Institute of Natural Resource Sustainablity

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## Danville Coal Elevation MARION County

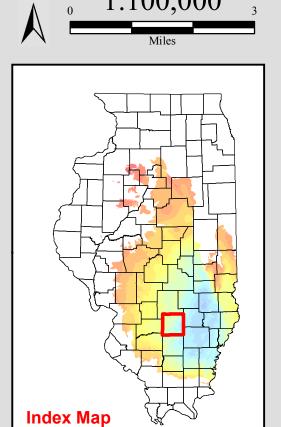
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

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

6N 5 6N 4E 6N 1W EFFINGHAM Mulberry FAYETTE 15N 1W1 5N 2W 5N 6E 5N 3E 5N 2E 45 Hookdale 51 4N 5E 4N 4E → 4N 2E 3N 5E 3N 4E Boulder luka Sandoval 2N-2W-2N 3E 2N 4E -1N-2W WASHINGTON WAYNE 1S 2W 1S 6E 1\$ 5E 1S 4E 1S 2E **JEFFERSON** 51 2S 2W 2S 5E 2S 6E 2S 1W 2S 1E



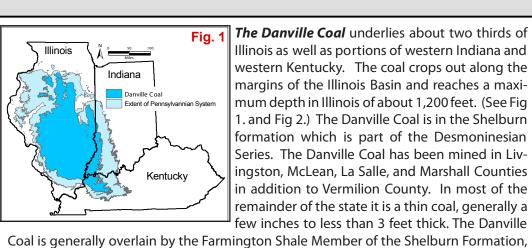
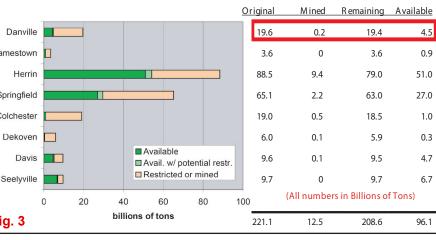


Fig. 1 The Danville Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,200 feet. (See Fig 1. and Fig 2.) The Danville Coal is in the Shelburn 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 kins, 1968 - B95). (See Fig 4.) The original resource of Dan-



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 county, the Danville Coal is 6 the surface land-use and geologic conditions related to mining of the deposit poor in quality to jusfeet 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 nois 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.

Fig. 4 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
Desmoinesian Series	Shelbur	XXX XXX XX	Trivoli Sandstone  Scottville Limestone Athensville Coal (SW)	Trivoli Sandstone Exline Limestone	Trivoli Sandstone
		Lake Creek Coal Pond Creek Coal Gimlet Sandstone Rock Branch (SW) DeGraff (S) Coal Piasa Limestone Danville Coal Galum Limestone Allenby Coal	Lonsdale Limestone Gimlet Sandstone	West Franklin Limestone	
			Danville Coal Galum Limestone Allenby Coal	Farmington Shale Danville Coal	Danville Coal
			Bankston Fork Limestone  Anvil Rock Sandstone  Conant Limestone  Jamestown Coal	Copperas Creek Sandstone Lawson Shale	Bankston Fork Limestone  Anvil Rock Sandstone  — Conant Limestone  — Jamestown Coal
			Brereton Limestone Anna Shale Energy Shale	Brereton Limestone Anna Shale	Brereton Limestone Anna Shale
	Carbondale	***************************************	Herrin Coal Briar Hill 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 rock overburden. (Modified from ISGS Pub. IM 124, Korose, et al) - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p. - Christopher P. Korose, Colin G. Treworgy, Russell J. Jacobson, and Scott D. Elrick, 2002, Availabil-

been mined by both

surface and under-

Except for mines in

east-central Illinois,

most large surface

mines recover the

Danville Coal only as

part of their opera-

tion to remove over-

burden to mine the

underlying Herrin

Coal. In many cases,

the Danville seam

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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