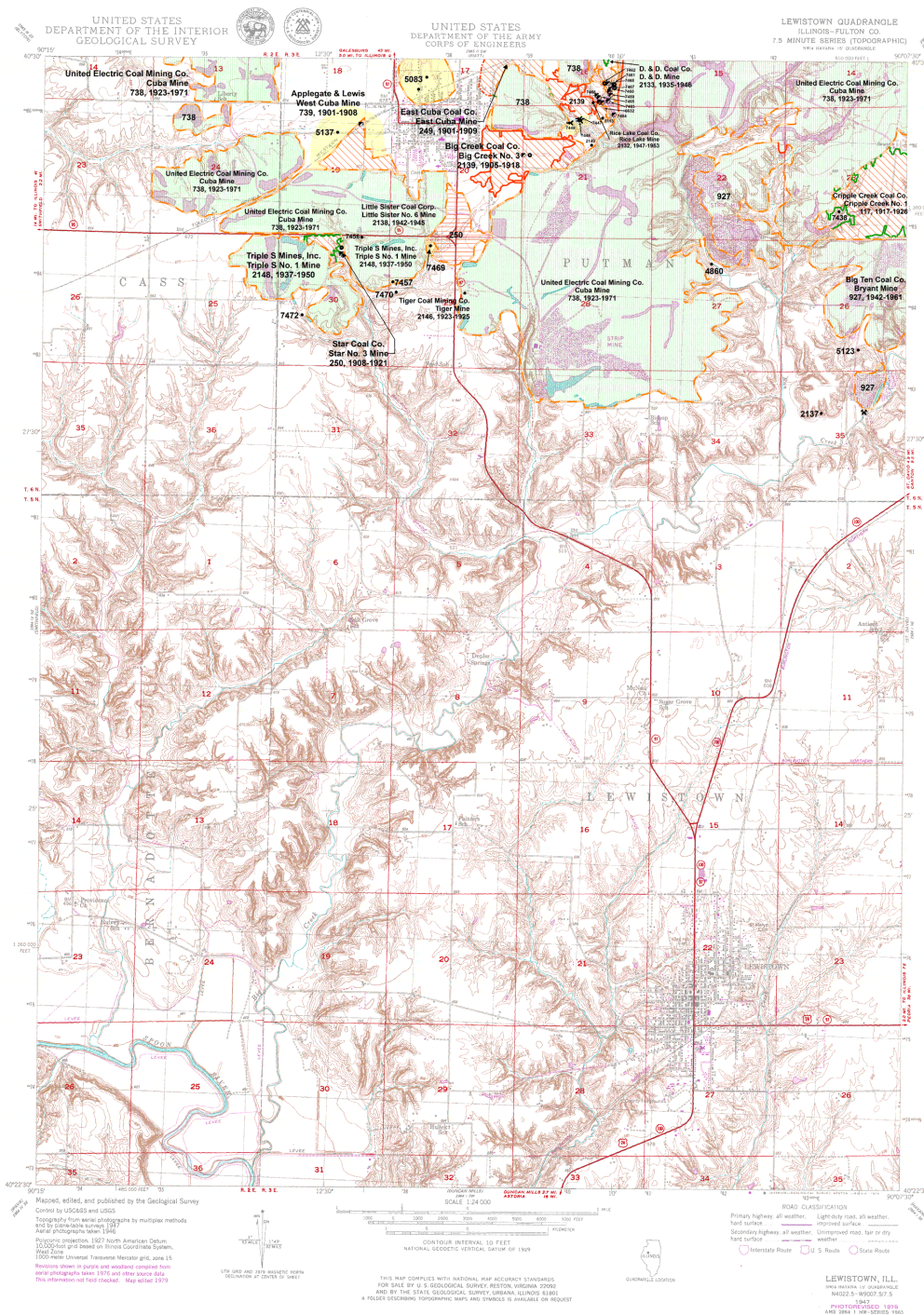














This map accompanies the Coal Mines Directory for the Lewistown Quadrangle and map of mines in the Colchester Coal, Lewistown Quadrangle. Consult the directory for a complete explanation of the information shown on this map.



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

Source of Mine Outline

- Final Mine Map
- Not Final Mine Map
- Undated Mine Map
- Incomplete Mine Map
- Secondary Source Map

Tipple, Shaft, Slope, Drift Locations

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

Mine Annotation
(space permitting)

Company
Mine Name
ISGS Index No., Years of Operation

Disclaimer

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

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

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

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

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

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

 ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Institute of Natural Resource Sustainability
Illinois State Geological Survey
615 E. Peabody Dr.
Champaign, IL 61820

Mine Outlines Compiled by
Alan R. Myers
December 13, 2011

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

LEWISTOWN QUADRANGLE
ILLINOIS-PUTMAN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SIXEIGHTEEN (18) QUADRANGLE

CASS PUTMAN

Taylor Coal Co.
Taylor Mines
#191, 1962-1963

7455 7454 7453

7458 2109

5051 5052

5057 5057 5056 5056 5058

7475 5062 5061 5059 5059 5059

7432 7433 741 5088 5086 5085 5084 5085 5211 5207 5209 5207

7434 7473 7435

SCALE 1:24,000

CONTOUR INTERVAL 50 FEET

NATIONAL GEOGRAPHIC SURVEY, DIVISION OF 1928

ROAD CLASSIFICATION

Primary highway, all weather Light duty road, all weather
Hard surface Improved surface
Secondary highway, all weather Unimproved road, fair or dry
weather
Interstate Route U.S. Route State Route

THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 20192
AND BY THE STATE GEOLOGICAL SURVEY, URBANA, ILLINOIS 61803
A PUBLISHED EXISTING TOPOGRAPHIC MAPS ARE SYMBOLS IS AVAILABLE ON REQUEST

LEWISTOWN, ILL.
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PHOTOGRAPHED 1979
AND 1981 1:25,000 1:25,000

DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

LEWISTOWN QUADRANGLE

FULTON COUNTY

Alan R. Myers & C. Chenoweth



2011

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This material is based upon work supported by the Illinois Mine Subsidence Insurance Fund. Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the authors and do not necessarily reflect the views of the Illinois Mine Subsidence Insurance Fund.

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 LEWISTOWN QUADRANGLE

The earliest documentation of mining in the vicinity of Cuba and Lewistown is in the Worthen reports, listing William Winterbottom and the Butler Mine near Lewistown, both of which opened in 1859. Surface mines were noted in the 1884 and 1885 Coal Reports, and may have begun in this vicinity even earlier. The mines in the vicinity of Lewistown generally worked the Colchester Coal, and those near Cuba operated in the Springfield Coal.

The 1893 Coal Report indicated ventilation was sometimes inadequate. The method of mining in these seams, generally less than 4 feet thick, was to remove the underclay from the haulage route to make the entry 5.5 feet tall. The air courses generally ran parallel to the haulage route, but the bottom would eventually heave "at least one foot of the original four", leaving an air way that was less than 20 square feet. This resulted in higher resistance to the air current and inadequate ventilation.

The largest mine in the area also operated the longest (48 years), the Cuba Mine of United Electric Coal Company (mine index 738). This surface mine removed traces of many small surface and underground mines.

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.

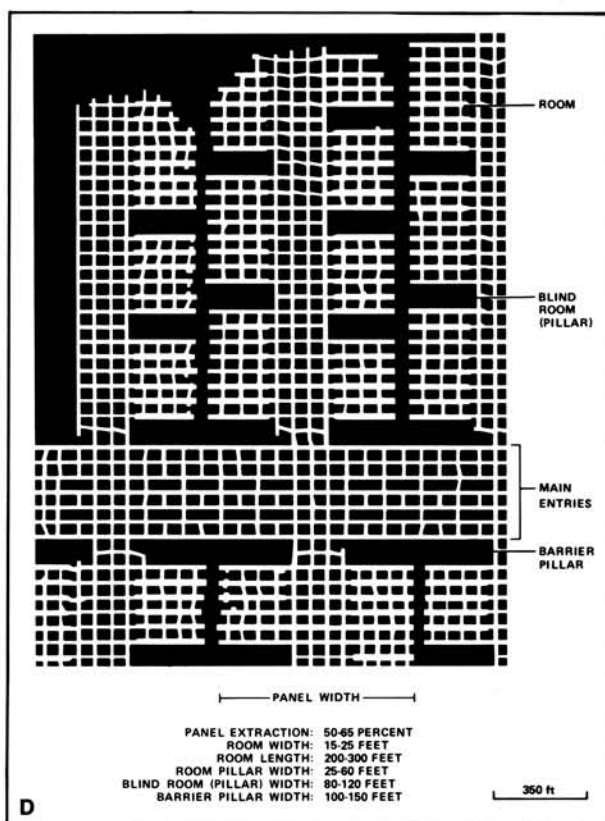
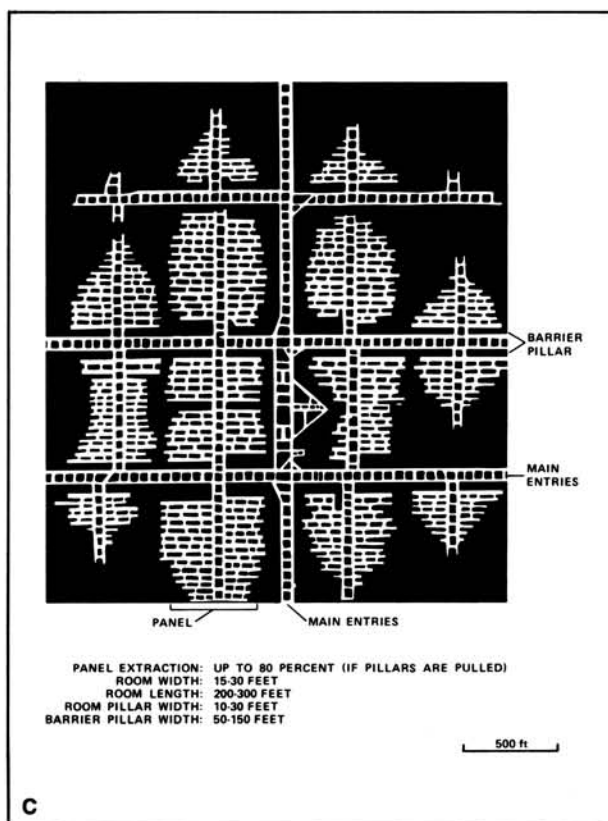
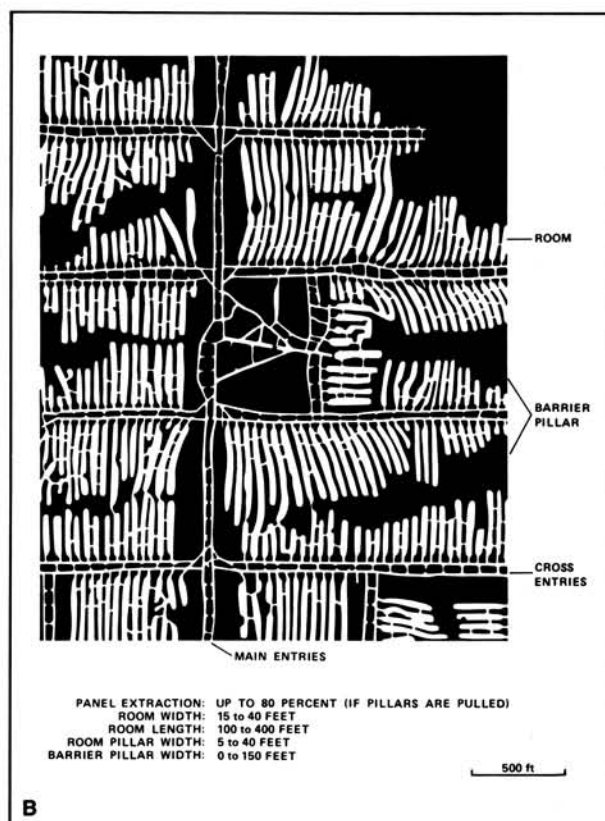
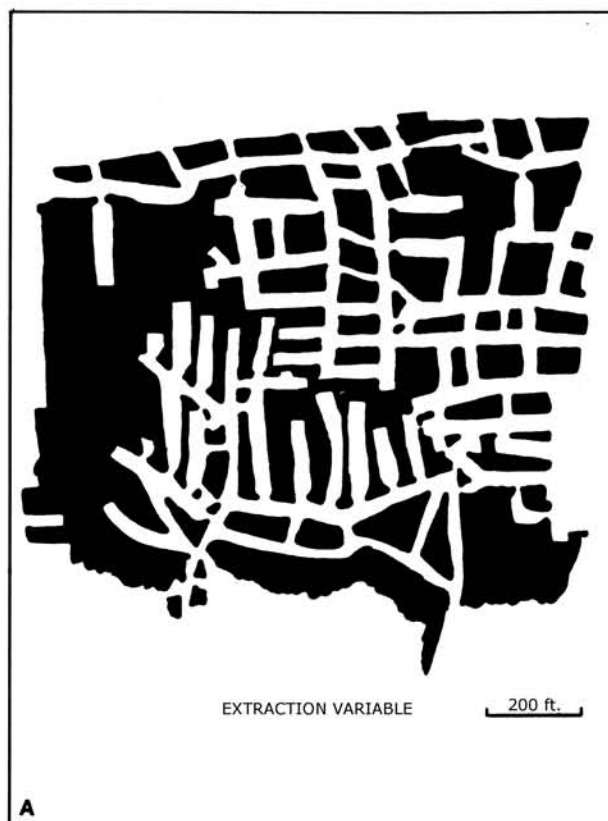


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).



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.

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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 LEWISTOWN QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Lewistown 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 117

Cripple Creek Coal Company, Cripple Creek No. 1 Mine

Type: Underground Total mined-out acreage shown: 485 Portions were later surface mined by United Electric No. 9 Mine (mine index 738). The area shown on the accompanying map includes both Cripple Creek No. 1 Mine and Cripple Creek No. 2 Mine (mine index 2142). Cripple Creek No. 2 Mine's production was reported with Cripple Creek No. 1.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Drift	Fulton	6N 3E	24	SE NW SW
Drift	Fulton	6N 3E	24	NE SW SW (closest to tipple)
Drift	Fulton	6N 3E	24	SE NW SW
Air shaft	Fulton	6N 3E	24	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield		4.5	5.5	4.8	MRP

Geologic Problems Reported: The roof varied between limestone caprock that was up to 12 feet thick, and gray shale where the limestone was eroded. The black shale, which was rarely present under the limestone, ranged from 6 to 24 inches thick, and was under 12 to 24 inches of clod, a medium gray, marly clay. The coal was softer where the gray shale made up the roof, and the gray shale roof was difficult to keep up. Horsebacks were noted, some up to 2.5 feet wide and filled with a soft, medium gray clay. The horsebacks cut through at an angle near vertical to a 45-degree angle, fingered out into the coal on both sides of the horseback, and were accompanied by a slight coal displacement and the resultant slips. The coal contained hills and valleys, with the worst having a 10% grade that required two mules to pull one car. The coal was thinner on the hill portion and thicker in the valleys. Charcoal was present in lenses and bands. Some clay partings were seen in the coal. The coal was present as three benches, but the charcoal layer separating the benches was rarely present and was therefore no advantage when shooting off the solid. The upper bench had pyrite in lenses, generally 1 inch by 3 inches. The pyrite in the middle coal was present as facings. The underclay was 6 to 8 feet thick, and heaved only in abandoned rooms.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Cripple Creek Coal Company	Cripple Creek No. 1	1917-1926	<u>2,328,203</u> 2,328,203

Last reported production: March 1926

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351614	4-1-1926	1:2400	1:4634	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 351614, reel 03136, frame 418 - Drift & shaft locations, mine outline, mining method.

Mine Index 249
East Cuba Coal Company, East Cuba Mine

Type: Underground Total mined-out acreage shown: 129

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	6N 3E	17	SW NE SE
Air shaft	Fulton	6N 3E	17	NW NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	76	4.67	5.33	5.0	MRP

Geologic Problems Reported: The coal contained gas pockets. A paleochannel about 150 feet wide cut through some of the roof rock and some coal. The roof consisted of 2.5 feet of black shale under 6 inches of clod under 2.5 feet of limestone cap rock. Numerous coal balls were present in the black shale. The coal had numerous horsebacks. The lowest 2 inches of coal was generally black jack, consisting of a mixture of pyrite, coal, and shale.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
P. W. Meehan	Meehan	1901-1902 *	33,000
East Cuba Coal Company **	East Cuba	1902-1909	<u>344,836</u> 377,836

* The 1895 Plat Book of Fulton County shows a mine near the air shaft location. Some of the area shown on the accompanying map may include older mining.

** Operated by Meehan & Scrips

Last reported production: 1909

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351633	1-5-1919	1:2400	1:4965	Secondary source ***

*** The map is a secondary source but is incomplete as well. The workings on the western side of the mine are unclear in the map image.

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 351633, reel 03136, frames 447-451, map of Big Creek No. 3 Mine (mine index 2139)

- Shaft locations, mine outline, mining method.

Mine Index 250
Star Coal Company, Star No. 3 Mine

Type: Underground Total mined-out acreage shown: 215 Portions of Star No. 3 Mine were later surface mined by Little Sister No. 6 Mine (mine index 2138) and Triple S. No. 1 Mine (mine index 2148).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Slope	Fulton	6N 3E	30	SE NW NE
Slope	Fulton	6N 3E	30	NE NW NE *
Air slope	Fulton	6N 3E	30	NE NW NE

* Not shown on accompanying map because of later surface mining

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	45			4.9	MRP

Geologic Problems Reported: The roof was composed of 2.5 inches of black shale under 12 to 18 inches of limestone cap rock. Few coal balls were found. A few horsebacks were noted in the coal. The coal had a uniform appearance, with a narrow pyrite streak near the top of the seam.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Star Coal Company **	Star No. 3	1908-1921	<u>1,058,732</u> 1,058,732

** The source map shows a slope and air slope formerly mined by William Rowden. Two of the unlocated mines at the back of this document reported under the Rowden name. The earlier mine operated from 1905 to 1919 (as J. C., C. F., N. A., and Frank Rowden) and the later mine operated from 1917 to 1934 (as William, C. C., C. T., and C. F. Rowden). The Rowden Mine shown on the source map may have been leased by William Rowden and listed in the Coal Reports under the owner's name.

Last reported production: February 1921

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State Archive, MSHA_1203	3-1-1921	1:1200	1:1200	Final
Coal Section files, digital	Undated	1:31680	1:31680	Secondary source
ISGS field notes (H. R. Wanless)	circa 1927	1:31,680	1:31680	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) - Seam, depth, thickness, geologic problems.
 State Archive, MSHA_1203, courtesy of Robert Gibson, IDNR - Slope locations, mine outline (western part), mining method.
 Coal Section files, digital copy of United Electric Coal Company composite map, courtesy Frank Krowat and the Cuba School Board - Mine outline (eastern part).
 ISGS field notes (Fulton County), sketch map - Mine outline (central part).

Mine Index 738**United Electric Coal Mining Company, United Electric No. 9 or Cuba Mine**

Type: Surface Total mined-out acreage shown: 7,225 in a polygon that includes areas mined by Little Sister No. 6 Mine (mine index 2138), United Electric No. 9 Mine (mine index 738), and Triple S Mine (mine index 2148). Production indicates United Electric No. 9 Mine would have excavated approximately 4,550 acres.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit or tipple	Fulton	6N 3E	28	SW SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	47-73			4.75-5.6	Surface

Geologic Problems Reported: Horsebacks were common and the clay-rich contents of the horseback-rich areas were separated from the loaded coal in the pit. Rolls were common, as were coal balls in the roof material. The coal contained numerous shale partings, bone coal bands, and pyrite lenses, usually less than 1 inch thick.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
United Electric Coal Company	Cuba, or United Electric No. 9	1923-1971	<u>31,626,286</u> 31,626,286

Last reported production: May 1971

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files, 1-29-9	12-31-1968	1:19200	1:19200	Not final
USGS topographic map	1947, PR 1979	1:24000	1:24000	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, thickness, geologic problems.
 Company map, Coal Section files, 1-29-9 - Mine outline, mining method.
 USGS topographic map, Lewistown Quadrangle, 1947, photorevised 1979 - Mine outline.

Mine Index 739
Applegate & Lewis, West Cuba Mine

Type: Underground Total mined-out acreage shown: 76 The mine was later partially surface mined by the Cuba Mine (mine index 738) and Little Sister No. 6 Mine (mine index 2138).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	6N 3E	19	SW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	69			4.25	MRP

Geologic Problems Reported: The roof was approximately 2 feet of black shale with a soft wet sandstone above. The mine was closed because the top works burned and the reserves were insufficient to warrant the construction costs of rebuilding.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Applegate & Lewis	West Cuba	1901-1908	<u>510,868</u> 510,868

Last reported production: May 1908

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files, Cuba composite map	Unknown	(unknown)	1:24000 *	Secondary source
Federal Land Bank Report	4-20-1933	1:124800	1:124800	Secondary source
Microfilm, document 351648	4-14-1941	1:1200	1:2151	Secondary source

* The map was given to the Cuba School Board by Frank Krowat, a retiree from United Electric Coal Company. The Coal Section borrowed the map in 2000, scanned and returned the map. Notes about the map have been lost.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, geologic problems.
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Fulton County) - Shaft location, seam, depth, thickness, geologic problems.
 Coal Section files, Cuba composite map, courtesy of Frank Krowat and the Cuba School Board - Shaft location, mine outline.
 Federal Land Bank Report (Fulton County) - General area of mining.
 Microfilm map, document 351648, reel 03137, frame 10, map of Heller Mine (mine index 2136) - Mine outline (southern portion), mining method.

Mine Index 741
James Yocum, Yocum Mine

Type: Underground Total mined-out acreage shown: A 22 acre general area of mining is shown on the accompanying map.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	5N 3E	22	NE NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Colchester	43-71			2.5-3.67	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Jerry Yocum	Yocum	1926-unknown	Unknown *

* The 1927 field note indicated the mine opened in 1926, but the Coal Reports did not list any Yocums opening that year. The mine may have been leased and listed in the Coal Reports under the owners name, or under a company name that differed from the operator's name. Production and years of operation are not known.

Last reported production: 1916

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	10-27-1934	1:124800	1:124800	Secondary source
ISGS field notes (H. R. Wanless)	1927	(text only)	1:24000	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.
 Federal Land Bank Report (Fulton County) - Shaft location, mine outline, mining method.
 ISGS field notes (Fulton County) - Mine ownership, general location of mine.

Mine Index 927**Big Ten Coal Company, Bryant Mine**

Type: Surface Total mined-out acreage shown: 1,030 Reported production indicates approximately 600 acres were mined. The outline shown on the accompanying map may include mining by other operators.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Fulton	6N 3E	35	NE SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	25-55			4.5-5.2	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
F. C. Morgan Coal Company	Morgan Bryant	1942-1954	2,840,394
Big Ten Coal Company	Bryant	1955-1961	966,265 *
			3,806,659

* The Coal Report listed the mine abandoned as of February 1962, but did not list the 1962 production. The mine may have been idle in 1962 before abandonment.

Last reported production: February 1962

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.F8 i5.1-67	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, mine location, seam, depth, thickness.

ISGS map library, 4103.F8 i5.1-67, compilation work map of Coal Section personnel - Mine outline.

Mine Index 2109
Frank Yocum, Yocum Mine

Type: Underground Total mined-out acreage shown: A 12 acre general area of mining is shown on the accompanying map. Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	5N 3E	4	SW NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Colchester	60			3.0	RP

Geologic Problems Reported: The roof was a gray shale. The coal was not noticeably banded. Pyrite was present in the coal, but very irregular in distribution.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Frank Yocum	Yocum	1910-1911	<u>2,400</u> 2,400

Last reported production: 1911

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	4-20-1933	1:124800	1:124800	Secondary source
ISGS field notes (H. R. Wanless)	1927	(text only)	1:24000	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 location.
 Federal Land Bank Report (Fulton County) - Mine location.

Mine Index 2132**Rice Lake Coal Company, Rice Lake Mine**

Type: Surface Total mined-out acreage shown: None; production indicates approximately 13 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit or tippie	Fulton	6N 3E	16	SW SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	20-30			5.17	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Carter & Carter Coal & Trucking	Carter	1947-1947	4,547
Carter Coal & Trucking Company	Carter	1948-1949	53,863
Rice Lake Coal Company	Rice Lake	1949-1953	<u>25,714</u>
			84,124

Last reported production: 1953

SOURCES OF DATA

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

* The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized.

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, thickness.

Mine Index 2133**D. & D. Coal Company, D. & D. Mine**

Type: Underground Total mined-out acreage shown: 46

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	6N 3E	16	NW NW SE
Air slope	Fulton	6N 3E	16	NW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	50-150			4.67-5.0	MRP

Geologic Problems Reported: The source map noted areas of bad roof due to slips in the southeastern, eastern, and western parts of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
D. & D. Coal Company	D. & D.	1935-1946	<u>182,749</u> 182,749

Last reported production: 1946

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351621	4-1-1946	1:1200	1:2234	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.

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

Microfilm map, document 351621, reel 03136, frames 431-433 - Slope locations, mine outline, mining method, geologic problems.

Mine Index 2136**F. N. Heller, Sunnyside Mine**

Type: Underground Total mined-out acreage shown: 39 Not shown on accompanying map because of later surface mining by Cuba Mine (mine index 738).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	6N 3E	19	SE SW SE
Air shaft	Fulton	6N 3E	19	SE SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	45			4.67	MRP

Geologic Problems Reported: The source map notes bad roof on the eastern side of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
F. N. Heller *	Sunnyside	1933-1941	115,594 115,594

* The source map indicates the mine operator is F. N. Heller, although production was listed in the Coal Reports as Sunnyside Coal Company.

Last reported production: 1941

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351648	4-14-1941	1:1200	1:2151	Final

Annotated Bibliography (data source, brief description of information)

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

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

Microfilm map, document 351648, reel 03137, frame 10 - Slope & shaft locations, mine outline, mining method, geologic problems.

Mine Index 2138**Little Sister Coal Corporation, Little Sister No. 6 Mine**

Type: Surface Total mined-out acreage shown: 372 in a polygon that includes areas mined by Little Sister No. 6 Mine, United Electric No. 9 Mine (mine index 738), and Triple S Mine (mine index 2148). Production indicates Little Sister No. 6 Mine would have excavated approximately 110 acres.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit or tipple	Fulton	6N 3E	20	NE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	25			6.0	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Central States Collieries	Central States No. 6	1942-1944	675,345
Little Sister Coal Corporation	Little Sister No. 6	1944-1945	386,217
			1,061,562

Last reported production: August 1945

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
NAIP digital ortho-photo quadrangle	2004	1:6000	1:6000	Secondary source

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) - Mine type, mine location, seam.

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

Coal Section files, 1-32-62, map of Central States Collieries - Mine location.

Mine Index 2139**Big Creek Coal Company, Big Creek No. 3**

Type: Underground Total mined-out acreage shown: 259 Portions of the northern part of the mine were later surface mined by Cuba Mine (mine index 738).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft	Fulton	6N 3E	21	NW SW NW
Air shaft	Fulton	6N 3E	21	NW SW NW
Slope	Fulton	6N 3E	16	SW SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	55-65			4.67-5.16	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Big Creek Coal Company	Big Creek No. 3	1905-1918 *	<u>1,005,235</u> 1,005,235

* Idle 1915

Last reported production: December 1918

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351633	1-5-1919	1:2400	1:4965	Final
Federal Land Bank Report	4-20-1933	1:124800	1:124800	Secondary source
ISGS map library 4103.F i5.1-50	4-1913	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.

Microfilm map, document 351633, reel 03136, frames 447-451 - Shaft locations, mine outline, mining method.

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

Company map, ISGS map library, 4103.F8 i5.1-50 - Mine outline (northern and eastern parts), slope location.

Mine Index 2140
Tom Jenkins, Jenkins Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 5 acres were mined. The mine is included on the accompanying map, but may be elsewhere in the section, including in an area that was later surface mined by Cuba Mine (mine index 738).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Fulton	6N 3E	21	

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	100			5.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Tom Jenkins	Jenkins	1934-1942	<u>21,439</u> 21,439

Last reported production: 1942

SOURCES OF DATA

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

* The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized. The location was not specific, so the mine was put near the center of the section.

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, drift location, depth, thickness.

Mine Index 2146**Tiger Coal Mining Company, Tiger Mine**

Type: Surface Total mined-out acreage shown: None; production indicates approximately 1 acre was mined. The mine location is within a larger surface mine outline, that of United Electric No. 9 Mine (mine index 738).

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit or tippLe	Fulton	6N 3E	29	SW SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	30	4.57	4.8	4.75	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Tiger Coal Mining Company	Tiger	1923-1925	<u>7,965</u> 7,965

Last reported production: May 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.F8 i5.1-71	4-20-1933	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 location, seam, depth, thickness.

ISGS map library, 4103.F8 i5.1-71, work map for Federal Land Bank Report - Mine location.

Mine Index 2147
Dan G. Coplinger, Coplinger Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 1 acre was mined. The mine location is not shown on the accompanying map because of later surface mining by United Electric No. 9 Mine (mine index 738).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Fulton	6N 3E	30	NW NW SE
Air drift	Fulton	6N 3E	30	NW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	30-80			4.67-5.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Dan G. Coplinger	Coplinger	1909-1917	<u>3,415</u> 3,415

Last reported production: 1917

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	4-20-1933	1:124800	1:124800	Secondary source

Annotated Bibliography (data source, brief description of information)

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

Mine Index 2148**Triple S Mines, Inc., Triple S No. 1 Mine**

Type: Surface Total mined-out acreage shown: 372 in a polygon that includes Little Sister No. 6 Mine (mine index 2138), a very small unknown mine (mine index 7456), and a portion of the Cuba Mine (also known as United Electric No. 9 Mine, mine index 738). Production indicates Triple S No. 1 Mine worked out about 200 acres.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pits	Fulton	6N 3E	30	N ½

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	35-50			4.67-4.83	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
David E. Rowland	Rowland	1937-1938	21,085
Triple S Mines, Inc.	Triple S No. 1	1938-1950	<u>1,477,006</u>
			1,498,091

Last reported production: December 1950

SOURCES OF DATA

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

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

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

Coal Section files, strip mine updates, 1938 - Mine location.

Coal Section files, 6-252x, 6-252s, maps from United Electric Coal Company showing property ownership - Mine location.

Mine Index 4191
Taylor Coal Company, Taylor Mine

Type: Surface 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
Pit or tippie	Fulton	6N 3E	35	NW SW

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Taylor Coal Company	Taylor	1962-1963	<u>14,722</u> 14,722

Last reported production: November 1963

SOURCES OF DATA

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

* The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.
 Directory of Illinois Coal Mines (Fulton County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Fulton County) - Mine location.

Mine Index 4961
James Grindle, Grindle Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 3 acres were mined. The mine is not shown on the accompanying map because of later surface mining by Bryant Mine (mine index 927).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	6N 3E	22	SW SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	60			4.5-5.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James Grindle	Grindle	1914-1942	<u>12,475</u> * 12,475

* Production was not listed in the 1922 Coal Report for mines producing less than 10,000 tons or in the 1930 to 1933 Coal Reports for production less than 1,000 tons per year.

Last reported production: 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. R. Wanless)	7-5-1927	(text only)	1:24000 **	Secondary source

** The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized.

Annotated Bibliography (data source, brief description of information)

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

Mine Index 5086
E. W. Duvall, Duvall Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 10 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	5N 3E	22	SW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Colchester	72	2.5	3.0	2.67	Underground

Geologic Problems Reported: The roof consisted of gray shale. Below the gray shale was 11 inches of clod that had a tendency to come down. Pyrite was present in the coal as a 1 inch layer about 6 inches above the floor, and 1.5 inches in a bony band near the middle of the seam. Some concretions were present, but were easily separated from the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
E. W. Duvall	Duvall	1922-1928	<u>21,340</u> 21,340

Last reported production: 1928

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. R. Wanless)	1927	(text only)	1:24000 *	Secondary source

* The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized.

Annotated Bibliography (data source, brief description of information)

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

OTHER MINES SHOWN ON LEWISTOWN QUADRANGLE

Mine Index 2137 NW SE NW 35-T6N-R3E, drift, Springfield Coal source: ISGS field notes (H. B. Willman, 7-6-1927)

Mine index 4860 SE NE NW 27-T6N-R3E, shaft, Springfield Coal source: ISGS field notes (H. B. Willman, 7-5-1927)

Mine Index 5051 SE SE SW 8-T5N-R3E, Colchester Coal source: ISGS map library, 4103.78 i5.1-71, compilation mined-out area and coal thickness map

Mine Index 5052 NE SW SE 8-T5N-R3E, Colchester Coal source: Federal Land Bank Report (4-20-1933) & ISGS field notes (T. E. Savage, 1906)

Mine Index 5056 SW SE SE, SW NE SE, & NW NE SE 18-T5N-R3E, drift mines, Colchester Coal source: Federal Land Bank Report (4-20-1933) & ISGS field notes (H. R. Wanless, 7-19-1927 & 7-21-1927)

Mine Index 5057 SE SW NW, SE NW NW, & NW NE NW 18-T5N-R3E, Colchester Coal source: Federal Land Bank Report (4-20-1933)

Mine Index 5058 SW NE NE 19-T5N-R3E, surface & drift mines, Colchester Coal source: Federal Land Bank Report (4-20-1933) & ISGS field notes (H. R. Wanless, 1927)

Mine Index 5059 SW NE SW, NW SE SW, & SW SE SW 19-T5N-R3E and NE NE NW 30-T5S-R3E source: Federal Land Bank Report (4-20-1933)

Mine Index 5061 NE NW SW 19-T5N-R3E, Colchester Coal source: Federal Land Bank Report (4-20-1933)

Mine Index 5062 SE SW NW 19-T5N-R3E, Colchester Coal source: Federal Land Bank Report (4-20-1933)

Mine Index 5063 SE SE SE 15-T5N-R3E, Colchester Coal source: Federal Land Bank Report (4-20-1933)

Mine Index 5064, Yocum Mine NW NW SW & NE NW SW 23-T5N-R3E, Colchester Coal source: Federal Land Bank Report (4-20-1933)

Mine Index 5065 NE NE SW 23-T5N-R3E, Colchester Coal source: Federal Land Bank Report (4-20-1933)

Mine Index 5083 SE SW SW & NW SE SW 17-T6N-R3E, Springfield Coal source: Federal Land Bank Report (4-20-1933) & Atlas Map of Fulton County, Illinois (1871)

Mine Index 5085 SW SE NE 22-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-4-1927)

Mine Index 5087 NW SW SW 23-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-5-1927) & Federal Land Bank Report (4-20-1933)

Mine Index 5088 NW SW NW 23-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-5-1927) & Federal Land Bank Report (4-20-1933)

Mine Index 5089 NE NW NW 23-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-5-1927)

Mine Index 5112 * SW NE NE 21-T6N-R3E, drift, Springfield Coal source: ISGS field notes (H. B. Willman, 7-2-1927)

Mine Index 5113 NW NW NE 21-T6N-R3E, Springfield Coal (within the polygon for index 6632, Clayburg Drift No. 3 Mine) source: ISGS field notes (H. B. Willman, 7-5-1927)

Mine Index 5114 * SE NW NE 21-T6N-R3E, drift, Springfield Coal source: ISGS field notes (H. B. Willman, 7-5-1927)

Mine Index 5115 * NW NE SE 21-T6N-R3E, drift, Springfield Coal source: ISGS field notes (H. R. Wanless, 7-5-1927)

Mine Index 5116 * NW SW SW 22-T6N-R3E, drift, Springfield Coal source: ISGS field notes (H. R. Wanless, 7-5-1927)

Mine Index 5117 * NW SW SW 22-T6N-R3E, surface, Springfield Coal source: ISGS field notes (H. R. Wanless, 7-5-1927)

Mine Index 5123 NW SW SE 26-T6N-R3E, surface, Springfield Coal source: ISGS field notes (H. B. Willman, 10-10-1943)

Mine Index 5137 SW NW NE 19-T6N-R3E, Springfield Coal source: Federal Land Bank Report (1933)

Mine Index 5206 SE NE SE 22-T5N-R3E, one active and one abandoned shaft, Colchester Coal, 83 feet deep, 3 feet thick source: ISGS field notes (H. R. Wanless, 8-4-1927)

Mine index 5207 SW SE SE 22-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-4-1927)

Mine Index 5208 NW SE SE 22-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-4-1927)

Mine Index 5209 NE SE SE 22-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-4-1927)

Mine Index 5210 SW NE SE 22-T5N-R3E, shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-4-1927)

Mine Index 5211 SW NE SE 22-T5N-R3E, shaft, Colchester Coal, 50 feet deep source: ISGS field notes (H. R. Wanless, 8-4-1927)

Mine Index 5356 NW SE NW 28-T5N-R3E, Colchester Coal source: Atlas Map of Fulton County, Illinois (1871)

Mine Index 6632, Clayburg Drift No. 3 Mine SW SW SE 16-T6N-R3E, Springfield Coal source: Microfilm, document 351633, map of Big Creek No. 3 Mine (mine index 2139)

Mine Index 7432 SE NE SW 18-T5N-R3E, old drift entrances, Colchester Coal source: ISGS field notes (H. B.

Willman, 7-21-1927)
 Mine Index 7433 NW NW NW 23-T5N-R3E, drift or shaft, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-4-1927)
 Mine Index 7434 S ½ NW NW 33-T5N-R3E, many drifts, Colchester Coal source: ISGS field notes (H. R. Wanless, 7-23-1927)
 Mine Index 7435 SE NW NE 34-T5N-R3E, drift, Colchester Coal source: ISGS field notes (H. R. Wanless, 8-4-1927 & H. B. Willman, 8-4-1927)
 Mine Index 7436 * S ½ NE 21-T6N-R3E, Springfield Coal source: ISGS field notes (H. B. Willman, 7-2-1927)
 Mine Index 7437 * NW NW NE 27-T6N-R3E, surface, Springfield coal source: ISGS field notes (H. B. Willman, 7-6-1927)
 Mine Index 7438 NE SE SW 23-T6N-R3E, drift, Springfield Coal source: ISGS field notes (H. R. Wanless, 1927)
 Mine Index 7447, Clayburg Coal Bank NE NE NW 21-T6N-R3E, drift, Springfield Coal source: State archive, MSHA_1307 (map of Big Creek No. 3 Mine, mine index 2139, undated)
 Mine Index 7448 NE NE NW 21-T6N-R3E, drift, Springfield Coal source: State archive, MSHA_1307 (map of Big Creek No. 3 Mine, mine index 2139, undated)
 Mine Index 7449 NW NE NW 21-T6N-R3E, drift, Springfield Coal source: State archive, MSHA_1307 (map of Big Creek No. 3 Mine, mine index 2139, undated)
 Mine Index 7453 SW NE SW 35-T6N-R3E, Colchester Coal source: ISGS field notes (H. B. Willman, 7-16-1927)
 Mine Index 7454 W ½ SW 35-T6N-R3E, Colchester Coal source: ISGS field notes (H. B. Willman, 7-16-1927)
 Mine Index 7455 NW SW SW 35-T6N-R3E, drift, Colchester Coal source: ISGS field notes (H. B. Willman, 1928)
 Mine Index 7456 N ½ NE 30-T6N-R3E, surface, Springfield Coal source: ISGS field notes (T. E. Savage, 1906)
 Mine Index 7457 NW SW NW 29-T6N-R3E, Springfield Coal source: ISGS field notes (H. B. Willman, 1927)
 Mine Index 7458 SW NE NW 4-T5N-R3E, drift, Colchester Coal source: Federal Land Bank Report
 Mine Index 7459 SE SW SE 16-T6N-R3E, drift, Springfield Coal, 2 acres mined source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7460 NE SW SE 16-T6N-R3E, drift, Springfield Coal, air shaft at NE SW SE 16-T6N-R3E, 3 acres mined source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7461 NE SW SE 16-T6N-R3E, drift, Springfield Coal, air shaft at NE SW SE 16-T6N-R3E, 4 acres mined source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7462 NE SW SE 16-T6N-R3E, drift, Springfield Coal, air shaft at NW SW SE 16-T6N-R3E, 4 acres mined source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7463 SE SW SE 16-T6N-R3E, drift, Springfield Coal source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7464 NE NW NE 21-T6N-R3E, Springfield Coal source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7465 SW SW SE 16-T6N-R3E, Springfield Coal source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7466 SW SW SE 16-T6N-R3E, Springfield Coal source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7467 NE SW SE 16-T6N-R3E, Springfield Coal source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7468 NE SW SE 16-T6N-R3E, Springfield Coal source: Microfilm, document 351633, map of East Cuba Mine (mine index 249)
 Mine Index 7469 NW NE NW 29-T6N-R3E, Springfield Coal source: Atlas Map of Fulton County, Illinois (1871)
 Mine Index 7470 SW SW NW 29-T6N-R3E, Springfield Coal source: Atlas Map of Fulton County, Illinois (1871)
 Mine Index 7471 * NW SW 14-T6N-R3E, Springfield Coal source: Coal Section files, digital copy of United Electric Coal Company composite map, courtesy Frank Krowat and the Cuba School Board
 Mine Index 7472 NW NE SW 30-T6N-R3E, Springfield Coal source: Plat Book of Fulton County, Illinois (1895)
 Mine Index 7473 NE SE SW 28-T5N-R3E, Colchester Coal source: Coal Section files, undated work map on USGS 15-minute Havana topographic map
 Mine Index 7474 SW SE SW 28-T5N-R3E, Colchester Coal source: Coal Section files, undated work map on USGS 15-minute Havana topographic map
 Mine Index 7475 SE NW NW 19-T5N-R3E, Colchester Coal source: Coal Section files, undated work map on USGS 15-minute Havana topographic map

* Not shown on accompanying map because of later surface mining

MINES WHOSE LOCATIONS ARE NOT KNOWN, LEWISTOWN 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 Lewistown 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 1,116,933 (916,449 underground; 12,500 surface mined; 187,984 tons mined by uncertain method), which would represent approximately 200 to 400 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

BRYANT

Maloon & Gofinch, 1909-1910, drift, Springfield, —, 5.0, RP	1,500 tons
Brooks (Dave), 1914-1916, drift or slope, Springfield, 60-70, 4.43-5.0, RP	654 tons
Dickson (B. W.), 1916-1919, drift, Springfield, 21, 5.0, RP	2,500 tons
Dickerson (W. D.), 1919-1920	<u>360 tons</u> 2,860 tons
Bryant (William), 1917-1921	2,268 tons
Howarth (James), 1917-1918	748 tons
Sepick (Jack), 1918-1919	258 tons
Averil (Arthur), 1918-1919	250 tons
Simpson (Frank), 1918-1924	4,680 tons
Gibson & Adams, 1919-1920	1,370 tons
Freeman Coal Company, 1920-1921	445 tons
Maloan (Arthur), 1920-1921	1,170 tons
Lockwood & Freeman, 1920-1921	670 tons
Fernetto (S.) & Post (Ralph), 1920-1921	50 tons
Parkinson (J. W.), 1922-1923	800 tons
Munson (Ed), 1923-1924	775 tons
Buckley (E.), 1923-1924	154 tons
Ward & Lee, 1924-1926	660 tons
Gofinch (John), 1924-1925	850 tons
Lightle & Gofinch, 1926-1926	<u>846 tons</u> 1,696 tons
Britz (Frank), 1926-1926	650 tons
Estas & Laird, 1926-1926	85 tons

Britz (Frank), 1926-1926	75 tons	
Perkhizer & Brown, 1927-1927, underground	430 tons	
Brown & Perkins, 1928-1928	27 tons	
Brown & Demasco, 1929-1929	<u>467</u> tons	
	972 tons	
DeMoss (Albert), 1927-1927, underground	377 tons	
Brown & DeMoss, 1928-1928	200 tons	
Brown & Company, 1929-1929	<u>375</u> tons	
	952 tons	
Baxter (Charles), 1927-1927	128 tons	
Ghegleir (James), 1927-1927, underground	72 tons	
Ghiglierie & Ferro, 1928-1928	633 tons	
Ghiglieri & Ferri, 1929-1929	<u>111</u> tons	
	816 tons	
Bults & Shadnlet, 1929-1929, underground	1,662 tons	
Bryant Coal Company, 1930-1931	4,922 tons	
Chapin & Vanslyck, 1932-1932	<u>3,000</u> tons	
	9,584 tons	
Brown (Frank), 1931-1931, underground	1,246 tons	
Brown (William), 1932-1932	1,123 tons	
Brown (Frank), 1933-1935	<u>2,920</u> tons	
	5,289 tons	
Watson (Albert), 1933-1934, underground	2,235 tons	
Bordwine & Gofinch, 1934-1934, underground	740 tons	
Boardwine & Company, 1935-1935	<u>201</u> tons	
	941 tons	
Chaddock & Lightle, 1934-1934, underground	105 tons	
CUBA		
Chandler & Putnam, 1925-1925, drift, Springfield, —, —	404 tons	mine index 4960
Chandler (Fred), 1926-1927	3,477 tons	
Chandler & Vorrach, 1928-1932	522 tons	
Chandler Coal Company, 1933-1933	1,423 tons	
Von Ach (August), 1934-1941	<u>4,768</u> tons	
	10,594 tons	
Stevens (Isaac), 1914-1915, drift, Springfield, 60-65, 4.67-5.0, RP	412 tons	mine index 4962
Engle (Thomas B.), 1915-1925	6,200 tons	
Engle & Newburn, 1926-1926	413 tons	
Engle & Engle, 1927-1927	172 tons	
Engle Brothers, 1928-1936	2,286 tons	
Engle (Thomas), 1937-1937	332 tons	
Engle Brothers, 1938-1938	108 tons	
Engle (Thomas), 1939-1943	253 tons	
Evans (Harry), 1944-1944	<u>24</u> tons	
	10,200 tons	
Ford (Harry), 1939-1941, underground	447 tons	mine index 5000
Stell (Cliff), 1939-1940, underground	179 tons	mine index 5001
Newbourne (Frank), 1941-1941	<u>116</u> tons	
	295 tons	

Taylor & Peck, No. 2 Mine, 1898-1902, —, Springfield, 35-70, 4.5-5.0, RP	20,500 tons
Essex & Fritz, No. 2 Mine, 1902-1905	<u>21,567</u> tons
	42,067 tons
Cuba Mine Coal Company, 1881-1882, shaft, Springfield, 60-68, 4.0-4.67, RP	13,493 tons
Stirret (James), 1882-1887	91,191 tons
C. & C. Consolidated Coal Company, 1887-1888	24,341 tons
Sterrat (James), 1888-1890	<u>20,265</u> tons
	149,290 tons
Vleet (G. F.), 1883-1884, shaft, Herrin, 17-19, 6.0, RP	3,118 tons
Vlirt Brothers, 1884-1888	11,519 tons
Raber & Vlirt, 1888-1889	<u>470</u> tons
	15,107 tons
Hitchens & Wright, 1883-1885, drift, Springfield, 40-50, 4.5, RP	1,240 tons
Harnes (J.), 1884-1885, surface	1,090 tons
Cuba Brick & Tile Company, 1885-1886, —, —, 40-42, 4.33-6.0, RP	2,410 tons
Cuba Co-operative Coal Company, 1886-1888	<u>6,600</u> tons
	9,010 tons
Johnson (W. H.), 1889-1890, drift, Springfield, 25-50, 4.33, RP	350 tons
Johnson (John), 1890-1891	250 tons
Johnson (William), 1891-1893	<u>720</u> tons
	1,320 tons
Bull (Peter), 1889-1893, drift, Springfield, 30, 4.33, RP	1,535 tons
James (D.), 1891-1892, drift, Springfield, 50, 4.0, RP	680 tons
Hamilton (John), 1893-1899, drift, Springfield, 30-60, 4.33-5.0, RP	1,913 tons
Bartlett & Bradley, 1893-1898, slope / shaft, Springfield, 30-50, 4.33-5.0, RP	5,700 tons
Bath & Phillips, 1895-1897, drift, —, 25-40, 4.0-4.67, RP	450 tons
Marshall (George), 1897-1902, drift, Springfield, 50-60, 4.5-5.0, RP	2,810 tons
Stevens (John), 1897-1902, drift, Springfield, 50-60, 4.5-5.0, RP	1,580 tons
Smith (Sam), 1897-1898, drift, Springfield, 50, 5.0	240 tons
Ribley (Robert), 1898-1899, drift, Springfield, 60, 4.5, RP	180 tons
Yemm (Timothy), 1898-1899, drift, Springfield, 60, 4.5	100 tons
Gaffney (John), 1899-1901, shaft, Springfield, 75, 4.5, RP	63,928 tons
Whiteleather Coal Company, 1901-1902	<u>10,240</u> tons
	74,168 tons
Ackerson (J. W.), 1899-1900, —, —, 60, 4.5, RP	500 tons
Wright (John), 1900-1902, drift, Springfield, 60, 4.5, RP	850 tons
Jones (R.), 1900-1902, drift, Springfield, 60, 4.5, RP	650 tons
Roby (Robert), 1902-1905, drift, Springfield, 25-50, 4.5-5.0, RP	1,500 tons
Rowden (J. C.), 1905-1907, drift, Springfield, 20-70, 4.5-5.0, RP	920 tons
Rowden (C. F.), 1907-1909	1,600 tons
Rowden (N. A.), 1909-1910	372 tons
Rowden (C. F.), 1910-1913	2,556 tons
Rowden (Frank), 1913-1914	1,212 tons

Rowden (C. F.), 1914-1915	543 tons
Rowden (Frank C.), 1915-1919	<u>3,846</u> tons
	11,049 tons
Adams & Huff, 1905-1907, slope / drift, Springfield, 14-60, 4.5-5.0, RP	1,242 tons
Rowden (N. A.), 1905-1906, drift, Springfield, 40, 4.5, RP	480 tons
Jayne (Richard), 1905-1906, drift, Springfield, 30, 4.5, RP	300 tons
Orendorf (J.), 1905-1906, drift, Springfield, 40, 4.5, RP	200 tons
Sunnyside Fuel Company, 1907-1908, slope, Springfield, 60, 5.0, RP	14,556 tons
Seivers (H.), 1910-1911, drift, Springfield, –, 5.0, RP	400 tons
Bollinger (Daniel), 1907-1909, drift, Springfield, 40, 5.0-5.5, RP	3,328 tons
Bollinger (Daniel), 1911-1921, drift, Springfield, 27-125, 4.83-5.0, RP	5,805 tons
Akerson (John) & Son, 1907-1909, drift, Springfield, 40, 5.0, RP	960 tons
Akerson (William), 1909-1911	<u>1,500</u> tons
	2,460 tons
Porter (John), 1907-1908, drift, Springfield, 30, 5.0, RP	240 tons
Porter (H. O.), 1908-1909	<u>480</u> tons
	720 tons
Marquis (Dan), 1908-1910, shaft, Springfield, 35, 5.0-5.5, RP	2,600 tons
Strode (J. F.), 1909-1910, drift, Springfield, –, 5.0, RP	1,600 tons
Strode (Morgan), 1910-1911	<u>600</u> tons
	2,200 tons
Bennett Brothers, 1909-1911, drift/slope, Springfield, 35-60, 4.67-5.0, RP	2,200 tons
Bennett (Nicholas), 1911-1914	5,085 tons
Bennett (W. W.), 1914-1915	250 tons
Bennett (Nick), 1915-1917	<u>2,150</u> tons
	9,685 tons
Picton & Bennett, 1916-1925, shaft, Springfield, 60, 5.0, RP	34,246 tons
Picton (J. W.), 1925-1929	<u>7,581</u> tons
	41,827 tons
Bishop (E. L.), 1909-1920, drift, Springfield, 30-75, 4.67-5.0, RP	9,095 tons
Bishop (Dave), 1920-1922	585 tons
Owens & Bishop, 1922-1923	<u>870</u> tons
	10,550 tons
Swearington (M.), 1909-1910, drift, Springfield, –, 5.0, RP	320 tons
Frame (John), 1909-1910, drift, Springfield, –, 5.0, RP	300 tons
Jacobs (C.), 1909-1910, drift, Springfield, –, 5.0, RP	280 tons
Wright (C.), 1909-1910, drift, Springfield, –, 5.0, RP	250 tons
Morgan (N. C.), 1909-1916, drift, Springfield, 30-60, 4.43-5.0, RP	3,243 tons
Heller (D. W.), 1909-1910, drift, Springfield, –, 5.0, RP	240 tons
Cluts (J. D.), 1909-1910, drift, Springfield, –, 4.5, RP	100 tons
Simpson (Silas), 1909-1917, drift, Springfield, 28-100, 4.5-5.0, RP	4,675 tons
Simpson (Elmer), 1917-1919	1,095 tons

Simpson (C. G.), 1919-1921	<u>1,265</u> tons 7,035 tons
Steele (Arthur), 1909-1910, drift, Springfield, —, 4.5, RP	80 tons
Stevenson (L. & G.), 1909-1910, drift, Springfield, —, 4.5, RP	80 tons
Post (E. E.), 1909-1912, drift, Springfield, 75, 4.5-5.0, RP	260 tons
Morgant (W. B.), 1909-1919, drift, Springfield, 40-70, 4.5-5.0, RP	4,461 tons
Walsh & Newbern, 1910-1911, drift, Springfield, 45-100, 4.67-5.0, RP	1,038 tons
Walch (Jack), 1911-1913	8,675 tons
Walsh (John), 1913-1915	<u>230</u> tons 9,943 tons
Bull (Peter), 1910-1911, drift, Springfield, —, 5.0, RP	1,000 tons
Newburn (John), 1910-1911, drift, Springfield, —, 5.0, RP	1,000 tons
West (J. W.), 1910-1911, drift, Springfield, —, 5.0, RP	1,000 tons
Freeman (W. D.), 1910-1911, drift, Springfield, —, 5.0, RP	680 tons
Mustard (William M.), 1910-1912, drift, Springfield, 125, 5.0, RP	650 tons
Martin (W. H.) & Swanson, 1910-1911, drift, Springfield, 75-120, 5.0, RP	400 tons
Martin (Will), 1911-1913	<u>825</u> tons 1,225 tons
Martin (William), 1911-1913, drift or slope, Springfield, 20-65, 4.67-5.0, RP	1,175 tons
Stroad (Frank), 1913-1916	1,135 tons
Strode (J. F.), 1916-1917	<u>400</u> tons 2,710 tons
Atkinson (Thomas), 1910-1911, drift, Springfield, —, 4.0, RP	400 tons
Brooks (John), 1910-1911, drift, Springfield, —, 5.0, RP	125 tons
Angle (Ed C.), 1910-1914, drift, Springfield, 18-60, 4.67-5.0, RP	3,068 tons
Hilton (Cyrus, or Sy), 1911-1918, drift, Springfield, 40-75, 4.5-5.0, RP	7,730 tons
Johnson (William), 1911-1913, shaft or drift, Springfield, 38-75, 4.67-5.0, RP	1,925 tons
Johnson (John T.), 1913-1915	<u>606</u> tons 2,531 tons
Kelley (B. R.), 1911-1912, drift, Springfield, 60, 5.0, RP	350 tons
Pollett (J. H.), 1911-1913, drift, Springfield, 30-120, 5.0, RP	400 tons
Wilson (H. A.), 1911-1914, drift, Springfield, 28-125, 4.5-5.0, RP	695 tons
Chute (J. D.), 1911-1912, drift, Springfield, 50, 5.0, RP	160 tons
Jayne (Richard), 1913-1915, drift, Springfield, 30, 4.67, RP	454 tons
Stell (Arthur), 1913-1921, drift, Springfield, 30-70, 4.67-5.0, RP	1,625 tons
Grindle (George), 1914-1916, shaft, Springfield, 60-70, 4.67, RP	8,400 tons
Stevens (Louis), 1914-1915, shaft, Springfield, 60, 5.0, RP	1,250 tons
Davis (John), 1914-1916, drift, Springfield, 60-70, 4.67-5.0, RP	376 tons

Freeman & Harris, 1914-1916, shaft or slope, Springfield, 28-45, 4.67, RP	490 tons
Irwin (William), 1915-1918, drift, Springfield, 60, 4.67, RP	2,125 tons
Gofinch (Ed), 1915-1916, slope, Springfield, 60, 4.67, RP	385 tons
Berry (Joe), 1915-1916, slope, Springfield, 60, 4.67-5.0, RP	142 tons
Brewer (Jonas), 1916-1918	1,200 tons
Brewer (Jonas) & Bishop, 1918-1919	780 tons
Jones & Brewer, 1919-1922	1,620 tons
Brewer (John), 1922-1923	700 tons
Brewer & Porter, 1923-1925	911 tons
Merchant & Porter, 1926-1929	<u>944 tons</u>
	6,297 tons
Porter (Bert) & Company, 1926-1926	550 tons
Porter & Merchant, 1927-1927	<u>485 tons</u>
	1,035 tons
Baxter (Harry), 1916-1917, drift, Springfield, —, 5.0, RP	495 tons
Zaborac (Jack), 1928-1935, underground	1,672 tons
Zaborac (Joe), 1936-1936	394 tons
Yocum (Dwight), 1937-1937	<u>105 tons</u>
	2,171 tons
Brown (D. A.), 1916-1918, drift, Springfield, 60, 5.0, RP	956 tons
Blackaby (E. A.), 1916-1918, drift, Springfield, 50, 5.0, RP	765 tons
Rowden (William C.), 1917-1922, underground	3,345 tons
Rowden (C. C.), 1922-1925	1,250 tons
Rowden Brothers, 1926-1927	612 tons
Rowden (C. T.), 1928-1928	869 tons
Rowden (C. F.), 1929-1934	<u>400 tons</u>
	6,476 tons
Marquis (D. J.), 1917-1923	7,102 tons
Marshall & Son, 1917-1918	2,078 tons
Heller (Eldie R.), 1917-1924	3,380 tons
Paul (William), 1917-1918	1,200 tons
Laswell & Lyons, 1917-1923	4,448 tons
Stevenson (George L.), 1917-1921	723 tons
Downard (Frank), 1917-1919	310 tons
Gagg (William), 1917-1920	1,101 tons
Pollitt & Snyder, 1917-1918	130 tons
Strode (Lewis), 1918-1919	120 tons
Strode (Frank), 1919-1922	1,133 tons
Strode (L.), 1922-1923	<u>3,850 tons</u>
	5,103 tons
Strode (Frank), 1927-1928, underground	483 tons
Strode (J. T.), 1929-1929	<u>26 tons</u>
	509 tons
Stevenson (Dudley), 1918-1921	2,450 tons

Evans (William T.), 1918-1927, underground	13,172 tons
Evans & Moore, 1928-1930	<u>3,918</u> tons
	17,090 tons
Wilson (Thomas), 1918-1922	644 tons
Wilson (Frank T.), 1922-1923	720 tons
Wilson (Tom), 1923-1924	<u>340</u> tons
	1,704 tons
Marquis (Fred) & Brother, 1918-1920	445 tons
Marquis (John), 1920-1921	375 tons
Marquis & Owens, 1921-1922	390 tons
Clayton & Marquis, 1922-1923	<u>3,054</u> tons
	4,264 tons
Caplinger & Johnson, 1918-1919	217 tons
Coplinger (Dill), 1919-1921	<u>279</u> tons
	496 tons
Thumb & Newborn, 1919-1920	1,620 tons
Thumb & Alfred, 1919-1920	1,800 tons
Thumb & Strode, 1920-1923	<u>6,525</u> tons
	8,325 tons
Johnson & Prebble, 1919-1920	1,705 tons
Owens & Evans, 1919-1921	1,075 tons
Murphy (George), 1919-1921	1,400 tons
Walsh (John), 1919-1924	4,664 tons
Ford (S.), 1927-1928, underground	495 tons
Ford (Wesley), 1928-1928	2,000 tons
Ford (Snowden), 1929-1930	<u>1,581</u> tons
	4,076 tons
Berness (Nick), 1919-1921	930 tons
Johnson (John), 1919-1923	705 tons
Johnson (Lee A.), 1920-1923	4,450 tons
Engle (William), No. 1 Mine, 1920-1921	290 tons
Engle (William), No. 2 Mine, 1920-1921	195 tons
Stevenson (Mrs. Artha), 1920-1923	390 tons
Stevenson (Dudley O.), 1920-1927	8,331 tons
Freeman (John), 1922-1923	800 tons
Vanlo (Jakes), 1920-1921	1,803 tons
Barnard (Thomas), 1920-1923	3,079 tons
Pulman (Coney) & Company, 1920-1921	787 tons
Helles & Mawoney, 1920-1923	370 tons
Hellie (George), 1923-1925	3,488 tons
Hillie & Melvin, 1926-1926	<u>2,800</u> tons
	6,658 tons

Barr & Stinson, 1920-1921	350 tons
Jones Brothers, 1920-1921	295 tons
Jones (Frank) & Brothers, 1923-1924	250 tons
White (Jack), 1920-1921	70 tons
Donaldson (William) Coal Company, 1921-1922, shaft, Springfield, 100, 5.0	9,419 tons
Murphy (George B.), 1922-1925	21,685 tons
Rowden Brothers, 1922-1923	1,243 tons
Bennett (Nick), 1922-1923	2,375 tons
Rowden (Frank), 1922-1923	250 tons
Morgan (Noah), 1922-1925	3,215 tons
Clayberg & Hilton, 1922-1925	4,465 tons
Marshall & Clayburg, 1926-1926	<u>285 tons</u>
	4,750 tons
Clayburg & Son, 1925-1925	325 tons
Clayberg (Ross), 1924-1925	5,200 tons
Clayberg (Ross) & Powden, 1925-1925	<u>675 tons</u>
Clayburg & Marshall, 1926-1926	<u>295 tons</u>
	6,170 tons
Stevens & Hilton, 1922-1923	275 tons
Bishop & Brooks, 1922-1924	1,345 tons
Lewis & Lyons, 1922-1923	925 tons
Mayberry (Jake), 1922-1923	570 tons
Mayberry (Jake) & Brother, 1923-1925	<u>1,470 tons</u>
	2,040 tons
Walters (I. W.), 1922-1923	410 tons
Walsh (John), 1923-1930, underground	17,760 tons
Caplinger (Dell), 1924-1927, underground	275 tons
Coplinger & Johnson, 1928-1929	445 tons
Coplinger (Dell G.), 1929-1934	<u>85 tons</u>
	805 tons
Hoffman (Joseph), 1924-1925	211 tons
McBride (Ray), 1924-1925	80 tons
Freeman (John), 1925-1926	540 tons
Paul & Freeman, 1927-1927	<u>175 tons</u>
	715 tons
Rowden Brothers & Clayberg, 1925-1925	300 tons
Griffiths (W.), 1925-1925	180 tons
Breuer (Jonas), 1925-1925	175 tons
Moore (Curtis), 1925-1925	90 tons

Evans (Harry), 1926-1927, underground	450 tons
Evans & Murphy, 1928-1928	<u>88 tons</u>
	538 tons
Laswell & Cooper, 1926-1928, underground	590 tons
Lewis & Layons, 1926-1926	200 tons
Porter & Paul, 1926-1926	95 tons
Burt (R.), 1927-1927	726 tons
Swearington (L.), 1927-1929, surface	1,155 tons
Matthews (Frank G.), 1927-1929, surface	290 tons
Benac (Nick), 1928-1934, underground	872 tons
Jones (Frank), 1928-1928, underground	300 tons
Jones (Harvey), 1928-1929, underground	400 tons
Jennings & Gilman, 1929-1933, underground	1,600 tons
Gagg & Gelmore, 1934-1934	<u>80 tons</u>
	1,680 tons
Brook (J.) & Company, 1929-1929, underground	625 tons
Brooks (John W.), 1929-1936, underground	2,208 tons
Evans & Evans, 1930-1930, underground	1,056 tons
Newburn (Frank), 1934-1934, underground	275 tons
Barker (Jess), 1934-1934, underground	270 tons
Swearingen (Lewis), 1935-1935, underground	250 tons
Conley, Anderson & Manion, 1935-1935, underground	150 tons
Dancy & Gofinch, 1936-1937, underground	1,600 tons
DeMoss & Gofinch, 1936-1936, underground	1,032 tons
Casler (L. B.), 1937-1937	394 tons
Casler & Gofinch, 1938-1938	1,770 tons
Gofinch (Edward), 1939-1940	3,145 tons
Gofinch (E.) & Collins, 1941-1941	280 tons
Gofinch (J.) & Collins, 1941-1942	1,710 tons
Gofinch (Edward), 1943-1943	<u>149 tons</u>
	8,480 tons
Conley (Guy), 1936-1936, surface	700 tons
Oldham (Sam), 1936-1936, surface	160 tons
Jenkins & Aldham, 1937-1937	<u>956 tons</u>
	1,116 tons
Jenkins (Tom), No. 2 Mine, 1939-1940, underground	328 tons
Black & Henderliter, 1945-1945, surface	435 tons
Smithfield Coal Company, 1946-1946	1,280 tons
Clanin (Robert), 1947-1947	<u>283 tons</u>
	1,998 tons
Hilton Mine, 1946-1946, surface	115 tons

LEWISTOWN

Yocum (J. K.), 1901-1906, shaft, Colchester, 43-71, 2.5-3.67, RP	10,166 tons	
Yocum (James), 1906-1916	<u>32,551</u> tons	
	42,717 tons	
Hayden (E. E.), Strode Mine, 1937-1937, drift, Colchester, —, —	240 tons	mine index 4972
Brooks & Hayden, Copperhead Mine, 1938-1941	1,385 tons	
Brodoc (C. A.), Copperhead Mine, 1941-1941	175 tons	
Brooks & Hayden, Copperhead Mine, 1942-1942	<u>293</u> tons	
	2,093 tons	
Billings Coal Company, 1951-1951, underground	226 tons	mine index 4982
Bath (Isaac), 1883-1893, drift / slope, —, 30-70, 2.33-3.0, RP	8,590 tons	
Watts (Samuel), 1893-1894	790 tons	
Findlay (Joseph), 1894-1896	<u>860</u> tons	
	10,240 tons	
Bath (Isaac), 1895-1903, shaft, Colchester, 30-75, 2.33-2.5, RP	9,254 tons	
Walker (Charles), 1883-1884, shaft/drift, —, 42-50, 2.5-3.0, RP	600 tons	
Mort (Charles), 1884-1886	600 tons	
Wickett (John), 1886-1888	1,360 tons	
Horborg (Thomas), 1888-1892	<u>1,920</u> tons	
	4,480 tons	
Hulic (John), 1883-1884, surface, —, —, 3.0	240 tons	
Florin (Henry), 1884-1893, drift, Rock Island, 30-70, 2.5, RP	5,935 tons	
Miner (Ed), 1884-1885, drift, Rock Island, 50, 2.5, RP	200 tons	
Winchell (Henry), 1889-1890	400 tons	
Hall (John), 1889-1890	1,010 tons	
Yokum (John), 1893-1894, drift, Colchester, 40-60, 2.33-2.5, RP	480 tons	
Yokum (Sydney), 1894-1896	Unknown	
Watts Coal Company, 1893-1895, drift, Colchester, 60-70, 2.5, LW & RP	12,200 tons	
Lewistown Coal Company, 1895-1896	Unknown	
Longwall mining took place in 1895; the other years of operation were with room-and-pillar mining.		
Gray (Frank M.), 1894-1896, drift, Colchester, 30-45, 2.33-2.5, RP	1,080 tons	
Prose (John), 1894-1895, drift, Colchester, 45-50, 2.33-2.5, RP	900 tons	
Gencil Brothers, 1895-1896	Unknown	
Gansell (Joseph), 1898-1902, drift, Colchester, 30-35, 2.33-2.5, RP	2,190 tons	
Humphrey (Charles), 1894-1895, shaft, Colchester, 45-100, 2.5-2.83, RP	1,140 tons	
Turner Brothers, 1895-1899	9,208 tons	
Turner (John), 1899-1900	1,250 tons	
Mach (A. C.), 1900-1902	6,140 tons	
Turner & Huber, 1902-1904	<u>3,250</u> tons	
	20,988 tons	
Casler (Leroy), 1895-1896, drift, —, 35, 2.5, RP	Unknown	
Lowry & Kinnowman, 1896-1899, drift, Colchester, 30-60, 2.33-2.5, RP	6,477 tons	
Lowry (Samuel), 1899-1901	<u>4,050</u> tons	
	10,527 tons	

Chapman (William H.), 1897-1900, drift, Springfield, 30, 2.33-5.0, RP	1,780 tons
Eyman (Albert), 1897-1902, drift, Colchester, 35-50, 2.33-2.5, RP	4,805 tons
Fox (Thomas), 1898-1899, drift, Colchester, 35, 2.33	280 tons
Chapin (L.), 1900-1902, slope, Colchester, 60, 2.5, RP	1,600 tons
Hagey (William), 1905-1906, shaft, Colchester, 100, 2.5, RP	3,060 tons
May (James), 1905-1908, shaft, Colchester, 40-48, 2.5, RP	2,305 tons
Eveland (Ben), 1905-1907, drift, Colchester, 25, 2.5, RP	320 tons
Gooden (R.), 1934-1934, underground	80 tons
Raker (James), 1906-1907, drift, Colchester, 50, 2.5, RP	120 tons
Siever (Harry), 1907-1909, drift, Springfield, —, 4.5-5.0, RP	5,800 tons
Seivers (Jake), 1909-1911	<u>5,720</u> tons
	11,520 tons
Goodman (John), 1907-1913, drift, —, 40-75, 2.5-5.5, RP	6,465 tons
Stuffelbeam (John), 1907-1929, drift, —, 35-80, 2.5-5.0, RP	6,155 tons
Grissby (Harry), 1907-1908, drift, —, 40-50, 2.5-5.0, RP	200 tons
Grigsby (Henry), 1908-1909	<u>100</u> tons
	300 tons
Wilcoxon Brothers, 1907-1911, drift, —, 50-65, 2.5-4.5, RP	360 tons
Wilcoxon (Herbert), 1911-1914	<u>605</u> tons
	965 tons
Weaver (Frank), 1907-1908, drift, Springfield, 60, 5.0, RP	24 tons
Collins (J. R.), 1907-1913, drift, —, 25-65, 2.5-5.0, RP	695 tons
Vonach (Henry), 1909-1915, slope or shaft, —, 16-80, 2.67, RP	16,519 tons
Bishop (Sam), 1915-1916	<u>2,410</u> tons
	18,929 tons
Ellsworth (R. G.), 1909-1910, drift, —, 60, 2.5-5.0, RP	2,432 tons
Ellsworth (G.), 1910-1911	400 tons
Ellsworth (Henry), 1911-1912	<u>300</u> tons
	3,132 tons
Johnson (Sim), 1911-1913, drift, Colchester, 65-80, 2.5, RP	325 tons
Eyman (A.), 1909-1912, drift, —, 40, 2.5-3.0, RP	2,190 tons
Scalf (J.), 1909-1910, drift, Rock Island, —, 3.0, RP	400 tons
Sleet (J.), 1909-1910, drift, Rock Island, —, 3.0, RP	240 tons
Barry (L. S.), 1909-1910, drift, Springfield, —, 4.0, RP	240 tons
Arnett (S. A.), 1909-1911, drift, Rock Island, —, 3.0, RP	536 tons
Clark (L. E.), 1909-1910, drift, —, 50-75, 2.5-3.0, RP	200 tons
Clark (E. C.), 1910-1911	800 tons
Clark (Lewis), 1911-1916	1,515 tons
Clark (C. E.), 1916-1917	100 tons
Clark (L. E.), 1917-1918	<u>104</u> tons
	2,719 tons

Davis (O. W.), 1911-1913, shaft and/or drift, Colchester, 45-80, 2.33-3.0, RP	3,042 tons
Eyman (A. A.), 1913-1914	1,500 tons
Eyman Brothers, 1914-1917	1,615 tons
Eyman (Albert), 1917-1918	1,400 tons
Eyman Brothers, 1918-1919	<u>60 tons</u>
	7,617 tons
Brickert & Newberry, 1911-1912, drift, Colchester, 50, 2.5, RP	750 tons
Lindsey (Jess), 1911-1914, drift, Colchester, 40-70, 2.5-3.0, RP	1,475 tons
Crusan (L.), 1911-1914, drift, —, 60-75, 2.5-3.33, RP	1,555 tons
McFarland (Clifford), 1911-1912, drift, Springfield, 50, 2.5, RP	30 tons
May (Roy), 1913-1915, shaft, —, 40-48, 2.67-3.0, RP	2,746 tons
May Brothers, 1915-1916	<u>1,205 tons</u>
	3,951 tons
Brooks (Clyde), 1913-1914, drift, Colchester, 50, 3.0, RP	620 tons
Billings (Arthur), 1913-1919, drift or slope, —, 50-70, 2.-2.67, RP	2,278 tons
Nahm (R. J.), 1915-1925, shaft, —, 60-70, 2.67-3.17, RP	44,377 tons
Miller (Earl), 1915-1916, shaft, Colchester, 40, 2.67, RP	860 tons
Miller (George), 1915-1916, shaft, Colchester, 70, 2.67, RP	128 tons
Goodman (George), 1916-1917, shaft, Colchester, 31, 3.0, RP	775 tons
Goodman (Jesse), 1917-1918	<u>600 tons</u>
	1,375 tons
Yocum & Shields, 1916-1919, shaft, Colchester, 56, 2.33, RP	1,900 tons
Yocum (Jerry) & Brush, 1919-1920	88 tons
Yocum (Jerry), 1920-1923	<u>2,220 tons</u>
	4,208 tons
Yocum & Yocum, 1917-1918	1,500 tons
Yocum Brothers, 1918-1919	2,975 tons
Yocum (Boyd), 1919-1922	2,100 tons
Yocum (Jerry), 1922-1923	<u>600 tons</u>
	7,175 tons
Leonard (Deloss), 1917-1919	990 tons
Leonard (Deloss), 1922-1927	1,305 tons
Arnold & Leonard, 1927-1927	<u>588 tons</u>
	1,893 tons
Dare (Frank), 1917-1924	2,357 tons
Scalf (Jacob), 1917-1923, underground	2,250 tons
Scalf (Jesse), 1923-1924	550 tons
Scalf (Harley), 1924-1925	250 tons
Scalf (Jake), 1925-1926	392 tons
Scalf (Harley), 1927-1928	610 tons
Scalf (E. E.), 1929-1929	<u>75 tons</u>
	4,127 tons
Jarnigan (W. M.), 1917-1918	445 tons
Whites (Fred), 1917-1922	860 tons
Whites (Warren), 1922-1923	<u>728 tons</u>
	1,588 tons

Cruser (L.), 1917-1919	455 tons
Evan & Purdy, 1917-1919	222 tons
Hodges & Kericks, 1918-1919	452 tons
Hughes (Richard I.), 1919-1922	431 tons
Hughes & Pallett, 1922-1923	1,470 tons
Pollett (B. E.), 1923-1925	1,880 tons
Pollitt (Everett), 1925-1925	<u>820 tons</u>
	5,053 tons
Bradley (W. A.), 1918-1920	639 tons
Lockard & Newberry, 1918-1919	390 tons
Newberry & Rackerd, 1919-1920	<u>112 tons</u>
	502 tons
Vaughn (Harvey), 1918-1919	75 tons
Keller (T. Z.), 1918-1919	75 tons
Keller (F. Z.), No. 2 Mine, 1919-1921	<u>1,298 tons</u>
	1,373 tons
Lindsey & Haddick, 1918-1919	58 tons
Brooke (C. A.), 1919-1921	888 tons
Boyd & Dent, 1919-1921	920 tons
King (Henry R.), 1922-1929, underground	2,045 tons
Shinnefield (Albert), 1919-1923	670 tons
Shinnfield (E.), 1923-1924	<u>880 tons</u>
	1,550 tons
May Brothers, 1920-1921	980 tons
Bybee (John C.), 1920-1924	1,667 tons
Burges (Jake), 1920-1921	625 tons
Arnett (S. A.), 1922-1928, surface	2,020 tons
Clark (Henry), 1922-1925	282 tons
Clark (Lewis), 1922-1923	340 tons
Goodwin (John), 1922-1923	1,060 tons
Bates (Frank), 1922-1923	842 tons
Casley (Ray), 1922-1923	460 tons
Braden (C. E.), 1922-1924, underground	175 tons
Braden (Don), 1924-1925	70 tons
Braden (Mont) & Ellsworth, 1925-1925	340 tons
Braden (Mont), 1926-1929	<u>840 tons</u>
	1,425 tons
Ellsworth (Harry), 1925-1925	150 tons
Lindstrom & Fleming, 1922-1923, underground	120 tons
Lindquist & Fleming, 1923-1933	17,978 tons
Lundquist & Taylor, 1934-1937	<u>2,613 tons</u>
	20,711 tons

Brooks (John W.), 1938-1940	907 tons
Brooks Brothers, 1941-1941	<u>93 tons</u>
	1,000 tons
Laws (Joseph), 1922-1923	105 tons
Johnagan (W.), 1922-1923	90 tons
Comstock (Mrs. F.), 1923-1924	576 tons
Jenkins (William), 1923-1924	340 tons
Kines (J.) & Weeler, 1924-1925	565 tons
Eyman (Earl), 1925-1929, underground	1,105 tons
Billings (Arthur), 1924-1925	297 tons
Billings (Arthur), 1929-1929, underground	238 tons
Chapin (Carson), 1925-1927	550 tons
Chapin & Bennett, 1929-1929	<u>2,400 tons</u>
	2,950 tons
Hughes Brothers, 1927-1927	81 tons
Casler (Roy), 1927-1927	75 tons
Bartley & Isabel, 1928-1928	407 tons
Atkins (Reuben), 1928-1929, underground	332 tons
Goodman (Jesse), 1931-1931, surface	1,500 tons
Yocum (Sid) & Stockham, 1932-1932, underground	1,328 tons
Benton (W. E.), 1932-1932, surface	2,500 tons
Allen (Elmer), 1934-1934, underground	216 tons
Petters (Gardie), 1934-1934, underground	96 tons
Mitchell & Hayden, 1935-1935, underground	22 tons
Little (Clerance), 1946-1946, surface	566 tons

NORTH CANTON

Taylor & Company, 1883-1884, slope, Springfield, 30, 4.25, RP	3,000 tons
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