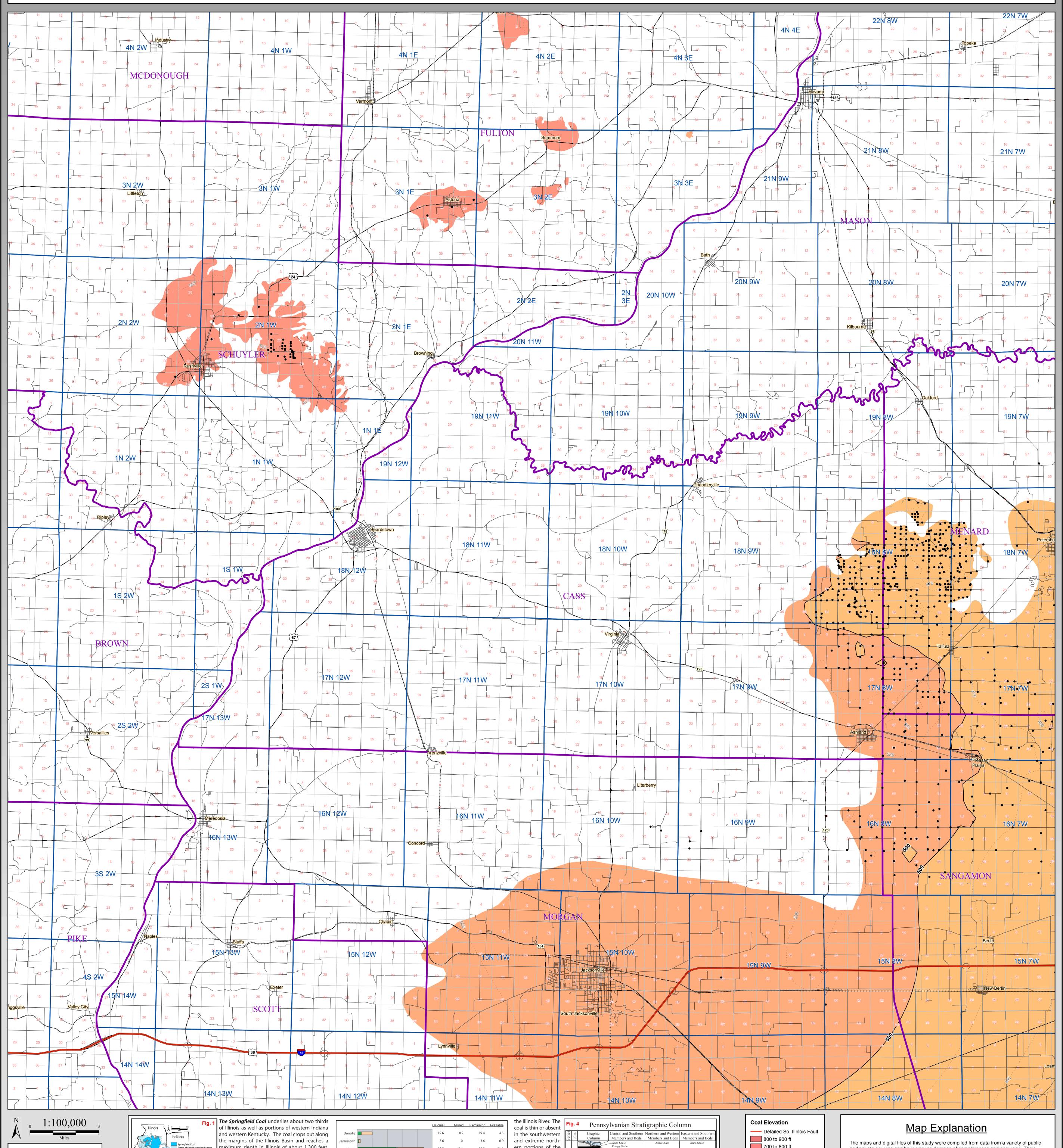
ILLINOIS STATE GEOLOGICAL SURVEYPRAIRIE RESEARCH INSTITUTE TILLINOIS For further information contact: Prairie Research Institute Illinois State Geological Survey University of Illinois at Urbana-Champaign 615 East Peabody Drive Champaign, Illinois 61820-6964 (217) 333-4747 http://www.isgs.illinois.edu

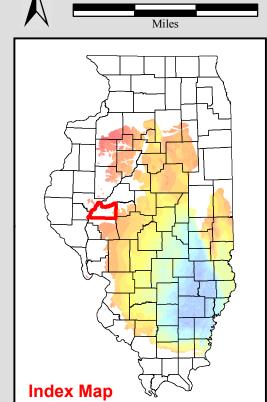
Springfield Coal Elevation CASS County

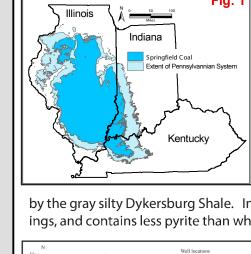
County Coal Map Series ISGS Coal Section Map construction: May, 2015

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

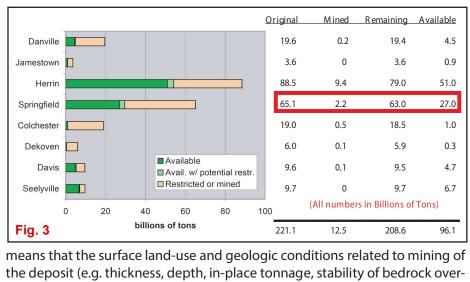
maximum depth in Illinois of about 1,300 feet. (See Fig 1. and Fig 2.) The Springfield Coal is in the Carbondale formation which is part of the Desmoninesian Series. (See Fig. 4) The Springfield Coal is normally overlain by a black fissile shale

of Illinois totals 65.1 billion

tons, of which 2.2 billion have

41% of the original Springfield

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.)



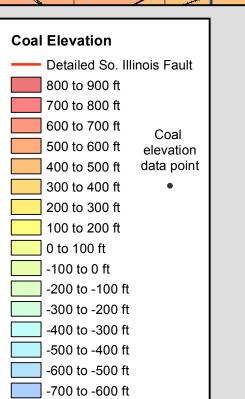
The original resource of burden) are comparable to other coals currently being mined in the state. Of Springfield Coal in the State these resources, 23 billion tons occur in coal 42 to 66 inches thick and 4 billion

tons occur in thicknesses greater than 66 inches thick. been mined. Approximately 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 **References**: the state around the city of Springfield and in the southeastern part of the state are considered available for along the Galatia Channel. Recent and historical mining of the coal has been

mining (See Fig 3.). Available concentrated in these areas and in shallow surface minable deposits west of

ern portions of the coal field. (Modified from ISGS Pub. IM 118, Treworgy, et al) Lowell Coal Colchester Coal

- Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p. - Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Springfield Coal for mining in Illinois: Illinois State Geological Survey Illinois Minerals 118, 43 p.



-800 to -700 ft

-900 to -800 ft

< -900 ft

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