Institute of Natural Resource Sustainablity

Illinois State Geological Survey 615 East Peabody Drive Champaign, Illinois 61820-6964

For more information contact:

http://www.isgs.illinois.edu

(217) 333-4747

Danville Coal Elevation CHRISTIAN

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

Map construction: November 03, 2009

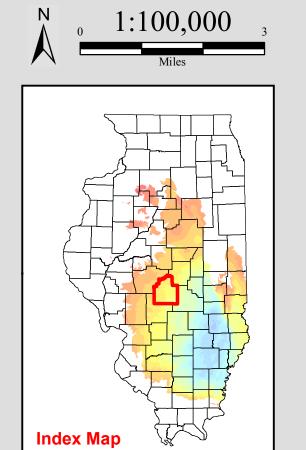
This product is under review and may not meet the standards of the Illinois State Geological Survey.

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

County

LOGAN 17N12E 17N 4W 17N 2W 17N 1W Illiopolis 16N 3E 16N 3W <u>16N</u> 2W 16N 1W MACON 15N 2E 15N 3E 15N 1E 15N 4W 14N 4W 14N 1W 14N 1E Edinburg 14N 3E 14N 3W Stonington ĆĤRISTIAN. 13N 2W 13N 1W 13N 1E 13N 3W 13N 3E 12N 2W 12N-1W 12N 4W 12N 3W 12N 1E 12N/2E 11N 2W 11N 3E 11N 3W 11N #W 11N 1W 11N 11N 2E Waggoner **SHELBY** Lakewood 10N 3E 10N 1W 10N 2W 10N 4W 10N 3W 10N 2E MONTGOMERY Oconee



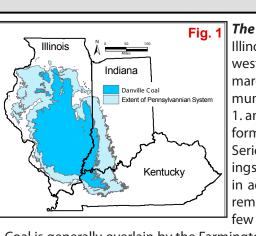
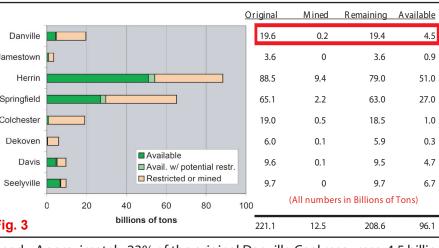


Fig. 1 The Danville Coal underlies about two thirds of Illinois as well as portions of western Indiana and western Kentucky. The coal crops out along the margins of the Illinois Basin and reaches a maximum depth in Illinois of about 1,200 feet. (See Fig 1. and Fig 2.) The Danville Coal is in the Shelburn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

The original resource of Dan-

few inches to less than 3 feet thick. The Danville 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 kins, 1968 - B95). (See Fig 4.)



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 just 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 - 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 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.

been mined by both surface and under- ground methods. Except for mines in	Fig. 4 Pennsylvanian Stratigraphic Column				
	Series	Graphic Column	Central and Southern Members and Beds	Northern and Western Members and Beds	Eastern and Southern Members and Beds
east-central Illinois, most large surface		***	Trivoli Sandstone Scottville Limestone Athensville Coal (SW)	Trivoli Sandstone Exline Limestone	Trivoli Sandstone
mines recover the Danville Coal only as part of their opera-	an Series	E XXXXXX XXX	Lake Creek Coal Pond Creek Coal Gimlet Sandstone Rock Branch (SW)/ DeGraff (S) Coal	Lonsdale Limestone Gimlet Sandstone	West Franklin Limestone
tion to remove over- burden to mine the	Desmoinesian	wxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Piasa Limestone Danville Coal Galum Limestone Allenby Coal	Farmington Shale Danville Coal	Danville Coal
underlying Herrin Coal. In many cases, the Danville seam	Carbondala	777	Anvil Rock Sandstone Conant Limestone Jamestown Coal	Copperas Creek Sandstone Lawson Shale	Anvil Rock Sandstone — Conant Limestone — Jamestown Coal
has been considered to be too thin or too		ondale 0.00000000000000000000000000000000000	Brereton Limestone Anna Shale Energy Shale Herrin Coal	Brereton Limestone Anna Shale Herrin Coal Spring Lake Coal Bed	Brereton Limestone Anna Shale Herrin Coal
poor in quality to jus- tify recovery and was		Carbon Ca	Briar Hill Coal	Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone	Briar Hill Coal
simply discarded in					

simply discarded 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.

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

700 to 800 ft

600 to 700 ft

500 to 600 ft

400 to 500 ft

300 to 400 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.

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