

Coal Mines in Illinois Lebanon Quadrangle

St. Clair County, Illinois

Herrin Coal

This map accompanies the Coal Mines Directory for the Lebanon Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

- | Mining Method | Other Areas Depicted |
|----------------------------------|----------------------|
| Room & Pillar (RP) | Non-Coal Mines |
| Room & Pillar Basic (RPB) | |
| Modified Room & Pillar (MRP) | |
| Room & Pillar Panel (RPP) | |
| Blind Room & Pillar (BRP) | |
| Checkerboard Room & Pillar (CRP) | |
| High Extraction Retreat (HER) | |
| Longwall (LW) | |
| Underground, Method Unknown | |
| Strip Mine | |
| Auger Mine | |
| General Area of Mining | |

- Source of Mine Outline**
- Final Mine Map
 - Not Final Mine Map
 - Undated Mine Map
 - Incomplete Mine Map
 - Secondary Source Map

- Tipple, Shaft, Slope, Drift Locations**
- Strip Mine Tipple - Active
 - Strip Mine Tipple - Abandoned
 - Mine Shaft - Active
 - Mine Shaft - Abandoned
 - Mine Slope - Active
 - Mine Slope - Abandoned
 - Mine Drift - Active
 - Mine Drift - Abandoned
 - Air Shaft
 - Uncertain Location
 - Uncertain Type of Opening

- Mine Annotation**
(space permitting)
- Company
 - Mine Name
 - ISGS Index No., Years of Operation



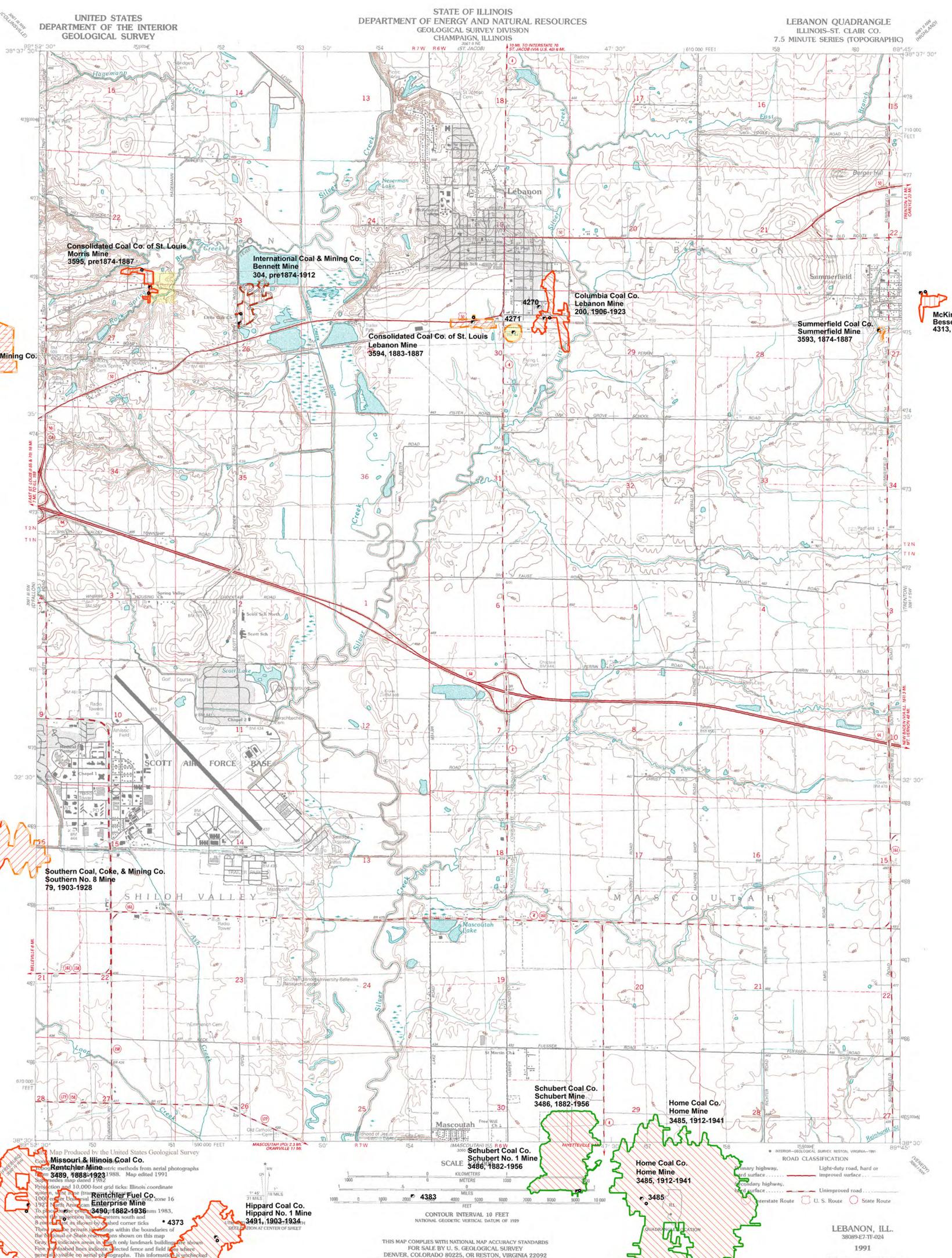
Disclaimer
Please check the Coal Section at the Illinois State Geological Survey's web site at <http://www.isgs.illinois.edu> for the most up-to-date version of these products.

Note that each quadrangle scale mined-out area map requires the use of the associated text directory for full explanation of map features and mine attributes. Also note that some quadrangles have multiple seams of mining and therefore more than one map may be available for a particular quadrangle. Please take care to check for multiple maps, as extensive mining may exist in the other seams.

The maps and digital files used for these studies were compiled from data obtained from a variety of public and private sources and have varying degrees of completeness and accuracy. This compilation map presents reasonable interpretation of the geology of the area and is based on available data. Locations of some mine features may be offset by 500 feet or more due to errors in the original source maps, the compilation process, digitizing, or a combination of these factors. These data are not intended for use in site-specific screening or decision-making. Use of these documents does not eliminate the need for detailed studies to fully understand the geology of a specific site. The Illinois State Geological Survey, Prairie Research Institute, or the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations or the data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

These maps were designed for use at 1:24,000. Enlarging the map may reduce accuracy, as the original scale of the source maps used to compile the outlines shown varies from 1:400 to 1:150,000, and some mine locations are known only from text descriptions. See the accompanying mine directory for the original scale of the source map used for a specific mine to check accuracy of a given portion of the map. Areas with no mines shown may still be imaged; see the unlocated mines list at the back of each mine directory.

The image of the U.S.G.S. topographic base map was projected from the original UTM to Lambert Conformal Conic.



Iver Creek Coal & Mining Co.
Arrow Mine
17, 1889-1907

Marroll
Bart Mine
1874-1890

Consolidated Coal Co. of St. Louis
Morris Mine
3595, pre1874-1887

International Coal & Mining Co.
Bennett Mine
304, pre1874-1912

Consolidated Coal Co. of St. Louis
Lebanon Mine
3594, 1883-1887

Columbia Coal Co.
Lebanon Mine
200, 1906-1923

Summerfield Coal Co.
Summerfield Mine
3593, 1874-1887

McKinley Coal Co.
Bessmer Mine
4313, 1887-1890

Southern Coal, Coke, & Mining Co.
Southern No. 8 Mine
79, 1903-1928

Schubert Coal Co.
Schubert Mine
3486, 1882-1956

Home Coal Co.
Home Mine
3485, 1912-1941

Home Coal Co.
Home Mine
3485, 1912-1941

Misouri & Illinois Coal Co.
Rentchler Mine
3489, 1888-1923

Rentchler Fuel Co.
Enterprise Mine
3490, 1882-1936

Hippard Coal Co.
Hippard No. 1 Mine
3491, 1903-1934

Misouri & Illinois Coal Co.
Rentchler Mine
3489, 1888-1923

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND ILLINOIS GEOLOGICAL SURVEY, CHAMPAIGN, ILLINOIS 61820
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

LEBANON, ILL.
38089E7-TT-024
1991
DMA 3061 III SE-SERIES V6/3



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Champaign, IL 61820

Mine Outlines Compiled by
Melony E. Barrett
2001
Revised 2004 & 2021

DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES LEBANON QUADRANGLE ST. CLAIR COUNTY

Cheri Chenoweth & Melony E. Barrett



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2001
REVISED 2004, 2021

**DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
LEBANON QUADRANGLE
ST. CLAIR COUNTY**

2001
REVISED 2004, 2021

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Cover photo Track-mounted duckbill loading machine at a Peabody Coal Company mine, ca. 1915.

DISCLAIMER: The accuracy and completeness of mine maps and directories vary with the availability of reliable information. Maps and other information used to compile this mine map and directory were obtained from a variety of sources and the accuracy of some of the original information cannot be verified. Consequently, the Illinois State Geological Survey (ISGS) cannot guarantee the mine maps are free of errors and disclaims any responsibility for damages that may result from actions or decisions based on them.

The ISGS updates the maps and directories periodically, and welcomes any new information or corrections. Please contact the Coal Section of the ISGS at the address shown on the title page of this directory, or telephone (217) 244-4610.

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INTRODUCTION

Coal has been mined in 76 counties of Illinois. More than 7,400 coal mines have operated since commercial mining began in Illinois about 1810; fewer than 30 are currently active. To detail the extent and location of coal mining in Illinois, the Illinois State Geological Survey (ISGS) has compiled maps and directories of known coal mines. The ISGS offers maps at a scale of 1:100,000 and accompanying directories for each county in which coal mining is known to have occurred. Maps at a scale of 1:24,000 and accompanying directories such as this are available for selected quadrangles. Contact the ISGS for a list of these quadrangles.

These larger scale maps show the approximate positions of mines in relation to surface features such as roads and water bodies, and indicate the mining method used and the accuracy of the mine boundaries. The maps are useful for locating mine boundaries relative to specific properties and for assessing the potential for subsidence in an area. Mine boundaries compiled from final mine surveys are generally shown within 200 feet of their true position. As a result of poor cartographic quality and inaccuracies in the original mine surveys, boundaries of some older mines may be mislocated on the map by 500 feet or more. Original mine maps should be consulted in situations that require precise delineation of mine boundaries or internal workings of mined areas.

The directory serves as a key to the accompanying mine map and provides basic information on the coal mines. The directory is composed of two parts. Part I explains the symbols and patterns used on the accompanying map and the summary data presented for each mine. Part II numerically lists the mines in the quadrangle and summarizes the geology and production history of each mine.

MINING IN THE LEBANON QUADRANGLE

Mining in this quadrangle began prior to 1874, and continued until 1956. The date of the earliest mining is not known; the 1874 Atlas of St. Clair County shows the Bennett Mine (mine index 304) shaft location west of Lebanon. The most recent mine is the Schubert Mine (mine index 3486), extending north into the Lebanon quadrangle from Mascoutah. This mine also operated the longest, over 74 years.

The Herrin Coal was the only coal mined here, ranging from 4.0 to 9.0 feet thick and 115 to 285 feet deep. Most of the mines reported poor roof or difficulties with the roof. The mines extending into the Lebanon quadrangle from Mascoutah were the exceptions, which had limestone over much of their workings. The Lebanon mines were small and short-lived, probably due to geologic problems. Slips made the roof unstable, as well as allowing gas and water to seep into the mine. The gray shale roof required more support, which raised the cost of mining.

PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

INTERPRETING THE MAP

The map accompanying this directory shows the location of coal mines known to be present in the quadrangle. The map, corresponding to a U.S. Geological Survey (USGS) 7.5-minute quadrangle, covers an area bounded by lines of latitude and longitude 7.5-minutes apart. In Illinois, a quadrangle is approximately 6.5 miles east to west and 8.5 miles north to south, an area of about 56 square miles. The USGS generally offers one map of mines per quadrangle. In some areas where extensive mining occurred in two or more overlapping seams, separate maps are compiled for mines in each seam to maintain readability of the map.

Mine Type and Mining Method

The mine type is indicated on the map by pattern color: green represents surface mines; red and yellow represent underground mines. The red patterns are used for areas of underground mining that are documented by a primary or secondary source map. A yellow pattern is used for cases where no map of the mine workings is available, but a general area of mining can be inferred from property maps or production figures. The patterns indicate the main mining methods used in underground mines. The methods are (1) room and pillar and (2) high extraction. The method used gives some indication of the amount and pattern of coal extraction within each mined area, and has some influence on the timing and type of subsidence that can occur over a mine.

The following discussion and illustrations of mining methods are based on Guither et al. (1984).

In room-and-pillar mines, coal is removed from haulage-ways (entries) and selected areas called rooms. Pillars of unmined coal are left between the rooms to support the roof. Depending on the size of rooms and pillars, the amount of coal removed from the production areas will range from 40% to 70%.

Room and Pillar - mining is divided into six categories:

- room-and-pillar basic (RPB, fig. 1A), an early method that did not follow a preset mining plan and therefore resulted in very irregular designs;
- modified room and pillar (MRP, fig. 1B);
- room-and-pillar panel (RPP, fig. 1C);
- blind room and pillar (BRP, fig. 1D);
- checkerboard room and pillar (CRP, fig. 1E);
- room and pillar (RP), a classification used when the specific type of room-and-pillar mining is unknown.

Blind and checkerboard are the most common types of room-and-pillar mining used in Illinois today. The knowledge of room-and-pillar mining methods gives a trained engineer information on the nature of subsidence that may occur. A more extensive discussion of subsidence can be found in Bauer et al. (1993).

High-extraction These mining methods are subdivided into high-extraction retreat (HER, Fig 1F) and longwall (LW, Fig 1G, 1H). In these methods, much of the coal is removed within well defined areas of the mine. Subsidence of the surface above these areas occurs within weeks. Once the subsidence activity ceases, the potential for further movement over these areas is low; however, subsidence may continue for several years after mining.

High-extraction retreat mining is a form of room-and-pillar mining that extracts most of the coal. Rooms and pillars are developed in the panels, and the pillars are then systematically removed (fig. 1F).

In early (pre-1960) longwall mines, mining advanced in multiple directions from a central shaft (fig. 1G). Large pillars of coal were left around the shaft, but all coal was removed beyond these pillars. Miners placed rock and wooden props and cribs in the mined-out areas to support the mine roof. The overlying rock gradually settled onto these supports, thus producing subsidence at the surface. In post-1959 longwall mines, room-and-pillar methods have been used to develop the main entries of the mine and panel areas. Modern longwall methods extract 100 percent of the coal in the panel areas (fig. 1H).

SOURCE MAPS

Mine outlines depicted on the map are, whenever possible, based on maps made from original mine surveys. The process of compiling and digitizing the quadrangle map may produce errors of less than 200 feet in the location of mine boundaries. Larger errors of 500 feet or more are possible for mines that have incomplete or inaccurate source maps.

Because of the extreme complexity of some mine maps, detailed features of mined areas have been omitted. The digitized mine boundary includes the exterior boundary of all rooms or entries that were at least 80 feet wide or protruded 500 feet from the main mining area. Unmined areas between mines are shown if they are at least 80 feet wide; unmined blocks of coal within mines are shown if they are at least 400 feet on each side. Original source maps should be consulted when precise information on mine boundaries or interior features is needed.

The mine summary sheet lists the source maps used to determine each mine outline. The completeness of map sources is indicated on the map by a line symbol at the mine boundary. Source maps are organized in five categories.

Final mine map The mine outline was digitized from an original map made from mine surveys conducted within a few months after production ceased. The date of the map and the last reported production are listed on the summary sheet.

Not a final map The mine is currently active or the mine outline was made from a map based on mine surveys conducted more than few months before production ceased. This implies the actual mined-out area is probably larger than the outline on the map. The mine summary sheet indicated the dates of source maps and the last reported production, as well as the approximate tonnage mined between these two dates (if the mine is abandoned). The summary sheet also lists the approximate acreage mined since the date of the map and, in some cases, indicates the area where additional mining may have taken place. This latter information is determined by locating on the map the active faces relative to probable boundaries of the mine property.

Undated map The source map was undated, so it may or may not be based on a final mine survey. When sufficient data are available, the probable acreage of the mined area is estimated from reported production, average seam thickness and a recovery rate comparable to other mines in the area. This information is listed in the summary sheet for the mine.

Incomplete map The source map did not show the entire mine. The summary sheet indicates the missing part of the mine map and the acreage of the unmapped area, which is estimated from the amount of coal known to have been produced from the mine.

Secondary source map The original mine map was not found so the outline shown was determined from secondary sources (e.g., outlines from small-scale regional maps published in other reports). The summary sheet describes the secondary sources.

POINTS AND LABELS

The locations of all known mine openings (shafts, slopes, and drifts) and surface mine tipples are plotted on the map. Tipples are areas where coal was cleaned, stockpiled, and loaded for shipping.

Only openings or tipples are plotted for mines without source maps. If the precise locations of these features are unknown, a special symbol is used to indicate the approximate location of the mine.

Each mine on the map is labeled with the names of the mine and operating company, ISGS mine index number, and years of operation (if known) if space permits. A seam designation is given on maps where more than one seam was mined. For a mine that operated under more than one name, only the most recent name is generally given. When a mine changed names or ownership shortly before closing, an earlier name is listed. All company and mine names are listed on the mine summary sheet in the directory, under the production history segment.

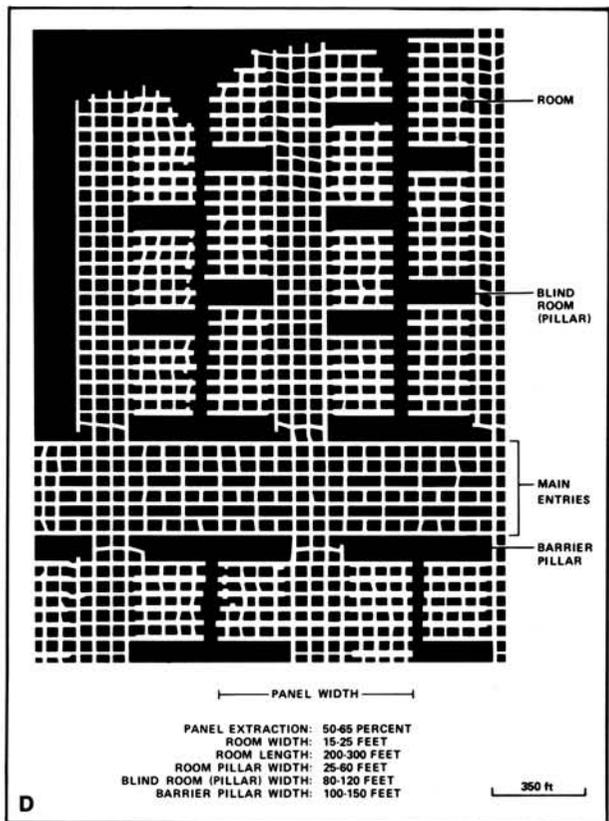
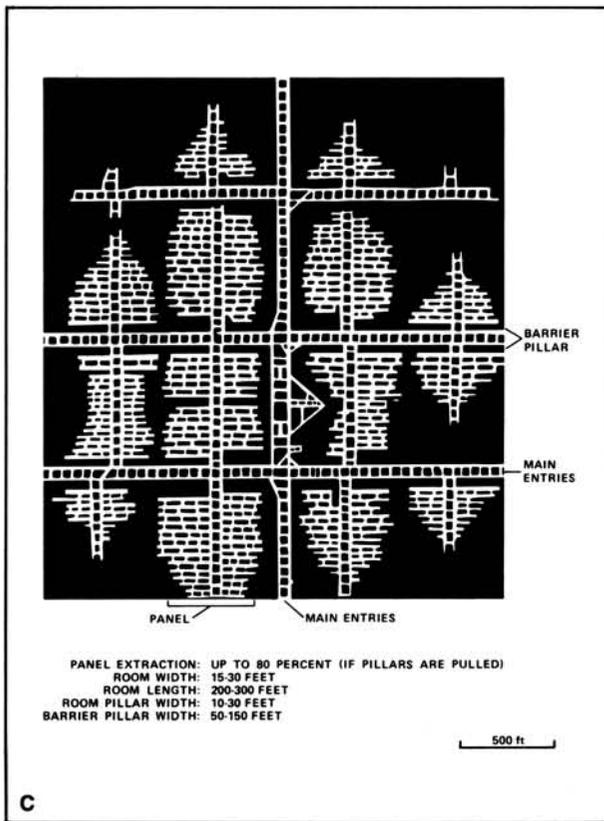
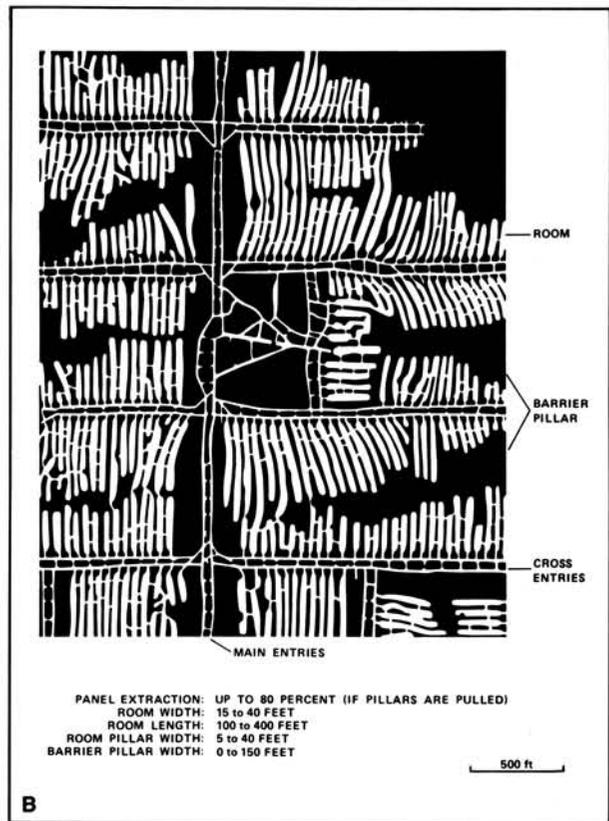
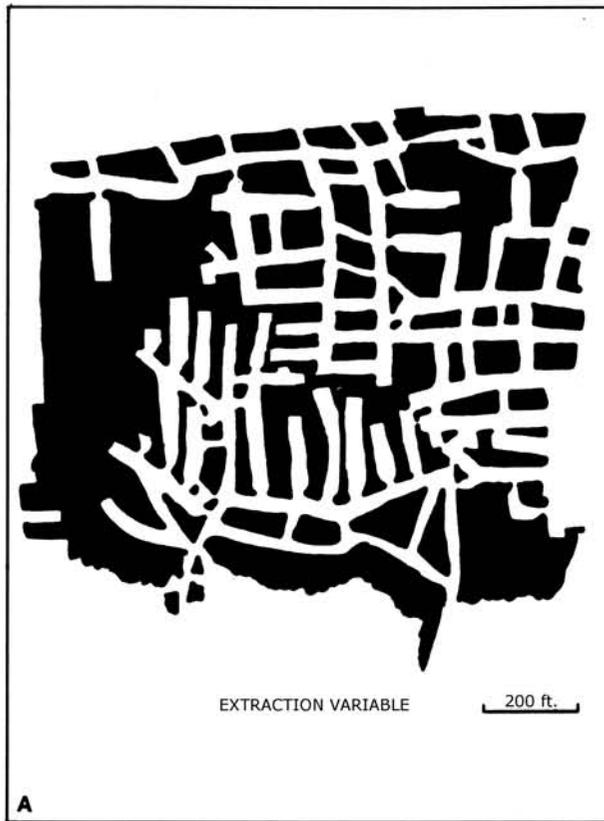


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

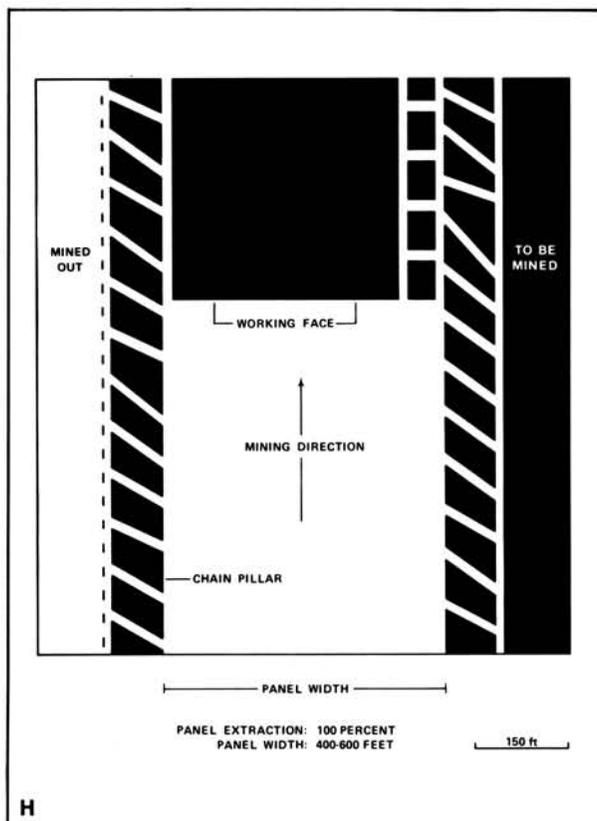
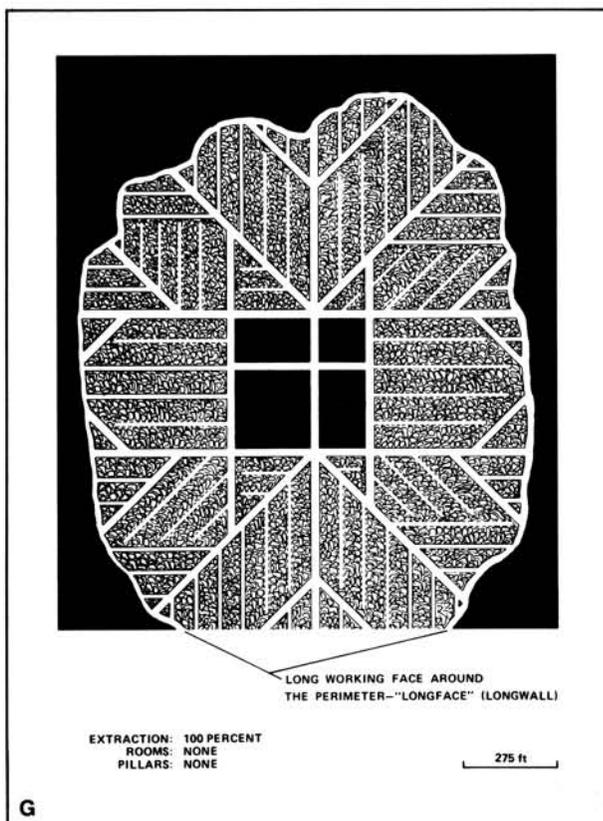
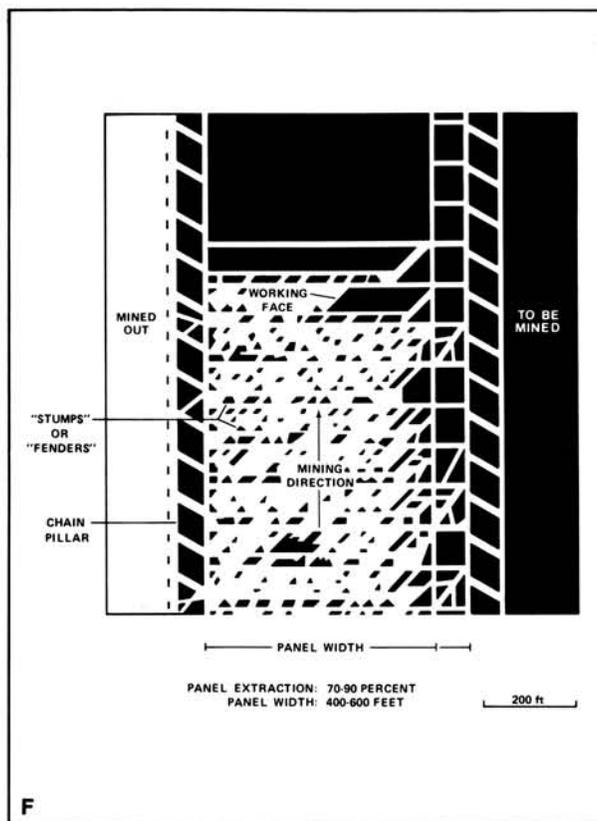
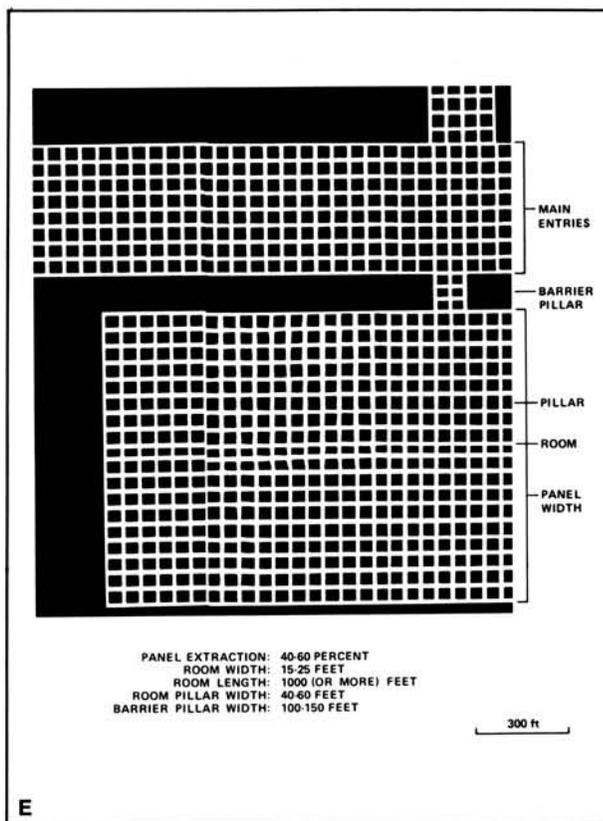


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

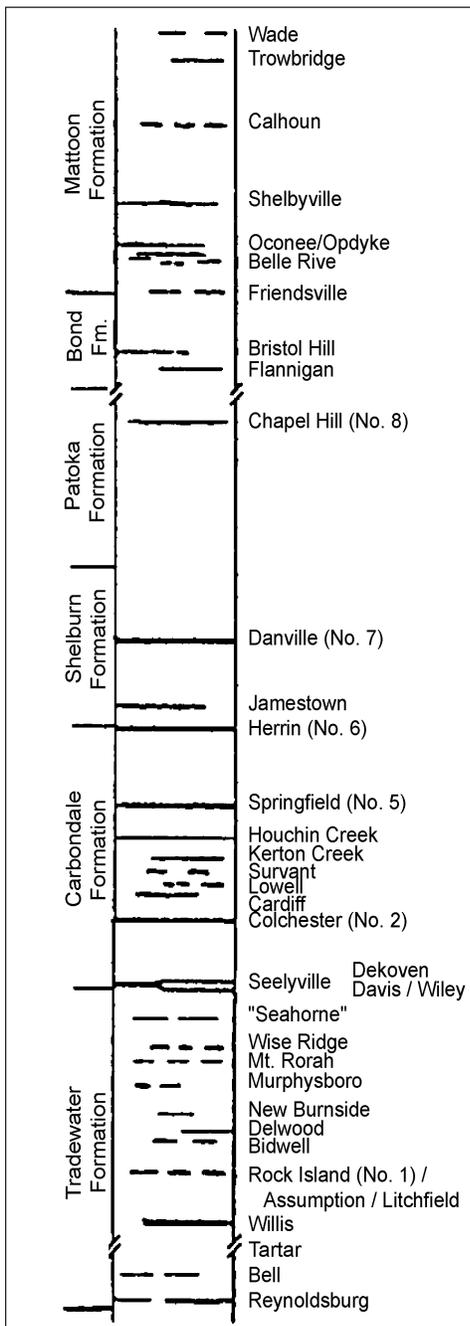


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

GEOLOGY

Seam(s) mined The name of the coal seam(s) mined is listed, if known. If multiple seams were mined, they are all listed, although the mined-out area for each seam may be shown on separate maps. Figure 2 shows the stratigraphic section of the coal-bearing interval in Illinois, and the vertical relations among the coals.

Depth The depth to the top of the seam in the vicinity of the shaft is listed, if known. The depth is determined from notes made by geologists who visited the mine during its operation or from drill hole data in ISGS files. Depth generally varies little over the extent of a mine; however, reported depths for an individual mine may vary. Depth for surface-mined coals varies, and is usually represented as a range.

INTERPRETING A MINE SUMMARY SHEET

The mine summary sheet is arranged numerically by mine index number. Index numbers are shown on the map and in the mine listing. The mine summary sheet provides the following information (if available).

Company and mine name The last company or owner of the mine is used, unless no production was recorded for the last owner. In that case, the penultimate owner is listed. Mines often have no specific name; in these cases, the company name is also used as the mine name.

Type *Underground* denotes a subsurface mine in which the coal was reached through a shaft, slope, or a drift entry. *Surface* denotes a surface, open pit or strip mine.

Total mined-out acreage shown The total acreage of the mined area mapped, including any acreage mined on adjacent quadrangles, is calculated from the digitized outline of the mine. The acreage of large barrier pillars depicted on the map is excluded from the mined-out acreage. Small pillars not digitized are included in the acreage calculation. If the mine outline is not based on a final mine map, the acreage is followed by an estimate of additional acres that may have been mined. The estimate is determined from reported mine production, approximate thickness of the coal, and recovery rates calculated from nearby mines that used similar mining methods.

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

Shaft, slope, drift, or tippie locations Locations of all known former entry points to underground mines or the location of coal cleaning, tippie, and shipping equipment used by the mine's facility are listed. The location is described in terms of county, township and range (Twp-Rge), section, and location within the section by quarters. NE SW NW, for instance, would describe the location in the northeast quarter of the southwest quarter of the northwest quarter. When sections are irregular in size, the quarters remain the same size and are oriented (or "registered") from the southeast corner of the section. Approximate footage from the section lines (FEL = from east line, FNL = from north line, for example) is given when that information is known; this indicates a surveyed location and is not derived from maps. Entry points are also plotted on the map and coded for the type of entry or tippie. A mine opening may have had many purposes during the life of the mine. Old hoist shafts are often later used for air and escape shafts; this information is included in the directory when known. The tippie for underground mines was generally located near the main shaft or slope. At surface mines, coal was sometimes hauled to a central tippie several miles from the mine pit.

Thickness The approximate thickness of the mined seam is shown, if known. Thickness also comes from notes of geologists who visited the mine during its operation or from borehole data in ISGS files. Minimum, maximum, and average thicknesses are given when this information is available.

Mining method The principal mining method used at the mine (figs. 1A-H) is listed. See the mining methods section at the beginning of this directory for a discussion of this parameter.

Geologic problems reported Any known geologic problems, such as faults, water seepage, floor heaving, and unstable roof, encountered in the mine are reported. This information is from notes made by ISGS geologists who visited the mine, or from reports by mine inspectors published by the Illinois Department of Mines and Minerals, or from the source map(s). Geologic problems are not reported for active mines.

PRODUCTION HISTORY

Production history Tons of coal produced from the mine by each mine owner are totaled. When the source map used for the mine outline is not a final mine map, the tonnage produced since the date of the map is identified. For mines that extend into adjacent quadrangles, the tonnage reported includes areas mined in adjacent quadrangles.

SOURCE OF DATA

Source map This section lists information about the map(s) used to compile the mine outline and the locations of tipples and mine openings. In some cases more than one source map was used. For example, a map drawn before the mine closed may provide better information on original areas of the mine than a later map. When more than one map was used, the bibliography section explains what information was taken from each source.

Date The date of the most recent mine survey listed on the source map is reported.

Original scale The original scale of the source map is listed. Many maps are photo-reductions and are no longer at their original scale. The original scale gives some indication of the level of detail of the mine outline and the accuracy of the mine boundary relative to surface features. Generally, the larger the scale, the greater the accuracy and detail of the mine map. Mine outlines taken from source maps at scales smaller than 1:24,000 may be highly generalized and may well be inaccurately located with respect to surface features.

Digitized scale The scale of the digitized map is reported. The scale may be different from that of the original source map. In many cases the digitized map was made from a photo-reduction of the original source map, or the source map was not in a condition suitable for digitizing and the mine boundaries were transferred to another base map.

Map type Source maps are classified into five categories to indicate the probable completeness of the map. See discussion of source maps in the previous section.

Annotated bibliography Sources that provide information about the mine are listed, with the data taken from each source. Some commonly used sources are described below. Full bibliographic references are given for all other sources. Unless otherwise noted, all sources are available for public inspection at the ISGS.

Coal Reports Published since 1881, these reports contain tabular data on mine ownership, production, employment, and accidents. Some volumes include short descriptions made by mine inspectors of physical features and conditions in selected mines.

Directory of Illinois Coal Mines This source is a compilation of basic data about Illinois coal mines, originally gathered by ISGS staff in the early 1950s. Sources used for this directory are undocumented, but they are primarily Illinois Department of Mines and Minerals annual reports, ISGS mine notes, and coal company officials.

ENR Document 85/01, Guither, H. D., J. K. Hines, and R. A. Bauer, 1985 The Economic Effect of Underground Mining Upon Land Used for Illinois Agriculture: Illinois Department of Energy and Natural Resources Document 85/01, 185 p.

Microfilm map The U.S. Bureau of Mines maintains a microfilm archive of mine maps. A microfilm file for Illinois is available for public viewing at the ISGS.

Mine notes ISGS geologists have visited mines or contacted mine officials throughout the state since the early 1900s. Notes made during these visits range from brief descriptions of the mine location to long narratives (including sketches) of mining conditions and geology.

Federal Land Bank of St. Louis, Preliminary Reports on Subsidence Investigations Mining engineers working for the Federal Land Bank of St. Louis mapped areas of subsidence due to coal mining in the early 1930s. These reports often include county maps of mine properties with mined-out areas including shaft locations, as well as subsidence areas.

REFERENCES

Bauer, R. A., B. A. Trent, and P. B. Dumontelle, 1993, Mine Subsidence in Illinois: Facts for the Homeowner Considering Insurance: Illinois State Geological Survey, Environmental Geology Note 144, 16p.

Guither, H. D., J. K. Hines, and R. A. Bauer, 1985, The Economic Effects of Underground Mining Upon Land Used for Illinois Agriculture: Illinois Department of Energy and Natural Resources Document 85/01, 185 p.

Udden, J. A. and E. W. Shaw, 1915, Belleville-Breese Folio, Illinois, United States Geological Survey, Folio 195, 22p.

Warner & Beers, 1874, An Illustrated Historical Atlas of St. Clair County, IL, Warner & Beers Publishers, Chicago, Illinois, 115p.

PART II DIRECTORY OF MINES IN LEBANON QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Lebanon Quadrangle is provided. These summary sheets are arranged numerically by mine index number. Consult Part I for a complete explanation of the data listed in the summary sheet.

Mine Index 79

Southern Coal, Coke & Mining Company, Southern Mine No. 8

Type: Underground Total mined-out acreage shown: 966

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	1N 7W	17	SE SW NE
Air shaft	St. Clair	1N 7W	17	SE SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	115-128	6.0	7.5	6.7-7.0	RPP

Geologic Problems Reported: Clay veins, slips and rolls occur in this mine. The black shale roof contains coal balls and slips. The slips extend up into the limestone above the shale. The displacement is generally 5 or 6 inches, but the roof is bad in the vicinity of slips and comes down in massive blocks. Gas is also present in the slips, and water seeps in from the slips. The floor clay heaves badly when wet. In one case where the pillar was slightly robbed and the clay was wet, the floor heaved 3 feet.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Lenz Coal & Mining Company	Lenz No. 2, Shiloh	1903-1905	52,324
Southern Coal & Mining Company	Southern No. 8	1905-1912	1,430,949
Southern Coal, Coke & Mining Company	Southern No. 8	1912-1927	4,811,276
Southern Coal, Coke & Mining Company	Southern No. 8	1927-1928	12,338 *
			<u>6,306,887</u>

* Production since map date

Last reported production: April 3, 1928

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, PB_986	1922	1:4800	1:4800	Not final
WPA, T1N-R7W	6-21-1927	1:1200	1:24828	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.

Mine notes (St. Clair County) - Mine type, shaft locations, seam, depth, thickness, geologic problems.

Land Bank Report (St. Clair County) - Depth, thickness.

State Archive, PB_986 - Shaft locations, mine outline (western), mining method.

WPA, T1N-R7W - Shaft location, mine outline (eastern).

Mine Index 200
Columbia Coal Company, Lebanon Mine

Type: Underground Total mined-out acreage shown: 37 An additional 7 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	2N 6W	30	SW NE NE
Air shaft	St. Clair	2N 6W	30	SE NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	201	4.0	5.0	4.67-6.0	MRP

Geologic Problems Reported: The top 4-12 inches of coal is boney and discarded. The roof is 30 feet of light gray shale throughout the mine. This makes a very poor roof. The south extensions on the source map are labeled "fallen in".

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Lebanon City Coal Company	Lebanon	1906-1910	24,520
People's Coal Company	People's	1910-1917	86,032
Premier Coal Company	Premier	1917-1920	68,161
Premier Coal Company	Premier	1920-1922	29,026 *
Columbia Coal Company	Lebanon	1922-1923	<u>6,670 *</u>
			214,409

* Production after map date

Last reported production: June 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351138	8-30-1920	1:1200	1:1903	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, thickness.
 Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
 Mine notes (St. Clair County) - Mine type, shaft location, seam, thickness.
 Land Bank Report (St. Clair County) - Thickness.
 Microfilm map, document 351138, reel 03134, frames 275, 276 - Shaft locations, mine outline, depth, mining method, geologic problems.

Mine Index 304
International Coal & Mining Company, Bennett Mine

Type: Underground Total mined-out acreage shown: 27 Production indicates an additional 159 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	2N 7W	26	NW SW NE
Air shaft	St. Clair	2N 7W	26	SW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	183-200			5.0-7.0	RPB

Geologic Problems Reported: A 1907 report in the mine notes indicated that the old works were closed "and said to be mostly caved". The source map indicated the roof was down in the west part of the mine. The top 4 inches of coal were always left to support the shale roof. The Coal Report of 1884 indicates there was some gas in the workings, but improved ventilation corrected that condition.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Jeremiah Bennett	Bennett	pre1874-1886 *	42,090 **
Consolidated Coal Company of St. Louis ***	Bennett	1886-1889	20,724
Bennett Coal Company	Bennett	1889-1891	13,052
Lebanon Coal & Machine Association	Bennett	1891-1901	463,033
Lebanon Coal & Mining Association	Bennett	1901-1905	250,822
International Coal & Mining Company	Bennett, International No. 2	1905-1912	212,578
			1,002,299

* Idle 1886

** Production and ownership prior to 1882 unknown. The Coal Report of 1883 indicates 20 acres were mined.

*** Lessee 1887-1888, W. R. Stuart

Last reported production: 1912

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351060	undated	1:960	1:1721	Undated

Annotated Bibliography (data source, brief description of information)

- Coal Reports - Production, ownership, years of operation, thickness, depth, seam, geologic problems.
- Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
- Mine notes (St. Clair County) - Mine type, shaft location, seam, depth, thickness, geologic problems.
- Microfilm, document 351060, reel 03134, frame 158 - Mine outline, shaft locations, mining method, geologic problems.
- Atlas of St. Clair County, 1874, Warner & Beers - Shaft location, years of operation.

Mine Index 3485
Home Coal Company, Home Mine

Type: Underground Total mined-out acreage shown: 978 *

* The boundaries between Home Mine and Mascoutah No. 1 Mine (mine index 340) could not be distinguished. The acreage reported is the total for these two mines.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft (7'x16')	St. Clair	1N 6W	32	SW NW NE
Air shaft	St. Clair	1N 6W	32	SW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	160-185	6.5	9.0	7.67	MRP

Geologic Problems Reported: The roof is limestone over more than 50% of the mine. In these areas, there is a clod between the coal and the roof that tends to stick to the coal. Cracks are present in some places, and there is generally some movement where the cracks are present - usually an inch or two, but rarely as much as a foot. The coal under the larger cracks have clay-filled cracks similar to the horsebacks of the Springfield Coal. Where black shale forms the roof, coal balls are common, generally 1 to 3 feet in diameter. The black shale is difficult to keep up. Pyrite occurs in sheets between the benches, especially in and about 5 inches above the blue band.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Kolb Coal Company	Mascoutah No. 2	1912-1934 **	2,462,269
Edward A. Yoch	Mascoutah	1934-1936 ***	1,165
Mascoutah Coal & Mining Company	Mascoutah	1936-1940	53,032
Home Coal Company	Home	1940-1941	10,549
			<u>2,527,015</u>

** Idle 1928

*** Idle 1935

Last reported production: 1941

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351094	10-9-1942	1:2400	1:4634	Final

Annotated Bibliography (data source, brief description of information)

- Coal Reports - Production, ownership, years of operation.
- Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
- Microfilm map, document 351094, reel 03134, frames 206-208 - Shaft locations, mine outline, mining method.
- Mine notes (St. Clair County) - Mine type, shaft location and size, seam, depth, thickness, geologic problems.
- Land Bank Report - Depth, thickness.

Mine Index 3486**Schubert Coal Company, Schubert No. 1 Mine**

Type: Underground Total mined-out acreage shown: 155

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft (5'x10')	St. Clair	1N 6W	32	650 FNL, 260 FWL
Air shaft	St. Clair	1N 6W	32	NW NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	157-165	6.5	7.5	7.0	MRP

Geologic Problems Reported: Very few problems here, limestone roof over much of the mine. Clod is present, which tends to come down with the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Mascoutah Coal Company	Mascoutah	pre1882-1884	17,635 *
James Beatty	Beatty	1884-1905	74,363
John Beatty Coal Company	Beatty	1905-1927	83,268 **
Schubert Coal Company	Schubert No. 1	1927-1956 ***	<u>688,862</u> 864,128

* Production and ownership prior to 1882 unknown. ISGS mine notes indicate the mine may have been active in the early 1870s. The Coal Report of 1882 indicates 5 acres mined.

** Production not reported in 1922 for mines producing less than 10,000 tons. Idle 1922 to 1927.

*** Abandoned mine re-opened

Last reported production: April 1956

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351162	7-23-1956	1:960	1:1589	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.

Mine notes (St. Clair County) - Mine type, shaft location, seam, depth, thickness, abandonment date.

Microfilm map, document 351162, reel 03134, frames 302-304 - Shaft locations, mine outline, mining method.

Mine Index 3593**Summerfield Coal Company, Summerfield Mine**

Type: Underground Total mined-out acreage shown: 2 The source map for this mine is a secondary source map, and indicates that the workings are only approximate. Production indicates approximately 4 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	2N 6W	27	NE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	180-285			4.0-5.0	RPB

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Winger	Summerfield	pre1874-1883	12,380 *
Fisher & Harrison	Summerfield	1883-1884	1,700 **
Summerfield Coal Company	Summerfield	1884-1887 ***	<u>6,280</u>
			20,360

** Production and ownership prior to 1883 unknown. The Coal Report of 1883 indicates 15 acres were mined.

*** The inspector noted in the Coal Report of 1884 that this mine had changed hands three times. These owners are unknown. The production reported may not include all the tonnage mined under these unknown operators.

**** Idle 1886

Last reported production: 1890

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
WPA, T2N-R6W	1935	1:12000	1:54340	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, thickness, mining method.

Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.

Mine notes (St. Clair County) - Shaft location, seam, depth, thickness.

WPA map, T2N-R6W - Shaft location, mine outline ("approximate workings").

Atlas of St. Clair County, 1874, Warner & Beers - Years of operation.

Mine Index 3594**Consolidated Coal Company of St. Louis, Lebanon Mine**

Type: Underground Total mined-out acreage shown: 14 Production indicates an additional 24 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	2N 6W	30	NW SE NW
Air shaft	St. Clair	2N 6W	30	SW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	189			5.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Gustave Weisberger	Weisberger	1883-1884	11,000
Lebanon Coal Company	Lebanon	1884-1886	110,849
Consolidated Coal Company of St. Louis	Lebanon	1886-1887	<u>8,854</u>
			130,703

Last reported production: 1887

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
WPA, T2N-R6W	1935 *	1:12000	1:54340	Secondary source
Microfilm, document 351065	6-28-1886	1:1800	1:2359	Not final

* The mine outline was dated 6-28-1886, and is not a final outline.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
 WPA map, T2N-R6W - Mine outline.
 Microfilm map, document 351065, reel 03134, frame 163 - Shaft locations.

Mine Index 3595**Consolidated Coal Company of St. Louis, Morris Mine**

Type: Underground Total mined-out acreage shown: 12 Production indicates 16 acres were mined.
 A general area of mining has been added east of the mine, where the shafts were shown on the 1874 and 1876 atlas maps.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	2N 7W	27	NW NE NE
Air shaft	St. Clair	2N 7W	22	SW SE SE
Old air shaft	St. Clair	2N 7W	27	SW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	150-185			4.5-5.25	RPB

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Joseph Morris	Nichols	pre1874-1884	37,730 *
Stewart & Jacks	Morris	1884-1885	10,000
Joseph Morris	Morris	1885-1886	18,000
Consolidated Coal Company of St. Louis	Morris	1886-1887	<u>9,100</u> **
			74,830

* Ownership and production prior to 1882 unknown. The Coal Report of 1882 indicates 16 acres mined. The 1874 Atlas of St. Clair County shows William Nichols & Company mine at this location.

** Production after map date

Last reported production: 1887

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351012	6-1-1886	1:960	1:1589	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness.
 Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
 Microfilm map, document 351012, reel 03134, frame 86 - Mine outline, shaft locations, mining method.
 Atlas of St. Clair County, 1874, Warner & Beers - Mine ownership, years of operation.

OTHER MINES SHOWN ON THE LEBANON QUADRANGLE

Mine Index 4270 SW NE NE 30-T2N-R6W source: USGS Folio 195 (1915)

Mine Index 4271 NW SW NE 30-T2N-R6W, shaft source: Federal Land Bank Report (5-1934)

MINES WHOSE LOCATIONS ARE NOT KNOWN, LEBANON QUADRANGLE

The locations of the following mines are unknown, but the production tonnage, operating names, and nearest town were reported in the Annual Coal Reports. The mines listed below mined in or near the Lebanon Quadrangle. The information is similar to that presented on the summary sheets in the previous pages of this directory. The first item is the name the mine operated under as listed in the Coal Report, then the years the mine reported. If no physical data are available, the next item listed is the total tons produced by the mine. If physical data are available, the order of presentation is as follows: type of opening for the mine (drift, slope or shaft), depth of coal in feet, and thickness of coal in feet.

Unfinished shaft started by a group of miners in 1897. They met with considerable difficulty with 30 feet of water-bearing gravel, and the shaft was apparently never finished and did not produce any coal. The shaft was reported in the 1897 Coal Report at a mile and a half west of Lebanon, which would be somewhere in the vicinity of T2N-R7W, section 25 or 26.

INDEX OF MINES IN THE LEBANON QUADRANGLE

Beatty (James)	13
Beatty (John) Coal Company	13
Bennett (Jeremiah)	11
Bennett Coal Company	11
Bessemer Coal Company	14
Columbia Coal Company	10
Consolidated Coal Company of St. Louis, Bennett Mine	11
Consolidated Coal Company of St. Louis, Lebanon Mine	15
Consolidated Coal Company of St. Louis, Morris Mine	16
Fisher & Harrison	14
Harrison (Fisher & Harrison)	14
Home Coal Company	12
International Coal & Mining Company	11
Jacks (Stewart & Jacks)	16
Kolb Coal Company, No. 2 Mine	12
Lebanon City Coal Company	10
Lebanon Coal & Machine Association	11
Lebanon Coal & Mining Association	11
Lebanon Coal Company	15
Lenz Coal & Mining Company, No. 2 or Shiloh Mine	9
Mascoutah Coal & Mining Company	12
Mascoutah Coal Company	13
Morris (Joseph)	16
Nichols (William) & Company	16
Nichols (William)& Company	16
Nichols Mine	16
People's Coal Company	10
Premier Coal Company	10
Schubert Coal Company	13
Shiloh Mine	9
Southern Coal & Mining Company No. 8, Shiloh Mine	9
Southern Coal, Coke & Mining Company No. 8, Shiloh	9
Stewart & Jacks	16
Stuart (W. R.)	11
Summerfield Coal Company	14
Weisberger (Gustave)	15
Wingler (John)	14
Yoch (Edward)	12

Funding for this project was supplied by the Illinois Department of Transportation.