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Danville Coal Elevation LAWRENCE County

County Coal Map Series Andrew Louchios, Scott Elrick,

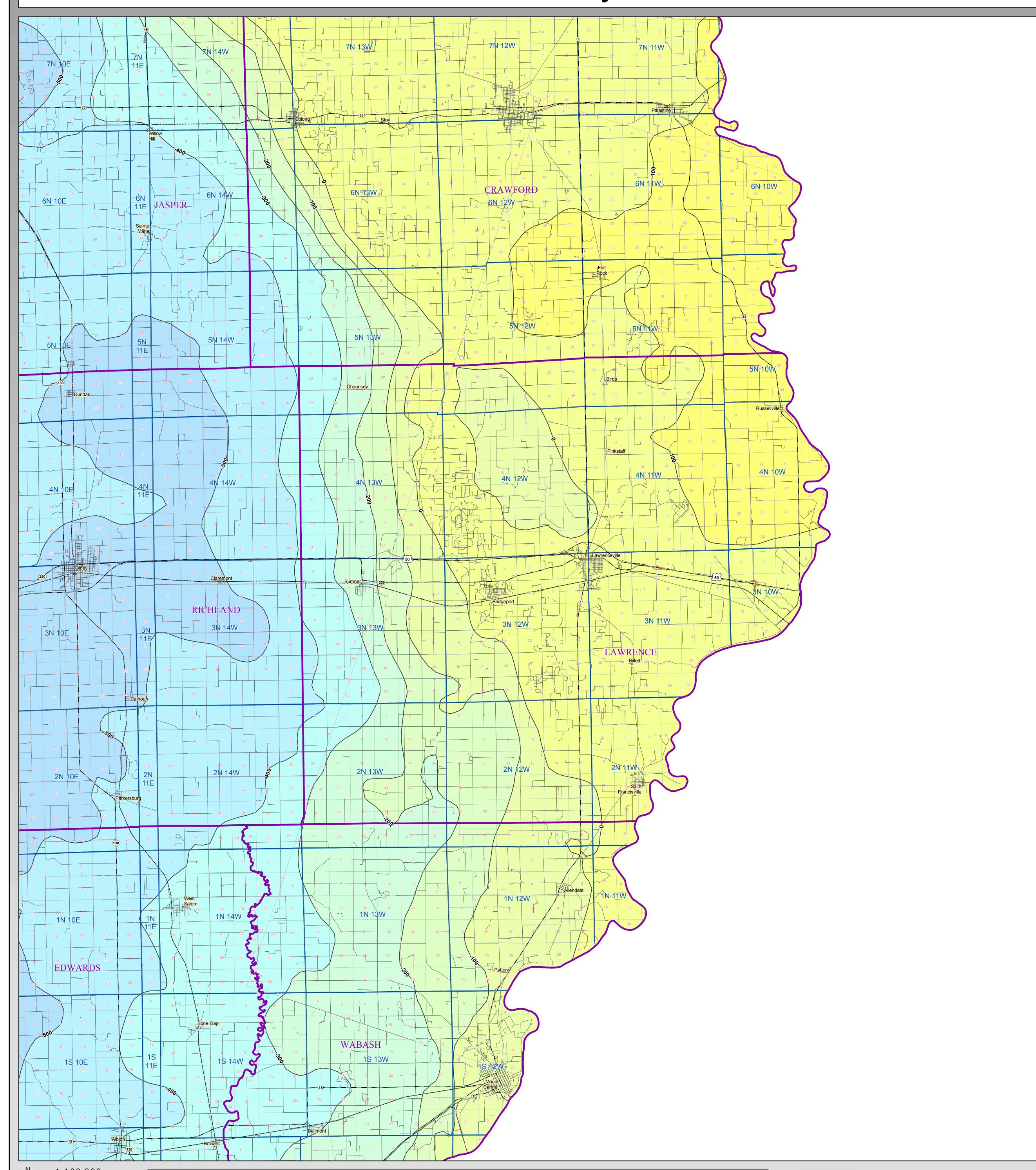
Map construction: November 03, 2009

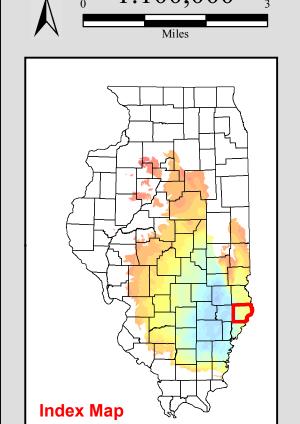
Chris Korose, David Morse

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





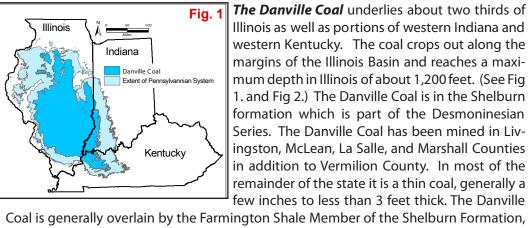
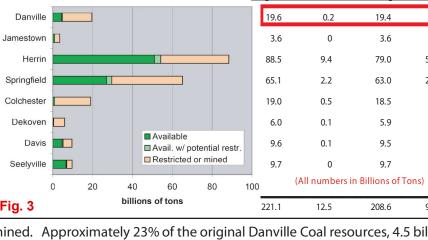


Fig. 1 The Danville Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,200 feet. (See Fig 1. and Fig 2.) The Danville Coal is in the Shelburn formation which is part of the Desmoninesian Series. The Danville Coal has been mined in Livingston, McLean, La Salle, and Marshall Counties in addition to Vermilion County. In most of the remainder of the state it is a thin coal, generally a few inches to less than 3 feet thick. The Danville

but in places the immediate roof is 1-2 feet of black fissile shale. It is underlain by a The original resource of Dan-

kins, 1968 - B95). (See Fig 4.)



relatively thick underclay. At $\,\,$ mined. Approximately 23% of the original Danville Coal resources, 4.5 billion $\,\,$ has $^{
m b}$ the type locality in Vermillion tons, are considered available for mining. (See Fig 3.) Available means that to be county, the Danville Coal is 6 the surface land-use and geologic conditions related to mining of the deposit poor i feet thick and occurs 20 feet (e.g. thickness, depth, in-place tonnage, stability of bedrock overburden) are tify rec above the Herrin Coal. (Hop-comparable to other coals currently being mined in the state. Of these resources, 4 billion tons occur in coal 42 to 66 inches thick and 0.4 billion tons occur in thicknesses greater than 66 inches.

ville Coal in the State of Illi- The Danville Coal has been mined in Illinois for over 100 years, but only about - Christopher P. Korose, Colin G. Treworgy, Russell J. Jacobson, and Scott D. Elrick, 2002, Availabilnois totals 19.6 billion tons, 1% of the original resource has been depleted. The most extensive area of ity of the Danville, Jamestown, Dekoven, Davis, and Seelyville Coals for mining in Selected Areas of which 0.2 billion have been mining was in east-central Illinois near the city of Danville where the coal has of Illinois: Illinois State Geological Survey Illinois Minerals 124, 44 p.

been mined by both surface and under-	Fig. 4 Pennsylvanian Stratigraphic Column						umn
ground methods. Except for mines in east-central Illinois,	eries	Fm.	Graphic				Eastern and Southern
	Se	F	Column		Members and Beds	Members and Beds	Members and Beds
				Trivoli Sandstone Scottville Limestone Athensville Coal (SW)		Trivoli Sandstone	Trivoli Sandstone
						Exline Limestone	
most large surface			XXX XXX				
mines recover the	es		***		ke Creek Coal nd Creek Coal	Lonsdale Limestone	West Franklin Limestone
Danville Coal only as	esmoinesian	Shelburn		Gin	nlet Sandstone	Gimlet Sandstone	
part of their opera-				Ro L	ock Branch (SW)/ DeGraff (S) Coal		
tion to remove over-				Pia	sa Limestone	Farmington Shale	
					— Danville Coal — Galum Limestone	Danville Coal	Danville Coal
burden to mine the				_	— Allenby Coal		
underlying Herrin				Bar	nkston Fork Limestone		Bankston Fork Limestone
Coal. In many cases,				An	vil Rock Sandstone	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstone
the Danville seam	-				Conant Limestone	Davison Share	Conant Limestone Jamestown Coal
has been considered					Brereton Limestone	Brereton Limestone	Brereton Limestone
		ale		_	—Anna Shale Energy Shale	Anna Shale	Anna Shale
to be too thin or too		Carbondale	**************************************		Herrin Coal	Herrin Coal Spring Lake Coal Bed	Herrin Coal
poor in quality to jus-		arbo				Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone	
tify recovery and was		Ü	XXXXXXX	Bri	ar Hill Coal		Briar Hill Coal
simply discarded in							

the spoil pile with other rock overburden. (Modified from ISGS Pub. IM 124, Korose, et al) - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.

700 to 800 ft 600 to 700 ft 500 to 600 ft 400 to 500 ft 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

Coal Elevation

800 to 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.

Disclaimer

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