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## Danville Coal Sulfur GREENE County

County Coal Map Series

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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: <a href="http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml">http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml</a>

14N 13W 14N 12W 14N 11W 14N 8W **MORGAN** 5S 2W SCOTT 13N 13W 13N 12W 13N 11W 13N 10W 13N 9W 13N 8W 6S 3W 6S 2W 12N 10W 12N 11W \_12N 9W 7S 2W 1\1N\_13W 11N 12W |11N 9₩-11N 8W 11N 10W GREENE 14W 8\$ 2W 10N 11W 10N 9W 10N 12W 2010N 13W 9\$ 2W 9N 12W 9N 10W 9N 8W 9N 13W 9N 9W CALHOUN 10S-2W 8N \14W 8N 13W \8N/11W 8N 8W 11S 2W **JERSEY** 7N-12W 7N 10W 7N 8W 7N 9W 12S 2W MACOUPIN 6N 12W MADISON 12**Ş** 1V Fig. 1 The Danville Coal underlies about two thirds of been mined by both **Map Explanation** Fig. 4 Pennsylvanian Stratigraphic Column Original Mined Remaining Available Illinois as well as portions of western Indiana and surface and under-Graphic Column Column Members and Beds Members and Beds Members and Beds Members and Beds Indiana western Kentucky. The coal crops out along the ground methods. margins of the Illinois Basin and reaches a maxi-Except for mines in The maps and digital files of this study were compiled from data from a variety of public

east-central Illinois,

most large surface

mines recover the

Danville Coal only as

part of their opera-

tion to remove over-

burden to mine the

underlying Herrin

Coal. In many cases,

the Danville seam

poor in quality to jus-

tify recovery and was

simply discarded in

■ Avail. w/ potential restr

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 re-

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

mined. Approximately 23% of the original Danville Coal resources, 4.5 billion

sources, 4 billion tons occur in coal 42 to 66 inches thick and 0.4 billion tons

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

12.5

208.6

nois 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

mum 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 Liv-

ingston, 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

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

The original resource of Dan-

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

<u>Disclaimer</u>

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

and private sources and have varying degrees of completeness and accuracy. They

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

present interpretations of the geology of the area and are based on available data.

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

These data are not intended for use in site-specific screening or decision-making.

conceptual model of the geology of the area on which to base further work.

**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)

Lonsdale Limestone

Gimlet Sandstone

Farmington Shale Danville Coal

Herrin Coal Spring Lake Coal Bed Big Creek Sandstone rmillionville Sandstone Herrin Coal

Rock Branch (SW)/ DeGraff (S) Coal

— Allenby Coal

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.

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

- Christopher P. Korose, Colin G. Treworgy, Russell J. Jacobson, and Scott D. Elrick, 2002, Availabil-

Piasa Limestone

basis of the information presented here.
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