I L L I N O I S Institute of Natural Resource Sustainability William W. Shilts, Executive Director ILLINOIS STATE GEOLOGICAL SURVEY E. Donald McKay III, Interim Director For more information contact: Institute of Natural Resource Sustainablity

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

(217) 333-4747

## Colchester Coal Depth HANCOCK County

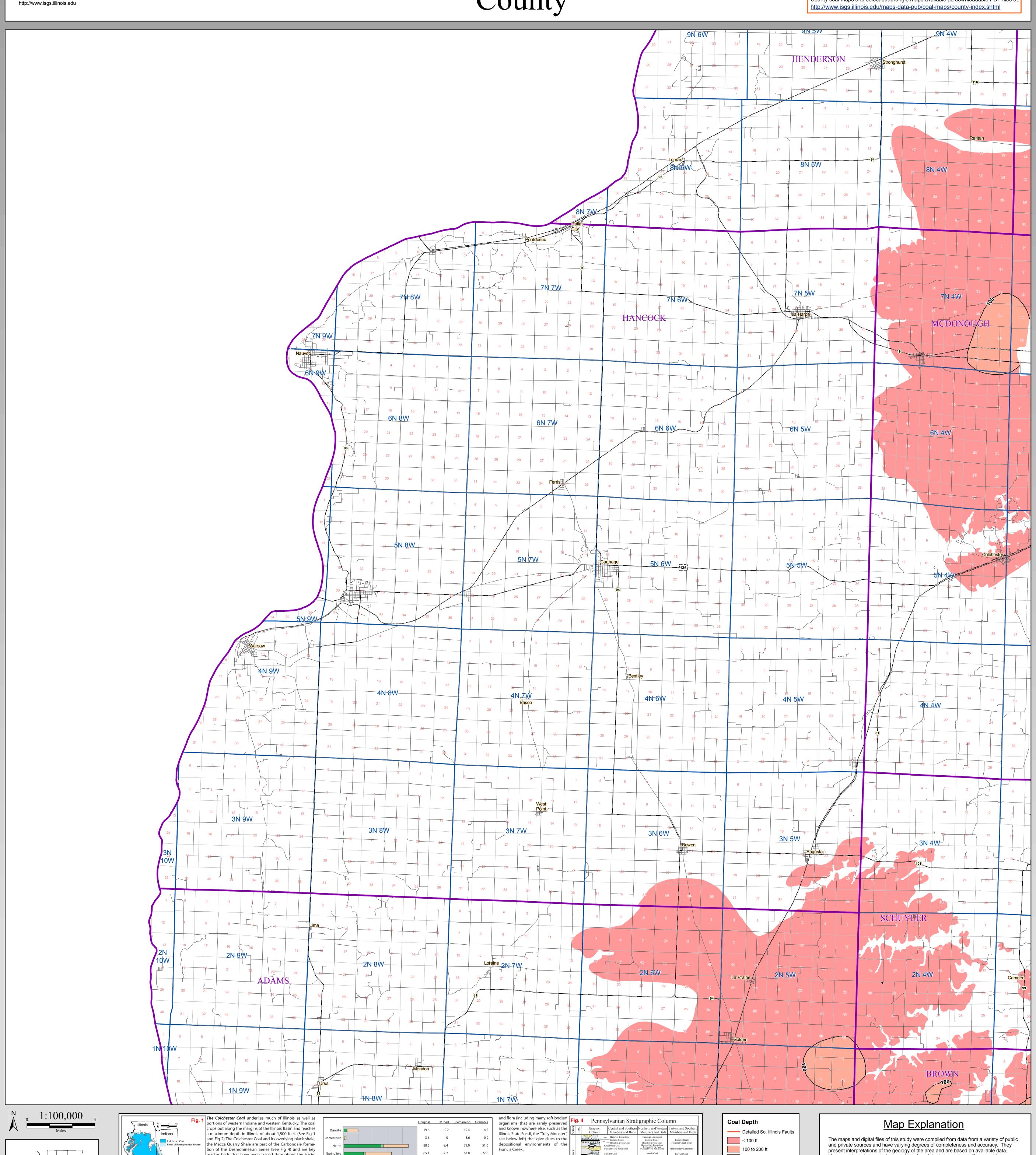
County Coal Map Series Andrew Louchios, Scott Elrick,

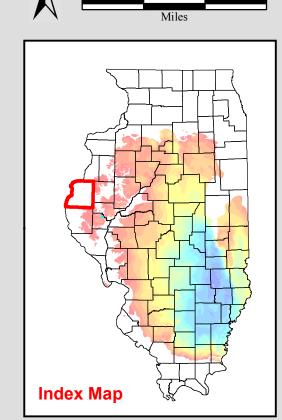
Chris Korose, David Morse

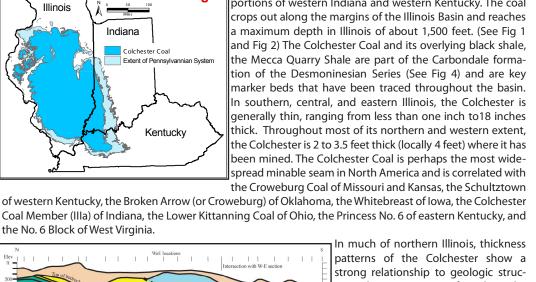
Map construction: October 26, 2009

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

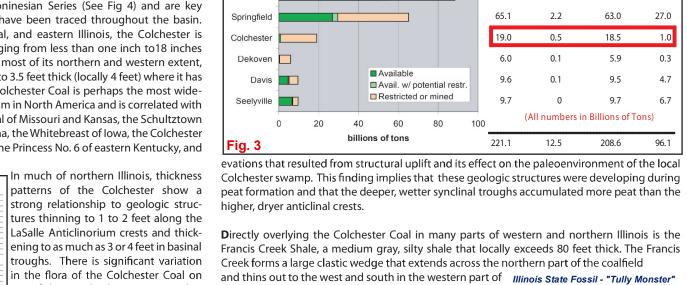
County coal maps and select quadrangle maps available as downloadable PDF files at:







North-south cross section of the Pennsylvanian System in Illinois



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

al	rests directly on the Colchester Coal where the Francis Creek is absent. It is a hard, fissile, black shale that locally reaches 4 feet in thickness but generally ranges from 1 to 2 feet thick. The Mecca Quarry is a transgressive marine deposit that is even more widespread than the Colchester, present through-	Desmo	Tradewater Carb	Dekoven Coal Davis Coal Vergennes Sandstone Seahorne Limestone Carrier Mills Shale Stonefort Limestone Wise Ridge Coal Bed Mt. Rorah Coal Bed	Cheltenham Clay	Browning Sandstone Abingdon Coal Bed Isabel Sandstone  Greenbush Coal Wiley Coal  Seahorne Limestone	Seelyville Coal  Carrier Mills Shale	
g e	out most of the basin and adjacent states and is a stratigraphic marker	ш	1 1					'
c	because of its distinctive low resistivity	sig	nature on elect	ric logs and very h	igl	h gamma-ray lo	g readings.	
e	The original resource of the Colchester							
İS	been mined. Approximately 5% of the (See Fig 3).	ori	ginal resources	, 0.5 billion tons, v	ver	re considered av	ailable for mining	3

The Mecca Quarry Shale (see Fig 4)

References:

overlies the Francis Creek Shale and

900 to 1000 ft 1000 to 1100 ft 1100 to 1200 ft 1200 to 1300 ft 1300 to 1400 ft (All text modified from ISGS Pub. IM 127, Korose, et.al) 1400 to 1500 ft - 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. 1500 to 1600 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

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.