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Danville Coal Sulfur MORGAN County

County Coal Map Series Andrew Louchios, Scott Elrick,

Map construction: October 29, 2009

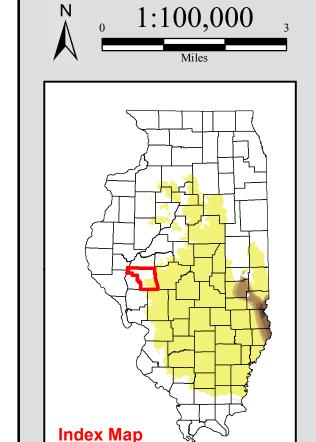
Chris Korose, David Morse

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:

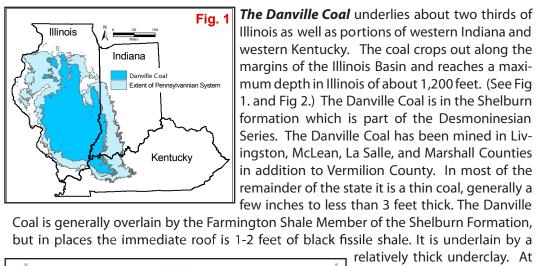
http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml

SCHUYLER 18N 11W 18N 10W 18N 9W 18N 8W 18N 7W 1S 2W BROWN 17N 12W 17N−11W 2S 1W 17N 10W 17N 9W 17N BW 17N 7W 6 2S 2W Ashland Literberry 16N 11W 16N 10W 16N 9W 16N 7W 16N 16N-13W-3S 2W SANGAMON Chapin MORGAN-15N 43W 15N 12₩ 15N 11W 15N BW 15N 7W Exeter South
Jacksonville Lynnville 14N 14W Loami 14N 13W 14N 12W 14N 8W 14N 11W 14N 7W 14N 10W SCOTA 5S 2W Waverly 13N 113W 13N 8W Glasgow



CALHOUN

14W



11N_13W

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 I. 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

12N 12W

11N 12W

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

The original resource of Dan-

Original Mined Remaining Available ■ Avail. w/ potential restr 12.5 208.6 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 thin or too

GREENE

12N 11W

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

mining was in east-central Illinois near the city of Danville where the coal has

been mined by both Fig. 4 Pennsylvanian Stratigraphic Column surface and under-Graphic Column Column Members and Beds Members and Beds Members and Beds Members and Beds ground methods. Except for mines in east-central Illinois, most large surface mines recover the Lonsdale Limestone Danville Coal only as Gimlet Sandstone Rock Branch (SW)/ DeGraff (S) Coal part of their opera-Farmington Shale Danville Coal tion to remove overburden to mine the Allenby Coal underlying Herrin Anvil Rock Sandstone Coal. In many cases, Anvil Rock Sandstone the Danville seam Herrin Coal Spring Lake Coal Bed Big Creek Sandstone rmillionville Sandstone Herrin Coal poor in quality to justify recovery and was 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, 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 Illinois: Illinois State Geological Survey Illinois Minerals 124, 44 p.

Map Explanation

11N 8W

12N 8W

MACOUPIN

|11N 9₩

Coal Sulfur

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)

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.

12N 7W

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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