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Danville Coal Elevation DOUGLAS County

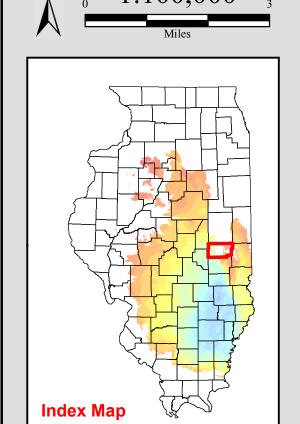
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

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

Urbana 19N 10E 19N 14W 19N 7E CHAMPAIGN WERMILION 778N 13W 18N 18N 9E 18N 7E 18N 6E PIATT 17N 13W 17N 14W 17N 10E 17N 17N 6E 16N 13W 16N 1<mark>4W</mark> 16N 10E 16N 8E 16N 7E DOUGLAS Metcalf_ Camargo <u> 15N_14W</u> 15N 6E 15N¹⁵10E 1615N 9€ EDGAR 14N 14W 14N 10E 14N 6E MOULTRIE 13N 1 4W -13N 10E 3N 8E COLES Ashmor 12N 7E 12N 6E



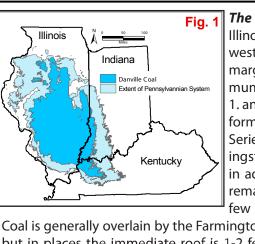
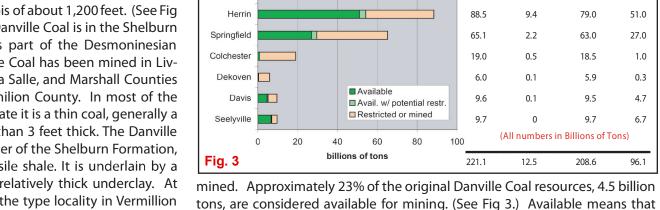


Fig. 1 The Danville Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,200 feet. (See Fig 1. and Fig 2.) The Danville Coal is in the Shelburn 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

The original resource of Dan-

Coal is generally overlain by the Farmington Shale Member of the Shelburn Formation, 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.)



Original Mined Remaining Available

the type locality in Vermillion tons, are considered available for mining. (See Fig 3.) Available means that county, the Danville Coal is 6 the surface land-use and geologic conditions related to mining of the deposit 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.

of which 0.2 billion have been mining was in east-central Illinois near the city of Danville where the coal has

been mined by both surface and under- ground methods. Except for mines in east-central Illinois, most large surface	Fig. 4		4 Penns	Pennsylvanian Stratigraphic Column			
	Series	Fm.	Graphic Column	Central and Southern Members and Beds	Northern and Western Members and Beds	Eastern and Southern Members and Beds	
	Series		XXX XXX	Trivoli Sandstone — Scottville Limestone — Athensville Coal (SW)	Trivoli Sandstone Exline Limestone	Trivoli Sandstone	
mines recover the Danville Coal only as part of their opera-		Shelburn	7777 777 2 77	Lake Creek Coal Pond Creek Coal Gimlet Sandstone Rock Branch (SW)/ DeGraff (S) Coal	Lonsdale Limestone Gimlet Sandstone	West Franklin Limestone	
tion to remove over- burden to mine the	Desmoinesian		×××××××××××××××××××××××××××××××××××××××	Piasa Limestone Danville Coal Galum Limestone Allenby Coal	Farmington Shale Danville Coal	Danville Coal	
underlying Herrin Coal. In many cases, the Danville seam	ses, am red too		XXX	Bankston Fork Limestone Anvil Rock Sandstone Conant Limestone	Copperas Creek Sandstone Lawson Shale	Bankston Fork Limestone Anvil Rock Sandstone Conant Limestone	
has been considered to be too thin or too		dale		Jamestown Coal Brereton Limestone Anna Shale Energy Shale	Brereton Limestone Anna Shale	Brereton Limestone Anna Shale	
poor in quality to jus- tify recovery and was		Carbondale	*******	Herrin Coal	Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone	Herrin Coal Briar Hill Coal	
simply discarded in the spoil pile with other	er r	ock	overburden	. (Modified from	ISGS Pub. IM 124	, Korose, et al)	

- Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p. ville Coal in the State of Illi- **T**he 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

of Illinois: Illinois State Geological Survey Illinois Minerals 124, 44 p.

ity of the Danville, Jamestown, Dekoven, Davis, and Seelyville Coals for mining in Selected Areas

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

The Illinois State Geological Survey and the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

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