ILLINOIS AT URBANA-CHAMPAIGN Institute of Natural Resource Sustainability William W. Shilts, Executive Director **ILLINOIS STATE GEOLOGICAL SURVEY** E. Donald McKay III, Interim Director For more information contact: Institute of Natural Resource Sustainablity Illinois State Geological Survey 615 East Peabody Drive Champaign, Illinois 61820-6964

(217) 333-4747

http://www.isgs.illinois.edu

Danville Coal Sulfur PUTNAM County

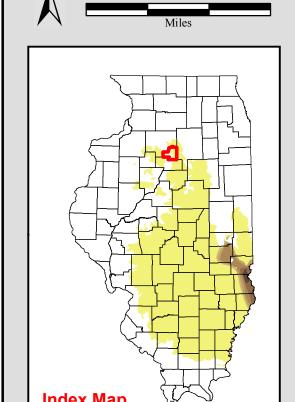
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

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

Ohio 18N 7E 18N 10E 35N 3E 35N 2E 17N⁵11Ė 17N 7E 17N 8E 17N 9E Cherry 34N 3 34N 2E 34N 1E Princeton 16N 9E 16N 7E Wyanet 16N 8E Hollowayville Seatonville LASALLE 33N 33N 2E Depue 33N 1W 33N 2W 15N 8E Granville Standard 532N 2W 32N 3 32N 2E 32N 1E 32N 1W 14N 9E 14N 7E 14N 8E PUTNAM Leonore 14N_{10E} Bradford 31N 2E 31N 1W 31N 1E Lostani 31N 2W 2 13N 10E Magnolia 13N 7E 13N 9E 13N 8E 30N 1W MARSHALL STARK 12N 7E 12N 9E 29N 1E 29N 2W 11N 7E 11N 8E Washburn PEORIA **WOODFORI** 28N 2E 28N 1E 28N 1W 28N 2W



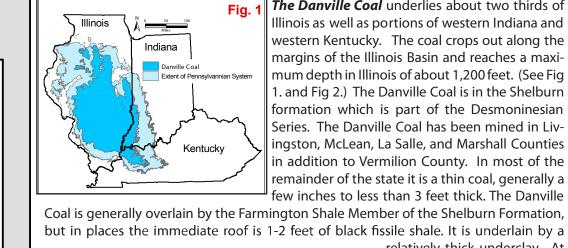


Fig. 1 The Danville Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,200 feet. (See Fig I. and Fig 2.) The Danville Coal is in the Shelburn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

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.)

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 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. The original resource of Dan-

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

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

Original Mined Remaining Available ■ Avail. w/ potential restr

been mined by both Fig. 4 Pennsylvanian Stratigraphic Column surface and under-Graphic Central and Southern Northern and Western Eastern and Southern 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-Piasa Limestone Farmington Shale Danville Coal tion to remove overburden to mine the — Allenby Coal underlying Herrin Coal. In many cases, Anvil Rock Sandstone 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.

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.

Map Explanation

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. © 2009 Board of Trustees of the University of Illinois. All rights reserved.