Springfield Coal Elevation SANGAMON County

County Coal Map Series

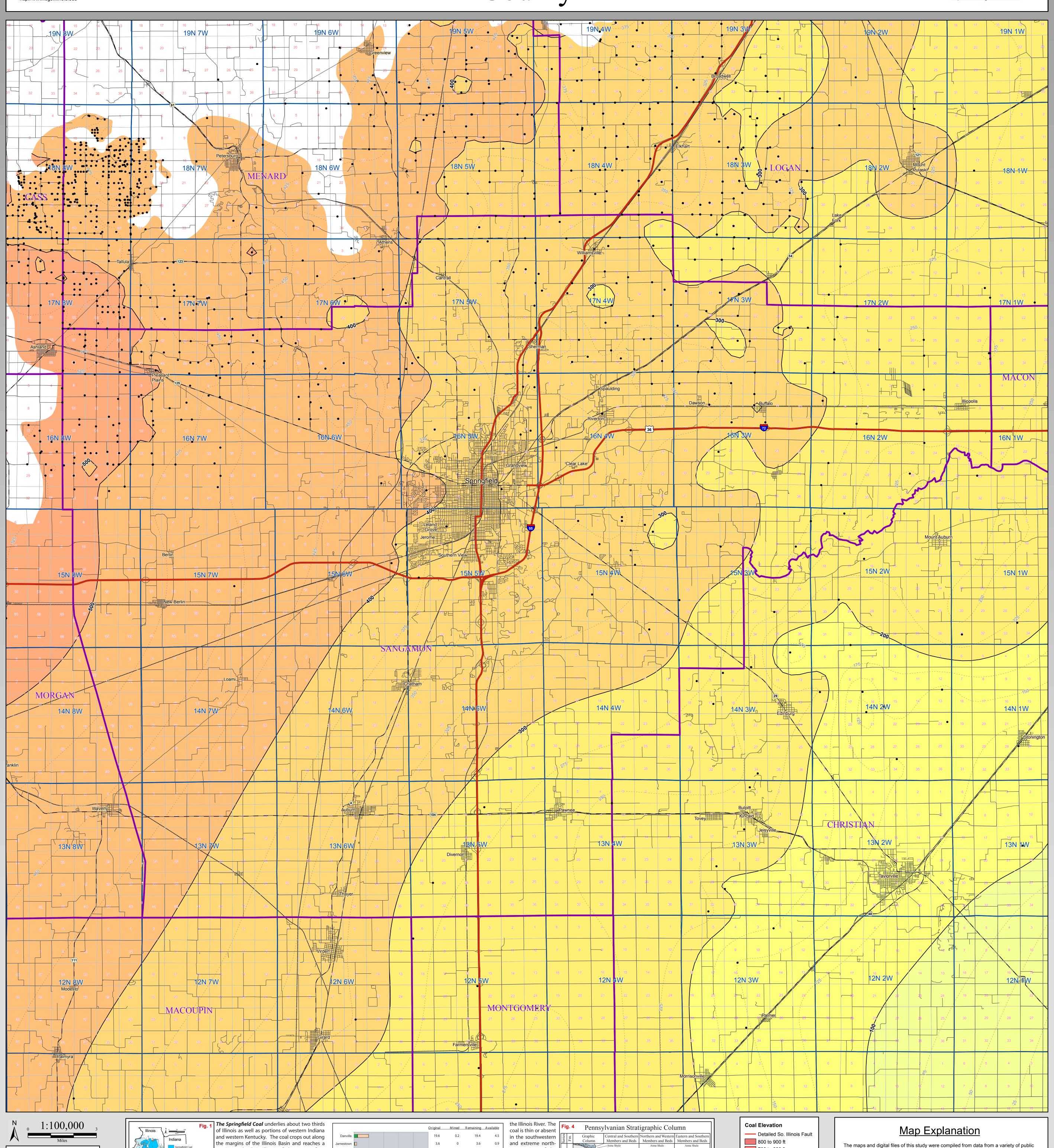
ISGS Coal Section

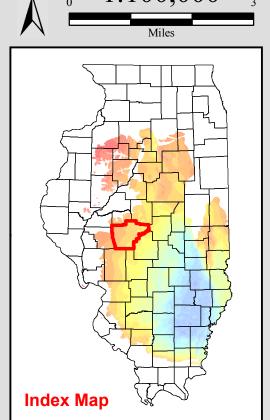
Map construction: May, 2015

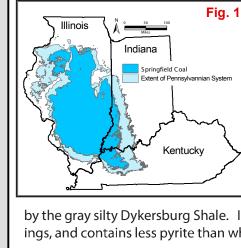
This product is under review and may not meet the standards of the Illinois State Geological Survey.

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

http://www.isgs.illinois.edu





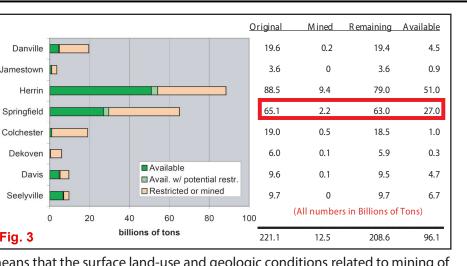


North-south cross section of the Pennsylvanian System in Illinois

The Springfield 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 1,300 feet. (See Fig 1. and Fig 2.) The Springfield Coal is in the Carbondale formation which is part of the Desmoninesian Series. (See Fig. 4) The Springfield Coal is normally overlain by a black fissile shale called the Turner Mine shale, but in southeastern Illinois, in a belt several miles wide that trends southwestward, the coal is thick and is overlain

by the gray silty Dykersburg Shale. In that belt the coal is commonly split by shale partings, and contains less pyrite than where it is overlain by the black fissile shale (Hopkins, 1968 - B95). (See Fig 4.)

The original resource of Springfield Coal in the State of Illinois totals 65.1 billion tons, of which 2.2 billion have



the black fissile shale (Hopkins, 1968 - B95). (See Fig 4.)

The original resource of Springfield Coal in the State of Illinois totals 65.1 billion

The black fissile shale (Hopkins, 12.5 208.6 96.1 12.5 20

of Illinois totals 65.1 billion tons occur in toal 42 to 66 inches thick and 4 billion tons occur in thicknesses greater than 66 inches thick.

tons, of which 2.2 billion have been mined. Approximately 41% of the original Springfield Coal has been mined in Illinois for well over 100 years. The thickest resources of Springfield Coal in Illinois are found in the central part of the state around the city of Springfield and in the southeastern part of the state.

coal is thin or absent	,	Pennsylvanian Stratigraphic Column					umn
n the southwestern	Series	Fm.	Graphic	Central a	nd Southern	Northern and Western	Eastern and Southern
and extreme north- ern portions of the coal field. (Modified from ISGS Pub. IM 18, Treworgy, et al)	Sei	Ε	Column	Member	s and Beds	Members and Beds	Members and Beds
	Desmoinesian Series	Carbondale	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Anna Shal Energy Sh Herrin Co: Briar Hill Coal Canton Sh St. David Turner Mi Dykersbur Springfiel Hanover L Excello SI Houchin C Roodhouse Coal Pleasantview Sa Survant Coal Oak Grovy Mecca Qu Colchester Coal	ale ale Limestone ne Shale g Shale d Coal .imestone nale .reek Coal ndstone e Limestone arry Shale	Anna Shale Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Vermillionville Sandstone Canton Shale St. David Limestone Turner Mine Shale Springfield Coal Covel Conglomerate Hanover Limestone Excello Shale Houchin Creek Coal Breezy Hill Limestone Kerfon Creek Coal Pleasantview Sandstone Lowell Coal Oak Grove Limestone Mecca Quarry Shale Jake Creek Sanstone Francis Creek Sandstone Cardiff Coal Bed Colchester Coal Browning Sandstone Abingdon Coal Bed Isabel Sandstone	Anna Shale Herrin Coal Briar Hill Coal Canton Shale St. David Limestone Turner Mine Shale Springfield Coal Excello Shale Houchin Creek Coal Pleasantview Sandstone Survant Coal Mecca Quarry Shale Colchester Coal

The Springfield Coal has been mined in Illinois for well over 100 years. The 41% of the original Springfield Coal in Illinois are found in the central part of Coal resources, 27 billion tons, are considered available for mining (See Fig 3.). Available concentrated in these areas and in shallow surface minable deposits west of The Springfield Coal has been mined in Illinois for well over 100 years. The thickest resources of Springfield Coal in Illinois are found in the central part of the state around the city of Springfield and in the southeastern part of the state around the city of Springfield and in the southeastern part of the state along the Galatia Channel. Recent and historical mining of the coal has been mined in Illinois for well over 100 years. The thickest resources of Springfield Coal in Illinois are found in the central part of the state around the city of Springfield and in the southeastern part of the state around the city of Springfield and in the southeastern part of the state along the Galatia Channel. Recent and historical mining of the coal has been concentrated in these areas and in shallow surface minable deposits west of coal for mining in Illinois State Geological Survey Illinois Minerals 118, 43 p.

Coal Elevation

Detailed So. Illinois Fault

800 to 900 ft

700 to 800 ft

600 to 700 ft

500 to 600 ft

400 to 500 ft

300 to 400 ft

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

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

<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 basis of the information presented here.

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