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http://www.isgs.illinois.edu

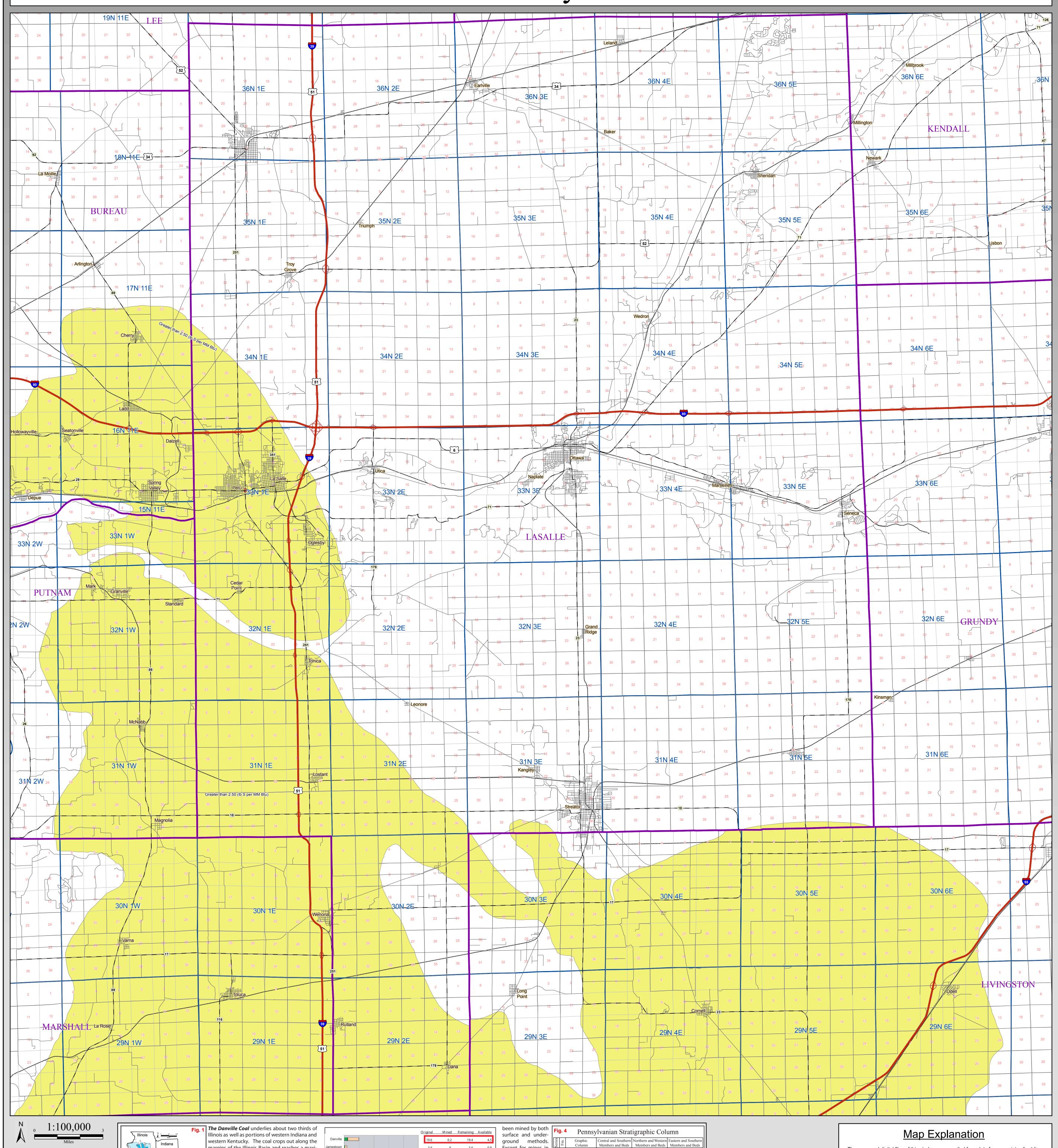
## Danville Coal Sulfur LASALLE County

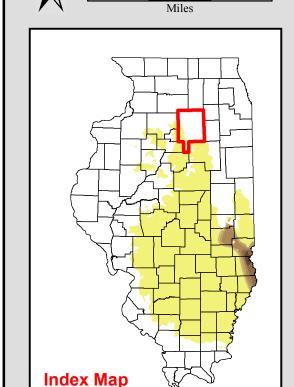
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

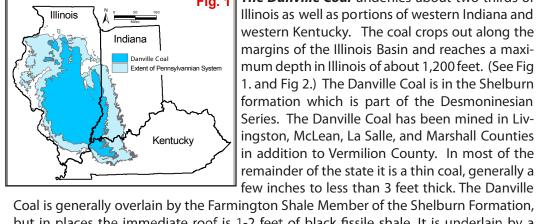
Map construction: October 29, 2009

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







North-south cross section of the Pennsylvanian System in Illinois

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 n addition to Vermilion County. In most of the remainder of the state it is a thin coal, generally a

nois totals 19.6 billion tons,

of which 0.2 billion have been

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 above the Herrin Coal. (Hop-

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 tify recovery and was kins, 1968 - B95). (See Fig 4.) occur in thicknesses greater than 66 inches. The original resource of Dan-

221.1 12.5 208.6 96.1 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

Avail. w/ potential restr

ville Coal in the State of Illi- The Danville Coal has been mined in Illinois for over 100 years, but only about

ground

Except for mines in

east-central Illinois,

most large surface mines recover the \*\*\* Lonsdale Limestone Gimlet Sandstone Danville Coal only as Rock Branch (SW)/
DeGraff (S) Coal part of their opera-Piasa Limestone Farmington Shale Danville Coal tion to remove overburden to mine the underlying Herrin Bankston Fork Limestone Coal. In many cases, the Danville seam has been considered to be too thin or too 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-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 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.

**Coal Sulfur** 

Danville Coal

ankston Fork Limest

Anna Shale

Herrin Coal

Less than or equal to 0.40 (lb S per MM Btu)

0.41 to 0.60 (lb S per MM Btu)

0.61 to 0.83 (lb S per MM Btu)

0.84 to 1.24 (lb S per MM Btu)

1.25 to 1.67 (lb S per MM Btu)

1.68 to 2.50 (lb S per MM Btu)

Greater than 2.50 (lb S per MM Btu)

## 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. Data included in this map are suitable for use at a scale of 1:100,000.

## **Disclaimer**

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