

Coal Mines in Illinois

AVON QUADRANGLE

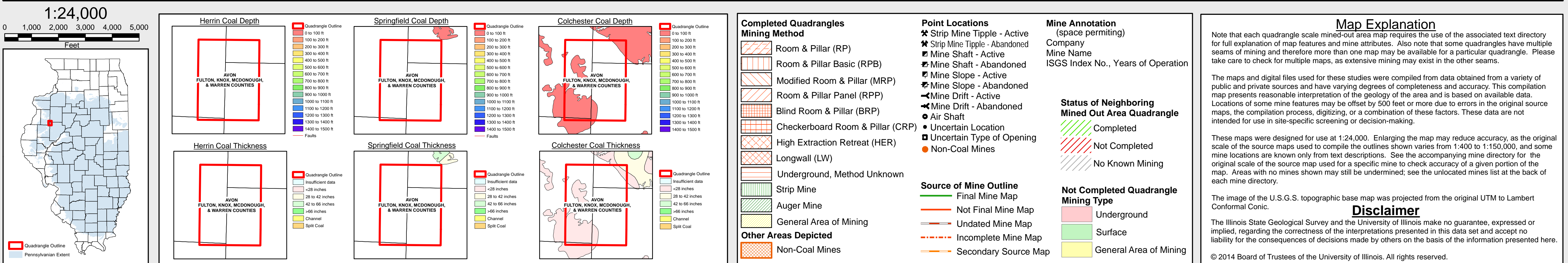
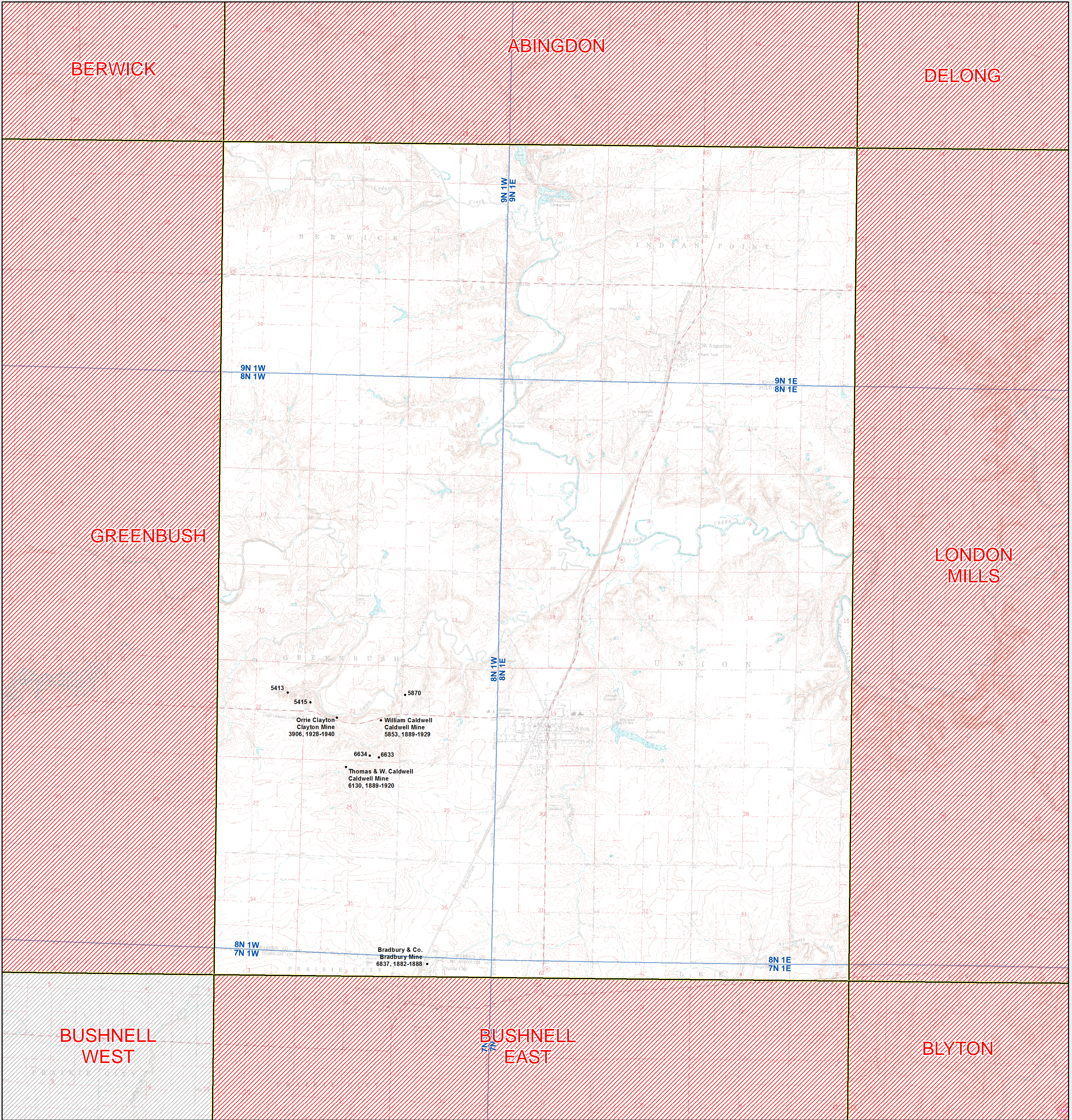
FULTON, KNOX, MCDONOUGH, & WARREN COUNTIES

Colchester Coal

THIS MAP ACCOMPANIES THE COAL MINES DIRECTORY FOR
THE AVON QUADRANGLE.
CONSULT THE DIRECTORY FOR A COMPLETE EXPLANATION
OF THE INFORMATION SHOWN ON THIS MAP.

Mine Outlines Compiled by
C. Chenoweth
June 2014

Maps Available for this Quadrangle: 2 (Colchester & Rock Island Coals)

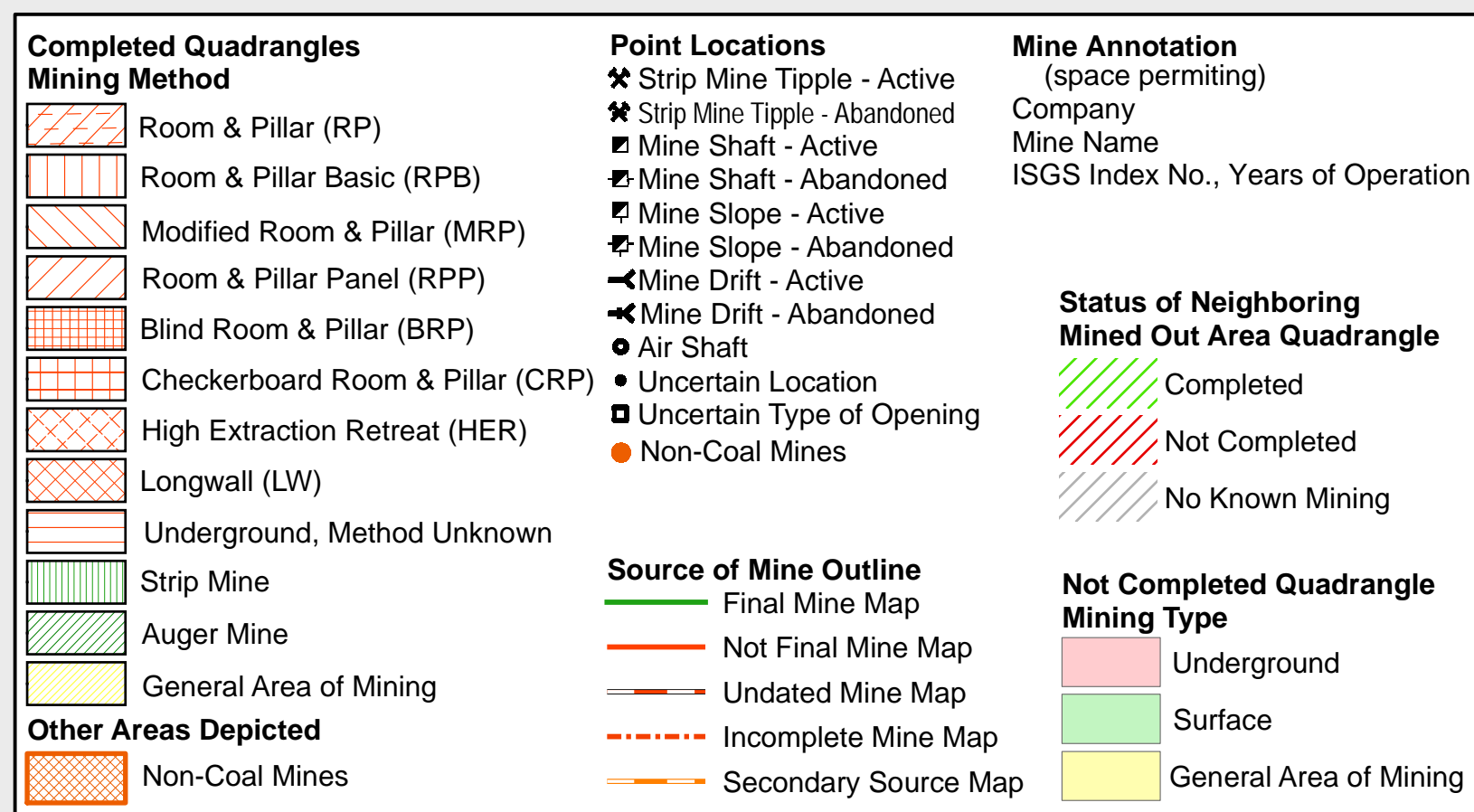
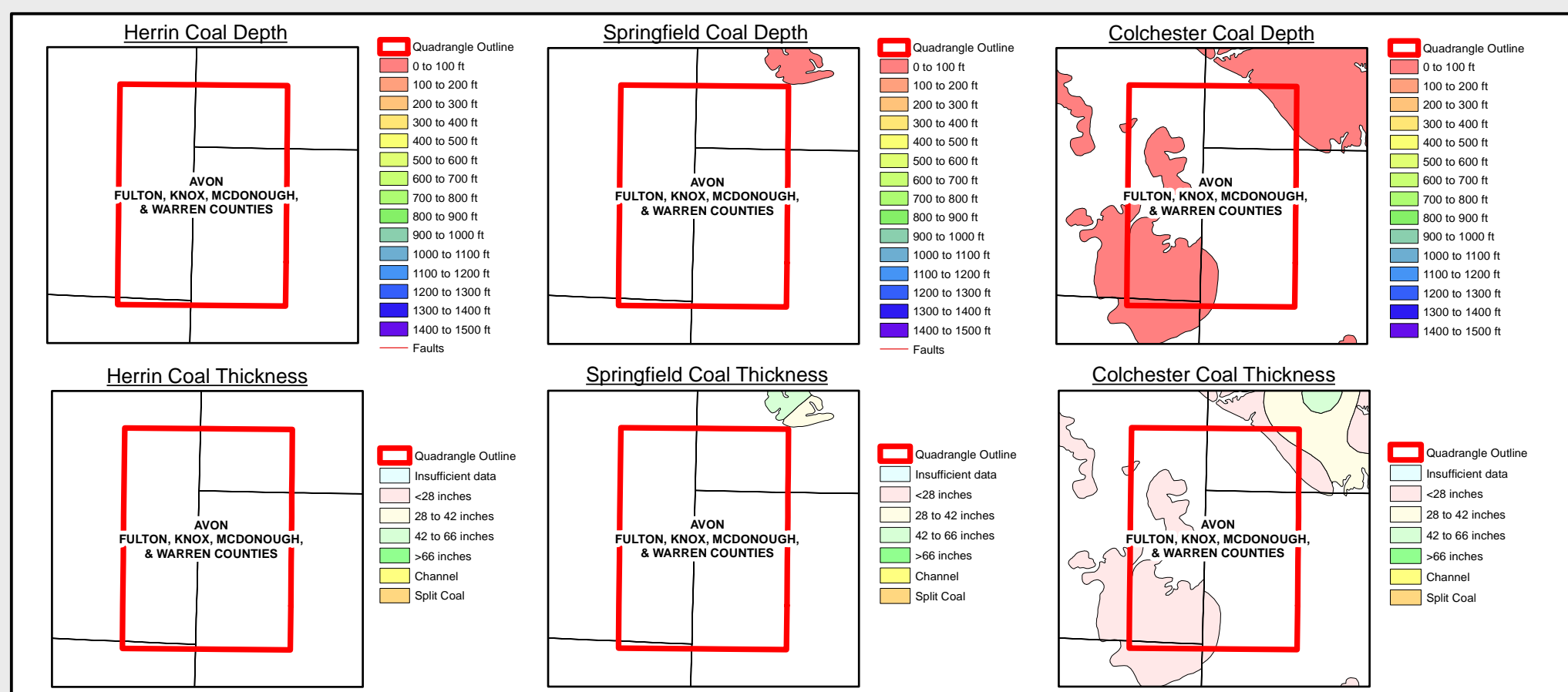
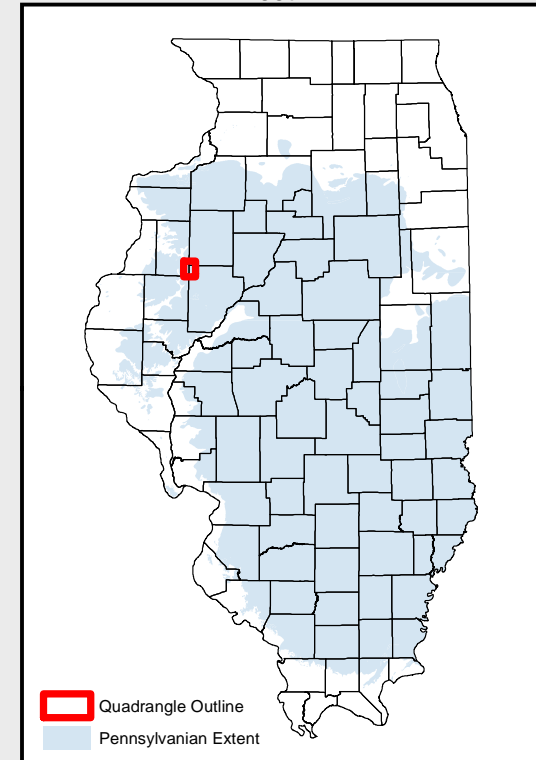
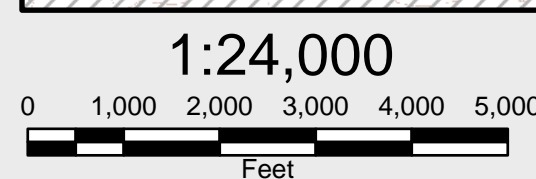
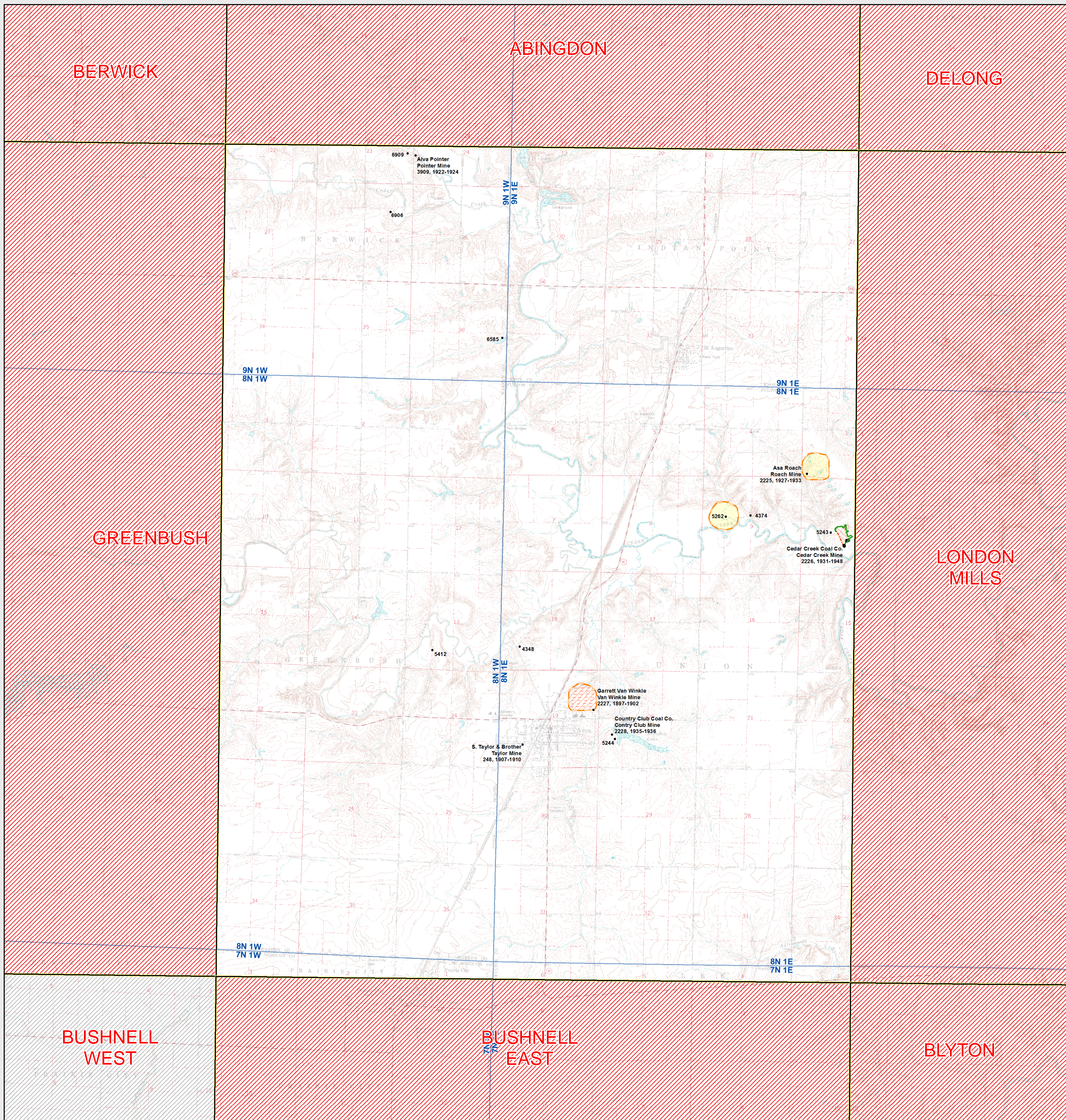


Coal Mines in Illinois
AVON QUADRANGLE
FULTON, KNOX, MCDONOUGH, & WARREN COUNTIES
Rock Island Coal

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Map Explanation

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 data. The compilation process, digital data processing, and map production of these factors. These data are not intended for use in site-specific screening or decision-making.

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. The scale of the outlines shown may still be undetermined, see the unlocated mines list at the back of each mine directory.

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

The Illinois State Geological Survey and the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

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DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES AVON QUADRANGLE FULTON, WARREN, KNOX & McDONOUGH COUNTIES

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2014

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

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

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

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INTRODUCTION

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

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

This directory serves as a key to the accompanying mine map and provides basic information on the coal mines in the quadrangle. The directory is composed of two parts. Part I explains the symbols and patterns used on the accompanying map and the summary data presented for each mine. Part II numerically lists the mines in the quadrangle and summarizes the geology and production history of each mine. Total production for the mine, not the portion in the quadrangle, is given.

MINING IN THE AVON QUADRANGLE

The earliest known mining in the Avon Quadrangle was in 18-T8N-R1E in Fulton County, near mine index 4348, northwest of the town of Avon. A cannel coal was distilled for oil by D. H. Spunver in 1859. Ten retorts were in operation until the discovery of oil in Pennsylvania put a stop to production by this method, as it was said that a ton of coal was required to distill 30 gallons of oil. When oil could be produced so much more cheaply, there was little incentive to continue production by this method.

The Rock Island and Colchester Coals were mined. Both were thin, but over most of the area, one seam or the other was shallow and available to drift mine or to access with a shallow slope along the hillsides adjacent to the streams.

PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

INTERPRETING THE MAP

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

Mine Type and Mining Method

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

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

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

Room and Pillar - mining is divided into six categories:

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

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

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

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

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

SOURCE MAPS

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

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

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

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

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

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

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

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

POINTS AND LABELS

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

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

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



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

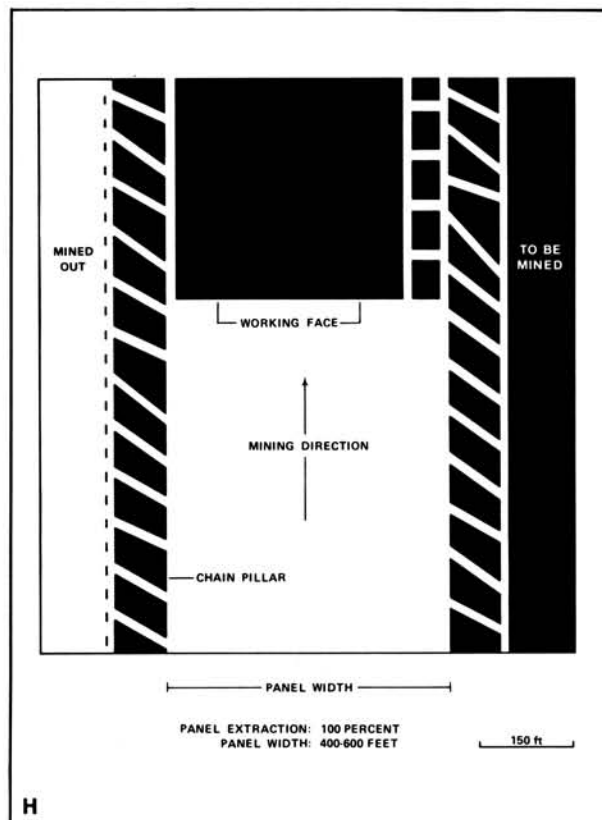
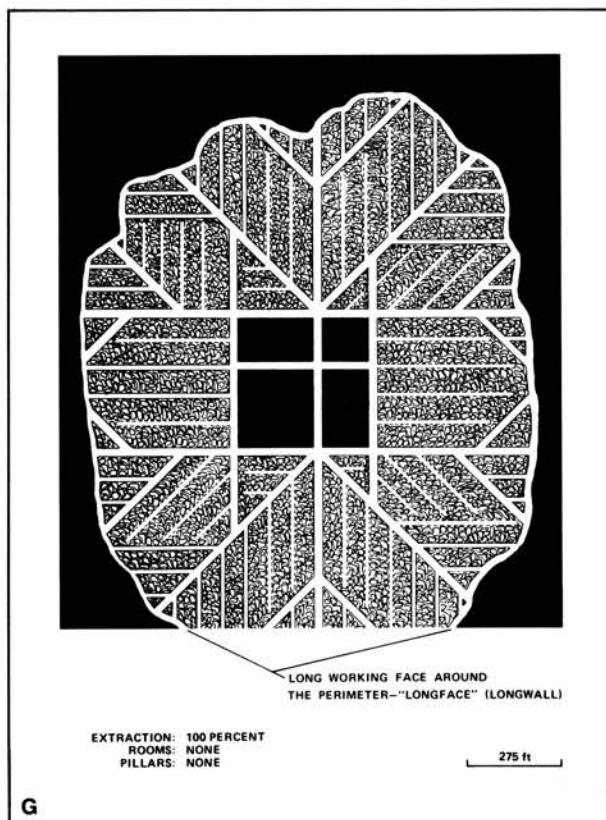
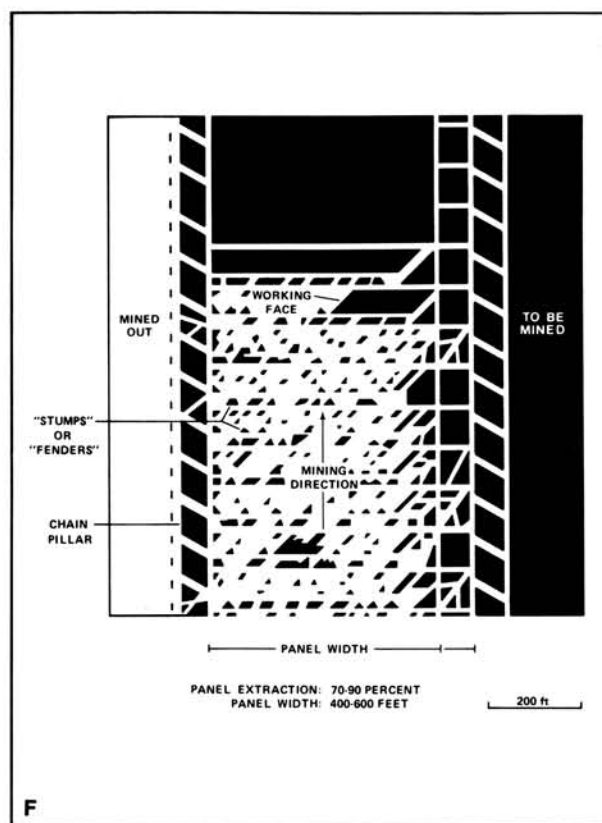
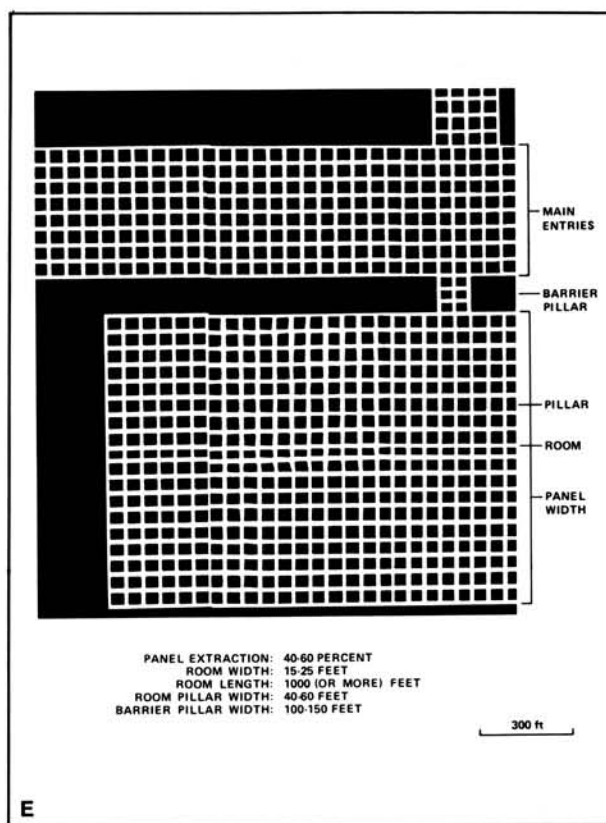


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall



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

INTERPRETING A MINE SUMMARY SHEET

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

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

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

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

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

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

GEOLOGY

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

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

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

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

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

PRODUCTION HISTORY

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

SOURCE OF DATA

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

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

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

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

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

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

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

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

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

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

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

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

REFERENCES

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

Chapman, C. H. & Co., 1879, History of Fulton County, Illinois, J. Franks & Sons, Peoria, Illinois, 1092p.

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 AVON QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Avon 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 248

S. Taylor & Brother, Taylor Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 1E	19	SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	17-20			2.5-2.8	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Taylor & Workman	Taylor & Workman	1907-1909	1,360
S. Taylor & Brother *	Taylor	1909-1910	<u>1,100</u>
			2,460

* The ISGS field notes refer to the mine as Tayler & Passent although the name was not used for production in the Coal Reports.

Last reported production: 1910

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	9-18-1909	(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, shaft location, seam, depth, thickness.

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

Mine Index 2225
Asa Roach, Roach Mine

Type: Underground Total mined-out acreage shown: 43 Production indicates approximately 3 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Fulton	8N 1E	3	SW SW SW

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Fred D. Ranch	Ranch	1927-1927	175
Asa Roach	Roach	1928-1933	8,910 *
			9,085

* Production was not reported in 1930 for mines producing less than 1,000 tons.

Last reported production: 1933

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.

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

Mine notes (Fulton County) - Mine location, seam.

Federal Land Bank Report (Fulton County) - Mine location, mine outline.

Mine Index 2226**Cedar Creek Coal Company, Cedar Creek Mine**

Type: Underground Total mined-out acreage shown: 11 Production indicates approximately 16 acres were mined. The source map was incomplete on the west side of the mine, where previous mining took place that was inaccessible to the surveyor in the final years of operation.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Fulton	8N 1E	10	SE NE SW
Air shaft (former hoist)	Fulton	8N 1E	10	SE NE SW
Air shaft (original)	Fulton	8N 1E	10	SE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	11-22			4.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
D. W. Buell	Buell	1931-1931	1,182
Avon Coal Company	Avon	1932-1936	28,598
D. W. Buell	Buell	1937-1937	2,289
Avon Coal Company	Avon	1938-1942	7,140
O. W. Buel	Buel	1943-1943	361
Dallefield & Glore	Dallefield & Glore	1943-1946	17,223
Dancy & Glore	Dancy & Glore	1947-1947	Unknown
Cedar Creek Coal Company	Cedar Creek	1948-1948	<u>2,138</u>
			58,931

Last reported production: 1948

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 355104	12-1948	1:600	1:1117	Final, Incomplete

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 355104, reel 03148, frame 73 - Slope & shaft locations, mine outline, mining method.

Mine Index 2227**Garrett Van Winkle, Van Winkle Mine**

Type: Underground Total mined-out acreage shown: 45 Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 1E	19	SE SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	35-40			2.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George Van Winkle	Van Winkle	1897-1898	Unknown *
Garrett Van Winkle	Van Winkle	1898-1902	<u>570</u> 570

* The shaft was sunk in Van Winkle's brickyard, and was listed in the new mines, but without production listed in the tables for the district.

Last reported production: 1902

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

Mine Index 2228**Country Club Coal Company, Country Club Mine**

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Fulton	8N 1E	20	SE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	14			2.67	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Country Club Coal Company	Country Club	1935-1936	<u>680</u> 680

Last reported production: 1936

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Mine Index 3906
Orrie Clayton, Clayton Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Warren	8N 1W	23	NW NE SW

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Clayton & Sayton	Clayton & Sayton	1928-1928	192
Guy Clayton	Clayton	1929-1934	484 *
Clayton Brothers	Clayton	1934-1936	474
Frank Clayton	Clayton	1937-1940	300
Orrie Clayton	Clayton	1940-1940	6
			1,456

* Production was not reported from 1930 to 1933 for mines producing less than 1,000 tons per year.

Last reported production: 1940

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes (H. E. Culver)	1922	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 (Warren County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Warren County) - Mine location.

Mine Index 3909
Alva Pointer, Pointer Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Warren	9N 1W	24	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	10	2.83	3.2	3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Alva Pointer	Pointer	1922-1924	<u>900</u> 900

Last reported production: 1924

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes (H. E. Culver)	1922	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 (Warren County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Warren County) - Mine type, slope location, seam, depth, thickness, mining method.

Mine Index 5244

Type: Underground Total mined-out acreage shown: None

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Fulton	8N 1E	20	SE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	14			2.67	Underground

Geologic Problems Reported: The limestone cap rock was 8 to 11 feet thick. The dip of the coal was to the northeast, and there was enough dip that water following the dip ran into the mine and caused trouble with the mining. A pyrite band was present near the center of the seam, with the coal below the pyrite layer being of better quality than the upper portion.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Unknown *			

* The 1906 field note stated that the mine was abandoned 2 or 3 years previously. It is possible that R. Belding (see the unlocated mines at the back of this report) operated here.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. E. Savage)	1906	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Fulton County) - Mine index.

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

Mine Index 5853
William Caldwell, Caldwell 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 drift	Warren	8N 1W	23	NW NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Colchester	9-30			1.67-2.25	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Willis Clayton	Clayton	1889-1897	2,802
Henry Hopkins	Hopkins	1897-1901 *	1,750
Willis Clayton	Clayton	1901-1906	2,868
Henry Clayton	Clayton	1906-1907	960
Willis Clayton	Clayton	1907-1922 **	10,509
Guy Clayton	Clayton	1922-1923	924
Clayton & Caldwell	Clayton & Caldwell	1923-1925	880
W. Caldwell	Caldwell	1925-1925	280
W. Caldwell & Clayton	Caldwell & Clayton	1926-1926	480
William Caldwell	Caldwell	1927-1929	952
			22,405

* Idle 1901

** Idle 1920; production was not reported from 1930 to 1933 for mines producing less than 1,000 tons per year.

Last reported production: 1929

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. E. Savage)	1906	1:62500	1:62500	Secondary source

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 (Warren County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Warren County) - Drift location, mine type.

Mine Index 6130**Thomas & W. Caldwell, Caldwell Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 11 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Warren	8N 1W	26	NE NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Colchester	12-40			1.67-2.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Thomas Caldwell	Caldwell	1889-1919	17,787
Thomas & W. Caldwell	Caldwell	1919-1920	400
			18,187

Last reported production: 1920

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. E. Savage)	1906	1:62500	1:62500	Secondary source

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 (Warren County) - Mine names, mine index, ownership, years of operation.

ISGS field notes (Warren County) - Mine type, drift location.

Mine Index 6837
Bradbury & Company, Bradbury Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 7 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	McDonough	7N 1W	1	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Colchester	52			1.67-2.0	RP

Geologic Problems Reported: The shale above the coal was approximately 9 feet thick and was manufactured into bricks. The coal produced was used almost entirely to manufacture the brick.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Robert Davis	Davis	1882-1883	7,200
Prairie City Coal & Tile Company	Prairie City	1883-1885	1,825
Bradbury & Company	Bradbury	1885-1888	<u>2,760</u>
			11,785

Last reported production: 1888

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. E. Savage)	1906	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

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

OTHER MINES SHOWN ON AVON QUADRANGLE

Mine Index 4348 NE SW SW 18-T8N-R1E, drift mines along the south bank of Swan Creek, including one to some cannel coal that was distilled for oil circa 1850; Rock Island Coal source: ISGS field notes (T. E. Savage, 1906; G. H. Cady, circa 1908)

Mine Index 4374 SE SE NW 9-T8N-R1E, drift, Rock Island Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 5243 NW NE SW 10-T8N-R1E, slope, Rock Island Coal, 10 ft deep, 4.0 ft thick source: ISGS field notes (T. E. Savage, 1906)

Mine Index 5262 S ½ NW 9-T8N-R1E, shaft, Rock Island Coal source: Federal Land Bank Report (4-20-1933)

Mine Index 5412 NW SE SW 13-T8N-R1W, Rock Island Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 5413 NW SE NE 22-T8N-R1W, Colchester Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 5415 SW SW NW 23-T8N-R1W, drift, Colchester Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 5870 NW SW NW 24-T8N-R1W, drift, Colchester Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 6585 NE NE SE 36-T9N-R1W, drift, Rock Island Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 6633 SW SE SE 23-T8N-R1W, drift, Colchester Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 6634 SE SW SE 23-T8N-R1W, drift, Colchester Coal source: ISGS field notes (T. E. Savage, 1906)

Mine Index 6906 NW SE NE 26-T9N-R1W, slope, Rock Island Coal, 3.5 ft thick source: ISGS field notes (D. M. Moody, 1958)

Mine Index 6909 SE NE SE 23-T9N-R1W, drift, Rock Island Coal, 2.67 ft thick source: ISGS field notes (H. R. Wanless, 7-17-1930)

MINES WHOSE LOCATIONS ARE NOT KNOWN, AVON 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 Avon 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 74,945 (51,516 underground and 23,429 mined by uncertain method), which would represent approximately 20 to 60 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

ABINGDON (Warren County)

Bonney (H. E.), 1927-1929, underground	258 tons
Stuart & Justice, 1923-1924	300 tons

AVON (Fulton County)

Caldwell (Thomas), 1896-1899, slope or shaft, Colchester, 35-40, 2.3-5.0, RP	3,483 tons
Chatterton Brothers, 1896-1897, slope, —, 40, 2.5, RP	400 tons
Stannard (R.), 1898-1899, drift, Colchester, 35, 2.33	120 tons
Belding (R.), 1901-1902	320 tons
Hubble (Frank), 1907-1917, slope or drift, —, 40-150, 2.5-5.0, RP	7,470 tons
Hubble (William), 1911-1913, shaft, Colchester, 40-60, 3.0, RP	1,800 tons
Taylor (Charles), 1911-1918, slope, —, 20-70, 3.67-5.0, RP	2,570 tons

Weaver (Prentis), 1911-1913, drift, Springfield, 40-75, 2.67-3.5, RP	550 tons
Clayton & Company, 1910-1911, drift, Colchester, 30, 3.0, RP	800 tons
Cole (Charles), 1911-1913, drift, —, 40-65, 2.5-3.5, RP	470 tons
Krieden (G. F.), 1917-1922, underground	3,557 tons
Krider (Frank), 1922-1924	5,693 tons
Kreider (G. F.), 1924-1925	120 tons
Krider (Frank), 1925-1925	750 tons
Kreider (G.), 1926-1927	120 tons
Krida (Frank), 1928-1928	<u>108 tons</u>
	10,348 tons
Astott (R. A.), 1918-1920	82 tons
Astott (Mrs. Jennie & R. A.), 1920-1921	<u>378 tons</u>
	460 tons
Baughman (William), 1919-1920	360 tons
Horr (E.), 1922-1923	1,250 tons
Foster & Statler, 1922-1923	410 tons
Statler & Yocum, 1923-1924	<u>155 tons</u>
	565 tons
Elston (Albert), 1923-1924	2,240 tons
Clayton (Harry), 1923-1924	800 tons
Haren & Clayton, 1924-1925	<u>1,267 tons</u>
	2,067 tons
Baxter (Harry), 1923-1924	585 tons
Zimmerman (George), 1925-1927	2,111 tons
Big Hollow Coal Company, 1925-1926	1,580 tons
Mulhatten (L. J.), 1928-1929, underground	990 tons
Sneider (G.), 1929-1929, underground	40 tons
Clayton (Frank), 1932-1932, underground	2,000 tons
Tatter Holler Coal Company, 1934-1934, underground	375 tons
Blagden (Arthur), 1934-1935, underground	569 tons
AVON (Warren County)	
Hendricks & Caldwell, pre1878-1879, slope, —, 12-15, 1.67-2.0	400 tons
Caldwell & Mace, 1880-1882	<u>400 tons</u>
	800 tons
Layman (Andrew), pre1878-1880, slope, Rock Island, —, 1.5-1.67	200 tons
Delane (A.), 1880-1882	<u>200 tons</u>
	400 tons
Schofield Mine, pre1878-1879, drift, Rock Island, 5, 1.5-1.67	100 tons
Forbes Brothers, 1881-1882, drift, —, 30, 2.0	1,400 tons
Robinson (John), 1889-1890	720 tons

Delaney (Thomas), 1887-1893, drift, Colchester, —, 2.0	560 tons
Ninaker (Fred), 1892-1896, slope, Colchester, 12-25, 2.0, TP	1,702 tons
Steinaker (Fred), 1895-1896, drift, —, 25, 2.0, RP	80 tons
Cunningham & Fullerton, 1895-1897, drift, Colchester, 30-35, 1.67-2.25, RP	1,390 tons
Delaney (R.), 1897-1899	575 tons
Lee (Thomas E.), 1899-1905	<u>2,056</u> tons
	4,021 tons
Smith (Lafayette), 1895-1896, drift, Colchester, 30-35, 1.67-2.25, RP	750 tons
Smith (Lafe), 1897-1900	1,350 tons
Smith (Thomas), 1900-1903	1,280 tons
Paul & Slater, 1903-1904	600 tons
Fall & Slater, 1904-1905	<u>400</u> tons
	4,380 tons
Tanney (P. H.), 1895-1897, drift, —, 30-40, 2.25, RP	735 tons
Chatterton (Henry), 1899-1901, drift, Colchester, —, 2.0, RP	880 tons
Fullerton (Henry), 1900-1903, drift, Colchester, —, 1.67, RP	1,032 tons
Singleton (Amos), 1902-1903, slope, Colchester, 15, 1.67, RP	148 tons
Ruhl (William D.), 1904-1910, slope/drift, Colchester, 10-16, 1.67-2.5, RP	2,128 tons
Spinkle (E. J.), 1910-1912	<u>729</u> tons
	2,857 tons
Delaney (Richard), 1905-1906, slope, Colchester, 15, 1.67, RP	80 tons
Hartman (Dike), 1905-1910, slope/drift, Colchester, 12-20, 2.0, RP	872 tons
Austin (C. W.), 1908-1909, drift, Colchester, —, 2.0, RP	130 tons
PRAIRIE CITY (Fulton County)	
Walton (Henry), 1897-1898, slope, Colchester, 35, 4.0	900 tons
PRAIRIE CITY (McDonough County)	
Millett (Charles), 1881-1884, shaft, Colchester, 52, 1.625-1.67, RP	1,150 tons
Millett & Hart, 1884-1886	1,100 tons
Millett (Charles), 1886-1888	<u>1,400</u> tons
	3,650 tons
Mead & Dunham, 1882-1883, shaft, Colchester, 52, 1.625-1.67, RP	600 tons
Dunham (John E.), 1883-1884	<u>400</u> tons
	1,000 tons
Dunham (John E.), 1886-1887, shaft, Colchester, 52, 1.67, RP	800 tons
Conrey, Howe & Company, 1885-1886, shaft, Colchester, 52, 1.67, RP	150 tons
PRAIRIE CITY (Warren County)	
Murphy (Henry), 1878-1879, slope, Rock Island, 50, 1.75	unknown

Stacy (Barney), pre1878-1879, drift, Rock Island, 5, 1.67	400 tons
Delaney (Thomas), 1881-1883, drift, —, 40, 1.75	780 tons
Hoy (R. J.), 1889-1891, drift, Colchester, —, 2.0, RP	1,393 tons
Hartford (A. L.), 1891-1892	<u>720 tons</u>
	2,113 tons
Franklin (G. W.), 1904-1905, drift, Colchester, —, 1.83, RP	266 tons

RIO (Knox County)

Epperson (William D.), 1881-1883, shaft, Rock Island, 65, 4.0-8.17, RP	3,000 tons
Nelson & Alngren, 1883-1884	<u>2,100 tons</u>
	5,100 tons
on Pope Creek in Rio Township	

ST. AUGUSTINE (Fulton County)

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

ST. AUGUSTINE (Warren County)

Howard (G. W.), 1934-1937, underground	318 tons
Nemrick (Cyrus), 1938-1939	21 tons
Howard (G. W.), 1940-1941	<u>57 tons</u>
	396 tons
Hughes (Jack), 1938-1938, underground	18 tons
Yoeman (T. P.), 1904-1905, drift, Rock Island, —, 2.67-3.67, RP	300 tons
Goff & Wilson, 1905-1906	520 tons
Loyd (John), 1906-1907	<u>450 tons</u>
	1,280 tons
Babbitt (H. E.), 1908-1909, drift, Colchester, —, 2.17, RP	240 tons
Sunnyside Coal Company, 1924-1925	1,240 tons

WOODHULL (Knox County)

Sanders (S. A.), pre1882-1883, shaft, Rock Island, 60, 4.67	1,280 tons
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