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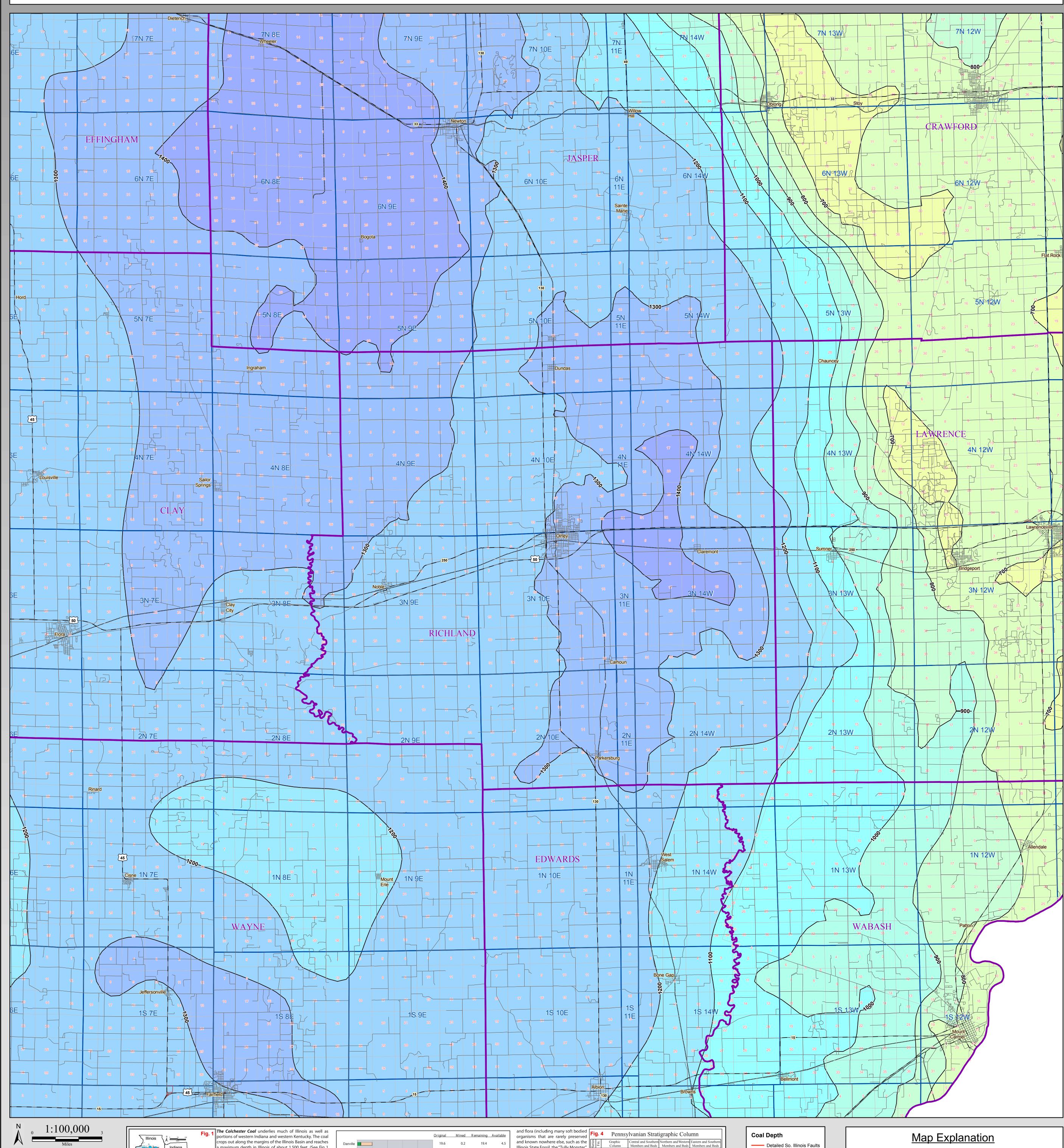
Colchester Coal Depth RICHLAND County

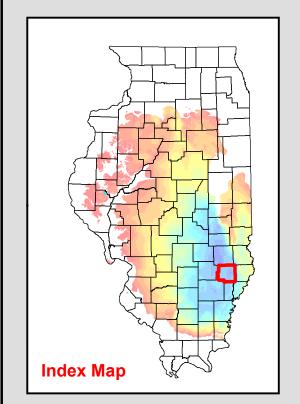
County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

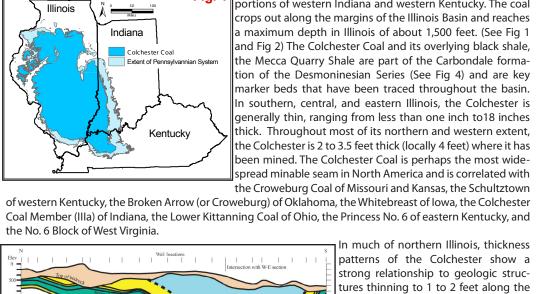
Map construction: October 26, 2009

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

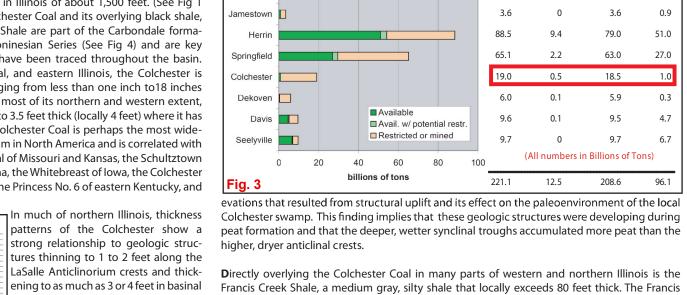
County coal maps and select quadrangle maps available as downloadable PDF files at: http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml







North-south cross section of the Pennsylvanian System in Illinois



troughs. There is significant variation Creek forms a large clastic wedge that extends across the northern part of the coalfield

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

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"

organisms that are rarely preserved	١	g.	- Penn	isylvanian Stra	ugrapnic Con	ımn
and known nowhere else, such as the Illinois State Fossil, the "Tully Monster",	Series	Fm.	Graphic Column	Central and Southern Members and Beds	Northern and Western Members and Beds	
see below left) that give clues to the depositional environments of the Francis Creek.	se		XXXXXXXXX	Hanover Limestone Excello Shale Houchin Creek Coal Roodhouse Coal Pleasantview Sandstone	Hanover Limestone Excello Shale Houchin Creek Coal Brezzy Hill Limestone Kerton Creek Coal Pleasantview Sandstone	Excello Shale Houchin Creek Coal Pleasantview Sandstone
The Mecca Quarry Shale (see Fig 4) overlies the Francis Creek Shale and	esian Seri	dale	xxxx xxxx	Oak Grove Limestone Mecca Quarry Shale	Lowell Coal Oak Grove Limestone Mecca Quarry Shale Jake Creek Sanstone Francis Creek Sandstone	Survant Coal Mecca Quarry Shale
rests directly on the Colchester Coal where the Francis Creek is absent. It is	Desmoinesian	Carbondale	888	Colchester Coal Palzo Sandstone	Cardiff Coal Bed Colchester Coal Browning Sandstone Abingdon Coal Bed Isabel Sandstone	Colchester Coal
a hard, fissile, black shale that locally reaches 4 feet in thickness but generally ranges from 1 to 3 feet thick. The			XXXXXX	Dekoven Coal Davis Coal	Greenbush Coal Wiley Coal	Seelyville Coal
ally ranges from 1 to 2 feet thick. The Mecca Quarry is a transgressive marine deposit that is even more widespread		Tradewater		Vergennes Sandstone Seahorne Limestone Carrier Mills Shale Stonefort Limestone	Seahorne Limestone	Carrier Mills Shale
than the Colchester, present through- out most of the basin and adjacent		Trad	XX XXX XXX XXX XX XXX	Wise Ridge Coal Bed Mt. Rorah Coal Bed	De Long Coal	
states and is a stratigraphic marker because of its distinctive low resistivity The original resource of the Colchester been mined. Approximately 5% of the	r co	al i	ture on elect	of Illinois totals 19	billion tons, 0.5 b	illion of which h
(See Fig 3).		_		•		

- 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.

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

References:

< 100 ft 100 to 200 ft 200 to 300 ft 300 to 400 ft 400 to 500 ft 500 to 600 ft 600 to 700 ft 700 to 800 ft 800 to 900 ft 900 to 1000 ft 1000 to 1100 ft 1100 to 1200 ft 1200 to 1300 ft 1300 to 1400 ft

1400 to 1500 ft

1500 to 1600 ft

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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