

## Coal Mines in Illinois London Mills Quadrangle Fulton & Knox Counties, Illinois

### Colchester, Rock Island & Other Coals

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

#### Mining Method

- Room & Pillar (RP)
- 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

#### Other Areas Depicted

- Non-Coal Mines

#### 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

#### Other Points Depicted

- Non-Coal Mines

#### 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 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.

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 undermined; 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.

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June 2016

#### Base Map Produced by the United States Geological Survey

Control by USGS and NOS/NOAA  
Topography by photogrammetric methods from aerial photographs taken 1973. Field checked 1974.  
Projection and 10,000-foot grid ticks: Illinois coordinate system, west zone (transverse Mercator)  
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue. 1927 North American datum  
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1927 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

SCALE 1:24,000  
CONTOUR INTERVAL 10 FEET  
DOTTED LINES REPRESENT 5-FOOT CONTOURS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092  
AND BY THE STATE GEOLOGICAL SURVEY, URBANA, ILLINOIS 61801  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



LONDON MILLS, ILL.  
NE4 AVON 15' QUADRANGLE  
N4037.5 - W9019.7.5  
1974  
AMS 2965 III NE-SERIES V363



# **DIRECTORY OF COAL MINES IN ILLINOIS**

## **7.5-MINUTE QUADRANGLE SERIES**

### **LONDON MILLS QUADRANGLE**

### **FULTON & KNOX COUNTIES**

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2016

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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.

This directory serves as a key to the accompanying mine map and provides basic information on the coal mines in the quadrangle. 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. Total production for the mine, not the portion in the quadrangle, is given.

## **MINING IN THE LONDON MILLS QUADRANGLE**

Most of the mining in the London Mills Quadrangle took place along the bluffs on the eastern side of the Spoon River, near Ellisville, in the Rock Island Coal. The coal had some concretions and pyrite was a noted problem in some areas, but the most prevalent difficulty was with thinning coal. The thin coal generally prevented expansion in some direction (often near topographic slopes), while small unmined areas within mine outlines were generally noted on the source maps as having poor roof conditions.

## 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 a 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.

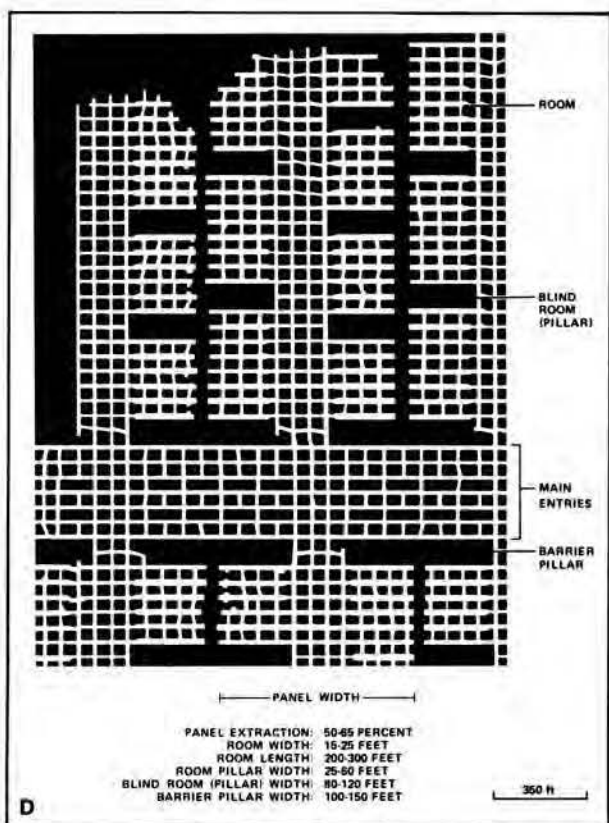
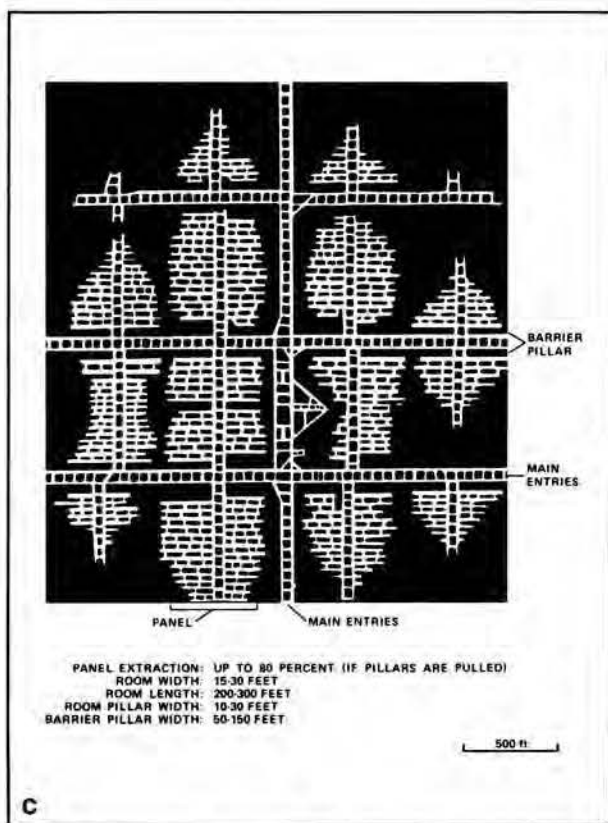
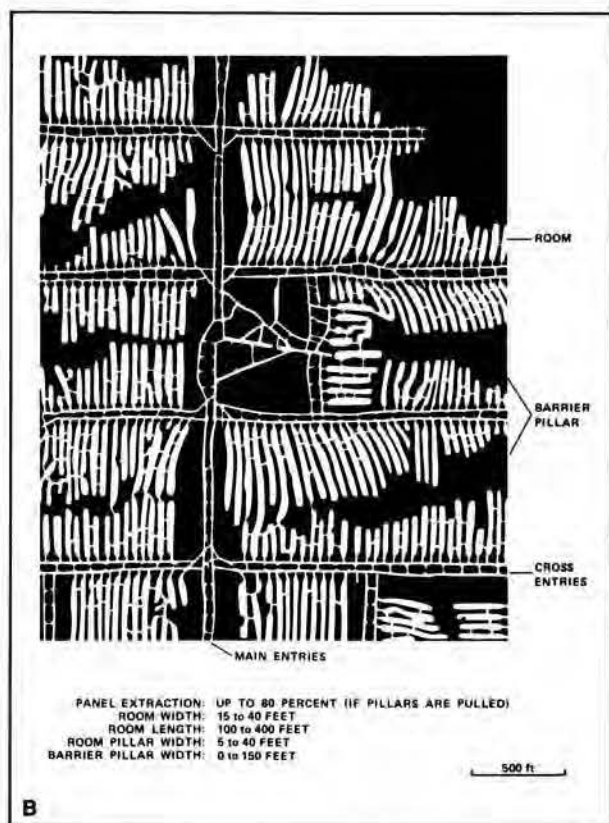
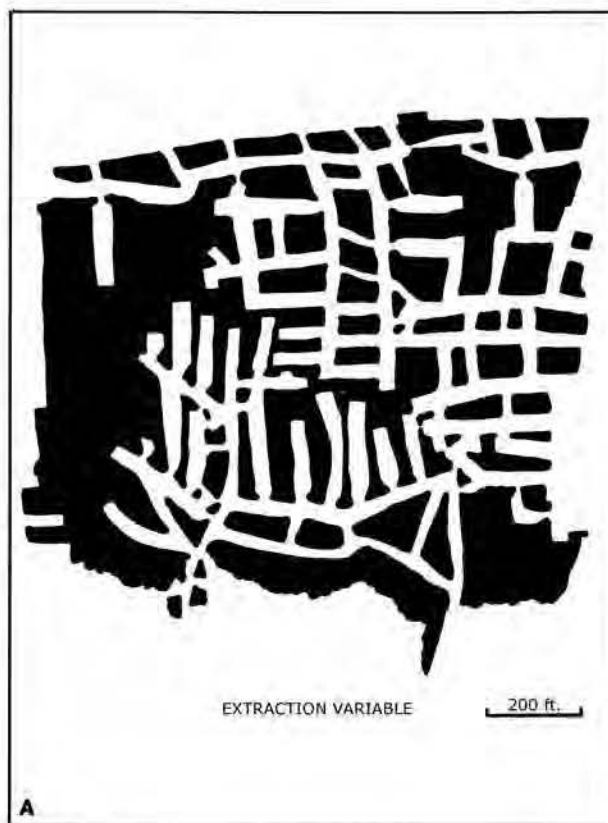
## POINTS AND LABELS

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.

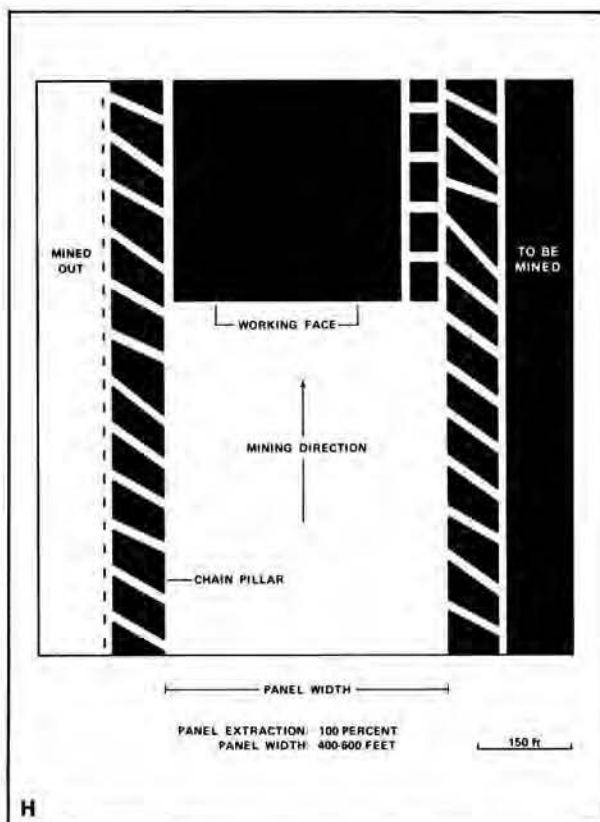
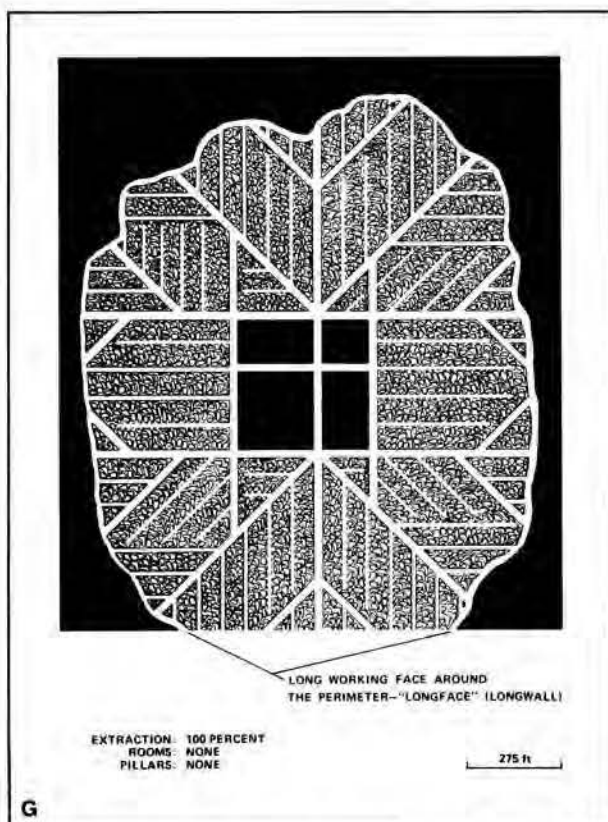
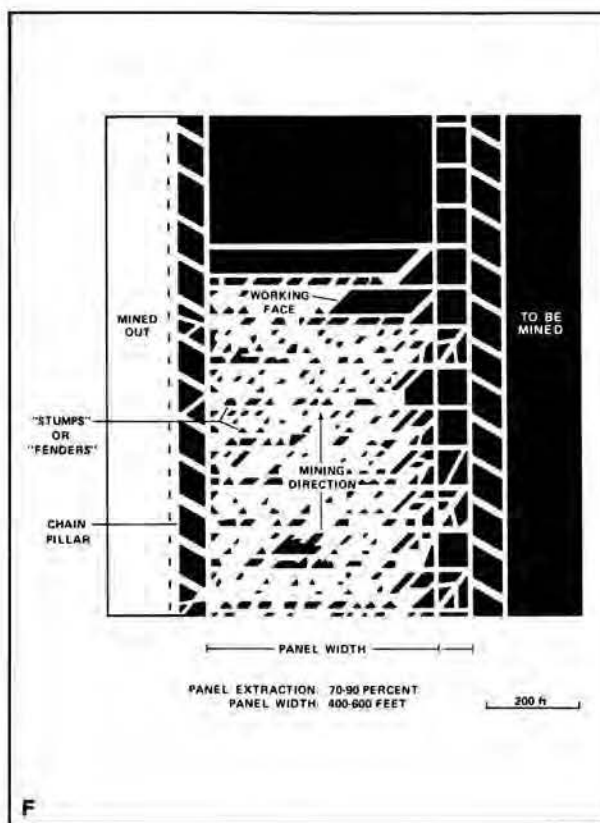
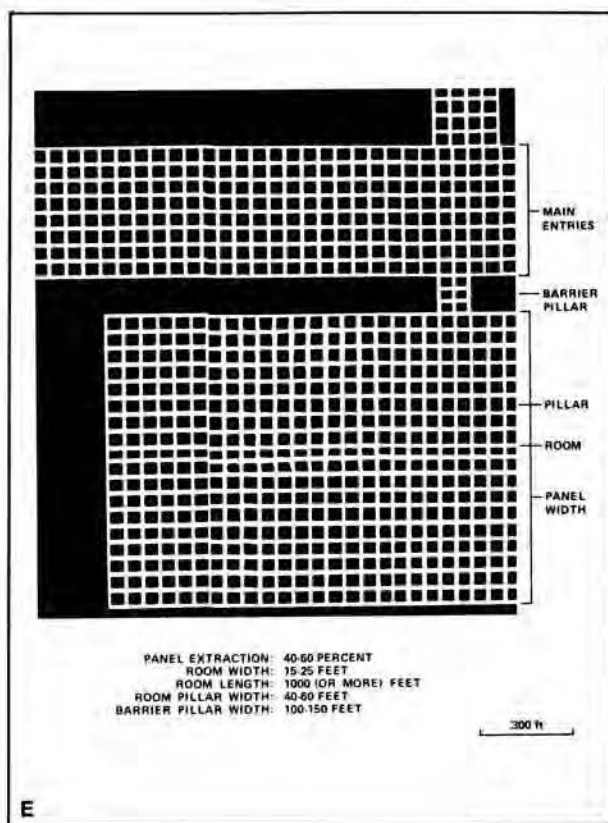
Each mine on the map is labeled with the names of the mine and operating company, ISGS mine index number, and years of operation (if known) if space permits. A seam designation is given on maps where more than one seam was mined. For a mine that operated under more than one name, only the most recent 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.

## 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.

## 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.



**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, 185p.



## PART II DIRECTORY OF MINES IN THE LONDON MILLS QUADRANGLE

### MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the London Mills 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 105

#### Spoon River Coal Company, Spoon River Mine

Type: Underground    Total mined-out acreage shown: 235

#### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 2E	28	NE NE SW
Air shaft	Fulton	8N 2E	28	NE NE SW
Old shaft	Fulton	8N 2E	28	NE NE SW
Escape shaft	Fulton	8N 2E	28	NW SW NE
Air shaft	Fulton	8N 2E	21	SW NE SE
Air shaft	Fulton	8N 2E	28	NE SE SW

#### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	35-46	3.5	6.0	4.0	RPB

Geologic Problems Reported: Some faulting was noted, with up to 2 feet of displacement, which made for a steep grade along haulage routes. An area south of the hoist shaft caved to the surface where the old creek bed was located (north of current stream bed). Other areas of caving were noted on the source map, generally in areas where the roof would have been thin (NE SW 28-T8N-R2E, SW SW NE 28-T8N-R2E & SE NE NW 28-T8N-R2E). The cap rock and sometimes immediate roof was limestone, ranging from 0 to 5 feet above the coal. Where limestone was not directly above the coal, the immediate roof was a gray shale clod without prominent laminations. The clod was difficult to keep up; areas noted for clod on the source map were E ½ SE 21-T8N-R2E and SW NW SW 22-T8N-R2E. Thin coal stopped westward mining in SE SE & NW NE 28-T8N-R2E. Rolls were noted in the roof in some places. The coal seam contained pyrite bands. A few concretions were noted in the coal. Brownish laminated pyrite with carbonaceous material was present in lenses between the coal and cap rock. The lenses were up to 18 inches thick and sometimes continuous for up to 150 feet. There was more pyrite close to the crop and where the coal was thin. The underclay was 2.0 to 3.0 feet thick, but was very hard and did not heave (although the upper 8 to 10 inches softened on weathering). A squeeze was noted on the source map in NE NE SE 21-T8N-R2E.

#### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Spoon River Coal Company	Spoon River	1902-1922	946,667
Ellisville Coal Mining Company	Spoon River	1922-1924	240,236
Spoon River Coal Company	Spoon River	1924-1926	<u>108,682</u>
			1,295,585

Last reported production: February 1926

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351590	2-19-1926	1:1200	1:2400	Final

#### Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Fulton County) - Mine type, shaft location, seam, depth, thickness.

Microfilm map, document 351590, reel 03136, frames 381-385 - Shaft locations, mine outline, mining method.



**Mine Index 2229**  
**Downard Brothers, Downard Mine**

Type: Underground    Total mined-out acreage shown: None

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 2E	4	SE NW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	42-45			2.8	Underground

Geologic Problems Reported: The roof was 10 feet of hard black limestone. The coal sloped to the south, so that water ran to the shaft bottom. Later field notes indicated the shaft was filled with water to within 22 feet of the surface.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Downard Brothers	Downard		

Last reported production:

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes (T. E. Savage)	Undated	1:62500	1:62500	Secondary source
ISGS field notes (G. H. Cady)	11-11-1908	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Fulton County) - Mine type, shaft location, seam, depth, thickness, geologic problems.  
 ISGS field notes (Fulton County) - Mine type, shaft location, geologic problems.



**Mine Index 2230**  
**Spoon River Coal Company, Spoon River Mine**

Type: Underground    Total mined-out acreage shown: 11

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	8N 2E	15	NE NW SW
Air shaft	Fulton	8N 2E	15	NE NW SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	65			4.5	MRP

Geologic Problems Reported: Most of the geological problems noted on the source map were related to areas that are ravines on the topographic map, where the roof and coal may have been eroded. Clod top was noted on the western side, which halted expansion to the northwest. On the eastern side of the mine, areas that were labeled "bad top" were near the ravines, but the easternmost entries hit coal that thinned down to less than 2 feet thick. As the mine extended south, the coal also seemed to thin to 3.17 feet and less

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Spoon River Coal Company	Spoon River	1934-1937	<u>55,250</u> 55,250

Last reported production: 1937

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351591	1-27-1938	1:1200	1:1572	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Fulton County) - Mine type, slope location, seam, depth, thickness.  
 Microfilm map, document 351591, reel 03136, frame 386 - Slope & shaft locations, mine outline, mining method, geologic problems.



**Mine Index 2231**  
**Coal Creek Coal Company, Coal Creek Mine**

Type: Underground    Total mined-out acreage shown: 34

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 2E	28	SE NW SE
Air shaft	Fulton	8N 2E	28	SE NW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	49			4.5	MRP

Geologic Problems Reported: Thin coal prevented westward expansion, and limited the extent of the southern protrusion.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Stevenson Brothers	Stevenson No. 3	1939-1946	63,013
Ellisville Coal Company	Ellisville	1946-1946	1,313
Thomas Elias Coal Company	Elias	1947-1947	6,072
Cedar Creek Coal Company	Cedar Creek	1947-1950 *	2,350
Glore & Fritz Coal Company	Glore & Fritz	1951-1957	20,200
Coal Creek Coal Company	Coal Creek	1957-1957	<u>259</u>
			93,207

\* Idle 1948 to 1950

Last reported production: May 1957

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351658	7-12-1957	1:2400	1:3475	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Fulton County) - Mine type, shaft location, seam, depth, thickness.

Microfilm map, document 351658, reel 03137, frame 21 - Shaft locations, mine outline, mining method, geologic problems.



**Mine Index 2232****W. E. Dallefeld Coal Company, Dallefeld No. 2 Mine**

Type: Underground Total mined-out acreage shown: 17 Production indicates approximately 2 acres were mined after the map date. The mine was connected underground with the Glore Mine (mine index 2233).

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 2E	32	NW SE NE
Air shaft	Fulton	8N 2E	32	NE SE NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	65			4.5	MRP

Geologic Problems Reported: The source map indicates southern expansion was limited by bad top and thin coal. Thin coal also limited expansion northwards in the eastern workings.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
W. E. Dallefeld Coal Company	Dallefeld No. 2	1936-1941	79,902
		1941-1942	<u>9,107</u> *
			89,009

\* Production after map date

Last reported production: 1942

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351672	11-1941	1:2400	1:2483	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Fulton County) - Mine type, seam, depth, thickness.

Microfilm map, document 351672, reel 03137, frame 36 - Shaft locations, mine outline, mining method, geologic problems.



**Mine Index 2233**  
**Glore Coal Company, Glore Mine**

Type: Underground    Total mined-out acreage shown: 17    Production indicates approximately 10 acres were mined after the map date.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main slope *	Fulton	8N 2E	32	SE NE NE
Air shaft	Fulton	8N 2E	32	SE NE NE

\* Formerly a shaft, then converted to a slope

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	23-30			4.67	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Glore Coal Company	Glore	1934-1938	64,654
Glore Coal Company	Glore	1938-1942	40,727 **
			105,381

\*\* Production after map date

Last reported production: 1942

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351601	9-21-1936	1:1200	1:1241	Not final
Microfilm, document 351672	11-1941	1:2400	1:2483	Secondary source
Microfilm, document 351603	1-6-1938	1:2400	1:3310	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Fulton County) - Mine type, slope location, seam, depth, thickness.  
 Microfilm map, document 351601, reel 03136, frame 401 - Slope & shaft locations, mine outline (northwestern), mining method.  
 Microfilm map, document 351672, reel 03137, frame 36 - Mine outline (southwestern).  
 Microfilm map, document 351603, reel 03136, frame 403 - Mine outline (eastern).

**Mine Index 5012**  
**Dancy & Lawson, Riverview Mine**

Type: Underground    Total mined-out acreage shown: 58    Production indicates approximately 11 acres were mined.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	7N 2E	5	NE NW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	25-45			3.0-4.5	RP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Riverview Coal Company	Riverview	1909-1911	5,621
W. C. Passant	Riverview	1911-1912	6,500
Riverside Coal Company	Riverview	1912-1916	20,565
South & Lawson	Riverview	1916-1917	5,200
Dancy & Lawson	Riverview	1917-1918	788
			38,674

Last reported production: 1918

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. E. Savage)	circa 1911	1:62500	1:62500	Secondary source
Federal Land Bank Report	4-20-1933	1:124800	1:124800	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, thickness, depth, mining method.  
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.  
 ISGS field notes (Fulton County) - Mine type, shaft location, seam, depth, thickness.  
 Federal Land Bank Report (Fulton County) - Mine outline (general area of mining).



**Mine Index 5013**  
**Clay Myers, Myers Mine**

Type: Underground    Total mined-out acreage shown: None

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	7N 2E	5	NW NW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	36			2.33	Underground

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Clay Myers	Myers	circa 1911	Unknown *

\* Not listed in the Coal Reports under this name

Last reported production:

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. E. Savage)	circa 1911	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

ISGS field notes (Fulton County) - Mine type, shaft location, seam, depth, thickness.

**Mine Index 5298**  
**Hayes Dalton, Dalton Mine**

Type: Underground    Total mined-out acreage shown: 6    Production indicates approximately 2 acres were mined after the map date.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	8N 2E	32	SE SW NE
Air shaft	Fulton	8N 2E	32	SE SW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island				5.0	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Hayes Dalton	Dalton	1923-1925	17,725
Hayes Dalton	Dalton	1925-1929	5,425 *
			23,150

\* Production after map date

Last reported production: 1929

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351681	7-17-1925	1:480	1:927	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Fulton County) - Mine type, seam, depth, thickness.  
 Microfilm map, document 351681, reel 03137, frame 45 - Slope & shaft locations, mine outline, mining method.



**Mine Index 7696****W. E. Dallefeld, Dallefeld No. 1 Mine**

Type: Underground    Total mined-out acreage shown: 1

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 2E	32	SE NW SE
Air shaft	Fulton	8N 2E	32	NW NE SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island					MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Dallefeld & Glore	Dallefeld & Glore	1932-1933	5,714
W. E. Dallefeld Coal Company	Dallefeld No. 1	1934-1936	<u>14,292</u> 20,006

Last reported production: 1936

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351623	4-20-1935	1:480	1:629	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Microfilm map, document 351623, reel 03136, frame 435 - Shaft locations, mine outline, mining method.

## OTHER MINES SHOWN ON LONDON MILLS QUADRANGLE

Mine Index 5189 NE SE NE 6-T8N-R2E, Colchester Coal source: ISGS field notes (T. E. Savage, undated)  
 Mine Index 5264 SE SE SE 32-T8N-R2E, shaft, Rock Island Coal source: Federal Land Bank Report (4-20-1933)  
 Mine Index 7697 E ½ SE SE 2-T8N-R1E, surface source: ISGS field notes (T. E. Savage, undated)  
 Mine Index 7698 NE SW NW 6-T8N-R2E, drift source: ISGS field notes (T. E. Savage, undated)  
 Mine Index 7699 NE NW NW 6-T8N-R2E, drift, 1.5-2.0 feet thick source: ISGS field notes (T. E. Savage, undated)  
 Mine Index 7700, Key Coal Company SW 32-T8N-R2E, surface source: ISGS field notes (J. A. Brophy, 8-21-1957)  
 Mine Index 7701 NW SE SE 10-T8N-R1E, slope, Rock Island Coal, 4.0 feet thick source: ISGS field notes (T. E. Savage, undated & G. H. Cady, 1916)  
 Mine Index 7702 SE NW SE 12-T8N-R1E, drift source: ISGS field notes (H. E. Culver, 6-20-1922 & 9-24-1923)  
 Mine Index 7703 SE NW NW 4-T8N-R2E, surface source: ISGS field notes (T. E. Savage, undated)  
 Mine Index 7704 SW SE SW 5-T8N-R2E, shafts, 20 to 24 feet deep source: ISGS field notes (T. E. Savage, undated)  
 Mine Index 7705 NW NE SE 22-T8N-R2E, surface, 2.5 feet thick source: ISGS field notes (T. E. Savage, undated) and ISGS map library, 4107 d5-21, sheet 1, Avon (15-minute) Quadrangle work map  
 Mine Index 7706 NE SW SW 27-T9N-R2E, surface, Colchester Coal, 2.5 feet thick source: ISGS field notes (T. E. Savage, undated) and ISGS map library, 4107 d5-21, sheet 1, Avon (15-minute) Quadrangle work map  
 Mine Index 7707 SE NE SW 28-T9N-R2E, Colchester Coal, 2.5 feet thick source: ISGS field notes (T. E. Savage, undated & H. R. Wanless, 7-22-1929)  
 Mine Index 7708 SE SE SE 29-T9N-R2E, surface, Colchester Coal source: ISGS field notes (T. E. Savage, undated) and ISGS map library, 4107 d5-21, sheet 1, Avon (15-minute) Quadrangle work map

## MINES WHOSE LOCATIONS ARE NOT KNOWN, LONDON MILLS 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 operators listed below mined in or near the London Mills Quadrangle. The information shown 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.

The total tons mined by these unlocated mines is 164,111 (101,522 underground; 1,699 surface mined; 60,890 mined by uncertain method), which would represent approximately 25 to 100 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

### ABINGDON (Knox County)

Anderson (Matthew), 1881-1882, drift, —, 45, 1.5	250 tons
Miller (J. H.), pre1881-1882, shaft, —, 30, 2.0	500 tons
Duffield (C. W.), 1882-1884, shaft, Colchester, 85, 2.0, RP	1,800 tons
Duffield Brothers, 1884-1885	2,400 tons
Reed (W. B.), 1885-1888	<u>520 tons</u>
	4,720 tons
Bonney (H. E.), 1898-1907, slope/drift, Colchester, 10-45, 1.67-2.0, RP	7,967 tons
Davis (Charles), 1899-1900, drift, —, —, 1.83, RP	320 tons
Tell (Charles), 1903-1904, drift, Colchester, —, 1.83-2.0, RP	400 tons
Tell (James), 1904-1905	<u>240 tons</u>
	640 tons
Lomax (Leroy), 1903-1904, drift, Colchester, —, 1.67-2.0, RP	320 tons
Lomax (Lee), 1905-1906	<u>360 tons</u>



	680 tons
Cross (Charles), 1903-1904, drift, Colchester, —, 1.67-2.0, RP	200 tons
Cross (James), 1904-1905	80 tons
Cross & Carson, 1905-1906	240 tons
Pointer & Cross, 1906-1907	<u>400</u> tons
	920 tons
Dewitt (Abel), 1903-1904, drift, Colchester, —, 2.0, RP	160 tons
Ernst (A. J.), 1903-1904, drift, Colchester, —, 2.0, RP	80 tons
Carson (William), 1904-1909, drift, Colchester, —, 1.67-2.0, RP	1,280 tons
McCullough (James C.), 1904-1906, slope/drift, Colchester, 10, 1.5-1.83, RP	460 tons
Quinn (Frank), 1904-1906, drift, Colchester, 15, 1.83-2.0, RP	80 tons
Quinn (George), 1906-1907	240 tons
Quinn (Frank), 1907-1909	<u>340</u> tons
	660 tons
Foster (Will), 1905-1906, slope, Colchester, 4, 1.67, RP	480 tons
Poole (Milton), 1905-1907, drift, Colchester, —, 1.83-2.0, RP	420 tons
Wilkin (John), 1905-1906, slope, Colchester, 6, 1.67, RP	120 tons
Burgess (Jacob), 1905-1906, drift, Colchester, —, 1.67, RP	50 tons
McGrew (Elmer), 1905-1906, drift, Colchester, —, 1.67, RP	40 tons
Nelson (Sam), 1906-1908, slope/drift, Colchester, 10, 1.67-2.0, RP	680 tons
Pointer (L. V.), 1907-1908, slope, Colchester, 12, 1.67, RP	400 tons
Stuckey (William), 1907-1908, slope, Colchester, 15, 1.67, RP	360 tons
Gordon (John), 1907-1908, slope or drift, Colchester, 12, 1.67-2.0, RP	160 tons
Gordon (Ed), 1908-1909	<u>120</u> tons
	280 tons
Burrett (Mark), 1907-1908, slope, Colchester, 20, 1.67, RP	140 tons
Burrett (William), 1908-1909, shaft, Colchester, 30, 2.0, RP	1,200 tons
Smith (C. E.), 1907-1908, drift, Colchester, —, 1.67, RP	120 tons
Phelps (William), 1908-1909, drift, Colchester, —, 2.0, RP	80 tons
Chase (Ben), 1927-1927	55 tons
Chasey (Ben), 1929-1929, surface	72 tons
Colwell (James), 1929-1929, underground	71 tons
Pointer (L. V.), 1929-1930, underground	40 tons
Pointer (F. V.), 1931-1931	<u>1,050</u> tons
	1,090 tons
Brown (Forrest), 1934-1934, surface	450 tons
Winchell Coal Company, 1934-1934, underground	67 tons
Pointer & Button, 1936-1936, underground	40 tons

**AVON** (Fulton County)

Caldwell (Thomas), 1896-1899, slope or shaft, Colchester, 35-40, 2.3-5.0, RP	3,483 tons
Chatterton Brothers, 1896-1897, slope, —, 40, 2.5, RP	400 tons
Stannard (R.), 1898-1899, drift, Colchester, 35, 2.33	120 tons
Belding (R.), 1901-1902	320 tons
Hubble (Frank), 1907-1917, slope or drift, —, 40-150, 2.5-5.0, RP	7,470 tons
Hubble (William), 1911-1913, shaft, Colchester, 40-60, 3.0, RP	1,800 tons
Weaver (Prentis), 1911-1913, drift, Springfield, 40-75, 2.67-3.5, RP	550 tons
Clayton & Company, 1910-1911, drift, Colchester, 30, 3.0, RP	800 tons
Cole (Charles), 1911-1913, drift, —, 40-65, 2.5-3.5, RP	470 tons
Krieden (G. F.), 1917-1922, underground	3,557 tons
Krider (Frank), 1922-1924	5,693 tons
Kreider (G. F.), 1924-1925	120 tons
Krider (Frank), 1925-1925	750 tons
Kreider (G.), 1926-1927	120 tons
Krida (Frank), 1928-1928	<u>108 tons</u>
	10,348 tons
Astott (R. A.), 1918-1920	82 tons
Astott (Mrs. Jennie & R. A.), 1920-1921	<u>378 tons</u>
	460 tons
Baughman (William), 1919-1920	360 tons
Horr (E.), 1922-1923	1,250 tons
Foster & Statler, 1922-1923	410 tons
Statler & Yocum, 1923-1924	<u>155 tons</u>
	565 tons
Elston (Albert), 1923-1924	2,240 tons
Clayton (Harry), 1923-1924	800 tons
Haren & Clayton, 1924-1925	<u>1,267 tons</u>
	2,067 tons
Baxter (Harry), 1923-1924	585 tons
Zimmerman (George), 1925-1927	2,111 tons
Big Hollow Coal Company, 1925-1926	1,580 tons
Mulhatten (L. J.), 1928-1929, underground	990 tons
Sneider (G.), 1929-1929, underground	40 tons
Clayton (Frank), 1932-1932, underground	2,000 tons
Tatter Holler Coal Company, 1934-1934, underground	375 tons
Blagden (Arthur), 1934-1935, underground	569 tons



**AVON** (Knox County)

Clayton (Harry), 1924-1925	100 tons
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**ELLISVILLE** (Fulton County)

Alyes (N.), 1885-1886, drift, Herrin, —, 4.0, RP	620 tons
Emberling (G. H.) Coal Company, 1905-1909 shaft, Rock Island, 35-45, 3.0-4.0, RP	8,290 tons
Dalton (Hayes), 1917-1923	17,121 tons
Parkins (F. L.), 1917-1918	600 tons
Parkin (T. L.), 1918-1919	970 tons
Parkins (F. L.), 1919-1923	<u>7,760</u> tons
	9,330 tons
Smith (Clarence), 1926-1926	1,174 tons
Chasteen Coal Company, 1934-1934, underground	125 tons
Kennedy (Frank), 1936-1938, underground	40 tons
Strode (John L.), No. 2 Mine, 1939-1940	807 tons
Lindquist & Taylor, 1940-1941	<u>1,442</u> tons
	2,289 tons
Wagner Mine, 1946-1947, underground	237 tons

**LONDON MILLS** (Fulton County)

Cline (James), 1889-1893, shaft, —, 25-40, 3.0-3.5, RP	6,683 tons
Cline (J.) & Son, 1893-1897	<u>1,180</u> tons
	7,863 tons
Emery (L. Y.), 1896-1897, drift, —, 40, 4.0, RP	300 tons
Parr (John), 1905-1906, drift, Springfield, 35, 4.5, RP	640 tons
Sheets (W. A.), 1905-1906, drift, Rock Island, 30, 2.33, RP	80 tons
Hocksworth (F.), 1909-1910, drift, Springfield, —, 4.5, RP	400 tons
Sheets (William A.), 1910-1917, drift, Springfield, 30-75, 4.33-5.0, RP	3,645 tons
Hagaman (Charles E.), 1917-1923	1,587 tons
Hagaman & Knickerbalker, 1923-1924	2,245 tons
Hagaman (C. E.), 1924-1926	5,036 tons
Hagaman & Groom, 1927-1928	730 tons
Hagerman & Broom, 1929-1929	<u>170</u> tons
	9,768 tons
Simons (John), 1922-1923	1,450 tons
Butler (G. C.), 1923-1925	1,590 tons
Grove & Butler, 1927-1927	380 tons
Butler (Grover C.), 1924-1926	790 tons

**LONDON MILLS** (Knox County)

Irons (J. S.), 1884-1885, shaft, Houchin Creek, 42, 3.0, RP	240 tons
Sheets (William), 1908-1909, drift, Springfield, —, 3.0, RP	160 tons
McGuinness (John), 1928-1928, underground	118 tons
Downin Gravel Company, 1965-1967, surface	1,177 tons

**MAYTON** (Fulton County)

Spoon River Coal Company, 1907-1908, shaft, Rock Island, 80, 5.0, RP	19,355 tons
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**ST. AUGUSTINE** (Fulton County)

Robinson & Stevens, 1909-1910, drift, Rock Island, —, 2.5, RP	900 tons
Stevens (Henry), 1922-1926	7,186 tons
Babbitt (Sherman), 1922-1923	1,170 tons
Prairie Creek Coal Company, 1923-1925	1,995 tons
	3,165 tons



## INDEX OF MINES IN THE LONDON MILLS QUADRANGLE

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