ILLINOIS AT URBANA-CHAMPAIGN Institute of Natural Resource Sustainability William W. Shilts, Executive Director ILLINOIS STATE GEOLOGICAL SURVEY E. Donald McKay III, Interim Director

Danville Coal Elevation LOGAN

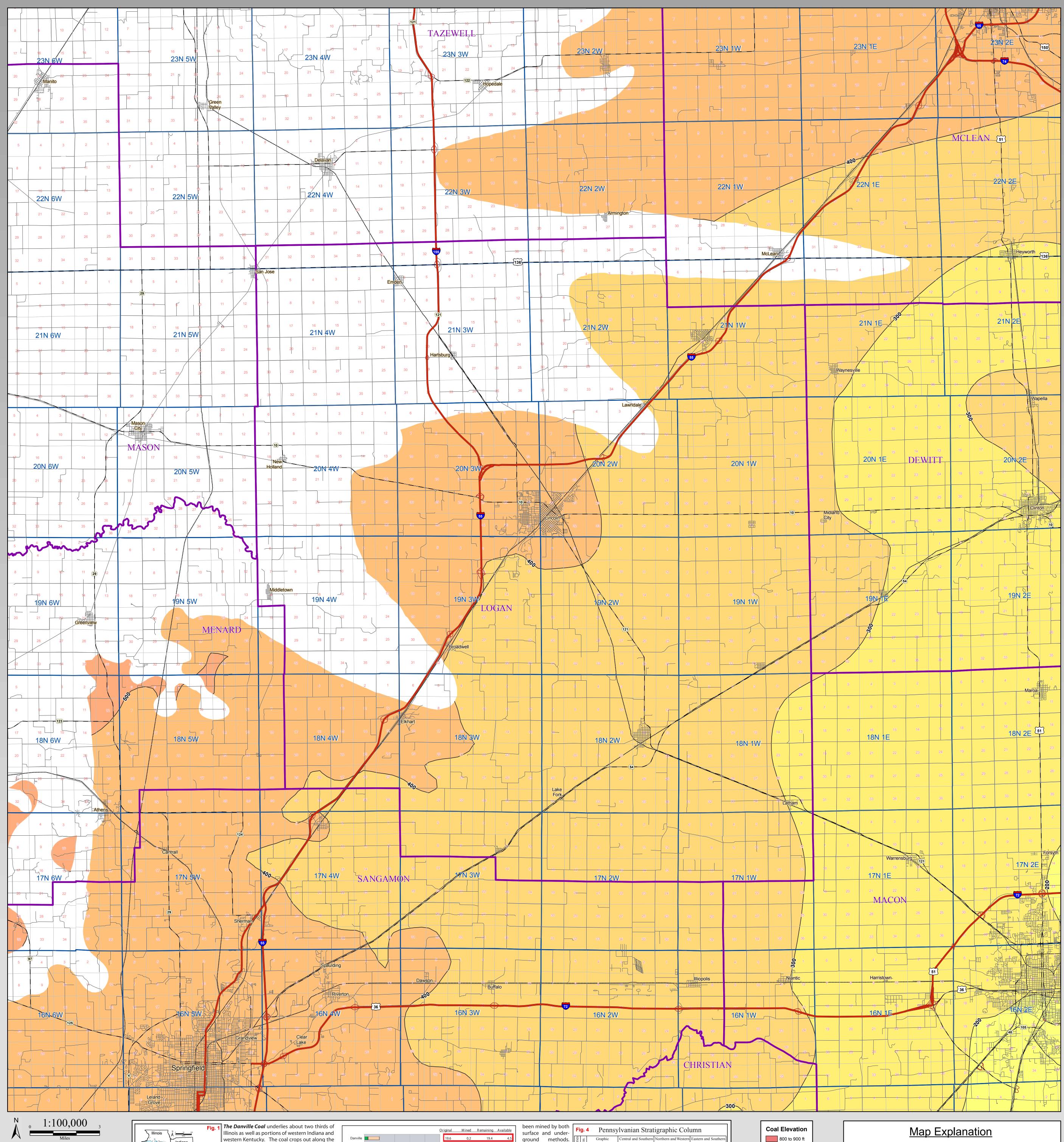
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

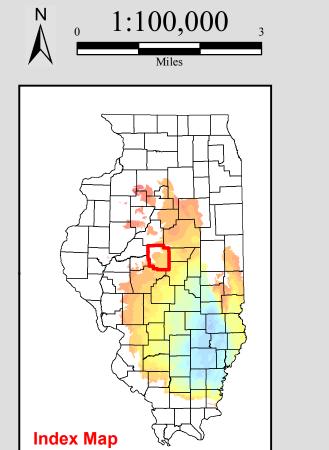
Map construction: November 03, 2009

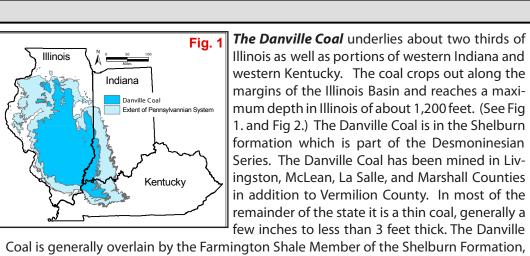
This product is under review and may not meet the

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

For more information contact: Institute of Natural Resource Sustainablity Illinois State Geological Survey 615 East Peabody Drive Champaign, Illinois 61820-6964 County (217) 333-4747 http://www.isgs.illinois.edu TAZEWELI 23N 3W 23N 4W 23N 5W







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 kins, 1968 - B95). (See Fig 4.) The original resource of Dan-

						<u>Origin</u>	nal	Mined	R emaining	Availabl
Danville						19.	.6	0.2	19.4	4.
Jamestown						3.	.6	0	3.6	0.9
Herrin						88.	.5	9.4	79.0	51.
Springfield						65.	.1	2.2	63.0	27.
Colchester						19.	.0	0.5	18.5	1.
Dekoven						6.	.0	0.1	5.9	0.3
Davis			Availa	able w/ potenti	al restr.	9.	.6	0.1	9.5	4.
Seelyville				icted or m		9.	.7	0	9.7	6.
	0 20	40) 6	0 8	0	100	()	All number	s in Billions of	Tons)
Fig. 3		billi	ons of to	ns		221.	.1	12.5	208.6	96.
۸ اممنا	nnrovin	م داهه د	220/ 24	ا م ماد	اممانما	Dami	ء اانہ	Caaliiai		Г h:II:

relatively thick underclay. At mined. Approximately 23% of the original Danville Coal resources, 4.5 billion the type locality in Vermillion tons, are considered available for mining. (See Fig 3.) Available means that to be too this county, the Danville Coal is 6 the surface land-use and geologic conditions related to mining of the deposit poor in quali feet thick and occurs 20 feet (e.g. thickness, depth, in-place tonnage, stability of bedrock overburden) are 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							
ground methods.	eries	Fm.	Graphic		Northern and Western			
Except for mines in	Š		Column	Members and Beds Trivoli Sandstone	Members and Beds Trivoli Sandstone	Members and Beds Trivoli Sandstone		
east-central Illinois, most large surface			XXX XXX	Scottville Limestone Athensville Coal (SW)	Exline Limestone	A		
mines recover the Danville Coal only as	Series		***	Lake Creek Coal Pond Creek Coal Gimlet Sandstone	Lonsdale Limestone Gimlet Sandstone	West Franklin Limestone		
part of their opera-		ıı	XXXXXX XXX	Rock Branch (SW)/ DeGraff (S) Coal				
tion to remove over- burden to mine the	esmoinesian	Shelburn	×××××××××××××××××××××××××××××××××××××××	Piasa Limestone Danville Coal Galum Limestone	Farmington Shale Danville Coal	Danville Coal		
underlying Herrin	De			—— Allenby Coal Bankston Fork Limestone		Bankston Fork Limestone		
Coal. In many cases,			XXXX	Anvil Rock Sandstone Conant Limestone	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstone — Conant Limestone		
the Danville seam has been considered		e.		Jamestown Coal Brereton Limestone Anna Shale	Brereton Limestone Anna Shale	— Jamestown Coal Brereton Limestone Anna Shale		
to be too thin or too poor in quality to jus-		arbondale	***************************************	Energy Shale Herrin Coal	Herrin Coal Spring Lake Coal Bed Big Creek Sandstone	Herrin Coal		
tify recovery and was		Carl	TVVVVVV	Briar Hill Coal	Big Creek Sandstone Vermillionville Sandstone	Briar Hill Coal		

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

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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