

Coal is generally overlain by the Farmington Shale Member of the Shelburn Formation, but in places the immediate roof is 1-2 feet of black fissile shale. It is underlain by a relatively thick underlay. At the type locality in Vermillion county, the Danville Coal is 6 feet thick and occurs 20 feet above the Herrin Coal (Hopkins, 1968 - 895). (See Fig 4.)

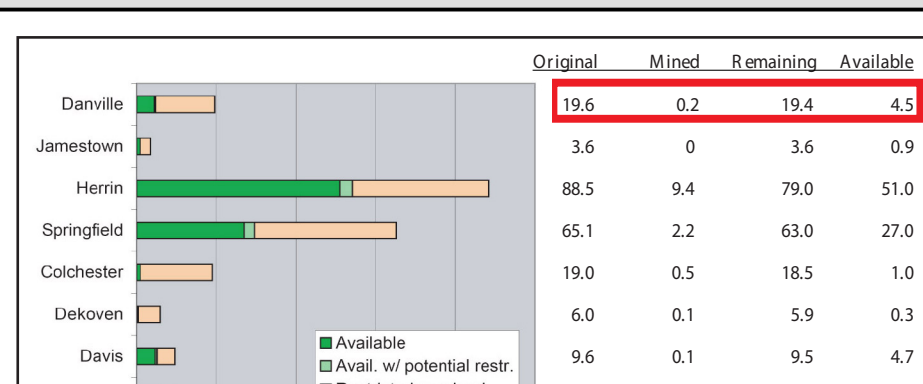


Fig. 3

Category	Value (Billions of Tons)
Proven	221.1
Proven + Probable	12.5
Recoverable	96.1

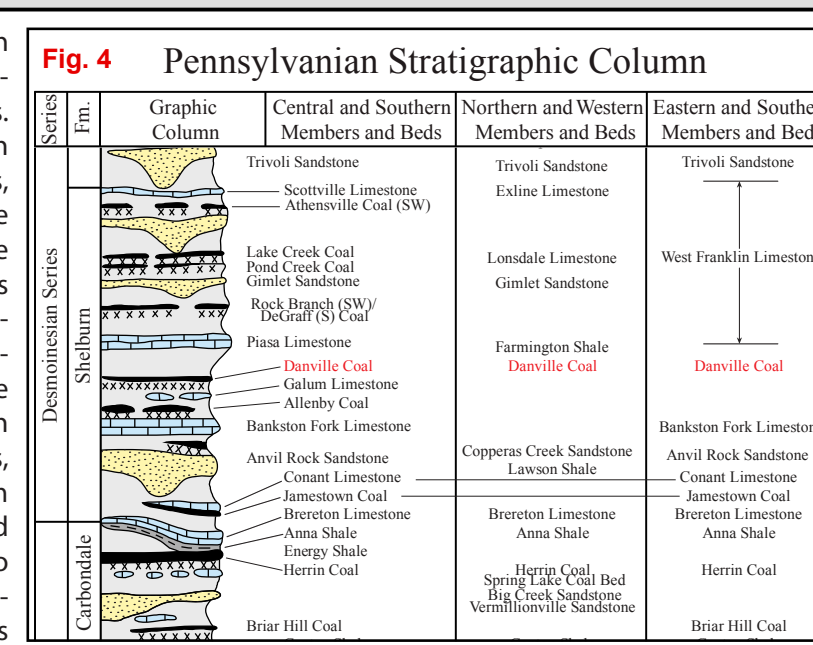
mined. Approximately 23% of the original Danville Coal resource, 4.5 billion tons, are considered available for mining. (See Fig. 3.) Available means that the surface land-use and geologic conditions related to mining of the deposit (e.g. thickness, depth, in-place tonnage, stability of bedrock overburden) are comparable to other coals currently being mined in the state. Of these resources, 4 billion tons occur in coal 42 to 66 inches thick and 0.4 billion tons

Fig. 4

Pennsylvanian Stratigraphic Column








	Graphic Column	Central and Southern Members and Subdivisions	Northern and Western Members and Subdivisions	Eastern and Southern Members and Subdivisions
Triassic		Triassic Sandstone	Triassic Sandstone	Triassic Sandstone
Permian		Scottsbluff Limestone Auriferous Limestone (SW)		
Carboniferous		Lake Creek Coal Zircon Limestone Hickory Limestone Hickory Shale Pine Limestone	Lenslike Limestone Central Sandstone	West Fanning Limestone Dewey Coal
Devonian		Clinton Limestone Clinton Shale Berkshire Rock Limestone	Farmington Shale Dewey Coal	Berkshire Turk Limestone
Silurian		Arcy Rock Sandstone Gowanus Limestone Indiana Coal Auriferous Limestone Indiana Shale Arcy Shale Harris Coal	Copper Creek Sandstone Lewistown Shale Coushatta Limestone Indiana Coal Berkshire Limestone Arcy Shale Harris Coal	Berkshire Turk Limestone Arcy Rock Sandstone Coushatta Limestone Indiana Coal Berkshire Limestone Arcy Shale Harris Coal
Carboniferous		Stens Hill Coal		Stens Hill Coal

Modified from IGSP Pub. IM 124, Korose, et al



Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.
 e, Colin G. Treworgy, Russell J. Jacobson, and Scott D. Elrick, 2002, Available
 mestown, Dekoven, Davis, and Seelyville Coals for mining in Selected Areas
 Geological Survey, Illinois. *Minerals* 124, 44 p.

Coal Sulfur

	Less than or equal to 0.40 (lb S per MM Btu)
	0.41 to 0.60 (lb S per MM Btu)
	0.61 to 0.83 (lb S per MM Btu)
	0.84 to 1.24 (lb S per MM Btu)
	1.25 to 1.67 (lb S per MM Btu)
	1.68 to 2.50 (lb S per MM Btu)
	Greater than 2.50 (lb S per MM Btu)

Map Explanation

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.

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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