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Colchester Coal Thickness BOND County

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

Map construction: October 28, 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

Data included in this map are suitable for use at a scale of 1:100,000.

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basis of the information presented here.

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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

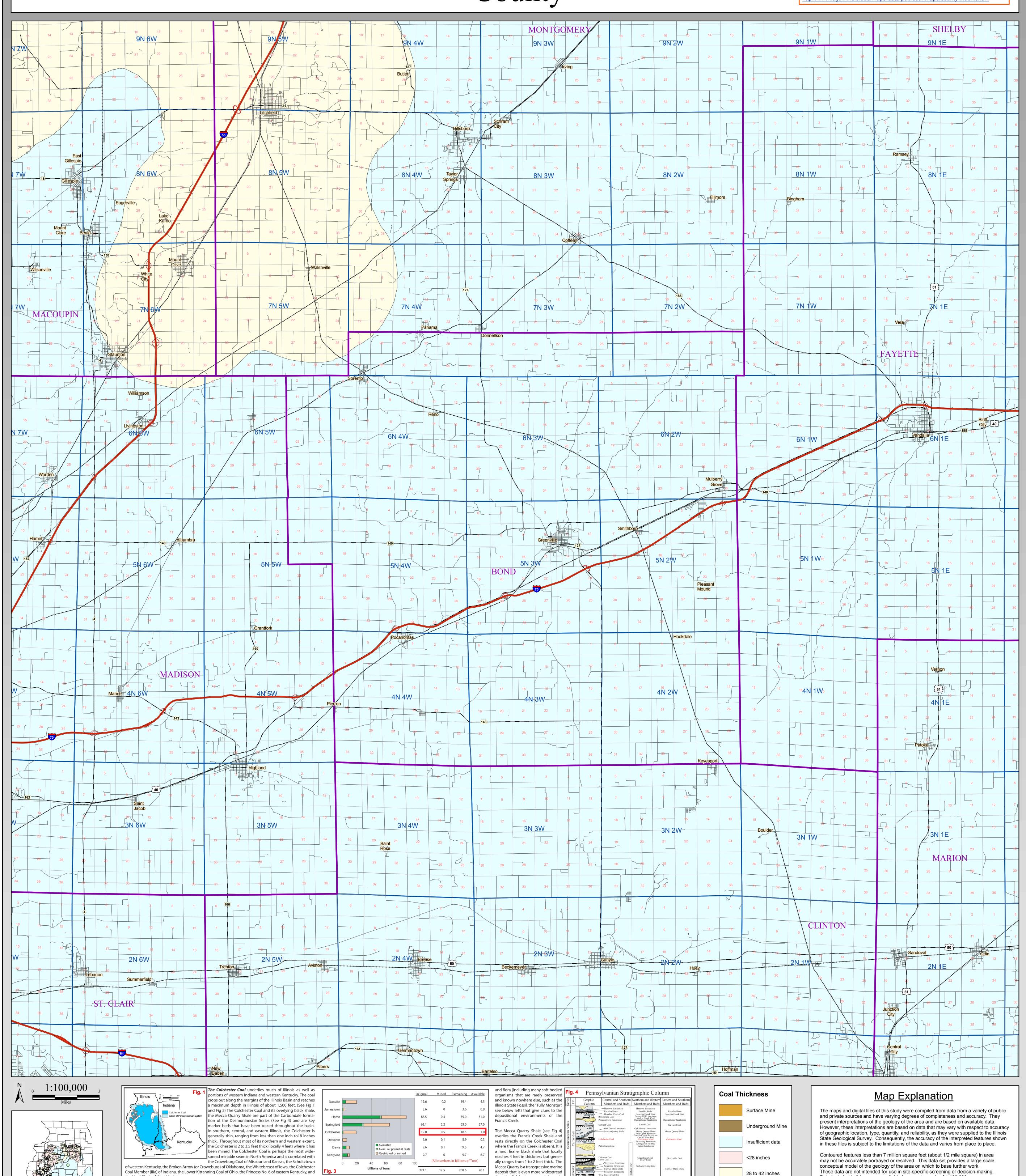
data set and accept no liability for the consequences of decisions made by others on the

42 to 66 inches

>66 inches

Channel

Split Coal



evations that resulted from structural uplift and its effect on the paleoenvironment of the local than the Colchester, present through-

patterns of the Colchester show a peat formation and that the deeper, wetter synclinal troughs accumulated more peat than the states and is a stratigraphic marker

ening to as much as 3 or 4 feet in basinal Francis Creek Shale, a medium gray, silty shale that locally exceeds 80 feet thick. The Francis

troughs. There is significant variation Creek forms a large clastic wedge that extends across the northern part of the coalfield in the flora of the Colchester Coal on and thins out to the west and south in the western part of Illinois State Fossil - "Tully Monster"

strong relationship to geologic struc- higher, dryer anticlinal crests.

top of the anticlinal crests versus that the basin. It is best known for the famous Mazon Creek

found in the troughs. The flora varia- sideritic concretions found in the northeastern part

tion is interpreted as drier conditions of the basin and in Fulton County. These concretions

stemming from higher topographic el- have yielded a remarkably well preserved fossil fauna

tures thinning to 1 to 2 feet along the

North-south cross section of the Pennsylvanian System in Illinois

In much of northern Illinois, thickness Colchester swamp. This finding implies that these geologic structures were developing during out most of the basin and adjacent Colchester shows a contract of the Colchester shows a contract of the colchester shows a contract of the basin and adjacent Colchester shows a contrac

LaSalle Anticlinorium crests and thick- Directly overlying the Colchester Coal in many parts of western and northern Illinois is the The original resource of the Colchester coal in the State of Illinois totals 19 billion tons, 0.5 billion of which has

because of its distinctive low resistivity signature on electric logs and very high gamma-ray log readings.

(All text modified from ISGS Pub. IM 127, Korose, et.al)

References:

been mined. Approximately 5% of the original resources, 0.5 billion tons, were considered available for mining

- Christopher P. Korose, Scott D. Elrick, and Russell J. Jacobson, 2003, Availability of the Colchester Coal for mining in

Northern and Western Illinois: Illinois State Geological Survey Illinois Minerals 127, 21 p.