

Springfield Coal

This map accompanies the Coal Mines Directory for the Farmington West Quadrangle and the maps of mines in the Herrin Coal, Farmington West 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

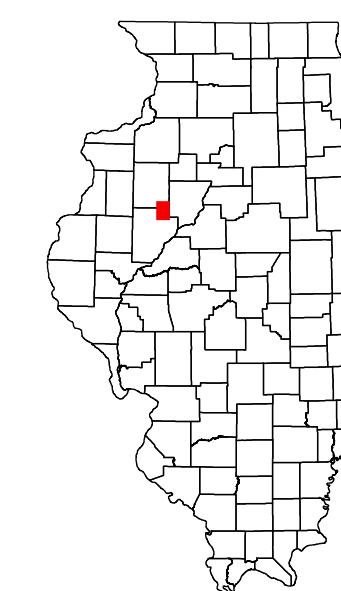
Tipple, Shaft, Slope, Drift Locations

- ✱ 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

Location



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 <https://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 data does not eliminate the need for detailed studies by the user, universities, or 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 undetermined; 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.

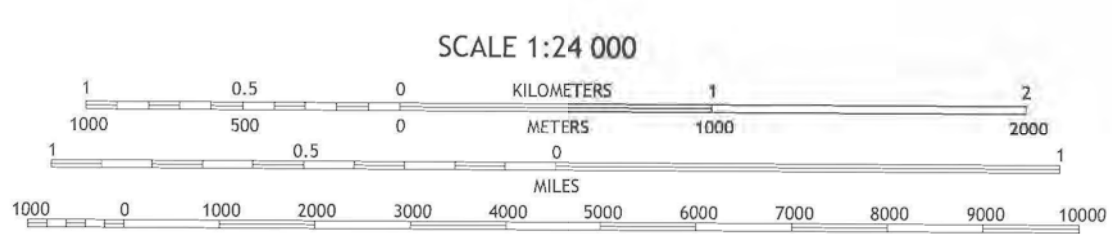
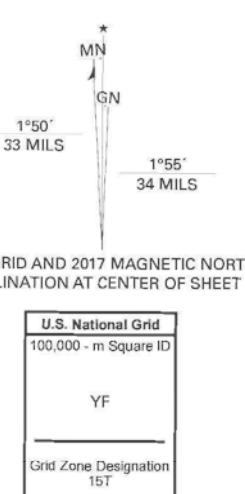
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**Mine Outlines Compiled by
C. Chenoweth**

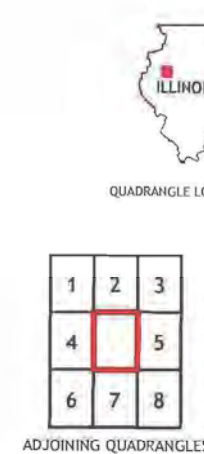
Revised:
Alan R. Myers 01-30-2025

June 2018



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18



ROAD CLASSIFICATION

Expressway		Local Connector	
Secondary Hwy		Local Road	
Ramp		4WD	

 Interstate Route  US Route  State Route

FARMINGTON WEST, IL
2018

1	2	3
4		5
6	7	8

- 1 Maquon
- 2 Yates City
- 3 Elmwood
- 4 Fairview
- 5 Farmington East
- 6 Flatt
- 7 Canton
- 8 Banner

DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

FARMINGTON WEST QUADRANGLE

FULTON & KNOX COUNTIES

C. Chenoweth



2018
REVISED 2025

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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 FARMINGTON WEST QUADRANGLE

The mine notes for Dorthel No. 2 Mine (mine index 111) indicated that the Herrin Coal in this area was reputed to have two blue bands and many horsebacks in the seam. These impurities contributed to the Springfield Coal being the more-heavily mined seam, especially for mines with a longer productive lifespan and a large aerial extent. However, the earliest mining in the vicinity was in the upper coal due to the relative ease of accessing the coal. These old mines were along Littlers Creek just west of Farmington in Fulton County, and operated before 1871. Both the Herrin and Springfield Coals were shallow enough to be surface mined, especially as machine capacity increased through the 1940s and 1950s. Most of the older mines were underground. The last underground mines of the Farmington area were closed in 1952: the Alden No. 5 Mine (mine index 110) and D. & D. No. 3 Mine (mine index 2246).

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.

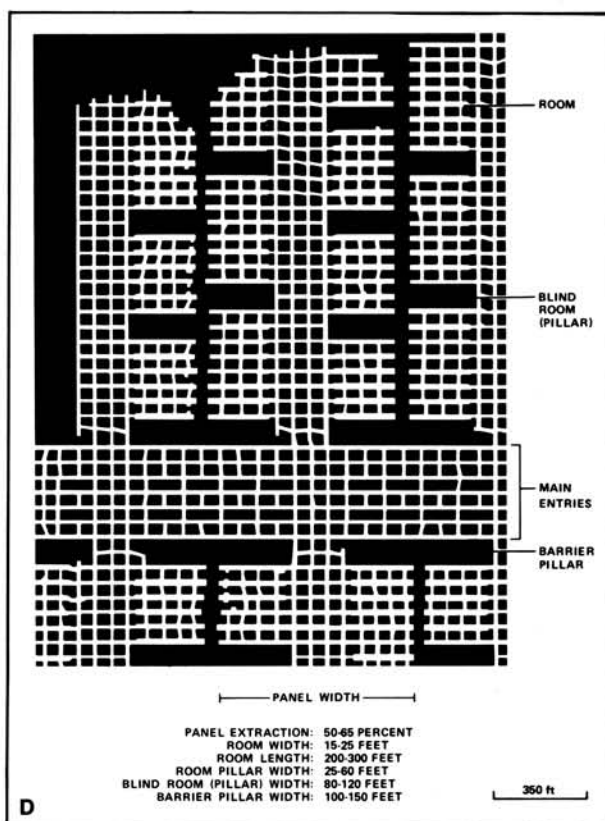
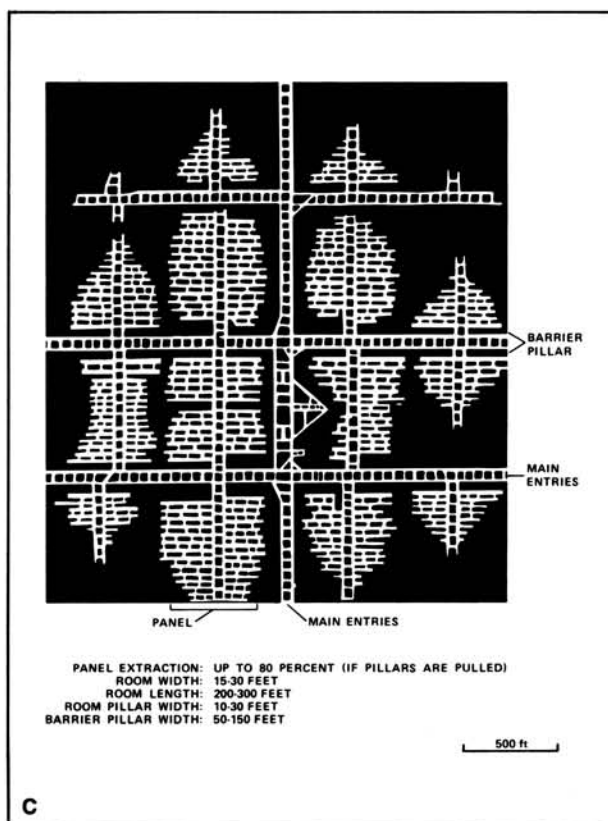
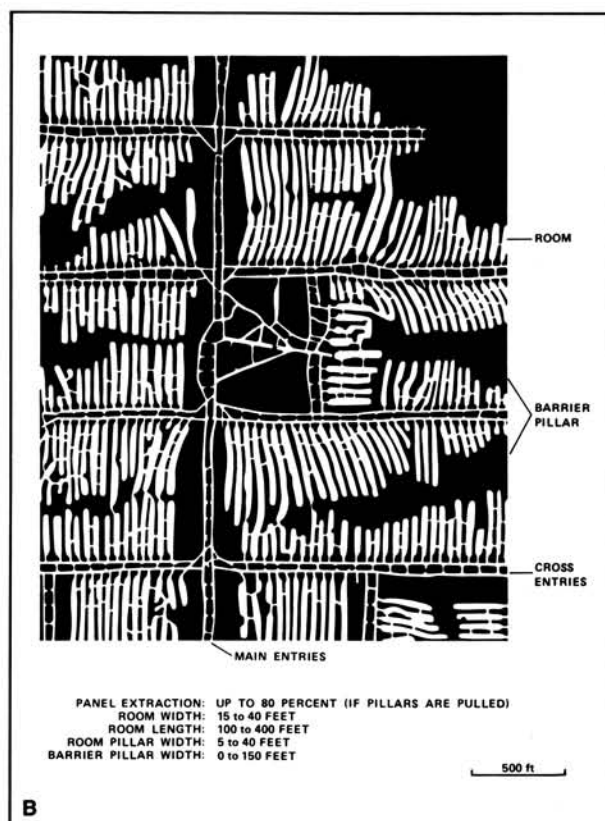
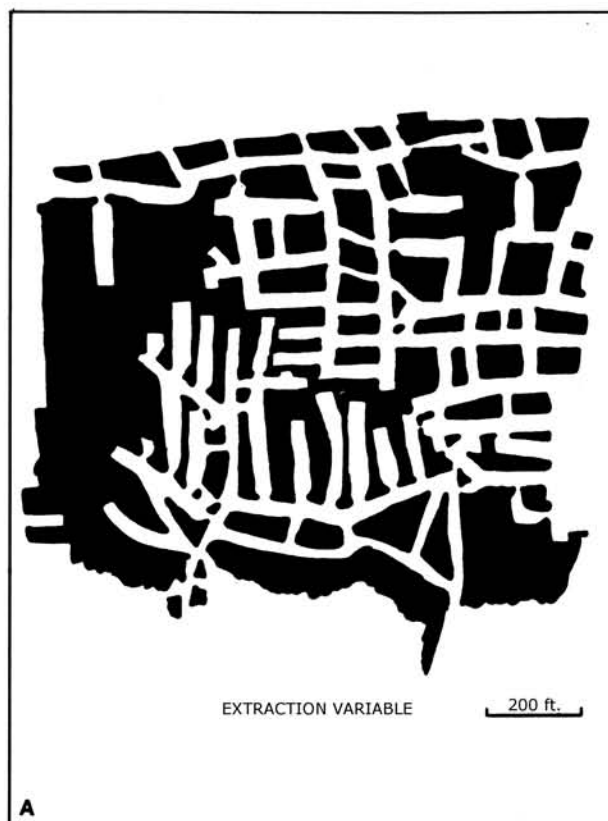


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

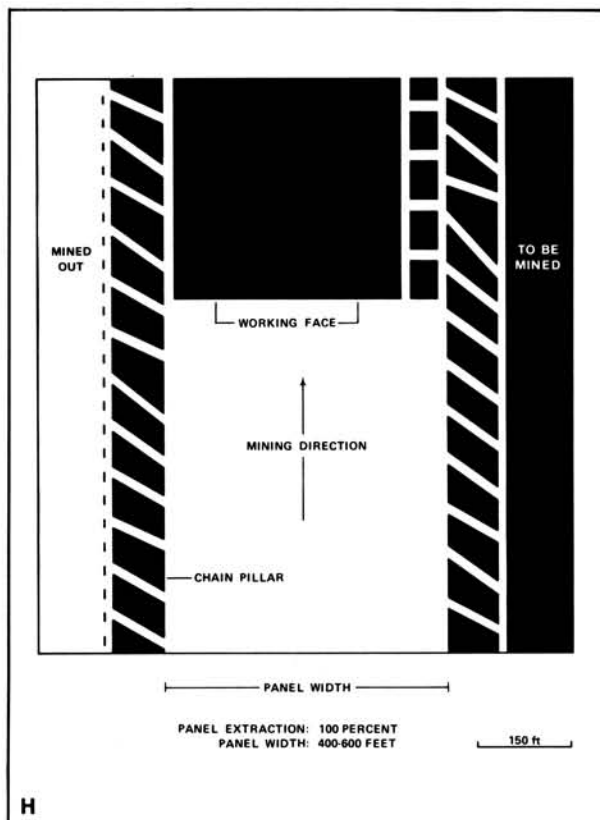
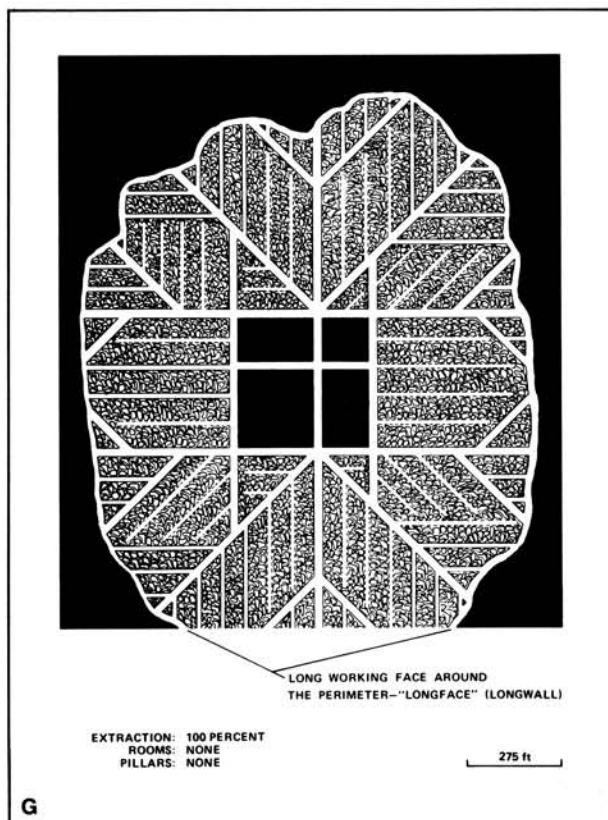
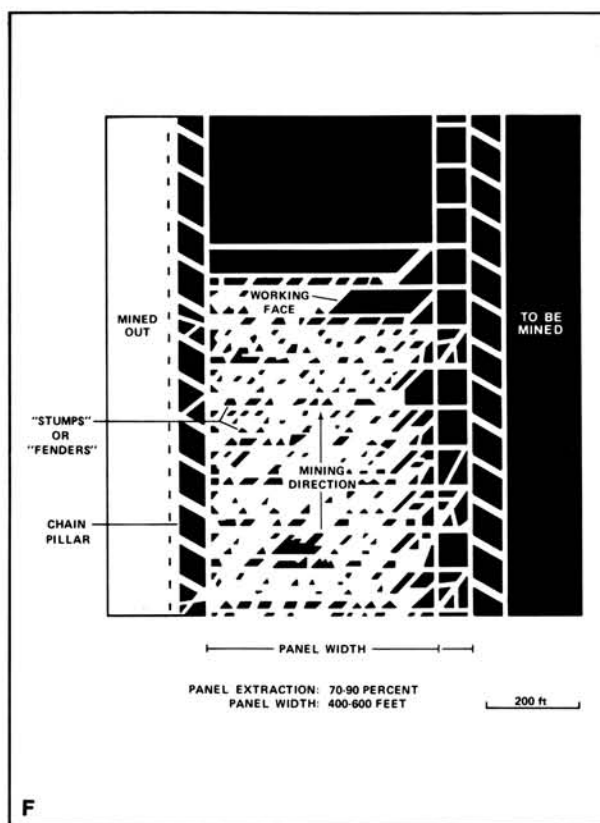
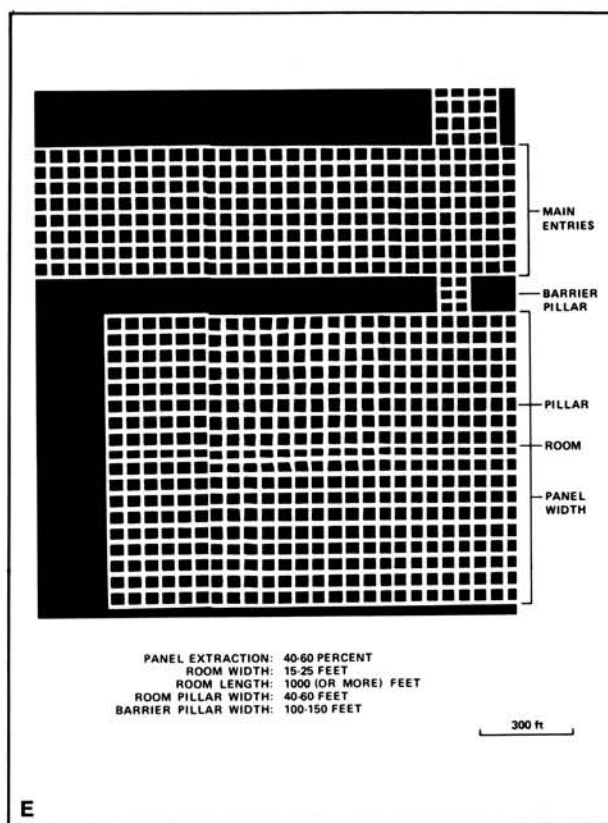


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

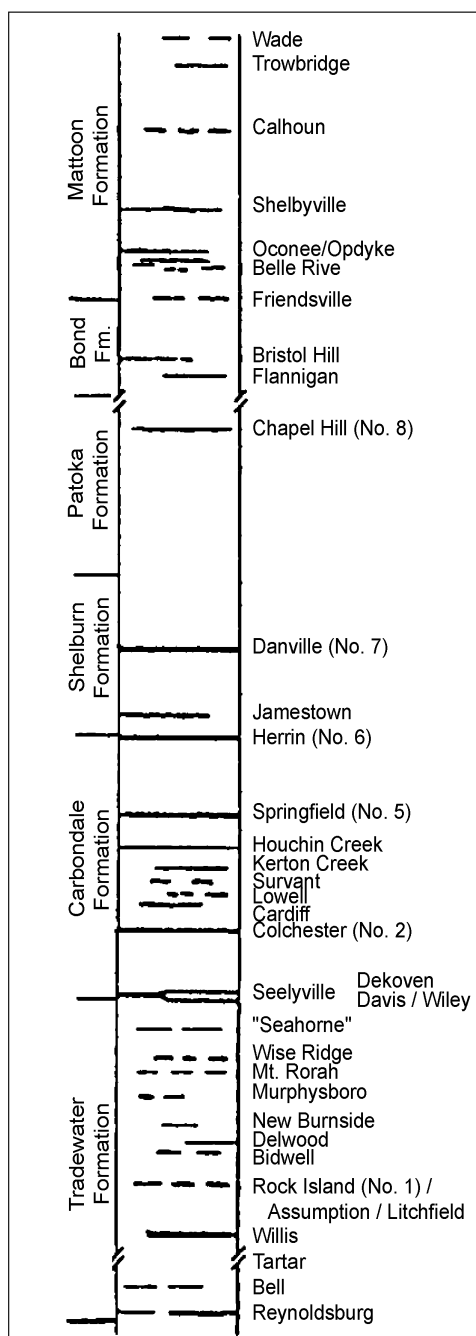


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

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

Andreas, Lyter & Co., 1871, Atlas Map of Fulton County, Illinois, Davenport, Iowa.

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.

Worthen, A. H., H. M. Bannister, F. H. Bradley and H. A. Green, 1870, Geology and Paleontology, Volume IV, Geological Survey of Illinois, State Journal Steam Press, Springfield, Illinois, 508p.

PART II DIRECTORY OF MINES IN THE FARMINGTON WEST QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Farmington West 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 28

Monmouth Coal Company, Brereton Mine

Type: Underground Total mined-out acreage shown: 885

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (8 x 16 ft)	Fulton	7N 4E	11	NE NW NW
Air shaft (8 x 10 ft)	Fulton	7N 4E	11	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	142	4.0	4.67	4.33	RPP

Geologic Problems Reported: The limestone was generally 18 to 24 inches above the coal, but only averaged 6 inches thick. The interval between the coal and limestone was black shale, with 2 to 6 inches of draw slate in some parts of the mine. Some horsebacks and small clay slips were noted. The coal contained some small charcoal bands and streaks of pyrite in thin, discontinuous bands. The floor was 12 to 18 inches of underclay. The mine was dry, which preventing heaving. Large boulders were sometimes found in the floor in the northeastern part of the mine. The bedding planes of the coal arched over the boulders, which had many calcite-filled cracks. The boulders had to be broken up with dynamite.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Monmouth Coal Company	Brereton	1901-1924	<u>3,498,270</u> 3,498,270

Last reported production: April 1924

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351587	4-3-1924	1:2400	1:4634	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, shaft sizes.

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.

Microfilm map, document 351587, reel 03136, frames 374-377 - Shaft locations, mine outline, mining method.

Mine Index 29

Alden Coal Company, Alden No. 6 Mine

Type: Underground Total mined-out acreage shown: 344 Production indicates approximately 7 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	27	SW NW SW
Air shaft	Fulton	8N 4E	27	NW SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	140-190			4.0-5.0	MRP

Geologic Problems Reported: The source map showed various areas labeled "dirty coal".

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Alden Coal Company	Alden No. 6	1909-1923	1,436,456
Alden Coal Company	Alden No. 6	1923-1924	28,801 *
			1,465,257

* Production after map date

Last reported production: March 1924

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351689	6-13-1923	1:2400	1:4634	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness.

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

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

Microfilm map, document 351689, reel 03137, frames 54 & 55 - Shaft locations, mine outline, mining method, geologic problems.

Mine Index 30
Maplewood Coal Company, Maplewood No. 2 Mine

Type: Underground Total mined-out acreage shown: 610 Production indicates approximately 160 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	15	NW NW SE
Air shaft	Fulton	8N 4E	15	NW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	146	3.5		4.2	MRP

Geologic Problems Reported: The immediate roof was 4 to 6 inches of carbonaceous shale that contained concretions, with 18 to 30 inches of black shale above. The cap rock was 12 to 18 inches of limestone. Pyrite was present as thin bands and some concretions. Clay veins in the coal were common. The underclay was 18 to 24 inches thick and heaved badly when wet.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Maplewood Coal Company	Maplewood No. 2	1904-1915	2,303,179
Maplewood Coal Company	Maplewood No. 2	1915-1923	605,048 *, **
			2,908,227

* Production after map date

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

Last reported production: May 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351703	4-1915	1:2400	1:4303	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, shaft location, seam, depth, thickness, geologic problems.

Microfilm map, document 351703, reel 03137, frames 77 & 78 - Shaft locations, mine outline, mining method.

Mine Index 110
Illinois Colliery Company, Alden No. 5 Mine

Type: Underground Total mined-out acreage shown: 622

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	2	NW SW NE
Air shaft	Fulton	8N 4E	2	SW NW NE
Air shaft	Fulton	8N 4E	1	SW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	185			4.06	MRP

Geologic Problems Reported: The immediate roof was 2 feet of black shale, with 6 to 8 inches of clod above that, and 4 to 8 inches of limestone above the clod. This roof shale was cut out in haulage routes to make head room for the mules. Many pyrite nodules and coal balls up to 18 inches in diameter were common in the roof. The coal balls protruded down into the coal and some would drop out of the roof once the coal was removed while some would stay up in the roof indefinitely. The bottom 2 to 6 inches of the black shale roof was a draw slate that would sometimes stay up and sometimes adhere to the coal. Pyrite distribution within the coal seam was irregular but often present in nodules and lenticular layers 2 feet below the roof. Horsebacks were numerous, and cut the coal out completely, but were generally thin. One horseback was 6 feet wide and extended upwards into the roof. The mine was dry and no heaving was noted. Pressurized water was encountered in one room (a horizontal drill hole released the pressure so that the water shot out 30 feet from the hole), but that room was kept sealed and the water pumped out.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Farmington Coal Company	Farmington	1888-1891	49,771
Claire Coal Company	Claire No. 2	1891-1895	149,647
Farmington Coal Company	Nickel Plate	1895-1908	377,362 *
Alden Coal Company	Alden No. 5	1908-1927	1,162,784 **
Illinois Colliery Company	Alden No. 5	1928-1952	<u>761,112</u>
			2,500,676

* Production was incorrectly reported for all mines in 1896, and was not used in the production total.

** Idle 1922

Last reported production: April 1952

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351652	1952	1:2400	1:4966	Final
Federal Land Bank Report	4-1934	1:42560	1:42560	Secondary source
Microfilm, document 351690	1-31-1950	1:2400	1:4303	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, shaft location, seam, depth, thickness, geologic problems.
 Microfilm map, document 351652, reel 03137, frame 15 - Shaft locations, mine outline, mining method.
 Microfilm map, document 351690, reel 03137, frames 56 & 57 - Mine outline (western).
 Federal Land Bank Report map (Fulton County) - Mine outline (western).
 Microfilm map, document 351646, reel 03137, frame 7, map of Westerby No. 2 Mine (mine index 2246) - Air shaft.

Mine Index 111
Dorthel Coal Company, Dorthel No. 2 Mine

Type: Underground Total mined-out acreage shown: 612

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft *	Fulton	8N 4E	3	SW NE SE

* An air shaft is known to exist, as mine notes indicate the air shaft was on a hill. No air shaft was shown on the source maps and its location is unknown.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	70-90	3.9	4.25	4.0	MRP

Geologic Problems Reported: The limestone cap rock was present and ranged from 2 to 3 feet above the coal. The immediate roof was a laminated black shale that was "frozen" to the coal, which increased the ash content. Top coal ranging from 4 to 9 inches was left up to reduce the ash content by leaving the roof rock in place. Horsebacks were common in some parts of the mine. A persistent thin band of laminated clay and pyrite was present, and some portions of the coal contained concretions, pyrite lenses, and lenticular clay masses. The floor was 12 to 20 inches of underclay. Heaving was not a problem.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Alden Coal Company	Alden No. 8	1914-1925 **	1,115,224
Kickapoo Coal Mining Company	Alden No. 8	1926-1926	31,870
Dorthel Coal Company	Dorthel No. 2	1927-1936 ***	<u>1,169,473</u>
			2,316,567

** Idle 1925

*** Idle 1933

Last reported production: March 1936

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2055	4-10-1936	1:2400	1:2400	Final
Microfilm, document 351608	9-10-1925	1:2400	1:5462	Secondary source
Federal Land Bank Report	4-1934	1:42560	1:42560	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.

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

State archive, IL_2055 - Mine outline (incomplete), mining method.

Microfilm map, document 351608, reel 03139, frames 408 & 409, map of Silver Creek Mine (mine index 112, later Dorthel No. 5 Mine) - Shaft location, mine outline (southern portion).

Federal Land Bank Report (Fulton County) - Mine outline (southeastern).

Mine Index 112
Dorthel Coal Company, Dorthel No. 5 Mine

Type: Underground Total mined-out acreage shown: 322 Production indicates approximately 65 acres were mined after the map date. The Silver Creek Mine was later surface mined by Middle Grove Mine (mine index 621).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	4	SE SW SE
Air shaft	Fulton	8N 4E	4	SE SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	48			3.5-4.3	RPP

Geologic Problems Reported: The cap rock was poor limestone up to 8 inches thick, but not always present. The immediate roof to the coal was up to 10 inches of black shale, and the intervening layer was draw slate up 10 inches thick. The black shale often stuck to the coal. Clay layers up to 1/4 inch thick were noted as well as occasional pyrite nodules. One pyrite boulder was seen in the gob that was 3 to 4 inches thick and 12 to 18 inches long. Horsebacks of clay and spar were numerous. Floor heaving took place when the entries were wet.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Silver Creek Colliery Company	Silver Creek	1910-1927	2,267,956
Dorthel Coal Company	Dorthel No. 5	1928-1936	<u>Unknown</u> *
			2,267,956

* No production was reported under this name. Any production that took place was likely reported under Dorthel No. 2 Mine (mine index 111).

Last reported production: March 1927

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351608	9-10-1925	1:2400	1:5462	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, shaft location, seam, depth, thickness, geologic problems.

Microfilm map, document 351608, reel 03136, frames 408 & 409 - Shaft locations, mine outline, mining method.

Mine Index 113
Maplewood Coal Company, Maplewood No. 1 Mine

Type: Underground Total mined-out acreage shown: 652 Production indicates approximately 28 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	11	NE SW NW
Air shaft	Fulton	8N 4E	11	NW SE NW
Air shaft	Fulton	8N 4E	11	SW SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	122	3.8	5.0	4.2	MRP

Geologic Problems Reported: Some gas was noted in roof falls, especially when the mine was wet. The black shale roof contained a layer of coal balls that sometimes extended down into the top coal. The coal was uniform from top to bottom. Some clay veins were noted, ranging from 3 to 6 inches wide.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Jeff Burbridge	Burbridge	1886-1887	7,680
Burbridge & Parmely	Burbridge & Parmely	1887-1888	14,200
D. J. Parmely & Company	Parmely	1888-1889	10,600
Maplewood Coal Mining Company	Maplewood	1889-1891	19,375
W. L. Pierce & Company	Pierce	1891-1892	20,500
Maplewood Coal Mining Company	Maplewood	1892-1893	66,489
W. L. Pierce & Company	Pierce	1893-1894	37,931
Maplewood Coal & Mining Company	Maplewood	1894-1897	81,893 *
W. L. Pearce & Company, lessee	Maplewood	1897-1898	30,887
Newsam Brothers, lessee	Maplewood	1898-1899	22,190
Maplewood Coal Company	Black Hawk	1899-1906	931,200
Maplewood Coal Company	Maplewood No. 1	1906-1924	1,461,721
Maplewood Coal Company	Maplewood No. 1	1924-1925	<u>104,255</u> **
			2,808,921

* The 1896 production was not included in the tonnage because the values appeared to be random and unreliable, and not related to the number of employees and days of operation.

** Production after map date

Last reported production: 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351691	4-1-1924	1:2400	1:5131	Not final
Federal Land Bank Report	4-1934	1:42560	1:42560	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.

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

Microfilm map, document 351691, reel 03137, frame 58 - Shaft locations, mine outline (eastern), mining method.

Federal Land Bank Report map (Fulton County) - Mine outline (western).

Mine Index 114**Canton Coal Company, Canton Mine**

Type: Underground Total mined-out acreage shown: 762

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (9 x 16 ft)	Fulton	8N 4E	34	SE NW SW
Air / escape shaft	Fulton	8N 4E	34	NE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	108			4.0	RPP

Geologic Problems Reported: The cap rock was 6 to 12 inches of limestone above 24 to 30 inches of black shale. Between the coal and black shale was 4 inches of draw slate. Horsebacks were abundant and bothersome. Because the clay in the horsebacks was difficult to separate from the adjacent coal, much coal was left as refuse. Impurities in the coal included pyrite lenses that were 1/8 inch thick and generally less than 2 feet long.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Canton Coal Company	Canton	1917-1934	<u>3,197,977</u> 3,197,977

Last reported production: October 1934

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351576	2-15-1935	1:2400	1:4966	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, shaft size.

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.

Microfilm map, document 351576, reel 03136, frames 358 & 359 - Shaft locations, mine outline, mining method.

Mine Index 621

Peabody Coal Company, Middle Grove Mine

Type: Surface Total mined-out acreage shown: 16,152 (7,733 in the Herrin Coal and 8,419 in the Springfield Coal) The area shown is larger than expected for the reported production. Production indicates approximately 7,500 acres were mined. It is likely that production was not recorded, such as years when production was reported for only Fulton County or only Knox County.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Fulton	8N 3E	2	SE SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	15-48			3.07-4.07	Surface
Springfield	56-75			3.0-3.83	Surface

Geologic Problems Reported: The Herrin Coal sometimes had up to 4 inches of bone coal at the bottom of the seam. The Springfield Coal included horsebacks that reduced production.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Midland Electric Coal Corporation	Middle Grove No. 2	1933-1963	20,970,266 *
Midland Electric Coal Corporation	Middle Grove No. 3, Rapatee No. 2	1942-1963	14,333,136 **
Midland Electric Coal Corporation	Middle Grove No. 085	1963-1967	6,162,061
Peabody Coal Company	Middle Grove	1968-1968	<u>561,763</u>
			42,027,226

* Production, although listed in Fulton County, may include some Knox County production. All production from 1954 to 1962 was listed in Knox County, although mining did take place in Fulton County in that time period. The mine notes indicate that as many as 25 pits were operating at the same time.

** Knox County production; idle 1947

Last reported production: May 1968

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 10-9-7	3-1978	1:12000	1:12000	Not final
NAIP digital ortho-photo quadrangles	2004	1:6000	1:6000	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.

Mine notes (Fulton County) - Mine type, mine location, seam, depth, geologic problems.

Company map, Coal Section files, 10-9-7 - Mine outline.

National Agriculture Imagery Program map, digital ortho-photo quadrangle map, 2004 - Mine outline.

ISGS map library, 4102 i5.1-122 (8-1959) - Pit identification.

Mine Index 706**Midland Coal Company, Elm No. 2 or Bright Star Mine**

Type: Surface Total mined-out acreage shown: 4,556 The area shown on the accompanying map is larger than expected for the reported production. Production indicates approximately 2,575 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Fulton	8N 3E	20	NW SE SE
Tipple	Fulton	8N 3E	23	SE SW SW *

* More recent tipple, after mining to the west had ceased.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	40-49			3.5-4.25	Surface
Springfield	47-87	3.83	4.75	4.25	Surface

Geologic Problems Reported: Clay dikes were noted cutting through the seam, some up to 16 inches wide.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Fairview Collieries Company	Flamingo	1942-1964	14,370,398
Peabody Coal Company	Bright Star	1964-1970	3,034,796
Midland Coal Company	Elm No. 2, Bright Star	1970-1972	439,483
			17,844,677

Last reported production: April 1972

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
NAIP digital ortho-photo quadrangles	2004	1:6000	1:6000	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.

Mine notes (Fulton County) - Mine type, mine location, seam, geologic problems.

National Agriculture Imagery Program map, digital ortho-photo quadrangle map, 2004 - Mine outline.

ISGS map library, 4103.F8 i5.1-75 - Pit identification, thickness.

Mine Index 922
John Bruketta, Bruketta Mine

Type: Underground Total mined-out acreage shown: 24 Production indicates that approximately 46 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	36	SE SE SE
Hoist shaft	Fulton	8N 4E	36	SE SW SE
Air shaft	Fulton	8N 4E	36	cen SW SE
Hoist shaft	Fulton	8N 4E	35	NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	80			4.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Bruketta	Bruketta	1934-1949	74,773
John Bruketta	Bruketta	1949-1960	130,083 *
			204,856

* Production after map date

Last reported production: April 1960

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.F8 i5.1-2	12-1-1949	1:1200	1:1200	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, shaft location (SE SE SE 36-T8N-R4E), seam, depth, thickness.
 ISGS map library, tracing of company map, 4103.F8 i5.1-2 - Shaft locations, mine outline.
 Microfilm map, document 351688, reel 03137, frame 53 - Mining method.
 Microfilm map, document 355105, reel 03148, frame 74 - Hoist shaft (NE 35-T8N-R4E). **

** The map showed east-west trending entries about ½ mile north of the workings that can be related to features on the land surface, but the map showed no land surface features, and the location is known only from the map legend. The shaft is shown in the center of NE 35-T8N-R4E, but an accurate location is not known.

Mine Index 961
Mid State Coal Company, Rapatee Mine

Type: Surface Total mined-out acreage shown: 1,629

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit or tippie	Fulton	8N 3E	1	SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	50-70			3.43-4.07	Surface
Springfield	10-100			3.5-4.0	Surface

Geologic Problems Reported: The Springfield Coal had a plethora of clay dikes, with up to 10 clay dikes observed along a 500-foot stretch of highwall. The high sulphur content contributed to the mine closing.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Midland Coal Company	Rapatee	1976-1988	6,595,328
Mid State Coal Company	Rapatee	1989-1996	<u>3,456,896</u>
			10,052,224

Last reported production: August 1996

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
NAIP digital ortho-photo quadrangles	2004	1:6000	1:6000	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.
 Mine notes (Fulton County) - Mine type, pit location, seam, depth, geologic problems.
 National Agriculture Imagery Program map, digital ortho-photo quadrangle map, 2004 - Mine outline.
 Coal Section files, 6-392 (1985) - Pit identification.

Mine Index 1024**Silver Creek Coal Company, Bear Mine**

Type: Surface Total mined-out acreage shown: None; estimated production indicates less than 5 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple or pit	Knox	9N 4E	27	SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Silver Creek Coal Company	Bear	1999-2000	Unknown *

* The company was not listed in the Coal Reports of 1998 through 2001, and is known only through newspaper articles about lawsuits regarding lack of mining permits. The notes indicate that less than 5,000 tons had been sold and "a few thousand tons" of coal was still stockpiled on site on the ground in 2000, but that by March 2001, all the equipment had been removed and the owner had filed for bankruptcy.

Last reported production: 2000

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	2001	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

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

Mine notes (Knox County) - Mine location, mine type, seam, mining method.

Mine Index 2110
Pete Maccanelli Coal Company, Maccanelli Mine

Type: Underground Total mined-out acreage shown: 3

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	8N 4E	7	SW NW SW
Air shaft	Fulton	8N 4E	7	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	50			4.5	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Pete Maccanelli Coal Company	Maccanelli	1950-1957	<u>13,662</u> 13,662

Last reported production: 1957

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351657	5-15-1957	1:2400	1:2814	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 351657, reel 03137, frame 20 - Slope & shaft locations, mine outline, mining method.

Mine Index 2198
Rawalt Coal Company, Rawalt Mine

Type: Underground Total mined-out acreage shown: 73 Production indicates 8 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	7N 4E	2	NE NW NW
Air shaft	Fulton	7N 4E	2	NE NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	116			4.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Rawalt Coal Company	Rawalt	1935-1945	300,470
Rawalt Coal Company	Rawalt	1945-1946	<u>30,602</u> *
			331,072

* Production after map date

Last reported production: 1946

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, MSHA_1223	4-1-1945	1:1200	1:1200	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, shaft location, seam, depth, thickness.
 State archive, MSHA_1223, courtesy of Robert Gibson, IDNR - Shaft locations, mine outline, mining method.

Mine Index 2246**D. & D. Coal Company, D. & D. No. 3 Mine**

Type: Underground Total mined-out acreage shown: 29 Production indicates approximately 100 acres were mined. The general area of mining shown on the accompanying map is 27 acres, which would indicate that the area shown is 44 acres smaller than production would indicate (probably north and east of the area shown).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	1	SW SW NE
Air shaft	Fulton	8N 4E	1	SW SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	156			4.0	MRP

Geologic Problems Reported: Two roof falls were noted on the source map (microfilm document 351620) in the southern part of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Westerby Brothers	Westerby	1924-1939	181,538
Farmington Coal Company	Farmington	1940-1946	82,751
D. & D. Coal Company	D. & D. No. 3	1946-1952 *	<u>92,346</u>
			356,635

* Idle 1951

Last reported production: 1952

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351620	4-1952	1:1200	1:1738	Final
Microfilm, document 351646	7-1-1925	1:1200	1:1655	Not final
Federal Land Bank Report	4-1934	1:42560	1:42560	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.

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

Microfilm map, document 351620, reel 03136, frame 430 - Shaft locations, mine outline (western, southern), mining method, geologic problems.

Microfilm map, document 351646, reel 03137, frame 7 - Shaft location, mine outline (northern).

Federal Land Bank Report (Fulton County) - Mine outline (northern general area of mining).

Mine Index 2247**Dorthel Coal Company, Dorthel No. 4 Mine**

Type: Underground Total mined-out acreage shown: 98

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

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

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	41			4.67	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Binzel Coal Mining Company	Binzel	1917-1925	445,577
Farmington Coal Company	Farmington	1926-1927	14,714
Dorthel Coal Company	Dorthel No. 4	1928-1936	<u>Unknown</u> *
			460,291

* No production was listed under the name Dorthel No. 4. It is likely that the production was combined with Dorthel No. 2 Mine (mine index 111) or Dorthel No. 3 Mine (mine index 2248). The acres mined (98) is in line with the reported production, and it seems likely that production as Dorthel No. 4 was low.

Last reported production: 1927

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2300_01	10-11-1924	1:2400	1:2400	Not final
State archive, IL_2055	4-10-1936	1:2400	1:2400	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam.

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

Mine notes (Fulton County) - Shaft location, depth, thickness.

State archive, IL_2300_01 - Shaft locations, mine outline (southern and western), mining method.

State archive, IL_2055 - Mine outline (northern and eastern), mining method.

Mine Index 2248**Dorthel Coal Company, Dorthel No. 3 Mine**

Type: Underground Total mined-out acreage shown: 726 Much of Dorthel No. 3 Mine was later surface-mined by Middle Grove Mine (mine index 621).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	5	NW SE SW
Air shaft	Fulton	8N 4E	5	NW SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	90-100	3.0	4.5	4.0	RPP

Geologic Problems Reported: In some places, the surficial materials were within 15 to 20 feet of the coal. Where the rock was thin above the coal, the roof tended to come down and allowed water into the workings. Those were the only wet places in the mine, and were the chief difficulties in working the seam. However, after the detailed description, G. H. Cady (7-26-1918) noted that the occurrence of these falls were few as compared to other mines near Farmington. The immediate roof above the coal was a persistent black shale that stuck to the coal. The shale was kept up if possible but that was difficult. Above the black shale was up to 10 inches of clod with 18 inches of limestone above the clod. A little pyrite was seen in the seam, and two clay bands were noted – one about 8 inches below the top of the coal and the other about 18 inches above the bottom. Relatively few horsebacks were seen.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
National Coal Mining Company	National	1908-1925	1,770,499
Hanna City Mining Company	Hanna City No. 2	1926-1926	42,334
Dorthel Coal Company	Dorthel No. 3	1927-1937	837,329
			<u>2,650,162</u>

Last reported production: March 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351609	7-1-1937	1:2400	1:4634	Final
Microfilm, document 351610	6-28-1921	1:2400	1:4634	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, shaft location, seam, depth, thickness, geologic problems.

Microfilm map, document 351609, reel 03136, frames 410 & 411 - Mine outline, mining method.

Microfilm map, document 351610, reel 03136, frames 412 & 413 - Shaft locations.

Mine Index 2250
Newsam Brothers, Maplewood Mine

Type: Underground Total mined-out acreage shown: 413 Production indicates approximately 150 acres were mined. The area shown on the accompanying map is similar to a general area of mining and probably contains not mined areas within the mine, or may contain workings of unknown previous operators.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	11	SE NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	112			3.75-4.33	RP

Geologic Problems Reported: The roof was black shale that was overlain by 2 feet of soft sandstone.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Newsam Brothers	Maplewood	1900-1911	479,985 479,985

Last reported production: 1911

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	4-1934	1:42560	1:42560	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, thickness, mining method.
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Fulton County) - Shaft location, depth, thickness, geologic problems.
 Federal Land Bank Report map (Fulton County) - Shaft location, mine outline.

Mine Index 2251**L. & S. Coal Company, L. & S. Mine**

Type: Underground Total mined-out acreage shown: 13 Production indicates approximately 3 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	8N 4E	30	NW NW NW
Air shaft	Fulton	8N 4E	30	NW NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	60-150			4.0-4.17	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Hawk Valley Coal Company	Hawk Valley	1938-1944 *	3,535
Long & Stevenour	Long & Stevenour	1945-1946	11,837
L. & S. Coal Company	L. & S.	1947-1949	30,536
L. & S. Coal Company	L. & S.	1949-1950	10,991 **
			56,899

* Idle 1942 to 1944

** Production after map date

Last reported production: 1950

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351641	11-15-1949	1:1200	1:1655	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 351641, reel 03137, frame 2 - Slope & shaft locations, mine outline, mining method.

Mine Index 2253

Breeds Coal Company, Breeds Mine

Type: Underground Total mined-out acreage shown: 487 Production indicates approximately 6 acres were mined after the map date (Springfield Coal). A general area of mining illustrates the mining in the Herrin Coal, as no maps are available for that production.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	34	SE SW SE
Air shaft	Fulton	8N 4E	34	SE SW SE
Escape shaft *	Fulton	8N 4E	34	SW NE SW

* This may have been the original shaft that was deepened in 1900 from the Herrin Coal to the Springfield Coal. The escape shaft is shown as a hoist shaft symbol on the accompanying map for the Herrin Coal.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin (1883-1899)	112-125			4.0-5.0	RP
Springfield (1900-1928)	166-185	3.75	4.2	4.0	MRP

Geologic Problems Reported: (Springfield Coal): The limestone cap rock ranged from 4 to 12 inches thick, and was 2 to 3 feet above the coal. The interval between the coal and the cap rock was 2 to 3 feet of clod and black shale. The cap rock had cracks, and after it had been exposed for a while, it was "almost impossible" to keep up the cracked limestone. Horsebacks were not very common but caused considerable waste where they were present. Pyrite nodules up to 3 inches thick and 8 inches across were noted. The most important impurity was masses of silica-rich boulders that came up from the floor, some rising up to 3 feet above the floor.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Hart & Brown (lessee)	Vittum	1883-1884	1,200
Taylor Williams	Williams No. 3	1884-1891	214,450
D. H. Williams	Williams	1891-1897	218,031
T. Parcel (lessee)	Williams	1897-1898	7,720
Norris Coal Company (Herrin Coal)	Norris	1898-1899	20,253
Norris Coal Company (Springfield Coal)	Norris	1899-1915	1,640,951
Genuine Norris Coal Mining Company	Genuine Norris	1916-1919	299,511
Quigley Coal Mining & Sales Company	Quigley	1919-1922	44,008 **
Middleton Coal Company	Middleton No. 1	1922-1923	21,159
Brons Coal Company	Brons	1923-1925	52,292
Oak Leaf Coal Company	Oak Leaf	1925-1925	855
Middleton Coal Company	Middleton No. 1	1926-1926	15,819
Middleton Coal Company	Middleton No. 1	1926-1926	15,818 ***
Breeds Coal Company	Breeds	1927-1928	11,144 ***
			2,563,211

Note: Mining from 1883 to 1899 was in the Herrin Coal, while later mining was in the Springfield Coal.

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

*** Production after map date

Last reported production: 1928

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351569	3-27-1926	1:1200	1:2317	Not final

Annotated Bibliography (data source, brief description of information)

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

Mine notes (Fulton County) - Seam, depth, thickness, geologic problems.

Microfilm map, document 351569, reel 03136, frames 344 & 345 - Shaft locations, mine outline, mining method.

Mine Index 2254**Blakely Coal Company, Blakely Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 12 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	35	SE NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	187-190			4.0-4.33	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Joe Brons	Brons	1931-1936	9,024
Eldon J. Brons	Brons	1937-1942 *	9,236
Blakely Coal Company	Blakely	1943-1944	<u>26,501</u>
			44,761

Last reported production: 1944

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	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.

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

Mine Index 2537
Walker Brothers, Hubbell Mine

Type: Underground Total mined-out acreage shown: 5

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Knox	9N 3E	36	NW NE NE
Air shaft	Knox	9N 3E	36	NW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	11			3.83	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William Melton & Hubble	Melton & Hubble	1925-1925	240
Jake Hubble	Hubble	1926-1928	1,541
Hubble & Morse	Hubble & Morse	1929-1929	280
Jake Hubbell	Hubbell	1930-1936	4,375 *
Hubbell Coal Company	Hubbell	1937-1939	3,612
Walker Brothers	Hubbell	1940-1942	<u>1,523</u>
			11,571

* Production was not listed in 1930 and 1931 for mines producing less than 1,000 tons per year.

Last reported production: 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352463	1942	1:1200	1:993	Not final **

** As the map was dated very vaguely, mining may have taken place after the map was produced. However, production after the map date can not be calculated.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Knox County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Knox County) - Mine type, slope location, seam, depth, thickness.
 Microfilm map, document 352463, reel 03139, frame 144 - Slope & shaft locations, mine outline, mining method.

Mine Index 2541
Morse Coal Company, Morse Mine

Type: Underground Total mined-out acreage shown: 6

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Knox	9N 3E	35	SW SE NE
Air shaft	Knox	9N 3E	35	NE SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	90			3.83	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. B. Morse	Morse	1927-1929	670
Davidson, Morse, Bide & Keemer	Davidson, Morse, Bide & Keemer	1930-1930	1,006
Davison & Morse	Davison & Morse	1931-1931	7,529
Clyde Morse	Morse	1932-1932	1,000
Homer Morse	Morse No. 1	1933-1933	1,008
Homer Morse	Morse No. 2	1934-1936	2,297
Aaron Davison	Davison	1936-1940	8,960 *
Homer Morse	Morse	1941-1941	187
John W. Chester & George Cooley	Morse	1941-1941	425
Cooley Coal Company	Cooley	1942-1942	238
Morse Coal Company	Morse	1942-1942	97
			<u>26,509</u>

* Idle 1940

Last reported production: 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352459	10-3-1942	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 (Knox County) - Mine names, mine index, ownership, years of operation.

Mine notes (Knox County) - Mine type, slope location, seam, depth, thickness.

Microfilm map, document 352459, reel 03139, frame 140 - Slope & shaft locations, mine outline, mining method.

Mine Index 2542
Orville Schatz, Lillie Creek Mine

Type: Underground Total mined-out acreage shown: 51 Production indicates approximately 2 acres were mined after the map date. The area shown is larger than expected for the reported production. Production indicates about 12 acres were mined. The mine workings were not shown on the source map; it is likely that large un-mined areas exist within the mine outline.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Knox	9N 3E	35	NE NW NE
Air shaft	Knox	9N 3E	35	NW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	72			3.83	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Lillie Creek Coal Company	Lillie Creek	1938-1940	23,499
Orville Schatz	Lillie Creek	1941-1942	16,609
Orville Schatz	Lillie Creek	1942-1943	6,347 *
			46,455

* Production after map date

Last reported production: 1943

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352455	8-1-1942	1:1200	1:1986	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Knox County) - Mine type, slope location, seam, depth, thickness.

Microfilm map, document 352455, reel 03139, frame 133 - Slope & shaft locations, mine outline, mining method.

Mine Index 2543
Chester Bennett, Bennett Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined. Not shown on accompanying map because of later surface mining by Middle Grove Mine (mine index 621).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Knox	9N 3E	36	SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	20			3.83	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Charles H. Dehm	Dehm	1935-1936	1,573
Homer Morse	Morse	1937-1937	146
Morse & Bennett	Morse & Bennett	1938-1938	220
Chester Bennett	Bennett	1939-1939	<u>500</u>
			2,439

Last reported production: 1939

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	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 (Knox County) - Mine names, mine index, ownership, years of operation.

Mine notes (Knox County) - Mine type, drift location, seam, depth, thickness.

Mine Index 2545**G. W. Bowman, Bowman Mine**

Type: Underground Total mined-out acreage shown: None; Production indicates approximately 7 acres were mined. The Bowman Mine is not shown on the accompanying map because of later surface mining by Middle Grove Mine (mine index 621).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Knox	9N 4E	26	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	22-50			4.0-4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George Bowman	Bowman	1884-1892 *	4,144
Bowman Brothers	Bowman	1892-1905	20,189
G. W. Bowman	Bowman	1905-1906	936
			25,269

* Idle 1889, 1891 & 1892

Last reported production: 1906

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	8-1935	1:110191	1:110191	Secondary source

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 (Knox County) - Mine names, mine index, ownership, years of operation.
 Federal Land Bank Report (Knox County) - Shaft location, mine outline.

Mine Index 2546
William Mitchell, Purviance Mine

Type: Underground Total mined-out acreage shown: 7 Production indicates less than 1 acre was mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Knox	9N 4E	31	NW SE *
Air shaft	Knox	9N 4E	31	NW SE *
Air shaft	Knox	9N 4E	31	NW SE *

* The mine location is not precise, as the map had no features that could be aligned with the land surface. The map legend listed the location as the west 60 acres of SE 31-T9N-R4E along with a sketch map that showed the mine in the NW SE. As the entire mine could be north or south of the location shown on the accompanying map, more precise slope and air shafts cannot be given.

GEOLOGY

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

Geologic Problems Reported: In the southern part of the mine, the furthest extent of the both eastern and western rooms were designated as "fallen" and inaccessible for survey. The northeastern portion was labeled "worked out, inaccessible", and the eastern and southeastern parts of the mine had water problems.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
L. S. Purviance	Purviance	1934-1936	10,500
A. G. Baker	Purviance	1937-1938	2,985
L. S. Purviance	Purviance	1938-1939	1,694
William Mitchell	Purviance	1939-1942	5,587
William Mitchell	Purviance	1942-1943	1,341 **
			22,107

** Production after map date

Last reported production: 1943

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351462	3-9-1942	1:360	1:596	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Knox County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Knox County) - Mine type.
 Microfilm map, document 3514562, reel 03136, frame 194 - Slope & shaft locations, mine outline, mining method, geologic problems.

Mine Index 5015**Thomas Barton, Old Chapman Mine**

Type: Underground Total mined-out acreage shown: 22 Production indicates approximately 5 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

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

* The shaft was not shown on the source map and is not included on the accompanying map. The shaft is located somewhere within the polygon shown on the accompanying map.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	160-165			4.0-4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
P. P. Chapman	Chapman	1873-1886	80,500
Joseph Whitehead	Old Chapman	1886-1887	15,700
Mrs. P. P. Chapman	Old Chapman	1887-1888	20,143
Mrs. J. C. Chapman	Old Chapman	1888-1889	11,289 **
Farmington Coal Company	Farmington No. 2	1889-1890	4,809 **
Thomas Barton	Old Chapman	1890-1891	3,040 **
			135,481

** Production after map date

Last reported production: 1891

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351652	1952 **	1:2400	1:4966	Secondary source

*** The mine outline on the source map is labeled "survey extent 1888", which is not a final map.

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 351652, reel 03137, frame 15, map of Alden No. 5 (mine index 110) - Mine outline (partial).

Mine Index 5249
Claude Dilts, Dilts Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Fulton	8N 3E	26	NW SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	40-60			4.0-5.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
W. McBride	McBride	1907-1912 *	3,002
William Dilts	Dilts	1912-1919 **	2,698
Carl Delts	Delts	1919-1920	270
Claude Dilts	Dilts	1920-1923	1,252 ***
			7,222

* Idle 1909

** Idle 1914 & 1916

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

Last reported production: 1923

SOURCES OF DATA

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

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Fulton County) - Mine type, drift location, seam.

Mine Index 5255**Robert Gooden Coal Company, Gooden Mine**

Type: Underground Total mined-out acreage shown: 41 Production indicates approximately 5 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

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

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	125-130			4.0-5.0	RPP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George Westerby	Westerby	1906-1912	53,323
Westerby Brothers & Gooden	Westerby & Gooden	1912-1921	110,523
Robert Gooden Coal Company	Gooden	1921-1922	4,112
Robert Gooden Coal Company	Gooden	1922-1926	19,291 *
			187,249

* Production after map date

Last reported production: 1926

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_417	10-12-1922	1:2400	1:2400	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 (Fulton County) - Mine names, mine index, ownership, years of operation.

State archive, IL_417, courtesy of Robert Gibson, IDNR - Shaft locations, mine outline, mining method.

Mine Index 5276**Monarch Coal & Mining Company, Pond Lily Mine**

Type: Underground Total mined-out acreage shown: 5, with a 61 acre general area of mining
 Production indicates approximately 45 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	3	SE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	67-82			4.0-5.0	RPP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Findley Coal & Coke Company	Findley	1897-1899	24,258
Monarch Coal & Mining Company	Pond Lily	1899-1908	153,514
			177,772

Last reported production: 1908

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2055	4-10-1936	1:2400	1:2400	Secondary source
State archive, IL_2300_01	10-11-1924	1:2400	1:2400	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness.

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

State archive, IL_2055, map of Dorthel No. 2 Mine (mine index 111) - Shaft location, mine outline, mining method.

State archive, IL_2300_01, map of Dorthel No. 4 Mine (mine index 2247) - General area of mining.

Mine Index 5299**Sunday Creek Coal Company, Sunday Creek Mine**

Type: Underground Total mined-out acreage shown: 77 Production indicates approximately 145 acres were mined. It is likely that part of the Sunday Creek Mine was later surface-mined by Middle Grove Mine (mine index 621).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 4E	6	SE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	72-106			3.67-4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Kingston & Claire	Kingston & Claire	1888-1889	5,118
Claire Coal Company	Claire	1889-1895	220,103
Sunday Creek Coal Company	Sunday Creek	1895-1902	<u>332,382</u> *
			557,603

* The production for 1896 is not known.

Last reported production: 1902

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	8-1935	1:110191	1:110191	Secondary source

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 (Fulton County) - Mine names, mine index, ownership, years of operation, shaft location.
 Federal Land Bank Report (Fulton County) - Mine outline, mining method.

Mine Index 6002
Charles Folkenroth, Folkenroth Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Knox	9N 4E	31	SE NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	206			3.83-4.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Newton Anderson	Anderson	1911-1914	4,850
Charles Folkenroth	Folkenroth	1914-1917	5,319
			10,169

Last reported production: 1917

SOURCES OF DATA

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

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 (Knox County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Knox County) - Mine type, drift location, seam.

Mine Index 6046
George McCleary, Yates City Mine

Type: Underground Total mined-out acreage shown: 37

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Knox	9N 4E	23	NW SW SE
Air shaft	Knox	9N 4E	23	NW SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	70-80			4.0-4.5	RPP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Bowman (W. H.) Coal Company	Bowman	1916-1926	40,735
Otis Bowman Coal Company	Bowman	1927-1937	41,409
Yates City Colliery Company	Yates City No. 2	1937-1941	11,897
George McCleary	Yates City	1941-1942	1,190
			95,231

Last reported production: 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352462	7-22-1942	1:1200	1:1821	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Knox County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Knox County) - Mine location.
 ISGS field notes (Knox County) - Mine type, depth, thickness.
 Microfilm map, document 351462, reel 03139, frame 143 - Shaft locations, mine outline, mining method.

Mine Index 7784
William Corbin, Corbin Mine

Type: Underground Total mined-out acreage shown: None; Production indicates less than 1 acre was mined. The Corbin Mine is not shown on the accompanying map because of later surface mining by Middle Grove Mine (mine index 621).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Knox	9N 4E	23	SW SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	50			4.25-4.5	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
August Lamberg	Corbin	1881-1882 *	800
William Corbin	Corbin	1882-1883	300 *
			1,100

* Ownership and production prior to 1882 is unknown. The Coal Report of 1882 indicates 7 acres were mined.

Last reported production: 1883

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	8-1935	1:110191	1:110191	Secondary source

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 (Knox County) - Mine names, mine index, ownership, years of operation.
 Federal Land Bank Report (Knox County) - Shaft location, mine outline.

OTHER MINES SHOWN ON FARMINGTON WEST QUADRANGLE

Mine Index 2236, Western Coal Company * SE NE 2-T8N-R3E, Springfield Coal source: ISGS mine notes (undated)

Mine Index 2249 NW NW SW 36-T8N-R4E, drift, Herrin Coal source: ISGS field notes (T. E. Savage, undated)

Mine Index 5256 SE SW SW 35-T8N-R4E, shaft, Herrin Coal, 85 ft deep source: ISGS field notes (T. E. Savage, undated)

Mine Index 5270 SE NE SW 25-T8N-R3E, drift, Herrin Coal, 4.2 ft thick source: Mined-out area map, Area 11 (1950)

Mine Index 5275 SW NW SW 19-T9N-R4E, shaft, Herrin Coal, 24 ft deep source: ISGS field notes (T. E. Savage, circa 1911)

Mine Index 5295 NW SW NW 31-T9N-R4E, drift, Springfield Coal source: ISGS field notes (C. G. Ball, undated)

Mine Index 6045 SE SW SW 19-T9N-R4E, shaft, Springfield Coal source: Federal Land Bank Report (P. F. Auer, 8-1935)

Mine Index 6745 NW NE SW 4-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 6746 NE SW SE 4-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7729 SW SE NE 35-T9N-R3E, drift, Springfield Coal source: ISGS field notes (C. G. Ball, undated)

Mine Index 7785 NW NE SE 4-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7786 NE NE SE 4-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7787 SW NE SE 4-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7788 SW NE SW 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7789 SW NE SW 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7790 SE NE SW 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7791 SW NE SW 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7792 NE SE SW 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7793 SW SE SE 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7794 SW SE SE 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7795 SE NW SE 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7796 SE NW SE 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7797 NW SW SE 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7798 NE SW SE 3-T8N-R4E, Herrin Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7799 NE SE SE 18-T8N-R4E, Springfield Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7800 SW NW SE 7-T8N-R4E, Springfield Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7801 SW SW SE 7-T8N-R4E, Springfield Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 7802, Rosenbaum Mine 26-T8N-R4E, drift or slope, Herrin Coal source: A. H. Worthen et al., 1870

Mine Index 7803, Powell Mine 36-T8N-R4E, drift, Herrin Coal source: A. H. Worthen et al., 1870

Mine Index 7804, Burbridge & Company 10-T8N-R4E, shaft, Herrin Coal, 26 ft deep, 4.5 ft thick source: A. H. Worthen et al., 1870

* Not shown on accompanying map due to later surface mining

MINES WHOSE LOCATIONS ARE NOT KNOWN, FARMINGTON WEST 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 Farmington West 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 322,108 (302,364 underground and 409 surface mined and 19,335 mined by uncertain method), which would represent approximately 65 to 115 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

FARMINGTON (Fulton County)

Baker (John), 1885-1886, drift, Herrin, 65, 4.17, RP	656 tons
Webster (L.), 1885-1886, drift, Herrin, 40-55, 4.17, RP	200 tons
Ross (William), 1886-1887	<u>245</u> tons 445 tons
Berry (M.), 1885-1889, drift, Herrin, 20-40, 4.0-5.0, RP	1,590 tons
Webster (Elisha), 1889-1894	1,420 tons
Breseler (John), 1894-1896	190 tons
Webster (Elija), 1896-1898	<u>565</u> tons 3,765 tons
Raffle (William), 1885-1897, —, Herrin, 30-40, 4.0-4.17, RP	9,583 tons
Emmons (John A.), 1888-1892, shaft, Springfield, 44-67, 3.75-4.0, RP	41,780 tons
Graham & Murdock, 1892-1893	9,400 tons
Emmons (John) Coal Company, 1893-1895	29,684 tons
Pecton & Emmons, 1895-1897	<u>8,625</u> tons 89,489 tons
Davis (John), 1894-1895, drift, Herrin, 30, 4.67, RP	150 tons
Tryon (George), 1896-1897, slope, —, 50, 4.0, RP	180 tons
Nappin (David), 1897-1899, shaft, Herrin, 50-60, 4.0-4.5, RP	3,200 tons
Deemy & Raffle, 1899-1902	<u>4,320</u> tons 7,520 tons
Endres (George), 1897-1898, shaft, Herrin, 50, 4.0	750 tons
Little Black Diamond Coal Company, 1903-1905, shaft, —, 35-50, 4.5-5.0, RP	310 tons
Frazell (C. A.), 1905-1907, shaft, Herrin, 56, 4.0-6.0, RP	1,684 tons
Nace (A. B.), 1906-1909, drift, Herrin, 38-50, 4.0-4.5, RP	1,940 tons
Bruketta (John), 1910-1911, slope, Springfield, —, 5.0, RP	1,000 tons
Walck (C. L.), 1919-1923, underground	1,329 tons
Bruketa (John), 1922-1925	387 tons
Taylor & Munsen, 1928-1928	240 tons
Dubois (Ira), 1923-1924	200 tons

Picton (Eldred), 1923-1924	150 tons
Connell (Nick), 1931-1931, underground	2,746 tons
Dubois (J. B.), 1934-1934, underground	28 tons
Beggi (John), 1934-1934, underground	514 tons
Norton (William), 1936-1936, surface	50 tons
Harrington (Frank), 1941-1941, underground	107 tons

FARMINGTON (Knox County)

Raffle (William), 1897-1899, shaft, Herrin, 30, 4.0	470 tons
Emerick (Alonzo), 1898-1899, shaft, Herrin, 30, 4.0	200 tons
Welker (William M.), 1899-1904, drift, Herrin, —, 4.0-4.5, RP	1,536 tons
Jordan (John), 1900-1902, shaft, Herrin, 35, 4.0, RP	1,118 tons
Galbraith & Gooden, 1919-1920	327 tons
Gooden & Galbraith, 1920-1921	<u>425</u> tons 752 tons
Fitzpatrick Brothers, 1922-1923	53 tons
Walker (John), 1923-1924	<u>22</u> tons 75 tons
Phillips (John) Coal Company, 1932-1934, underground	11,360 tons
Collier (Howard), 1934-1934, underground	2,000 tons
Western Coal Company, 1935-1940	<u>15,479</u> tons 17,479 tons
Love (Claude), 1934-1934, underground	552 tons
Norton (William H.), 1934-1936, surface	314 tons
Fogg (Ross), 1935-1937, underground	2,104 tons
Frederick (E. F.), 1937-1937	576 tons
Hornbeck (C. J.), 1937-1937	<u>480</u> tons 3,160 tons

MIDDLE GROVE (Fulton County)

Lance (E. R.), 1884-1885, drift, Herrin, 35-40, 4.0-4.5, RP	600 tons
Taylor (George), 1885-1887	540 tons
Walters & Company, 1887-1888	500 tons
Kerr (J. D.) & Company, 1888-1889	368 tons
Nicolany (Joseph) & Company, 1889-1890	<u>640</u> tons 2,648 tons
Eaton (James), 1885-1886, drift, Herrin, 18-35, 4.0-4.5, RP	480 tons
Zimmerman (M. C.), 1886-1893	<u>1,740</u> tons 2,220 tons
Harding (Jerome), 1890-1892, drift, Herrin, 25-35, 4.0-4.5, RP	1,586 tons
Fulmer (Philip), 1892-1893	420 tons
Fulmer (John), 1893-1896	<u>1,110</u> tons

	3,116 tons
Hilliard (Jesse), 1890-1892, drift, Herrin, 25-40, 4.0-4.33, RP	1,125 tons
Morton (Edward), 1892-1893	<u>140 tons</u>
	1,265 tons
Kerr (James D.), 1891-1896, shaft, Springfield, 65-75, 3.5-3.67, RP	980 tons
Menemuth (Charles), 1894-1895, drift, —, 35-50, 4.0-4.5, RP	900 tons
Loopman (Lewis), 1895-1898	<u>870 tons</u>
	1,770 tons
Scudor (James), 1894-1895, drift, —, 35-55, 3.83-4.5, RP	400 tons
Allen (William), 1895-1898	<u>1,025 tons</u>
	1,425 tons
Bowser (John), 1895-1896, drift, —, 35-40, 3.83-4.0, RP	Unknown
Lance (Thomas), 1896-1897	250 tons
McCoy (Dennis), 1895-1897, —, —, 35-50, 3.83-4.0, RP	400 tons
Dewitt (Abe), 1895-1896, drift, Springfield, 35-45, 3.83-4.0, RP	Unknown
Morse (Melvin), 1896-1898	688 tons
Morse (Menzo), 1896-1898, drift, Springfield, 50, 4.0, RP	730 tons
Morse (Ancle), 1896-1897, drift, —, 40, 4.0, RP	350 tons
Fennel (William), 1897-1898, drift, Herrin, 45, 4.0	200 tons
Fennel (William), 1907-1909, slope, Herrin, 30, 4.0-4.5, RP	564 tons
Dewitt (A.), 1909-1910, drift, Springfield, —, 3.67, RP	163 tons
Clerry (Peter), 1912-1914, drift, Herrin, 40-45, 5.0-5.83, RP	1,200 tons
Dilts (Claude), 1917-1918	360 tons
Morse (F. W.), 1917-1918	450 tons
Smizer (E. F.), 1918-1923	1,225 tons
Hubble (Jacob), 1923-1926	401 tons
Fitzpatrick (Clyde), 1926-1928	650 tons
Fitzpatrick Brothers, 1929-1929	<u>300 tons</u>
	950 tons
Graham (Garin), 1933-1933, underground	1,099 tons

MIDDLE GROVE (Knox County)

Allen (William), 1898-1899, drift, Springfield, 40, 4.0	600 tons
Morse (Anslo), 1898-1899, drift, Springfield, 40, 4.0	160 tons
Dewit (Able), 1898-1899, drift, Herrin, 40, 4.0	480 tons
Lopeman (L.), 1898-1902, drift, Springfield, 40, 4.0, RP	1,656 tons
Morse (Melvin), 1898-1899, drift, Springfield, 40, 4.0	360 tons

Morse (Menzo), 1904-1908, drift, Springfield, 12, 3.5-4.0, RP	920 tons
Morse (F. H.), 1908-1914	9,830 tons
Moore & Douglas, 1914-1915	344 tons
Morse (Clyde), 1915-1916	400 tons
Morse (Franklin Homer), 1916-1919	4,764 tons
Morse (James), 1919-1920	1,680 tons
Morse (John), 1920-1925	<u>2,787</u> tons
	20,725 tons
Lindsey Brothers, 1905-1906, drift, Springfield, —, 3.67, RP	920 tons
Lindsey (P. A.), 1906-1910	<u>3,200</u> tons
	4,120 tons
Buffington (Frank), 1907-1909, drift, Springfield, —, 3.67, RP	468 tons
Fennell & Wilkie, 1915-1917, drift, Springfield, —, 3.58	1,987 tons
Clary (Peter), 1915-1916, drift, Springfield, —, 4.0, RP	25 tons
Stokes (Edward W.), 1917-1921	4,407 tons
Anderson (Salem S.), 1917-1923	1,630 tons
Anderson (Salem), 1927-1927	670 tons
Anderson (Salem S.), 1930-1934, underground	8,304 tons
Wilcoxon (Grover), 1917-1920	1,096 tons
Emery (E.), 1917-1918	200 tons
Morse (James), 1920-1923	732 tons
Anderson (Guy), 1922-1925	731 tons
Anderson & Amo (Jim), 1924-1925	280 tons
Bohlander Coal Company, 1922-1923	1,030 tons
Taylor (A. C.), 1922-1924	975 tons
Stoughton (A.), 1922-1926, underground	7,320 tons
Stoughton & Hughbanks, 1927-1927	1,720 tons
Stoughton (A.), 1928-1931	<u>6,497</u> tons
	15,537 tons
Walker (Clyde), 1923-1924	149 tons
Dalton (H.), 1923-1924	77 tons
Conrad (Mart), 1925-1925	365 tons
Pancake (William), 1925-1926	705 tons
Miller (L. H.), 1925-1925	98 tons
Hamm & McBride, 1926-1926, underground	360 tons
Hughbank (L. B.), 1927-1927	559 tons
Hughbanks (C. R.), 1928-1928	1,345 tons
Wright Coal Company, 1929-1929	1,479 tons
Wright (Leonard), 1930-1930	<u>1,030</u> tons
	4,773 tons
Fitzpatrick & Anderson, 1934-1934, underground	496 tons

NORRIS (Fulton County)

Beechum (Robert), 1883-1886, shaft, Herrin, 75, 4.5, RP	4,788 tons
Williams (George), 1884-1891, drift, Herrin, 40-60, 4.2-4.5, RP	830 tons
McLaughlin (Joe), 1884-1885, drift, Herrin, 45-60, 4.0-4.5, RP	240 tons
Drawyer (Charles), 1885-1894	2,530 tons
Rosebaum (William H.), 1894-1896	<u>525 tons</u>
	3,295 tons
Dunton (John), 1885-1886, drift, Herrin, 40, 4.33, RP	150 tons
Dunton (John), 1886-1887, shaft, Herrin, 75, 4.67, RP	500 tons
Rosybone (William), 1885-1886, drift, Herrin, 55, 4.33, RP	210 tons
Jadensen (E.), 1894-1895, drift, Herrin, 45-55, 4.0-4.5, RP	350 tons
Tyler (J. N.), 1895-1896	Unknown
Hansen (Charles), 1894-1895, drift, Herrin, 45-50, 4.0-4.5, RP	660 tons
Bell (Henry), 1895-1896	Unknown
Fillingham (Edward), 1894-1895, slope, Herrin, 50, 4.5, RP	400 tons
Walck (Cyrus), 1894-1896, drift, Herrin, 40-45, 4.0-4.5, RP	427 tons
Martin & Straley, 1897-1898, drift, Herrin, 20, 4.5-5.0, RP	300 tons
Straley (James), 1898-1899	<u>400 tons</u>
	700 tons
Doyle (H. B.), 1902-1905, drift, —, 25-60, 4.0-5.5, RP	380 tons
Ashby (Sam), 1905-1906	<u>80 tons</u>
	460 tons
Awl (Robert H.), 1905-1906, drift, Herrin, 40, 4.0, RP	80 tons
Robb (W. M.), 1910-1913, shaft or slope, —, 40-140, 4.0-5.0, RP	1,525 tons
Morris (W.), 1910-1912, drift, —, 45-50, 4.5-5.0, RP	900 tons
Morris & Wack, 1912-1913	600 tons
Walck (C. L.), 1913-1914	<u>175 tons</u>
	1,675 tons
Walck (James), 1914-1915, drift, Springfield, 65, 5.0, RP	225 tons
Dubois (J. R.), 1916-1918, drift, Herrin, 30, 4.5, RP	1,275 tons
Baxter (Harry), 1933-1933, underground	1,229 tons

YATES CITY (Knox County)

Cox (C.), 1881-1882, shaft, Herrin, 25-45, 4.33-4.5, RP	960 tons
Furman (John E.), 1882-1885	<u>3,420 tons</u>
	4,380 tons
Furman (J. E.), 1882-1883, shaft, Herrin, 25, 4.5	80 tons
Dalton (A. "Gus"), 1881-1885, slope, Herrin, 36-50, 4.25-4.5, RP	3,250 tons
Roe (C. H.), 1881-1882, drift, Springfield, 35, 4.43	600 tons

McCorkhill (John), pre1881-1882, drift, Springfield, 45, 4.43	300 tons
Beale (S. K.), 1882-1883, drift, Herrin, 30, 4.5	200 tons
Conkling (John A.), 1883-1884, slope, Herrin, 25, 4.5, RP	1,000 tons
Carter (M. R.), 1884-1885	<u>800 tons</u>
	1,800 tons
Cox (Cassius), 1883-1887, shaft, Herrin, 30, 4.5, RP	3,320 tons
Dalton (Lafayette), 1886-1888, —, Herrin, 15, 4.5, RP	640 tons
Dalton (Gus), 1888-1889	320 tons
Dalton (James), 1889-1892	320 tons
Dalton (Lafayette), 1892-1893	<u>1,424 tons</u>
	2,704 tons
Threw (William), 1887-1888	520 tons
Threw (John), 1888-1889	<u>160 tons</u>
	680 tons
Kimler (T. W.), 1888-1891, shaft, Herrin, 15-38, 4.5, RP	4,809 tons
Kennedy (Loren), 1891-1892	<u>640 tons</u>
	5,449 tons
Chrisman (Frank), 1888-1892, shaft, Herrin, 25, 4.5, RP	5,770 tons
Studer (Clede), 1891-1892, shaft, Herrin, 50, 4.5, RP	280 tons
Dalton (Isam), 1892-1893, shaft, Herrin, 36-50, 4.0-4.5, RP	1,424 tons
Marshall (Robert J.), 1893-1897	<u>2,183 tons</u>
	3,607 tons
Weir (John F.), 1895-1896, slope, —, 30, 4.5, RP	560 tons
Baxter (Thomas), 1895-1896, shaft, —, 32, 4.0, RP	450 tons
Enders (George), 1896-1897, shaft, Herrin, 30-40, 4.0, RP	1,000 tons
Andres (William), 1897-1898	<u>600 tons</u>
	1,600 tons
Dalton & Taylor, 1899-1900, shaft, Herrin, 20-30, 4.5-4.67, RP	500 tons
Dalton (Isam), 1900-1902	6,350 tons
Dalton (Gus), 1902-1904	<u>2,280 tons</u>
	9,130 tons
Crutz (Jacob), 1902-1903, shaft, Herrin, 38, 4.5, RP	2,040 tons
Lumberg (Gus), 1905-1906, slope, Herrin, 12, 4.5, RP	200 tons
Montgomery (E.), 1906-1907, drift, Springfield, —, 3.0, RP	500 tons
Watson (Thomas), 1906-1907, slope, Springfield, 10, 3.0, RP	230 tons
Allen (J. H.), 1922-1923	320 tons
Bowes (Frank), 1935-1935, surface	45 tons

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