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Danville Coal Elevation PUTNAM County

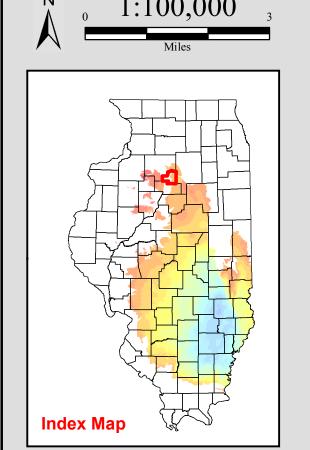
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

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

Ohio 18N 7E 18N 10E 35N 3E 35N 2E 17N⁵11Ė 17N 7E 17N 8E 17N 9E 34N 3 34N 2E 34N 1E 16N 7E 34 Wyanet 16N 8E Princeton 16 N 9E 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 14N_{10E} Bradford 1N 2E 31N 1W 31N 1E Kangley 31N 2W 2 13N 10E Magnolia 13N 7E 13N 9E 13N 8E 30N 1W MARSHALL STARK 12N 7E 12N 9E Rutland 29N 1E 29N 2W LIVINGSTON 11N 7E 11N 8E PEORIA -W-0-0-DFOR-D-28N 2E 28N 1E 28N 1W 28N 2W



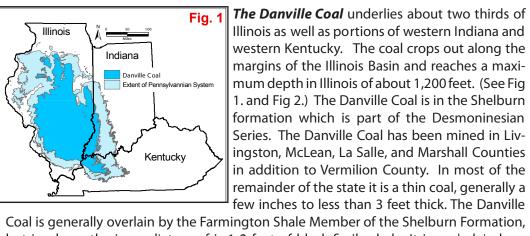


Fig. 1 The Danville Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,200 feet. (See Fig . and Fig 2.) The Danville Coal is in the Shelburn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

■ Avail. w/ potential restr. 12.5

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 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 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.

nois totals 19.6 billion tons, 1% of the original resource has been depleted. The most extensive area of

of which 0.2 billion have been 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

Piasa Limestone Farmington Shale Danville Coal tion to remove overburden to mine the Allenby Coal Bankston Fork Limestone Coal. In many cases, the Danville seam Anna Shale Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Herrin Coal tify recovery and was simply discarded in the spoil pile with other rock overburden. (Modified from ISGS Pub. IM 124, Korose, et al)

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

been mined by both

surface and under-

ground methods.

Except for mines in

east-central Illinois,

most large surface

mines recover the

Danville Coal only as

part of their opera-

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

Rock Branch (SW)/ DeGraff (S) Coal

Fig. 4 Pennsylvanian Stratigraphic Column

Central and Southern Northern and Western Eastern and Southern Members and Beds Members and Beds

Lonsdale Limestone

Gimlet Sandstone

Coal Elevation 800 to 900 ft 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

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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