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Springfield Coal Depth CRAWFORD

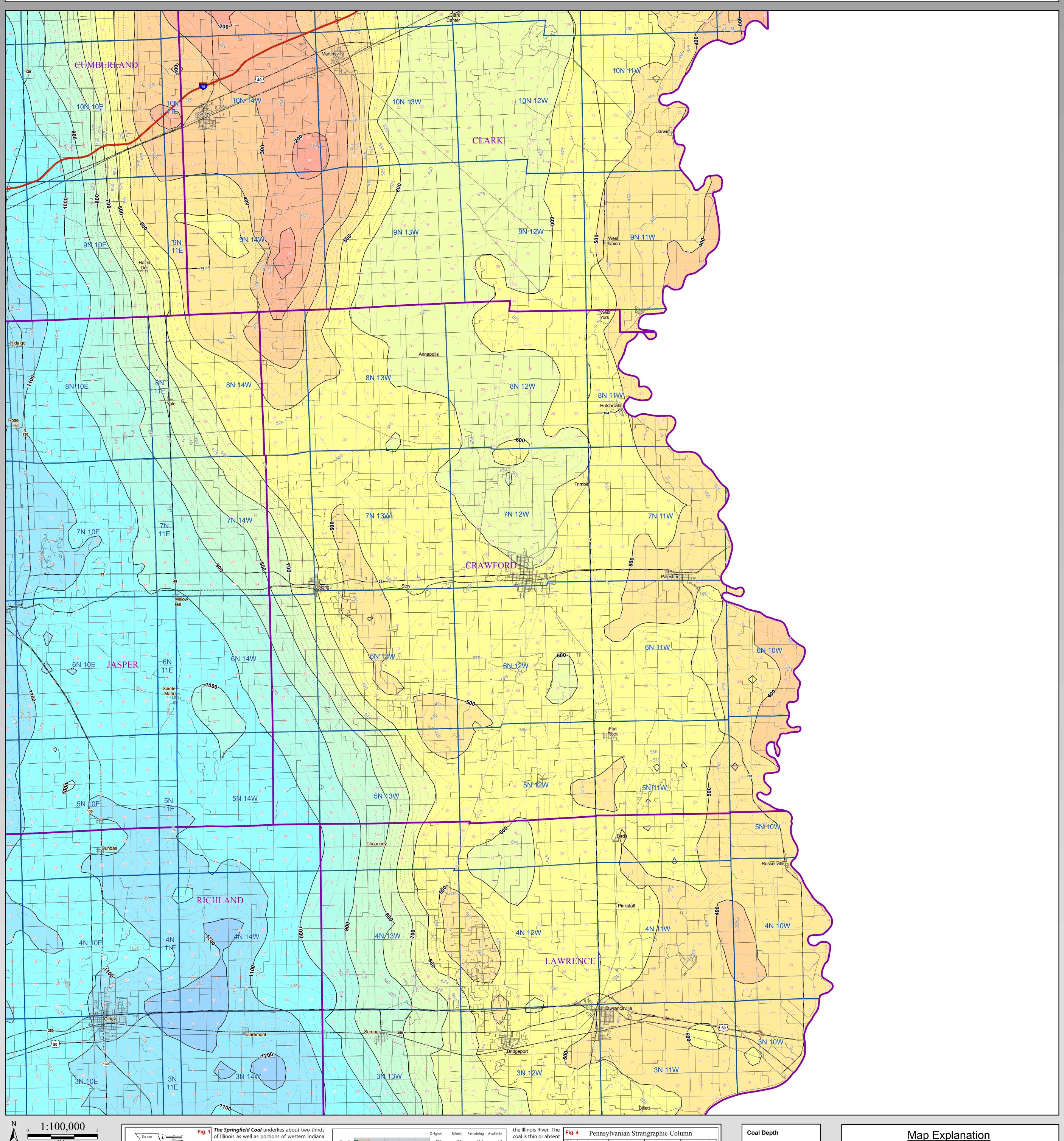
County Coal Map Series Andrew Louchios, Scott Elrick,

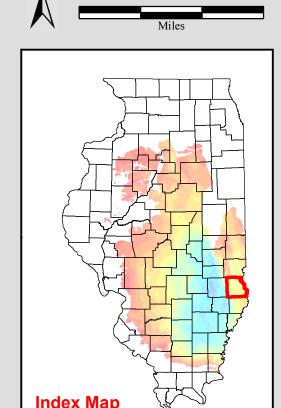
Chris Korose, David Morse

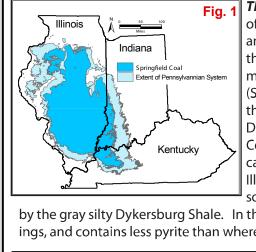
Map construction: October 26, 2009

This product is under review and may not meet the standards of the Illinois State Geological Survey.

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







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 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 by the gray silty Dykersburg Shale. In that belt the coal is commonly split by shale part-

ings, and contains less pyrite than where it is overlain by the black fissile shale (Hopkins, are considered available for along the Galatia Channel. Recent and historical mining of the coal has been orth-south cross section of the Pennsylvanian System in Illinois



12.5 208.6 1968 - B95). (See Fig 4.) means that the surface land-use and geologic conditions related to mining of the deposit (e.g. thickness, depth, in-place tonnage, stability of bedrock over-The 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. tons, of which 2.2 billion have been mined. Approximately \mathbf{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**:

Avail. w/ potential restr

i	the Illinois River. The coal is thin or absent in the southwestern and extreme northern portions of the coal field. (Modified		g. 4	umn				
		ies	Fm.	Graphic	Central and Southern	Northern and Western	Eastern and South	
		Series	ΕĪ	Column	Members and Beds	Members and Beds	Members and Bed	
		<u> </u>			Anna Shale	Anna Shale	Anna Shale	
				*******	Energy Shale Herrin Coal	Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone	Herrin Coal	
	from ISGS Pub. IM			XXXXXXX	Briar Hill Coal		Briar Hill Coal	
	118, Treworgy, et al)				Canton Shale	Canton Shale	Canton Shale	
		SS			St. David Limestone Turner Mine Shale	St. David Limestone Turner Mine Shale	St. David Limestone Turner Mine Shale	
		E. F.			Dykersburg Shale	Turner withe shale	Turner withe Share	
		Desmoinesian Series	Carbonda	RXXXXX	Springfield Coal	Springfield Coal Covel Conglomerate	Springfield Coal	
					— Hanover Limestone	Hanover Limestone		
					Excello Shale	Excello Shale	Excello Shale	
				XXXXXXXXXX	Houchin Creek Coal Roodhouse Coal	Houchin Creek Coal Breezy Hill Limestone Kerton Creek Coal Pleasantview Sandstone	Houchin Creek Coal	
					Pleasantview Sandstone	Pleasantview Sandstone	Pleasantview Sandston	
				××××××××	Survant Coal	Lowell Coal	Survant Coal	
1					Oak Grove Limestone	Oak Grove Limestone		
					Mecca Quarry Shale	Mecca Quarry Shale Jake Creek Sanstone Francis Creek Sandstone Cardiff Coal Bed	Mecca Quarry Shale	
				# # B	Colchester Coal	Colchester Coal Browning Sandstone Abingdon Coal Bed	Colchester Coal	
					Palzo Sandstone	Isabel Sandstone		
	J	-	-	V				

79.0 51.0

Coal resources, 27 billion tons, the state around the city of Springfield and in the southeastern part of the state - 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 Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 118, 43 p.

Detailed So. Illinois Faults < 100 ft 100 to 200 ft 200 to 300 ft 300 to 400 ft 400 to 500 ft 500 to 600 ft

600 to 700 ft

700 to 800 ft

800 to 900 ft

900 to 1000 ft

1000 to 1100 ft

1100 to 1200 ft

1200 to 1300 ft

1300 to 1400 ft

1400 to 1500 ft

1500 to 1600 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

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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.