40	60	80	100	(All number	s in Billions of	f Tons)
Fig. 3		billio	ons of tons		221.1	12.5	208.6	96.1
is overlai	n by rel	latively t	thick boo	dies of the	e gray s	hale of u	ıp to a fev	w tens of

of Illinois, silty gray shale as feet it has a much lower sulfur content than elsewhere. The gray shale of much as 100 feet thick over- lies the coal principally in parts of Williamson, Franklin, Jefferson, Mad lies the Herrin Coal. Associ- St. Clair, eastern Macoupin, and S. Vermilion. Generally, however the H ated with this shale is a chan- Coal is overlain by either the Anna Shale Member (black fissile shale) of nel sandstone commonly as Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.)

27.0	-
1.0	to other coals cur-
0.3	rently being mined
0.3	in the state. Of these
4.7	resources, 21 billion
6.7	tons occur in coal
ns)	42 to 66 inches thick
	and 30 billion tons
96.1	occur in thicknesses
ens of	greater than 66 inch-
over-	es. (Modified from
dison,	1666 B L 144 420
,	· ·
Herrin	Treworgy, et al)
or the	

ness, depth, in-place

tonnage, stability

of bedrock overbur-

den) are comparable

_	· ·	_		1	T	
ŀ	Series	Fm.	Graphic	Central and Southern	Northern and Western	Eastern and South
ľ	S	Ξ	Column	Members and Beds	Members and Beds	Members and Bo
Г	Ser			— Danville Coal	Danville Coal	Danville Coal
۲	ın S	u.	×××××××××××××××××××××××××××××××××××××××	Galum Limestone     Allenby Coal		
ŀ	esis	Ipnī	В	ankston Fork Limestone		Bankston Fork Limes
٠	Desmoinesian	Shelburn	A	nvil Rock Sandstone Conant Limestone Jamestown Coal	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstor —— Conant Limestone —— Jamestown Coal
Ľ	_			Brereton Limestone  Anna Shale	Brereton Limestone Anna Shale	Brereton Limestone Anna Shale
	Desmoinesian Series	Carbondale	TXXXXXXXX B	Anna Snaie Energy Shale Herrin Coal  riar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Dykersburg Shale	Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone Canton Shale St. David Limestone Turner Mine Shale	Herrin Coal  Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale
١,	Jesmo	Carb	8x8x8x8	Springfield Coal	Springfield Coal Covel Conglomerate	Springfield Coal
	T			Hanover Limestone Excello Shale Houchin Creek Coal boodhouse Coal easantview Sandstone	Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerton Creek Coal Pleasantview Sandstore	Excello Shale Houchin Creek Coa Pleasantview Sandsto

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.

Coal Elevation	
— Detailed So. III	inois Fault
800 to 900 ft	
700 to 800 ft	
600 to 700 ft	Coal
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

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

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