

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

 Blind room & pillar (BRP)
 Checkerboard room & pillar (CRP)
 High extraction retreat (HER)

* Source map ISGS Illinois Map 3, Karst Terrains and Carbonate Rocks of Illinois, 1997, 1:500,000
 ** Source map ISGS Bedrock Geology

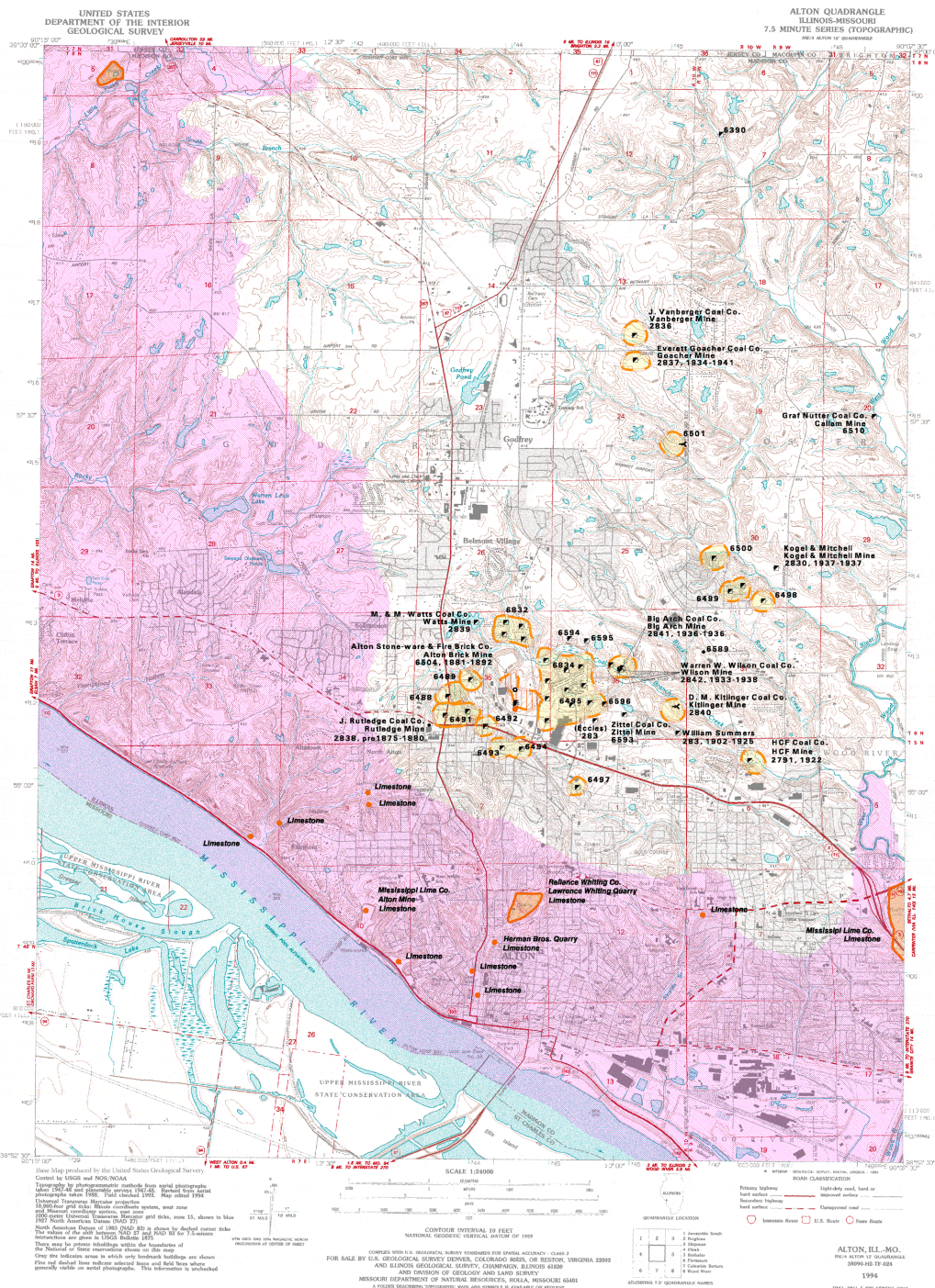
A map of Illinois with county boundaries. A red dot is located in the western part of the state, indicating the study area.

The image of the U.S.G.S. Alton quadrangle used as a basemap was projected from the original UTM to Lambert Conformable Conic.



Illinois State Geological Survey
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Mine outlines compiled by Melony E. Barrett
November 1, 2001
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DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
ALTON QUADRANGLE
MADISON, JERSEY & MACOUPIN COUNTIES
Cheri Chenoweth & Melony E. Barrett



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2001
REVISED 2004

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2001
REVISED 2004

ILLINOIS STATE GEOLOGICAL SURVEY
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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) 244-2420.

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INTRODUCTION

Coal has been mined in 73 counties of Illinois. More than 4,500 coal mines have operated since commercial mining began in Illinois about 1810; fewer than 30 are currently active. To detail the extent and location of coal mining in Illinois, the Illinois State Geological Survey (ISGS) has compiled maps and directories of known coal mines. The ISGS offers maps at a scale of 1:100,000 and accompanying directories for each county in which coal mining is known to have occurred. Maps at a scale of 1:24,000 and accompanying directories such as this are available for selected quadrangles. Contact the ISGS for a list of these quadrangles.

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

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

MINING IN THE ALTON QUADRANGLE

According to the History of Madison County (published in 1882), mining in the Alton quadrangle began in a drift mine along Coal Branch Creek, which runs through sections 35 and 36 of T6N-R10W, by Joseph and Richard Whyers. In the summer of 1848, James Mitchell opened a mine. A few months later, Thomas Dunford opened a mine. By 1882, the local coal was nearly exhausted, as well as more expensive to mine since it is thinner (about 30 inches, average). At the time of publication of this history, the local mines included Dennis Noonan, Peter Robinson, Charles Crowson, Henry Camp, Peter Taylor, Nathan Sydel, and Henry Conlon - mines that are presumed to be in the Coal Branch area, but whose locations and areal extent are unknown. Mines that operated then that have known general locations include William Watts (mine index 2839) and John Rutledge (mine index 2838).

PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

INTERPRETING THE MAP

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

Mine Type and Mining Method

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

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

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

Room and Pillar - mining is divided into six categories:

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

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

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

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

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

SOURCE MAPS

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

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

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

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

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

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

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

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

POINTS AND LABELS

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

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

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

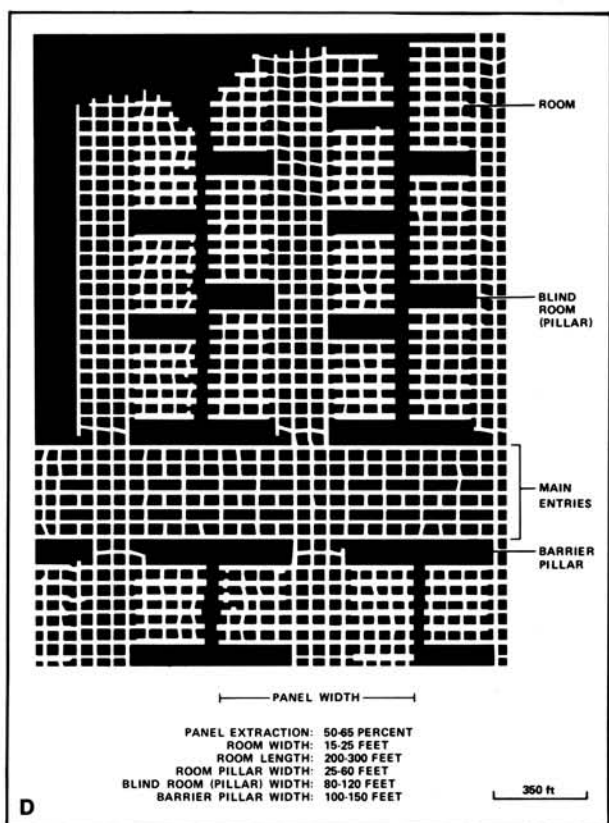
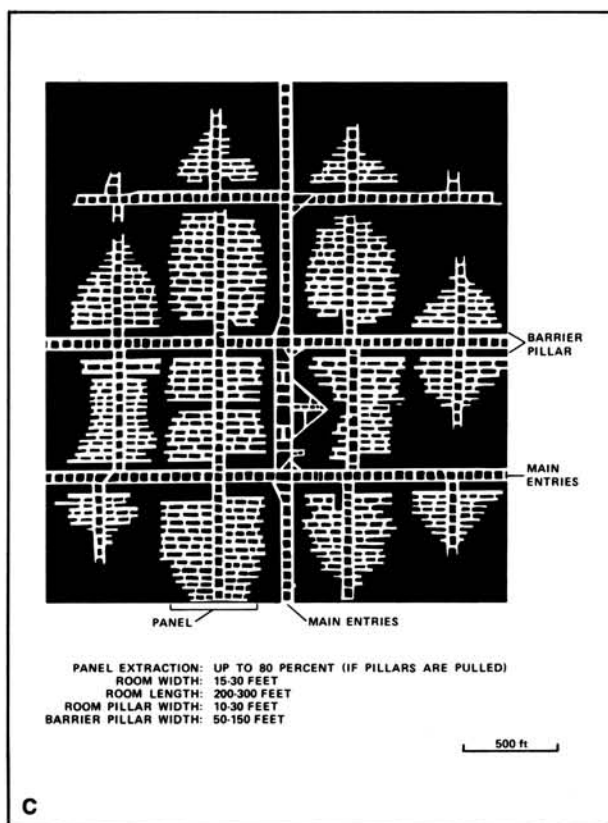
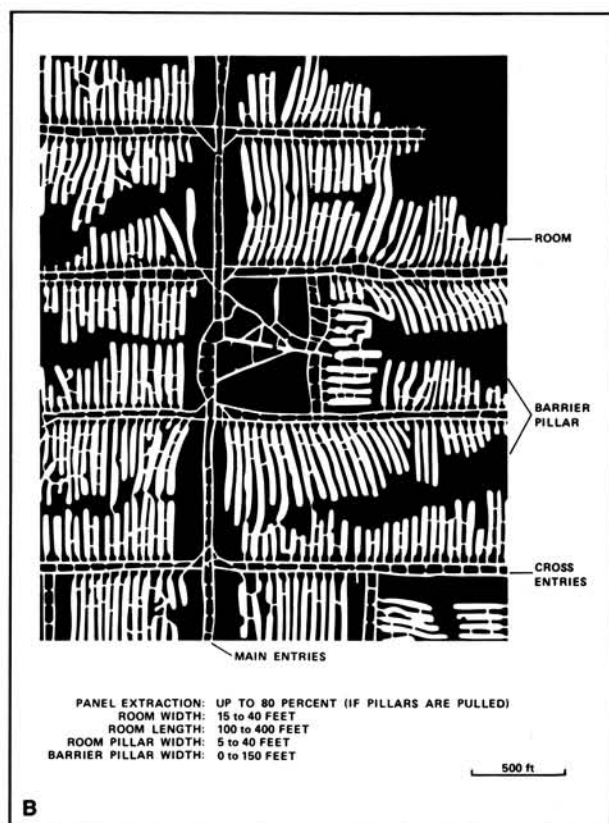
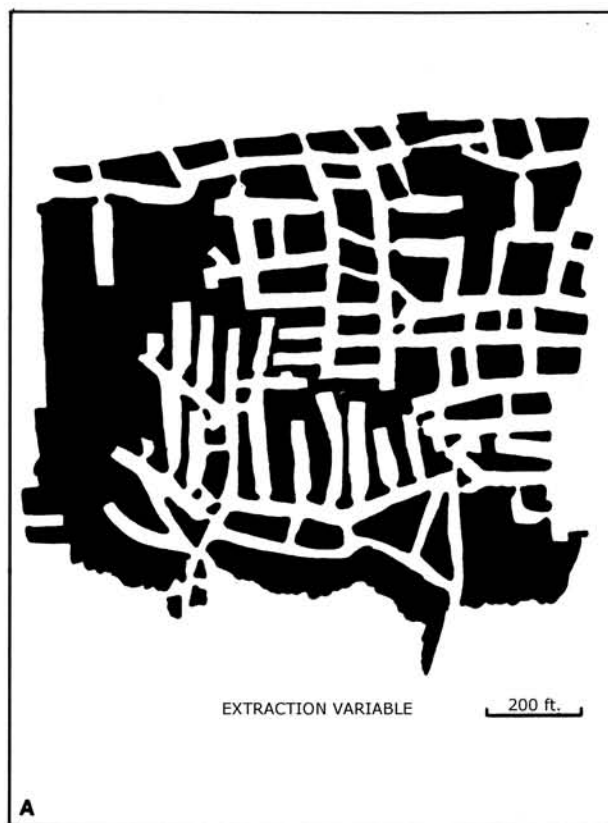


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

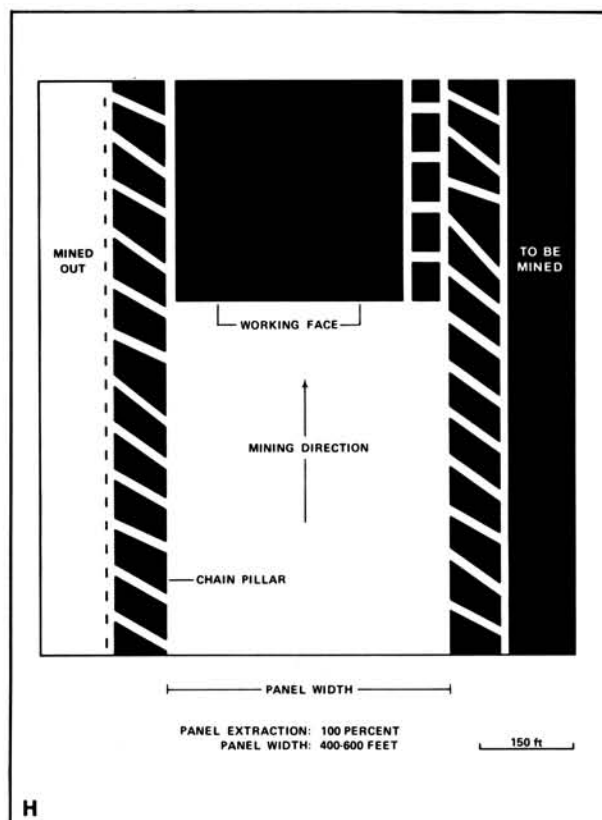
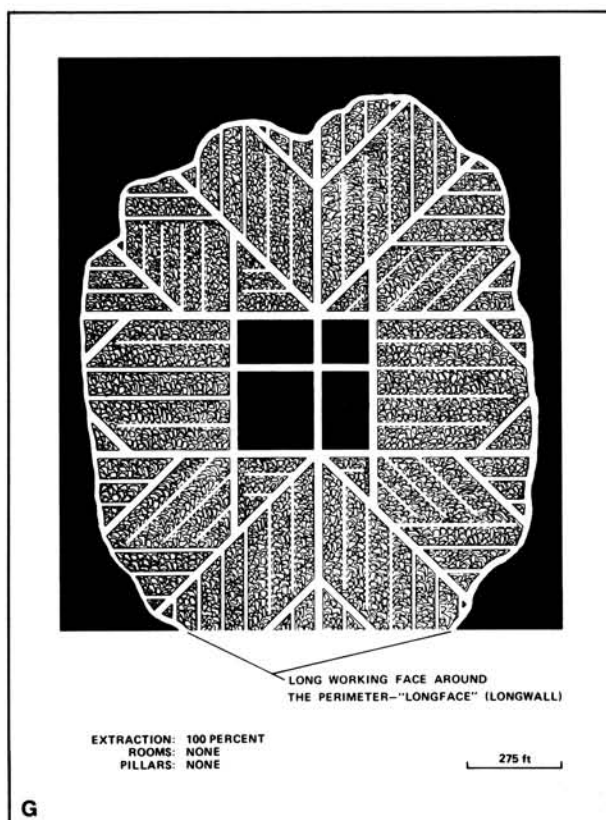
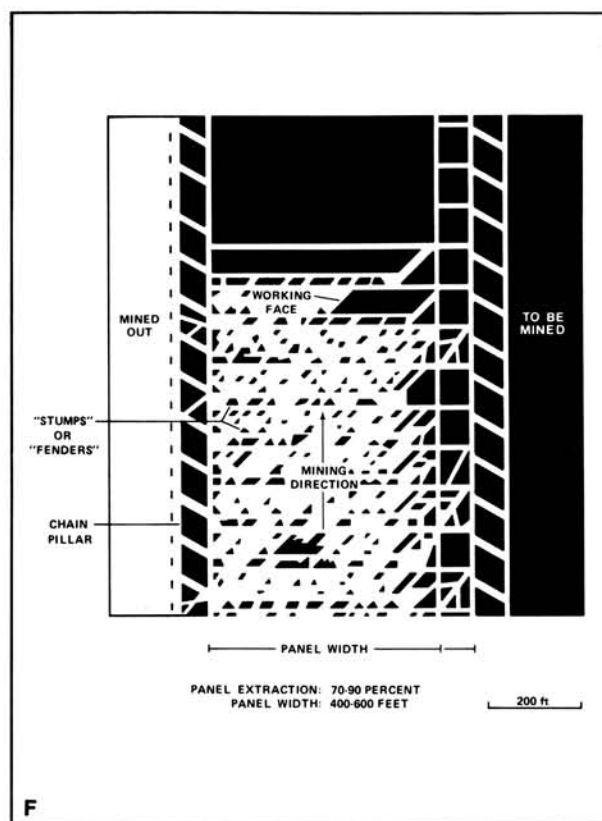
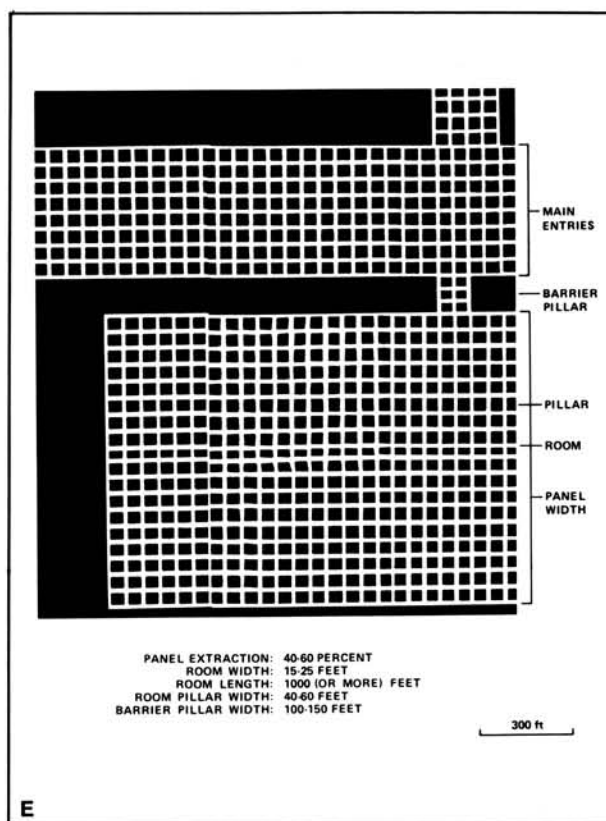


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

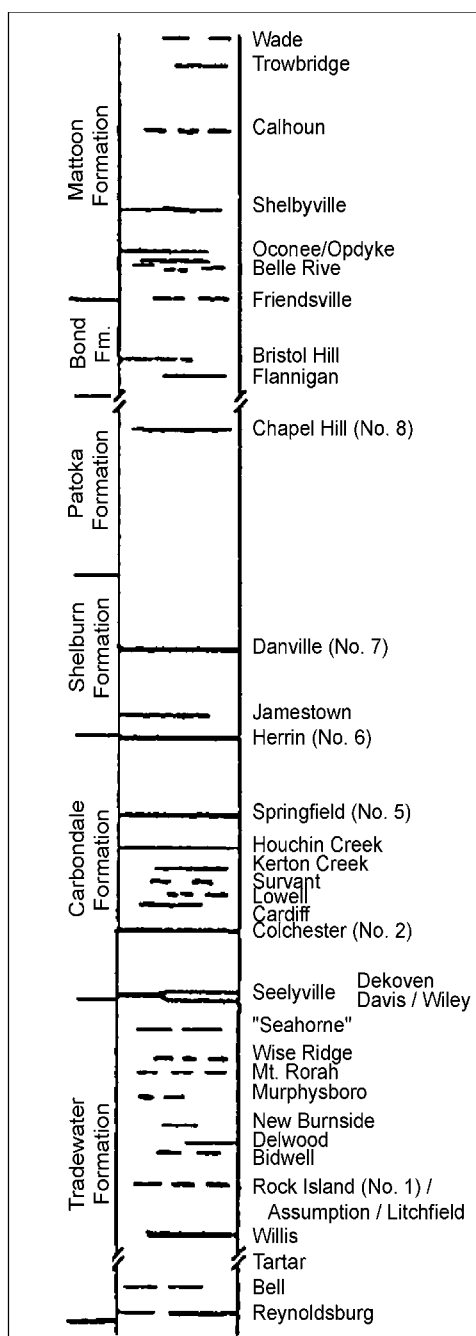


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

INTERPRETING A MINE SUMMARY SHEET

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

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

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

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

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

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

GEOLOGY

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

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

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

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

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

PRODUCTION HISTORY

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

SOURCE OF DATA

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

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

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

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

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

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

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

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

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

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

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

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

REFERENCES

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

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

PART II DIRECTORY OF MINES IN ALTON QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Alton Quadrangle is provided. The summary is arranged numerically by mine index number, which is shown on the map and in the mine listing. Consult Part I for a complete explanation of the data listed in the summary sheet.

Mine Index 283

William Summers, Summers Mine

Type: Underground Total mined-out acreage shown: none. Production indicates between 7 and 9 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Shaft	Madison	6N 10W	36	SE SE SE *
Shaft	Madison	6N 10W	36	NW SE SW *

* There are probably more shafts in the area than indicated. The mine notes state that Benjamin Eccles would sink a new shaft whenever the distance got too far (about 300 feet) to shove a small box of coal back to the shaft.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	40-130 **	2.0		2.25-3.5	RP

** The range of depths may vary due to the different shafts used by Benjamin Eccles. Field notes in 1922 gave a 130-foot depth; 1916 field notes gave a 40-foot depth; mine notes from 1909 gave a 63-foot depth.

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Frank Eccles	Eccles	1902-1906	6,610
Benjamin Eccles	Eccles	1906-1922 ***	12,401
William Wood	Wood	1922-1924	377
William Summers	Summers	1924-1925	514
			19,902

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

Last reported production: 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	1909	(text only)	1:24000 †	Secondary source
ISGS field notes (G. H. Cady)	1916	(text only)	1:24000 †	Secondary source
ISGS field notes (T. B. Root)	1922	(text only)	1:24000 †	Secondary source

† Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

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

Mine Index 2791
HCF Coal Company, HCF Mine

Type: Underground Total mined-out acreage shown: 17

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main slope	Madison	5N 9W	6	SE NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)		Mining Method
		Min	Max	
Colchester	20-30			2.5

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
HCF Coal Company *			

* No production reported under this name; years of operation unknown. The mine was active when visited in 1922.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. E. Culver)	1922	(text only)	1:24000 **	Secondary source
ISGS field notes (T. B. Root)	1922	(text only)	1:24000 **	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

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

Mine Index 2830**Kogel & Mitchell, Kogel & Mitchell 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	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 9W	30	SE NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	75				

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Kogel & Mitchell	Kogel & Mitchell	1937-1937 *	<u>21</u> 21

* Shaft noted at this location in 1922; previous owners are likely (see "Mines Whose Locations Are Not Known" section at the back of this directory). The mine is probably larger than the production indicates.

Last reported production: 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	undated	(text only)	1:24000 **	Secondary source
ISGS field notes (T. B. Root)	1922	(text only)	1:24000 **	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Madison County) - Mine type, shaft location, seam.

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

Mine Index 2836**J. Vanberger Coal Company, Vanberger Mine**

Type: Underground Total mined-out acreage shown: 18

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 10W	13	SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	45			3.0-3.2	

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. Vanberger *			

* No production reported under this name; years of operation unknown. The mine notes indicate this mine was abandoned prior to 1934.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	undated	(text only)	1:24000 **	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Madison County) - Mine index, ownership.
Mine notes (Madison County) - Mine type, shaft location, seam, depth, thickness.
Federal Land Bank Report (Madison County) - General area of mining.

Mine Index 2837**Everett Goacher Coal Company, Goacher Mine**

Type: Underground Total mined-out acreage shown: 16 Production indicates less than 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 10W	24	NW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	45	2.0	3.0	2.5	

Geologic Problems Reported: The black shale roof contains coal balls.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Gerdt Coal Company	Gerdt	1934-1940	3,798
Everett Goacher	Goacher	1941-1941	<u>130</u>
			3,928

Last reported production: 1941

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	undated	(text only)	1:24000 *	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source

* Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Federal Land Bank Report (Madison County) - General area of mining.

Mine Index 2838
John Rutledge Coal Company, Rutledge Mine

Type: Underground Total mined-out acreage shown: none

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 10W	35	SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)		Ave	Mining Method
		Min	Max		
Colchester	65-72			2.5	

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Rutledge	Rutledge	pre1875-1880	<u>1,600</u> * 1,600

* Production shown reflects only 1878-1879 fiscal year; prior production unknown. The History of Madison County, published in 1882, indicated this mine was active when written; probably active 1880, perhaps through the first half of 1881.

Last reported production: 1879

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	undated	(text only)	1:24000 *	Secondary source

* Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, depth, thickness.
 Directory of Illinois Coal Mines (Madison County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Madison County) - Mine type, shaft location, seam, depth, thickness.
 History of Madison County, Illinois; published by W. R. Brink & Co., Edwardsville, Illinois, 1882 - Years of operation.

Mine Index 2839**M. & M. Watts Coal Company, Watts Mine**

Type: Underground Total mined-out acreage shown: none

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 10W	35	NE NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	18	3.0	6.0	3.0	

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William Watts *			
M. & M. Watts *			

* No production reported under this name; years of operation unknown. William Watts was actively mining when the *History of Madison County* was written, probably 1880-1881.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	undated	(text only)	1:24000 **	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Madison County) - Mine index, ownership.

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

History of Madison County, Illinois; published by W. R. Brink & Co., Edwardsville, Illinois, 1882 - Years of operation.

Mine Index 2840**D. M. Kitlinger Coal Company, Kitlinger Mine**

Type: Underground Total mined-out acreage shown: 16

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main drift	Madison	6N 10W	36	SE NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)		Mining Method
		Min	Max	
Colchester	0			2.5

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
D. M. Kitlinger *			

* No production reported under this name; years of operation unknown. The field notes indicate this mine was abandoned prior to the 1922 visit.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	undated	(text only)	1:24000 *	Secondary source
ISGS field notes (T. B. Root)	1922	(text only)	1:24000 *	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source

* Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Madison County) - Mine index, ownership.
 Mine notes (Madison County) - Mine type, drift location, seam, depth, thickness.
 ISGS field notes (Madison County) - Years of operation.
 Federal Land Bank Report (Madison County) - General area of mining.

Mine Index 2841**Big Arch Coal Company, Big Arch Mine**

Type: Underground Total mined-out acreage shown: 19 The area shown includes Mine Index 2842, Wilson Mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 10W	36	SW SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	13			2.7	

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Big Arch Coal Company	Big Arch	1936-1936	$\frac{12}{12}$ *

* The area shown on the map is much larger than this production would have mined. Since the source map for the polygon was created before this company operated, this area was probably mined previously by other (unknown) coal companies. See the back of this report, "Mines Whose Locations Are Not Known, Alton Quadrangle".

Last reported production: 1936

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mine notes	undated	(text only)	1:24000 **	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Federal Land Bank Report (Madison County) - General area of mining.

Mine Index 2842**Warren W. Wilson Coal Company, Wilson Mine**

Type: Underground Total mined-out acreage shown: none. Production indicates less than 2 acres were mined. Included in the polygon for Mine Index 2841, Big Arch Mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 10W	36	SE SE NW
West shaft	Madison	6N 10W	36	SW SW NE
Air shaft	Madison	6N 10W	36	SW SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	1	2.5	2.8	2.7	

Geologic Problems Reported: The source map showed a low area (between the main and west shafts) filled with water, an area near the west shaft that had a caved roof, and an area of floor heave near the west shaft. These are typical problems of thin bedrock over shallow underground mines.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Warren W. Wilson	Wilson	1933-1938 *	3,128 **
			3,128

* Idle 1937

** The area shown on the map is much larger than this production would have mined. Since the source map for the polygon was created before this company operated, this area was probably mined previously by other (unknown) coal companies. See the back of this report, "Mines Whose Locations Are Not Known, Alton Quadrangle".

Last reported production: 1938

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352329	6-1936	1:1200	1:1572	Incomplete

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 352329, reel 03138, frame 435 - Shaft locations, geologic problems.

Mine Index 6501
drift mine

Type: Underground Total mined-out acreage shown: none

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main drift	Madison	6N 10W	24	SE NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)		Mining Method
		Min	Max	
	20			3.0

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
unknown *			

* Owner's name not reported; years of operation unknown ("old" when noted in field notes in 1922, shown on 1906 Atlas of Madison County)

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes	undated	(text only)	1:24000 **	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source
1906 Atlas of Madison County	1906	1:31680	1:31680	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized, compared with location given by Atlas.

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Madison County) - Mine location.
ISGS field notes (Madison County) - Mine type, drift location, depth, thickness.
Federal Land Bank Report (Madison County) - General area of mining.
Standard Atlas of Madison County, 1906 - Drift location.

Mine Index 6504**Alton Stone-ware & Fire Brick Coal Company, Alton Brick Mine**

Type: Underground Total mined-out acreage shown: 28

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Hoist shaft	Madison	6N 10W	35	SE NW SE
Air shaft	Madison	6N 10W	35	NE NW SE
Bucket shaft	Madison	6N 10W	35	SE NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	26-60			2.3-2.5	RPB

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
M. H. Boals	Boals	1881-1886	38,102
Alton Stone-ware & Fire Brick Company	Alton Brick	1886-1892	<u>24,762</u>
			62,864

Last reported production: 1892

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.M35 i5.1-32 *	5-6-1974	1:2400	1:2400	Secondary source

* "Underground tunnel system taken from survey notes as known to date; May 6, 1974. Prepared for City of Alton, Illinois by Surdex Corporation, Chesterfield, Missouri."

Annotated Bibliography (data source, brief description of information)

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

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

ISGS map library, 4103.M35 i5.1-32 - Mine outline, shaft locations, mining method.

Mine Index 6510
Graf Nutter Coal Company, Callam Mine

Type: Underground Total mined-out acreage shown: none

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 9W	20	NE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	60				

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Graf Nutter	Callam	unknown *	

* This mine was active when visited in 1928, but did not report under either name in the Coal Reports. Production and years of operation unknown.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (Van Pelt)	1928	(text only)	1:24000 **	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

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

Mine Index 6593
Zittel Coal Company, Zittel Mine

Type: Underground Total mined-out acreage shown: none

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 10W	36	NW SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
	40				

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Zittel *			

* No production was reported under this name; years of operation unknown. The shaft was abandoned and filled in prior to 1922.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. B. Root)	1922	(text only)	1:24000 **	Secondary source

** Point plotted on USGS 1:24,000 quadrangle map and digitized.

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Madison County) - Mine index, ownership.
 ISGS field notes (Madison County) - Mine type, shaft location, depth.

OTHER MINES SHOWN ON THE ALTON QUADRANGLE

Mine Index 6390 NE SW NW 7-T6N-R9W, 3.3 feet thick source: ISGS field notes, Van Pelt, 8-27-1928
 Mine Index 6488 SE NW SW 35-T6N-R10W source: Federal Land Bank Report
 Mine Index 6489 NE NE SW 35-T6N-R10W source: Federal Land Bank Report
 Mine Index 6491 NE SW SW & NW SE SW 35-T6N-R10W source: Federal Land Bank Report
 Mine Index 6492 SW SW SE 35-T6N-R10W source: Federal Land Bank Report
 Mine Index 6493 NE NW NE 2-T5N-R10W source: Federal Land Bank Report
 Mine Index 6494 NW NE NE 2-T5N-R10W source: Federal Land Bank Report
 Mine Index 6495 SE NW SW 36-T6N-R10W ; depth 93 feet, thickness 2.7 feet source: Federal Land Bank Report;
 ISGS field notes, T. B. Root, 1922
 Mine Index 6497 SE SW NW 1-T5N-R10W source: Federal Land Bank Report
 Mine Index 6498 SW SW SE 30-T6N-R9W source: Federal Land Bank Report
 Mine Index 6499 2 shafts in SE SW 30-T6N-R9W source: Federal Land Bank Report
 Mine Index 6500 NE NW SW 30-T6N-R9W source: Federal Land Bank Report
 Mine Index 6589 3 shafts in SW NW 31-T6N-R9W (shown with one "uncertain location" symbol) source: ISGS
 field notes
 Mine Index 6594 SE NW NW 36-T6N-R10W source: ISGS field notes, T. B. Root, 1922
 Mine Index 6595 SW NE NW 36-T6N-R10W source: ISGS field notes, T. B. Root, 1922
 Mine Index 6596 SE NE SW 36-T6N-R10W, 36 feet deep source: ISGS field notes, T. B. Root, 1922
 Mine Index 6832 NE 35-T6N-R10W, 4 shafts and general area of mining source: Federal Land Bank
 Mine Index 6834 W ½ 36-T6N-R10W, numerous shafts and general area of mining source: Federal Land Bank

NON-COAL MINES IN THE ALTON QUADRANGLE

Quarry

Type	County	Twp-Rge	Section	Quarters-Footage
Limestone quarry	Madison	5N 9W	7	NW SW NW

Source: ISGS field notes, T. B. Root, July 1922

Mississippi Lime Company

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	5N 9W	8	NE SW NW

The outline shown is a property map obtained in 1988; a mine map was not available. The mined area is uncertain and the map may not indicate all areas mined. Mining was underground 1954-1956; the current topographic maps shows a surface quarry in sections 8 & 9.

Quarry

Type	County	Twp-Rge	Section	Quarters-Footage
Limestone quarry	Madison	5N 10W	3	SE SW NE
Limestone quarry	Madison	5N 10 W 3		NE NW SE

Source: ISGS field notes, T. B. Root, July 1922

Limestone Quarry at Hop Hollow

Type	County	Twp-Rge	Section	Quarters-Footage
Quarry	Madison	5N 10W	3	SW NW SE

Bottom of quarry filled with water.

Source: ISGS field notes, J. R. Van Pelt, Jr., June 29, 1927

Quarry

Type	County	Twp-Rge	Section	Quarters-Footage
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Quarry ("drowned")	Madison	5N 10W	4	SW NE SE
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Source: ISGS field notes, T. B. Root, July 24, 1922; also shown on USGS topographic map

Mississippi Sand Company, limestone mine

Type	County	Twp-Rge	Section	Quarters-Footage
Quarry	Madison	5N 10W	10	SE NE SE

Quarry opened 1892, active at time of visit

Source: ISGS field notes, J. E. Lamar, July 24, 1919

Mississippi Lime Company, Alton Mine

Type	County	Twp-Rge	Section	Quarters-Footage
Limestone quarry	Madison	5N 10W	10	NE SW NE

A very small area was underground mined.

Source: Coal Section non-coal mines database

Herman Brothers Quarry, limestone quarry

Type	County	Twp-Rge	Section	Quarters-Footage
Quarry	Madison	5N 10W	11	NW NW SE

Quarry opened 1885

Source: ISGS field notes, J. E. Lamar, July 23, 1919

Mississippi Lime & Materials Company, Quarry No. 2, limestone quarry

Type	County	Twp-Rge	Section	Quarters-Footage
Quarry	Madison	5N 10W	11	SE SE SW

Source: ISGS field notes, M. M. Leighton, April 5, 1920

Limestone quarry

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	5N 10W	11	NE SE SW

Source: ISGS field notes, T. B. Root, July 12, 1922

Reliance Whiting Company, Lawrence Whiting Quarry, limestone mine

Type	County	Twp-Rge	Section	Quarters-Footage
Quarry	Madison	5N 10W	11	NE

Source: ISGS field notes, M. M. Leighton, October 17, 1956 and J. C. Frye & H. B. Willman, September 25, 1962

Quarry

Type	County	Twp-Rge	Section	Quarters-Footage
Quarry	Madison	6N 10W	5	NW SW SE

Source: USGS topographic map, Alton Quadrangle, 1994

Alton Brick Company; clay mine

Type	County	Twp-Rge	Section	Quarters-Footage
Shaft	Madison	6N 10W	35	SW NE SE

Mining method was RP; years of operation 1915-1924; depth 40 feet, thickness 10 feet
Source: Coal Section non-coal mines database

MINES WHOSE LOCATIONS ARE NOT KNOWN, ALTON QUADRANGLE

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

The total tons mined by these unlocated mines is 381,407, which would represent approximately 98 to 238 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

MINES WITH ADDRESSES NEAR NORTH ALTON OR UPPER ALTON OR EAST ALTON

C. Reese, 1879, shaft, 97, 6.67	2,000 tons
P. Roldson, 1879, shaft, 90, 2.5	2,000 tons
P. Conilo, 1879, shaft, 80, 2.5	900 tons
Hughes & McGuire, 1879, shaft, 35, 2.5	200 tons
F. Kutkamp, 1879, shaft, 60, 2.5	3,000 tons
F. Deer, 1879, shaft, 98, 2.5	5,000 tons
Dengs & Newnan, No. 1, 1879, shaft, 95, 2.5	12,000 tons
Dengs & Newnan, No. 2, 1879, shaft, 97-98, 2.5	tons not reported
D. Noonan, 1882	12,000 tons
N. Mitchell, 1878-1879, shaft, 80-93, 2.5	3,520 tons
James Mitchell, 1881-1888	45,452 tons
James Mitchell heirs, 1888-1891	8,550 tons
Molloy & Black, 1892-1893	<u>110 tons</u>
	57,632 tons
J. Taylor & Brother, pre1878-1881, shaft, 85-90, 2.5	1,200 tons
Peter Taylor, 1881-1884	<u>18,200 tons</u>
total	19,400 tons
Watts & Crosson, 1879-1881, shaft, 82-95, 2.5	1,600 tons *
Watts & Company, 1881-1883	36,000 tons
Crowson & Watts, 1883-1884	4,000 tons
Conlin & Company, 1884-1887	9,918 tons
Taylor & Ball, 1887-1889	<u>4,708 tons</u>
total	56,226 tons
* tonnage between July 1879 & June 1881 unknown	
Taylor & Ball, 1894-1895, shaft, 95-100, 2.5	700 tons
Malloy & Ball, 1895-1902	<u>9,135 tons</u>
total	9,835 tons
N. Camp & Brother, 1878-1881, shaft, 64-80, 2.5	2,400 tons*
Henry Camp, 1881-1886	<u>29,370 tons</u>
total	31,770 tons
* production July 1879 to June 1881 unknown	
Nathan Sydall, pre1881-1902, shaft, 40-87, 2.0-3.0	73,503 tons
Peter Sydall, 1902-1911	<u>8,595 tons</u>

total	82,098 tons
P. Robinson, 1882, shaft, 68, 2.5	8,000 tons
J. Williamson, 1882-1883, shaft, 40, 2.5	950 tons
Henry Molloy, 1883-1884, shaft, 40, 2.5	620 tons
Alexander McDonald, Jr., 1882-1885, shaft, 70, 2.5	13,024 tons
Thomas Watson, 1884-1886, shaft, 65, 2.5	1,345 tons
Baker Brothers, 1884-1887, shaft, 72, 2.5	3,140 tons
Motley Brothers, 1885-1886, slope, 25, 2.5	420 tons
John Pierce, 1886-1887	<u>620 tons</u>
total	1,040 tons
Henry Molloy, 1887-1888, shaft, 40-93, 2.5	2,710 tons
Pierce Brothers, 1888-1890	2,902 tons
John Pierce, 1890-1893	<u>7,532 tons</u>
total	13,144 tons
Thomas Cowlin, 1887-1891, shaft, 53-90, 2.0-3.0	14,081 tons
Dennis Noonan, 1891-1892	2,410 tons
Peter Meyer, 1892-1893	213 tons
Hy Camp, 1893-1894	1,540 tons
B. F. Elfgen, 1894-1898	2,620 tons
Frank Kortkamp, 1898-1903	3,060 tons
George Raines, 1903-1904	1,175 tons
Kamp & Miller, 1904-1905	<u>1,050 tons</u>
total	26,149 tons
Thomas Canavan, 1889-1891, shaft, 20, 2.5	729 tons
Henry Miller, 1892-1893, shaft, 20-25, 2.5	1,331 tons
Thomas Motley, 1893-1894, shaft, 20	1,624 tons
J. J. Molloy, 1894-1895, slope, 20	<u>800 tons</u>
total	3,755 tons
John Pierce, 1893-1897, shaft, 50-76, 2.5	3,608 tons
Gus Kanter, 1896-1898, shaft, 35, 2.5-3.0	580 tons
John McNally, 1896-1899, shaft, 30, 2.3-2.5	1,190 tons
James Tibets, 1900-1901	195 tons
John Schutz, 1901-1902	220 tons
Fred R. Fredrichs, 1902-1908, shaft, 40-80, 2.0-4.0	1,329 tons
Oscar Meyers, 1904-1905, shaft, 55-80, 2.5	369 tons
George H. Miller, 1905-1906	528 tons
Herbert Farrell, 1906-1908	<u>2,215 tons</u>
total	3,112 tons
Stoneware Pipe Company, 1906-1907, shaft, 75, 2.5 (address at East Alton; may be on Bethalto quadrangle near the clay mines in sections 10 & 15, T5N-R9W)	720 tons

MINES WITH ADDRESSES NEAR ALTON

C. H. Barkley, 1920-1922	320 tons
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production not reported in 1922 for mines producing less than 10,000 tons

Henry C. Golike, 1920-1922	150 tons
production not reported in 1922 for mines producing less than 10,000 tons	

G. A. Deppe, 1921-1922	5 tons
production not reported in 1922 for mines producing less than 10,000 tons	

Thomas McNally, 1921-1923	1,524 tons
production not reported in 1922 for mines producing less than 10,000 tons	

Alex Mitchell, 1924-1925	1,294 tons
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Joe Jackson, 1934-1934	410 tons
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Warren Sisk, 1934-1934	102 tons
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Cripple Creek Coal Company, 1934-1934	30 tons
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William Frederick, 1934-1934	23 tons
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Frank Knezik, 1934-1934	22 tons
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V. Renner & William Skreber, 1934-1934	16 tons
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M. Watland, 1935-1935	600 tons
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INDEX OF MINES IN THE ALTON QUADRANGLE

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Big Arch Coal Company	17
Black (Molloy & Black)	26
Boals (M. H.)	20
Callam Mine	21
Camp (H.)	26
Camp (Henry)	1
Camp (Hy)	27
Camp (N.) & Brother	26
Canavan (Thomas)	27
Conilo (P.)	26
Conlin & Company	26
Conlon (Henry)	1
Cowlin (Thomas)	27
Cripple Creek Coal Company	28
Crosson (Watts & Crossoon)	26
Crowson (Charles)	1
Crowson & Watts	26
Deer (F.)	26
Dengs & Newnan	26
Deppe (G. A.)	28
Dunford (Thomas)	1
Eccles (Benjamin)	9
Eccles (Frank)	9
Elfgren (B. F.)	27
Farrell (Herbert)	27
Frederick (William)	28
Fredrichs (Fred R.)	27
Gerdts Coal Company	13
Goacher (Everett)	13
Golike (Henry C.)	27
HCF Coal Company	10
Hughes & McGuire	26
Jackson (Joe)	28
Kamp & Miller	27
Kanter (Gus)	27
Kitlinger (D. M.)	16
Knezik (Frank)	28
Kogel & Mitchell	11
Kortkamp (Frank)	27
Kutkamp (F.)	26
Malloy & Ball	26
McDonald (Alexander, Jr.)	27
McGuire (Hughes & McGuire)	26
McInally (John)	27
McNally (Thomas)	28
Meyer (Peter)	27
Meyers (Oscar)	27
Miller (George)	27
Miller (Henry)	27
Miller (Kamp & Miller)	27
Mitchell (Alex)	28
Mitchell (James, heirs)	26
Mitchell (James)	1, 26
Mitchell (Kogel & Mitchell)	11
Mitchell (N.)	26
Molloy (Henry)	27
Molloy (J. J.)	27
Molloy & Black	26

Motley (Thomas)	27
Motley Brothers	27
Newnan (Dengs & Newnan)	26
Noonan (Dennis)	1, 27
Nutter (Graf)	21
Pierce (John)	27
Pierce Brothers	27
Raines (George)	27
Reese (C.)	26
Renner (V.) & Skreber (William)	28
Robinson (P.)	27
Robinson (Peter)	1
Roldson (P.)	26
Rutledge (J.)	14
Schutz (John)	27
Sisk (Warren)	28
Skreber (Renner & Skreber)	28
Stoneware Pipe Company	27
Summers (William)	9
Sydall (Nathan)	26
Sydall (Peter)	26
Sydell (Nathan)	1
Taylor (J.) & Brother	26
Taylor (P.)	26
Taylor (Peter)	1
Taylor & Ball	26
Tibets (James)	27
Vanberger (J.)	12
Watland (M.)	28
Watson (Thomas)	27
Watts (Crosson & Watts)	26
Watts (M. & M.)	15
Watts (William)	15
Watts & Company	26
Watts & Crosson	26
Whyers (Joseph & Richard)	1
Williamson (J.)	27
Wilson (Warren W.)	18
Wood (William)	9
Zittel	22

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