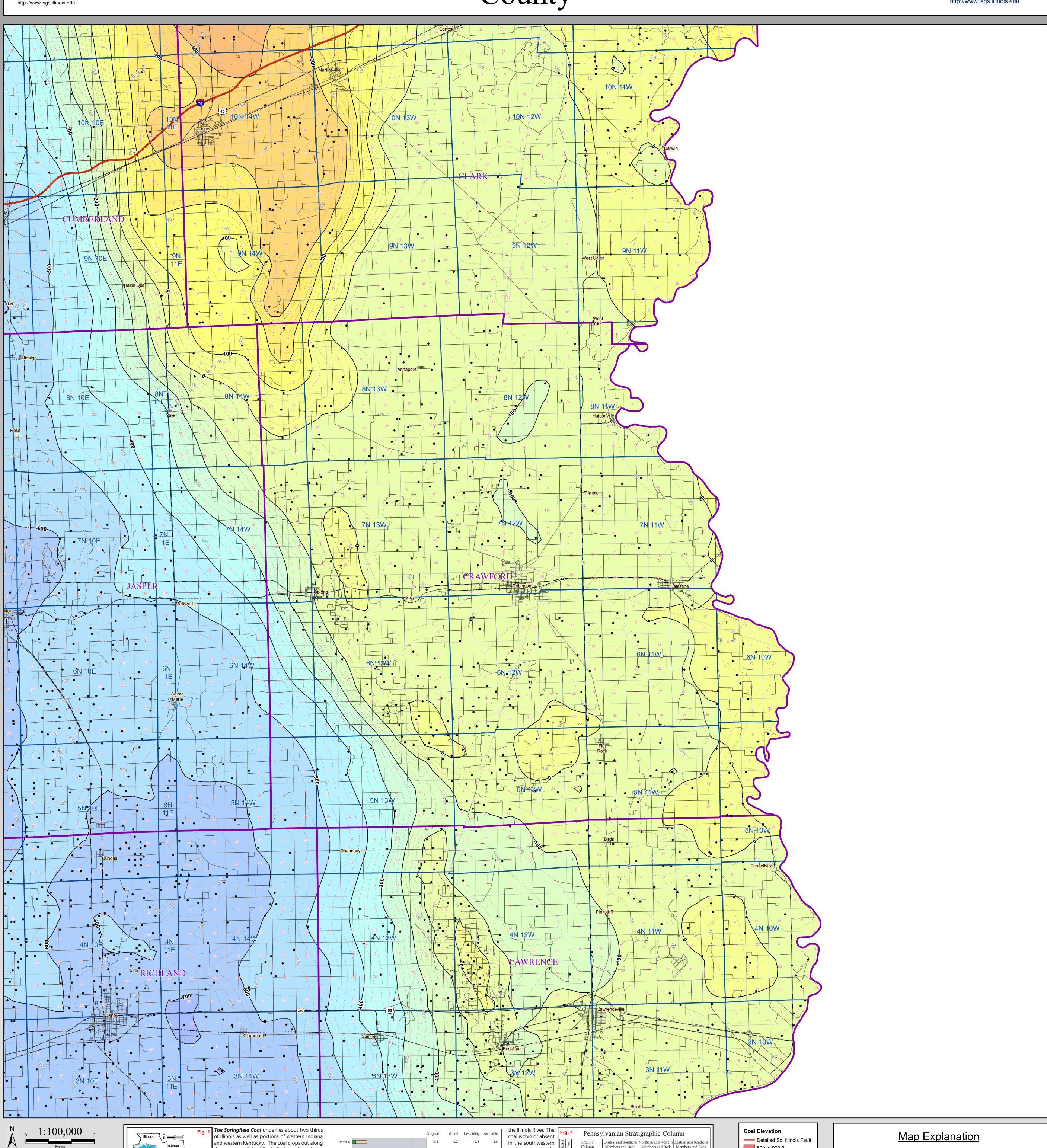
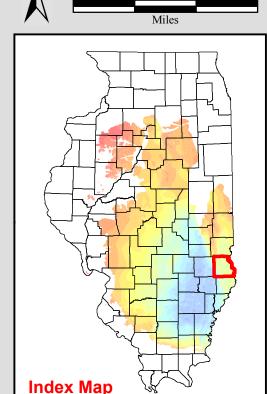
Springfield Coal Elevation CRAWFORD County

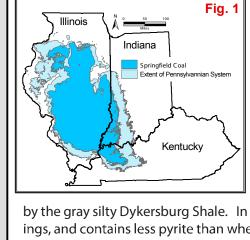
County Coal Map Series ISGS Coal Section Map construction: May, 2015

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







North-south cross section of the Pennsylvanian System in Illinois

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 Springfield Coal is in the Carbondale formation which is part of the Desmoninesian Series. (See Fig. 4) The Springfield Coal is normally overlain by a black fissile shale called the Turner Mine shale, but in southeastern Illinois, in a belt several miles wide that trends southwestward, the coal is thick and is overlain

Coal resources, 27 billion tons,

by the gray silty Dykersburg Shale. In that belt the coal is commonly split by shale partings, and contains less pyrite than where it is overlain by the black fissile shale (Hopkins, 1968 - B95). (See Fig 4.) tons, of which 2.2 billion have

	Original	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 Available Avail. w/ potential restr.	9.6	0.1	9.5	4.7
Seelyville Restricted or mined	9.7	0	9.7	6.7
0 20 40 60 80	100	(All number	rs in Billions of	Tons)
Fig. 3 billions of tons	221.1	12.5	208.6	96.1
means that the surface land-use and geolo	_			_

the deposit (e.g. thickness, depth, in-place tonnage, stability of bedrock over- **T**he original resource of burden) are comparable to other coals currently being mined in the state. Of Springfield Coal in the State these resources, 23 billion tons occur in coal 42 to 66 inches thick and 4 billion of Illinois totals 65.1 billion tons occur in thicknesses greater than 66 inches thick.

been mined. Approximately **T**he Springfield Coal has been mined in Illinois for well over 100 years. The 41% of the original Springfield thickest resources of Springfield Coal in Illinois are found in the central part of **References**: the state around the city of Springfield and in the southeastern part of the state are considered available for along the Galatia Channel. Recent and historical mining of the coal has been

coal is thin or absent	Fi	Fig. 4 Pennsylvanian Stratigraphic Column					
in the southwestern	Series	Fm.	Graphic	Central and Southern	Northern and Western	Eastern and Southern	
and extreme north-	Ser	Ξ	Column	Members and Beds	Members and Beds	Members and Beds	
ern portions of the coal field. (Modified from ISGS Pub. IM 118, Treworgy, et al)	Desmoinesian Series	0	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Anna Shale Energy Shale Herrin Coal Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Dykersburg Shale Springfield Coal Hanover Limestone Excello Shale Houchin Creek Coal Roodhouse Coal Pleasantview Sandstone Survant Coal Oak Grove Limestone Mecca Quarry Shale Colchester Coal Palzo Sandstone	Anna Shale Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone Canton Shale St. David Limestone Turner Mine Shale Springfield Coal Covel Conglomerate Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstone Lowell Coal Oak Grove Limestone Mecca Quarry Shale Jake Greek Sanstone Francis Creek Sandstone Cardiff Coal Bed Colchester Coal Browning Sandstone Abingdon Coal Bed Isabel Sandstone	Anna Shale Herrin Coal Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Springfield Coal Excello Shale Houchin Creek Coal Pleasantview Sandstone Survant Coal Mecca Quarry Shale Colchester Coal	

- 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 Springfield mining (See Fig 3.). Available concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in these areas and in shallow surface minable deposits west of concentrated in the concentrated in

Coal	l Elevation	
	Detailed So. II	linois 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

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.

Disclaimer

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