

Coal Mines in Illinois Morris Quadrangle Grundy County, Illinois

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

Location



DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES MORRIS QUADRANGLE GRUNDY COUNTY

Jennifer M. Obrad



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2004
REVISED 2007

**DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
MORRIS QUADRANGLE
GRUNDY COUNTY**

2004
REVISED 2007

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

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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.

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 MORRIS QUADRANGLE

The earliest mining in this area was reported in the 1850s. In 1853, James Watson found a 5 foot vein of coal on the Schoonmaker's farm, near the Illinois River on Waupecan Creek, which he mined and sold in Chicago (Joyce, 1980). Samuel Wood and Daniel Williams opened the first coal bank in the vicinity of Morris (Serenio) about 1954, which operated in the winters for ten years. James Telfer is attributed with the first shaft mine in Grundy County. This mine was located on the Old Peacock farm in Morris Township, and was 58 ½ feet deep. By 1857, six mines, including Telfer's, were said to have been operating in the Morris and Dresden areas. These mines were small, local mines, which often stripped 7 to 15 feet of topsoil and clay to reach the coal (Joyce, 1980).

Many of the earliest mines were shaft mines. These often did not have extensive workings, only extending a few hundred feet until drainage, haulage and ventilation became problems. A new shaft was then sunk rather than extending the mine. Because of the problems in the mines and the relatively thin coal found here (2.5 - 3.0 feet thick on average), there were few shipping mines in this area.

Numerous mines existed in the area around the city of Morris. As early as 1882, the *History of Grundy County* reported that more than one hundred openings had been made, with many more in the years that followed. Many of the old, small mines known to exist in the areas north and south of Morris have not been able to be definitively located. A number of the mines listed in this directory may have been in the area encompassed by the Lisbon Quadrangle to the north.

The Colchester Coal is the only mineable seam in this quadrangle. It crops out in the northern half of the quadrangle. This area, around the town of Morris, lies at the northeastern edge of the Eastern Interior Coal Basin. The Colchester here is quite shallow, which allowed for later surface mining of the coal as well as underground mining.

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 few months before production ceased. This implies the actual mined-out area is probably larger than the outline on the map. The mine summary sheet indicated the dates of source maps and the last reported production, as well as the approximate tonnage mined between these two dates (if the mine is abandoned). The summary sheet also lists the approximate acreage mined since the date of the map and, in some cases, indicates the area where additional mining may have taken place. This latter information is determined by locating on the map the active faces relative to probable boundaries of the mine property.

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

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

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

POINTS AND LABELS

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

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

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

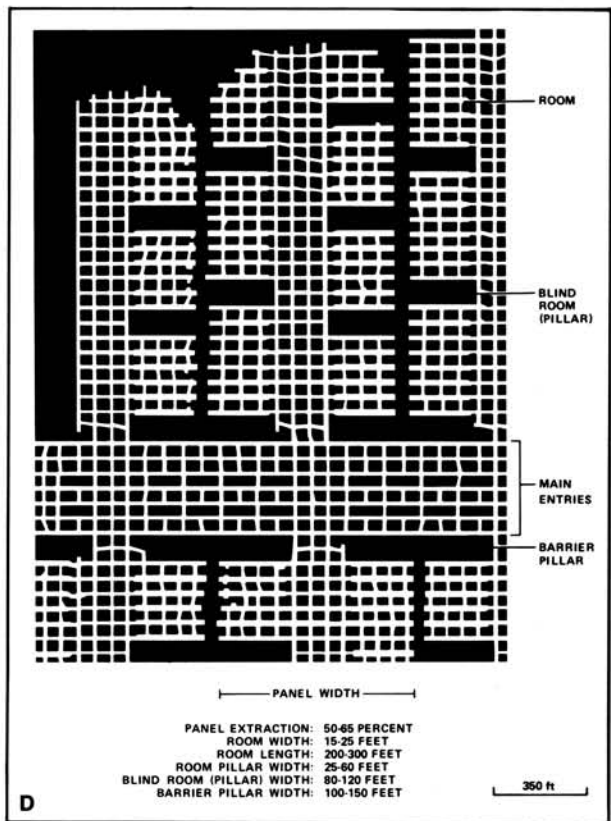
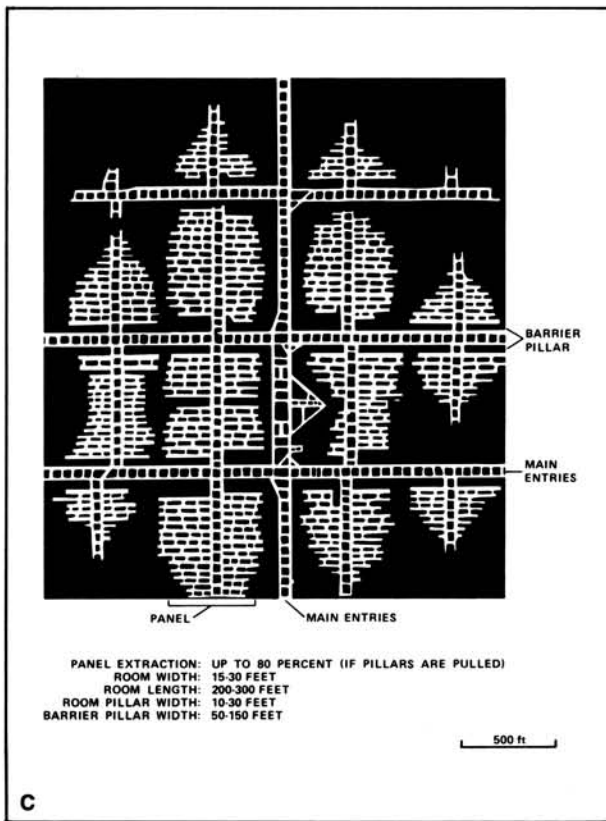
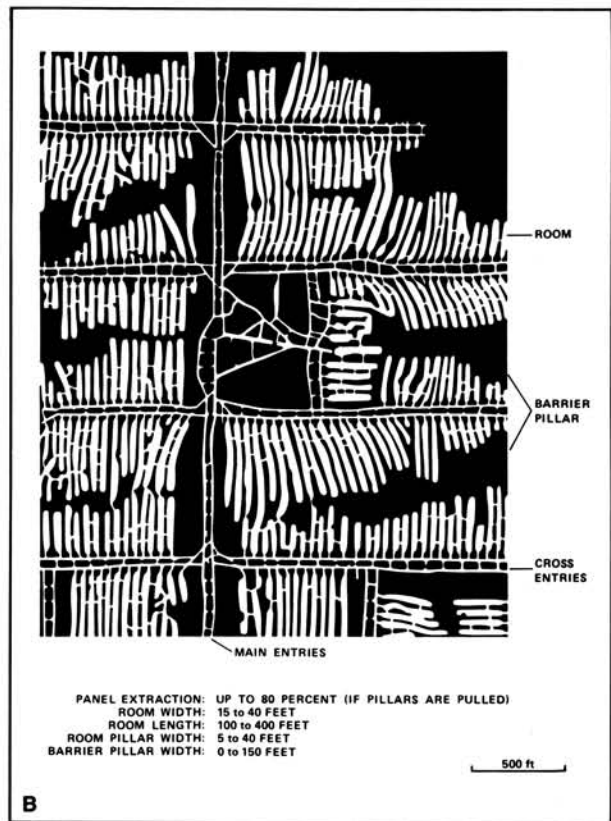
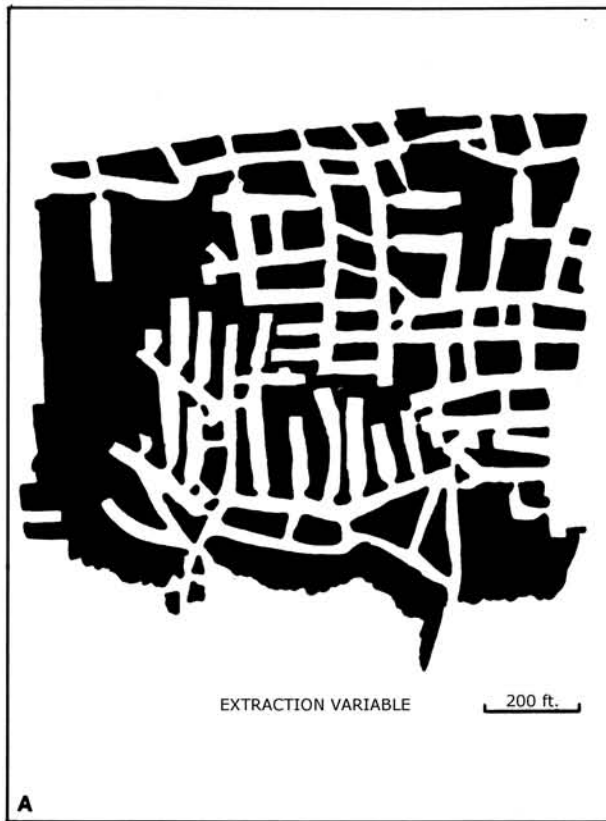


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

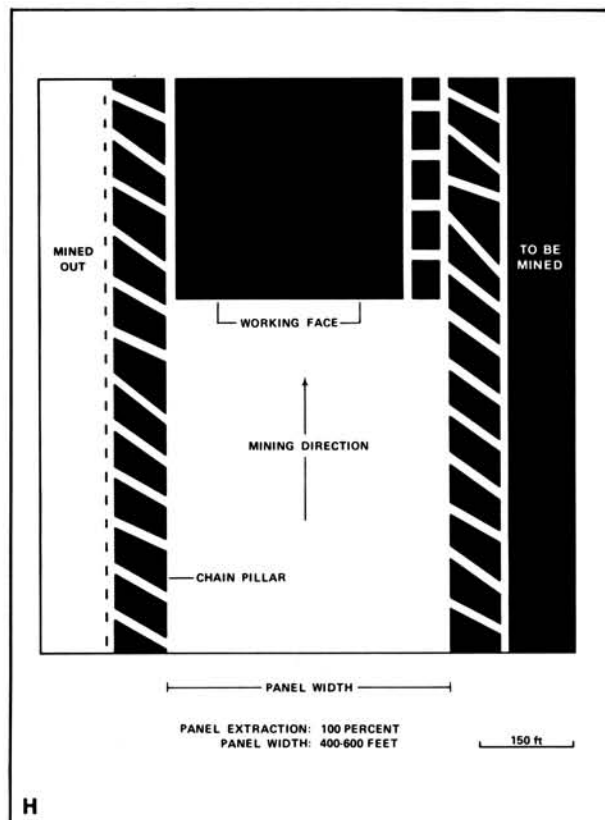
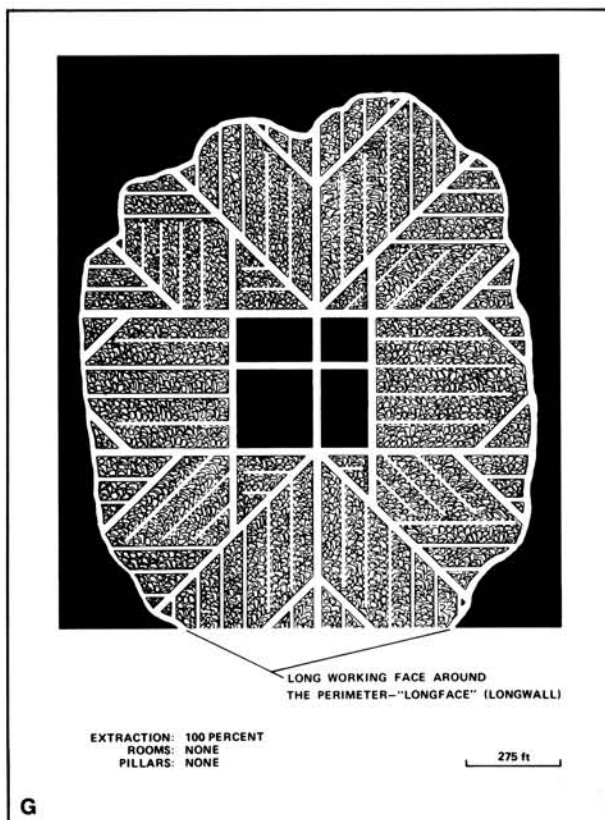
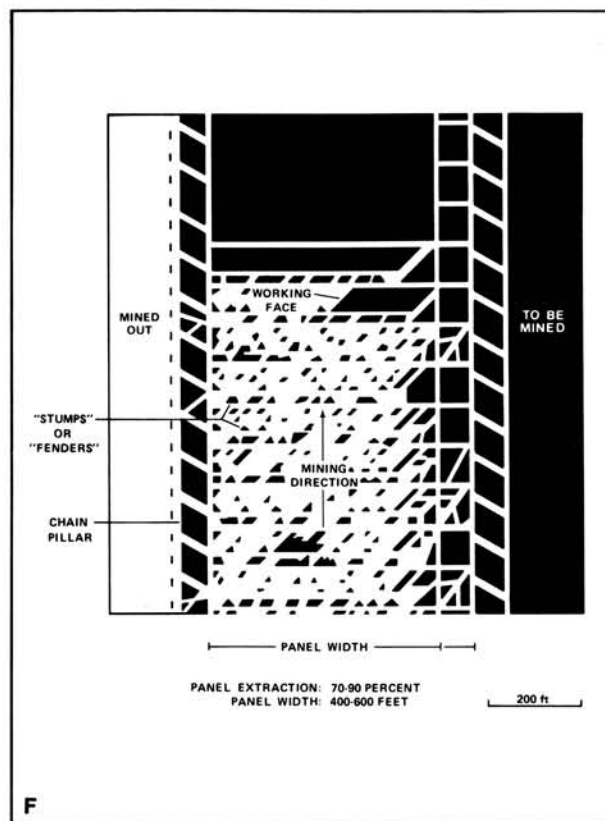
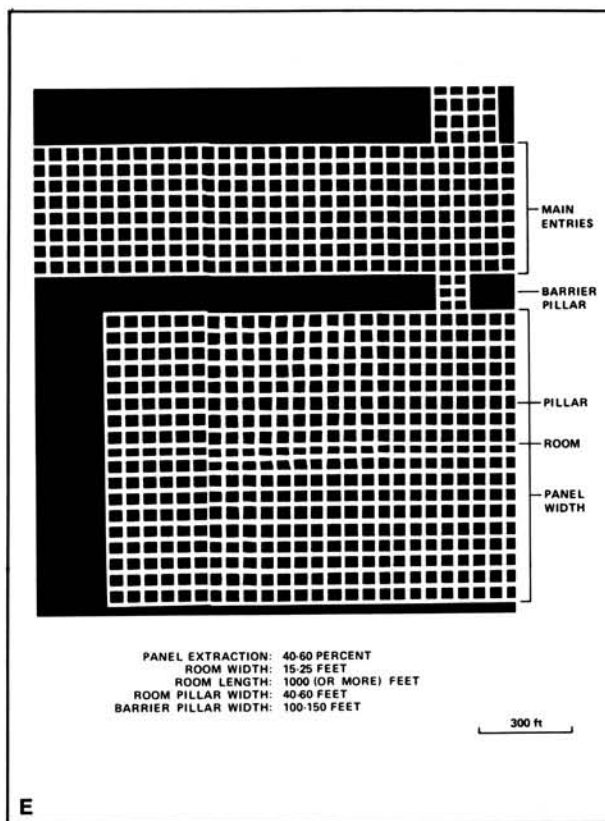


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

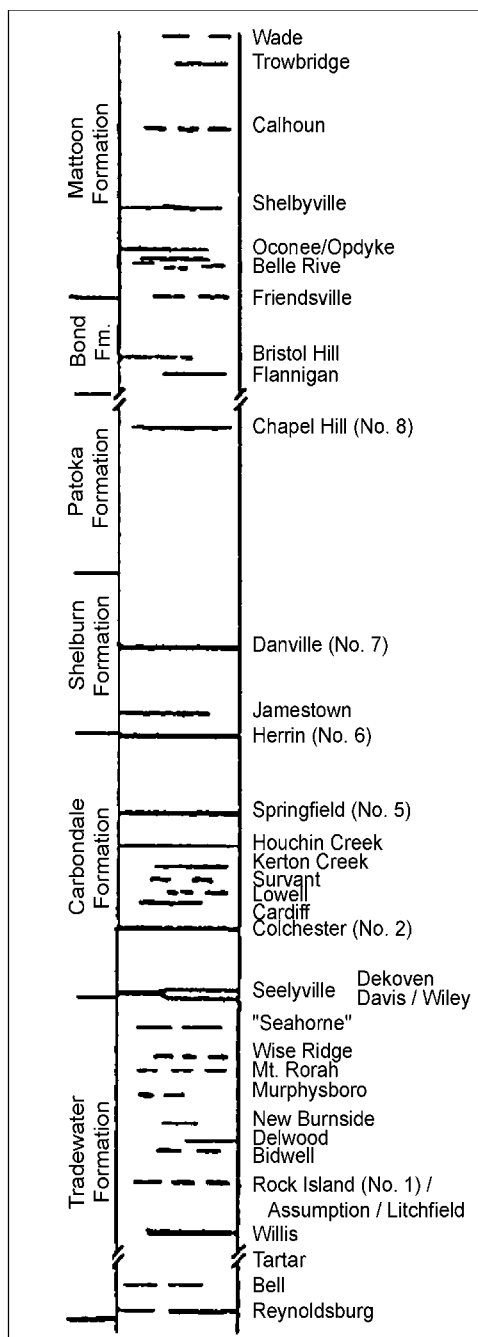


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

INTERPRETING A MINE SUMMARY SHEET

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

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

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

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

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

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

GEOLOGY

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

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

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

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

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

PRODUCTION HISTORY

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

SOURCE OF DATA

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

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

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

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

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

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

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

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

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

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

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

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

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History of Grundy County, Illinois, 1882, Chicago: O. L. Baskin & Co. Historical Publishers, 395p.

Joyce, Richard Patrick, 1980, Miners of the Prairie: Life & Labor in the Wilmington, Illinois Coal Field 1866-1897, Thesis for MA, Illinois State University.

Sereno, Ken, Grundy Pioneers.

PART II DIRECTORY OF MINES IN THE MORRIS QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Morris 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 625

Morris Coal & Mining Company, Morocco Mine

Type: Surface Total mined-out acreage shown: 422 Production indicates approximately 260 acres were mined. Part of the discrepancy is accounted for by numerous other mines (both surface and underground) that also took coal from the area encompassed by the outline of this mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple / pit	Grundy	34N 7E	34	NW NW SW
Pits	Grundy	34N 7E	25, 26, 33, 34, 35	
Pits	Grundy	33N 7E	3	

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	15-22			2.33-2.67	Surface

Geologic Problems Reported: The coal contained fusain partings and pyrite lenses.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Morris Coal & Mining Company	Morocco; Morris No. 2	1932-1954	<u>1,034,802</u> 1,034,802

Last reported production: June 1954

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.G72 i5.1-6	12-31-1942	1:31680	1:31680	Not final
USGS topographic map	1953	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.
 Directory of Illinois Coal Mines (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, mine location, seam, depth, thickness, geologic problems.
 Company map, ISGS map library, 4103.G72 i5.1-6 - Mine outline, mining method.
 USGS 7.5-minute topographic map, Lisbon Quadrangle, 1953 - Mine outline.

Mine Index 2093
John H. Cryer, Cryer Mine

Type: Underground Total mined-out acreage shown: Not shown on accompanying map; production indicates approximately 8 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	unknown *	

* An indefinite location was given in the Coal Report, "about 4 miles south of Morris".

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	62-75			2.33-2.83	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Harry Kay	Kay No. 3	1897-1900	3,500
John H. Cryer	Cryer	1900-1909	<u>14,821</u>
			18,321

Last reported production: 1909

SOURCES OF DATA

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

Mine Index 2338
Byrnes & Fleming, Bluff Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 23 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	NE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	48-62			2.07-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Laherty Brothers	Laherty	1892-1894	8,100
James Cryer	Cryer No. 2	1894-1896	3,794
Laherty Brothers	Laherty	1896-1897	1,765
William Laherty	Laherty	1897-1899 *	4,200
Byrnes & Fleming	Bluff	1899-1913	<u>33,945</u>
			51,804

* Purchased by Thomas Fleming & Company in 1898, but reported under the same name through 1899.

Last reported production: 1913

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	1-1934	1:84480	1:84480	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 Federal Land Bank Report (Grundy County) - Mine location.

Mine Index 2360
Alexander Telfer, Telfer No. 4 Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 15 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	3	SE NW NW
Air / escape shaft (1884)	Grundy	unknown *		

* Not shown on accompanying map because the location is unknown.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	32-47			2.5-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Eades & Telfer	Eades & Telfer	1882-1883	3,420
Alexander Telfer	Telfer No. 4	1883-1895	<u>33,071</u> 36,491

Last reported production: 1895

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4107 d5-25 sheet 3	1919	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 ISGS Bulletin 43, Plate 3, ISGS map library, 4107 d5-25, sheet 3 - Mine location.

Mine Index 2361**Chicago Fireproofing Company, Chicago Fireproofing Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 37 to 54 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	SE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	40-45			2.5-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
H. Burrell & Company	Burrell	1878-1879	16,000 *
Goold, Buchanan & Burrell	Goold, Buchanan & Burrell	1881-1882	23,850
Henry Burrell & Company	Burrell	1882-1886	40,200
Chicago Fireproofing Company	Chicago Fireproofing	1886-1890	<u>27,998</u>
			108,048

* Production and years of operation prior to July 1878 are unknown; ownership & production are unknown from July 1879 to June 1881.

Last reported production: 1890

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS composite	8-1950	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 ISGS composite map, 1950 mined-out area map, Area 1 - Mine location.

Mine Index 2362
Goold Ridge Coal Company, Goold Ridge Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 25 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	SW SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	40-60			2.67-3.0	LW *

* The mine started with RP, but found it impractical and switched to LW before 1884.

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Goold Ridge Coal Company	Goold Ridge	1878-1884	<u>64,000</u> ** 64,000

** Production and years of operation prior to July 1878 are unknown.

Last reported production: 1884

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	1-1934	1:84480	1:84480	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 Federal Land Bank Report (Grundy County) - Mine location.

Mine Index 2363
James Heather, Heather Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 70 to 128 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	SE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	35-54			2.0-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James Heather	Heather	1883-1884	7,000
Heather & Wood	Heather & Wood	1884-1885	2,000
James Heather	Heather	1885-1886	1,800
Heather & Wood	Heather & Wood	1886-1894	35,045
James Heather	Heather	1894-1896	159,006
			204,851

Last reported production: 1896

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4107 d5-25 sheet 3	1919	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 ISGS Bulletin 43, Plate 3, ISGS map library, 4107 d5-25, sheet 3 - Mine location.

Mine Index 2364
John Buck, Buck Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 4 acres were mined, but ISGS field notes indicate that there were multiple entries, and that coal was taken from about 30 acres around a nearby house and clay pit.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	SW SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	20-38			2.5-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Buck	Buck	1878-1891	<u>9,355</u> 9,355

Last reported production: 1891

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	1-1934	1:84480	1:84480	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 Federal Land Bank Report (Grundy County) - Mine location.
 ISGS field notes - Mining extent (general).

Mine Index 2365**Heather & Woods, Heather & Woods 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	Grundy	33N 7E	4	SE NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	20			2.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Thomas E. Goode	Goode	1888-1890	1,700
Heather & Woods	Heather & Woods	1890-1891	<u>600</u>
			2,300

Last reported production: 1891

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	1-1934	1:84480	1:84480	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 Federal Land Bank Report (Grundy County) - Mine location.

Mine Index 2366
George Burt, Burt Mine

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

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	SW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	20-40			2.0-2.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George Burt	Burt	1892-1897	<u>3,894</u> 3,894

Last reported production: 1897

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	1-1934	1:84480	1:84480	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 Federal Land Bank Report (Grundy County) - Mine location.

Mine Index 2367**H. Burrell & W. Telfer, Burrell & Telfer Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 6 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	NE SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	40			3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
H. Burrell & W. Telfer	Burrell & Telfer	1881-1882 *	<u>16,967</u> 16,967

* The mine was abandoned in 1884 because of an unsafe boiler and other machinery would have required imprudent investment.

Last reported production: 1884

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS composite	8-1950	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 (Grundy County) - Mine names, mine index, ownership, years of operation.

ISGS composite map, 1950 mined-out area map, Area 1 - Mine location.

Mine Index 2368
John Telfer, Telfer 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	Grundy	33N 7E	4	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	25-29			2.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Telfer	Telfer	1892-1897	<u>2,313</u> 2,313

Last reported production: 1897

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS composite	8-1950	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, shaft location.
 ISGS composite map, 1950 mined-out area map, Area 1 - Mine location.

Mine Index 2369**Espley & Handwerk, Espley & Handwerk Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 17 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	5	SW SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	50-66			2.33-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. Espley & Company	Espley	1893-1902	31,689
Espley & Handwerk	Espley & Handwerk	1902-1904	<u>9,579</u>
			41,268

Last reported production: 1904

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS composite	8-1950	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 (Grundy County) - Mine names, mine index, ownership, years of operation.

Mine notes (Grundy County) - Mine type, shaft location.

ISGS composite map, 1950 mined-out area map, Area 1 - Mine location.

Mine Index 2370
George Mitchell, Hatcher Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 5 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	5	SE NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	45-50	2.0	2.83	2.5	RP

Geologic Problems Reported: The roof consisted of soapstone, a gray sandy clay shale. An irregular distribution of pyrite concretions was present in the coal. Some bony coal lenses and pyrite lenses were present, also.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Mitchell & Rossi	Hatcher	1915-1916	1,125
John & George Mitchell	Hatcher	1916-1917	1,800
John Mitchell	Hatcher	1917-1918	2,196
Mitchell Brothers	Hatcher	1918-1919	1,194
George Mitchell	Hatcher	1919-1920	1,312
Mitchell Brothers	Hatcher	1920-1923	2,177 *
George Mitchell	Hatcher	1923-1924	400
			<u>10,204</u>

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

Last reported production: 1924

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4107 d5-25 sheet 3	1919	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

- Coal Reports - Production, ownership, years of operation, seam, depth, mining method.
- Directory of Illinois Coal Mines (Grundy County) - Mine names, mine index, ownership, years of operation.
- Mine notes (Grundy County) - Mine type, shaft location, thickness, geologic problems, mine name.
- ISGS Bulletin 43, Plate 3, ISGS map library, 4107 d5-25, sheet 3 - Mine location.

Mine Index 2385
Morris Coal Company, Morris Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 8 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	5	SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	60			2.67-3.0	LW & RP *

* The annual Coal Reports consistently listed this mine as underground, although the method vacillated between longwall and room-and-pillar.

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Morris Carbon Coal Company	Morris Carbon	1899-1904 **	10,899
Morris Coal Company	Morris	1904-1907	<u>8,417</u>
			19,316

** Idle 1904

Last reported production: 1907

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Sanborn	3-1907	1:600	1:600 ***	Secondary source

*** Point was hand plotted on a 1:24,00 USGS topographic map and digitized.

Annotated Bibliography (data source, brief description of information)

- Coal Reports - Production, ownership, years of operation, seam, thickness, mining method.
- Directory of Illinois Coal Mines (Grundy County) - Mine names, mine index, ownership, years of operation, mining method.
- Sanborn Map Company Fire Insurance Map - Mine location, depth.

Mine Index 2389**Robert Condon, Condon No. 1 Mine**

Type: Underground Total mined-out acreage shown: 32 Production indicates 4 to 5 acres were mined. The area shown on the accompanying map is much larger than expected, so it must be a general area of mining.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	34N 7E	32	NE SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	89			2.75	LW

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Robert Condon	Condon No. 1	1932-1936	<u>10,186</u> 10,186

Last reported production: 1936

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	1-1934	1:84480	1:84480	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

ENR Document 85/01 - Mining method.

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

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

Mine Index 2391
Northwestern Coal Corporation, Morris Mine

Type: Surface Total mined-out acreage shown: 331 The reported production indicates approximately 140 acres were mined. Part of the discrepancy is accounted for by numerous other mines (both surface and underground) that also took coal from the areas encompassed within the outline of this mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple / pit	Grundy	34N 7E	35	NE NW SW
Pit	Grundy	34N 7E	25, 27, 34, 35 *	
Pit	Grundy	33N 7E	2, 3	

* The NE quarter of section 35 was said to have been previously surface-mined in the 1920's by "Bugs" Moran, a Chicago racketeer, as mentioned in *Grundy County, Illinois, Landmarks*. No other source exists for the Moran mine, and it may lie within the outline shown for index 2391.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	16-26			2.17-2.5	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Northwestern Coal Corporation	Morris	1945-1949	<u>576,236</u> 576,236

Last reported production: May 1949

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351476	7-1-1949	1:4800	1:9269	Final
USGS topographic map	1953	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Grundy County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Grundy County) - Mine type, mine location, seam.
 Microfilm map, document 351476, reel 03136, frame 222 - Mine outline, mining method.
 USGS 7.5-minute topographic map, Morris Quadrangle, 1953 - Mine outline.

Mine Index 5020
Thomas A. Ferguson, Ferguson Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 5 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle, to the north.

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Clayton, Ferguson & Gainty	Clayton, Ferguson & Gainty	1923-1925	2,879
Thomas A. Ferguson	Ferguson	1926-1930	<u>9,236</u>
			12,115

Last reported production: 1930

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
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Annotated Bibliography (data source, brief description of information)

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

Mine Index 5060
C. Foley, Foley Mine

Type: Unknown Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle, to the north.

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
C. Foley	Foley	1925-1925	<u>1,083</u> 1,083

Last reported production: 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type

Annotated Bibliography (data source, brief description of information)

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

Mine Index 5120
William Hodson, Hodson Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 5 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	34N 7E *		

* A more precise location of this mine is not known. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	50-53			2.67-2.83	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Hudson & Ledwards	Hudson & Ledwards	1909-1910	2,800
William Hodson **	Hodson	1910-1916	<u>9,110</u>
			11,910

** Bought by Ralph Lee in 1912, but operated under the same name

Last reported production: 1916

SOURCES OF DATA

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

Mine Index 5136
Max Davidson & Son, Davidson Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map.
 Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	34N 7E	35	SW *

* A more precise location is not known. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	30			2.33-2.83	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Max Davidson & Son	Davidson	1904-1906	<u>1,564</u> 1,564

Last reported production: 1906

SOURCES OF DATA

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

Mine Index 5235
R. Blair, Blair Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft or slope	Grundy	34N 7E *		

* A more precise location of this mine is not known. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	40			3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
R. Blair	Blair	1902-1904	<u>1,200</u> 1,200

Last reported production: 1904

SOURCES OF DATA

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

Mine Index 5416
Corcoran Brothers, Corcoran Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris and the Coal Report stated that the mine was 1 mile east of Morris. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	30			2.75	LW

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Corcoran Brothers	Corcoran	1901-1902	<u>2,200</u> 2,200

Last reported production: 1902

SOURCES OF DATA

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

Mine Index 5417
Nelson Brothers, Nelson Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	60			2.67	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Nelson Brothers	Nelson	1900-1902	<u>2,100</u> 2,100

Last reported production: 1902

SOURCES OF DATA

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

Mine Index 5419
Mitchell Brothers, Mitchell Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 13 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	25-56			2.5-2.75	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James Heather	Heather	1898-1902	11,044
Mitchell Brothers	Mitchell	1902-1907	13,278
John Mitchell	Mitchell	1907-1908	1,500
Mitchell Brothers	Mitchell	1908-1909	2,480
John Mitchell	Mitchell	1909-1910	1,400
Mitchell Brothers	Mitchell	1910-1911	<u>2,160</u>
			31,862

Last reported production: 1911

SOURCES OF DATA

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

Mine Index 5420**Milo E. Howe, Heather No. 2 Mine**

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	34N 7E *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	35-37			3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James Heather	Heather No. 2	1896-1897	600
Charles Heather	Heather No. 2	1897-1898	900
Milo E. Howe	Heather No. 2	1898-1898	<u>unknown</u> ** 1,500

** The 1898 Coal Report stated that Milo E. Howe bought the mine formerly operated by Charles Heather, but abandoned it after operating the mine for a short time. The production during that short time was not reported or the production was listed under Charles Heather.

Last reported production: 1898

SOURCES OF DATA

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

Mine Index 5422
George R. Blair, Blair Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 4 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	27-35			2.5-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George R. Blair	Blair	1884-1900 **	<u>8,770</u> 8,770

** Idle 1898

Last reported production: 1900

SOURCES OF DATA

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

Mine Index 5423
Howe & George, Howe & George Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	40			2.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Howe & George	Howe & George	1895-1896	<u>600</u> 600

Last reported production: 1896

SOURCES OF DATA

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

Mine Index 5424**Thomas Scott & Son, Scott Mine**

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	92			3.17-3.25	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Thomas Scott & Son	Scott	1895-1898	<u>2,583</u> 2,583

Last reported production: 1898

SOURCES OF DATA

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

Mine Index 5425
Harry Kay, Kay No. 2 Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	60			3.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Harry Kay	Kay No. 2	1895-1897	<u>3,800</u> 3,800

Last reported production: 1897

SOURCES OF DATA

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

Mine Index 5427**Max Davidson & Son, Davidson Mine**

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map.
 Production indicates approximately 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	34N 7E	35	SW *

* A more precise location for this mine is not known. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	33			2.83	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Max Davidson & Son	Davidson	1908-1910	<u>2,490</u> 2,490

Last reported production: 1910

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Atlas of Grundy County	1892	1:31680	1:31680	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 (Grundy County) - Mine names, mine index, ownership, years of operation.
 1892 Atlas of Grundy County - Land ownership.

Mine Index 5428
Wood Coal Company, Wood Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 25 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		
New shaft (1898-1899)	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle, to the north.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	48-73			2.33-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William Wood	Wood	1894-1898	7,289
William Wood **	Wood No. 5	1898-1906	25,842
Wood Coal Company	Wood	1906-1913	<u>18,765</u>
			51,896

** This new shaft was 400 feet west of the previously abandoned shaft. It has been included in the same history because it probably accesses the same reserve block.

Last reported production: 1913

SOURCES OF DATA

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

Mine Index 5429**Griffith & Wren, Griffith & Wren Mine**

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 3 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	24			2.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Griffith & Wren	Griffith & Wren	1894-1900	<u>6,901</u> 6,901

Last reported production: 1900

SOURCES OF DATA

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

Mine Index 5432
Joseph D. Maher, Maher Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because the location is not known. Production indicates approximately 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	unknown *		
Air / escape shaft (1896)	Grundy	unknown *		

* The location of this mine is not known. The mine's address was Morris, but mining occurred north and south of the town. This mine may be in the Lisbon Quadrangle.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	50-60			2.75-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Maegher & Dateman	Maegher & Dateman	1893-1894	204
J. B. Maegher	Maegher	1894-1895	1,800
Joseph D. Maher	Maher	1895-1896	900
			<u>2,904</u>

Last reported production: 1896

SOURCES OF DATA

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

Mine Index 5537
J. K. Telfer, Telfer Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 4 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Grundy	33N 7E	4	NE NE SE *

* The plat books show an area 500 feet to the west that is labeled "J. K. Telfer Coal" that may be the location of this mine. The location shown is the more likely location for the mine. The western location was probably used for coal sales.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Colchester	33-51			2.75-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. K. Telfer	Telfer	1903-1907	<u>10,824</u> 10,824

Last reported production: 1907

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Standard Atlas of Grundy County	1909	1:4200	1:4200	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method, seam, depth, thickness.
 Directory of Illinois Coal Mines (Grundy County) - Mine names, mine index, ownership, years of operation.
 1909 Standard Atlas of Grundy County - Mine location.

OTHER MINES SHOWN ON MORRIS QUADRANGLE

Mine Index 5458 SW NE SE 5-T32N-R7E source: Federal Land Bank Report; ISGS 1950 mined-out area map, Area 1

Mine Index 5480 SE SE SE 33-T34N-R7E source: ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 5481 NE SE SE 33-T34N-R7E source: ISGS Bulletin 43, Plate 3 (1919); ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 5482 SW SE SE 33-T34N-R7E source: ISGS Bulletin 43, Plate 3 (1919); ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 5483 SW SW SE 33-T34N-R7E source: ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 5484 Griffith Mine, SE SW 33-T34N-R7E source: ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 5485 Griffith Mine, SW SE SW 33-T34N-R7E source: ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 5490 * SW SW SW 35-T34N-R7E source: ISGS mine notes

Mine Index 5500 * NW NE NE 3-T33N-R7E source: ISGS Bulletin 43, Plate 3 (1919)

Mine Index 5506 * NW NE NE 3-T33N-R7E source: ISGS Bulletin 43, Plate 3 (1919)

Mine Index 5507 NW NW NW 3-T33N-R7E source: ISGS Bulletin 43, Plate 3 (1919)

Mine Index 5545 SW SE NE 3-T33N-R7E source: Federal Land Bank Report; ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 5546 * NW NE NE 3-T33N-R7E source: Federal Land Bank Report; ISGS 1950 mined-out area map, Area 1; ISGS mine notes

Mine Index 6985 NE SW SW 34-T34N-R7E source: 1874 Atlas of Grundy County

Mine Index 6986 SE SW SW 34-T34N-R7E source: 1874 Atlas of Grundy County

Mine Index 6987 NW SE NW 3-T33N-R7E source: 1874 Atlas of Grundy County

Mine Index 6988 NW SE NE and NE SE NE 3-T33N-R7E source: 1874 Atlas of Grundy County

Mine Index 6989 NE NE SW 4-T33N-R7E source: ISGS 1950 mined-out area map, Area 1

Mine Index 6990 SW SW NW 4-T33N-R7E source: Federal Land Bank Report

Mine Index 6991 SE SW NW 4-T33N-R7E source: Federal Land Bank Report

Mine Index 6992 SE NW NE 4-T33N-R7E source: Federal Land Bank Report

Mine Index 6993 SW SW SE 33-T34N-R7E source: Federal Land Bank Report

Mine Index 6994 SE SE 32-T34N-R7E, surface source: USGS topographic map (Morris Quadrangle, 1953)

* Not shown on accompanying map due to later surface mining.

MINES WHOSE LOCATIONS ARE NOT KNOWN, MORRIS 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 Morris 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 84,684 (83,784 underground and 900 surface mined), which would represent approximately 30 to 53 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

MORRIS

Telfer (Alex W.) & Son, 1894-1899, shaft, Colchester, 66, 2.5-2.67, RP	11,654 tons	Mine Index 5433
Thurson (Lars), 1884-1890, shaft, Colchester, 48-60, 2.5-3.0, RP	4,863 tons	Mine Index 5434
Thurston (Thomas L.), 1890-1894	2,725 tons	
Garrity (Thomas), 1894-1895	<u>918 tons</u>	
	8,506 tons	
Kay (Harry), No 1 Mine, 1889-1897, shaft, Colchester, 80, 3.0-3.5, RP	11,739 tons	Mine Index 5435
Nelson (John F.), 1887-1891, shaft, Colchester, 60, 3.0, RP	2,140 tons	Mine Index 5438

Cryer & Wren, 1887-1888, shaft, Colchester, 60, 2.5, RP	1,000 tons	Mine Index 5439
Wren (George), 1888-1892	<u>4,650</u> tons	
	5,650 tons	
Cummings (James), 1884-1885, shaft, Colchester, 25, 3.0, RP	650 tons	Mine Index 5440
Hornsby (William), 1884-1889, shaft, Colchester, 40, 3.0, RP	3,194 tons	Mine Index 5441
Walsh (Thomas), 1884-1889, shaft, Colchester, 25, 3.0, RP 3,445 tons		Mine Index 5442
Martin (Lee), 1884-1889, shaft, Colchester, 36, 3.0, RP	5,059 tons	Mine Index 5443
Ferguson (William), 1884-1885, shaft, Colchester, 32, 3.0, RP	600 tons	Mine Index 5444
Bell (Alexander), 1884-1893, shaft, Colchester, 25-40, 2.33-3.0, RP	4,192 tons	Mine Index 5445
Yates (James), 1882-1883, shaft, Colchester, 47, 3.0	420 tons	Mine Index 5447
Olendorf Mine, 1882-1883, shaft, Colchester, -, 2.5	360 tons	Mine Index 5449
Erickson (John), 1882-1883, shaft, Colchester, 36, 2.5	720 tons	Mine Index 5450
McBride (N.), 1878-1883, shaft, Colchester, 50-52, 2.5-3.0	2,768 tons	Mine Index 5451
Gorich (J.), 1878-1879, shaft, Colchester, 50, 3.0	300 tons	Mine Index 5452
Steele (John), 1878-1879, shaft, Colchester, 40-53, 3.0, RP 1,500 tons		Mine Index 5453
Steele (George), 1881-1883	1,800 tons	
Steele (John), 1884-1885	<u>250</u> tons	
	3,550 tons	
Cronin Brothers, 1881-1883, shaft, Colchester, 62-63, 2.75	2,370 tons	Mine index 5454
Mallory & Ross, 1878-1879, shaft, Colchester, 46-50, 2.5-3.0	1,000 tons	Mine Index 5455
Ross (Thomas H.), 1881-1883	<u>8,100</u> tons	
	9,100 tons	
Erickson (Thomas), 1885-1886, shaft, Colchester, 35, 3.0, RP	840 tons	Mine Index 6740
Roakes Mine, 1878-1879, shaft, Colchester, 50, 3.0	300 tons	Mine Index 6741
Pratt (Mrs.), 1878-1879, shaft, Colchester, 20, 3.0	1,000 tons	Mine Index 6742
Tasdall (Henry), 1905-1908, shaft, Colchester, 100-105, 2.33-2.67, RP	2,922 tons	Mine Index 6743
Goode Brothers, 1891-1892, shaft, Colchester, 40, 2.5, RP	45 tons	
Telfer (John), 1898-1902, shaft, Colchester, 20, 2.67, RP	2,260 tons	
Enbody Coal Company, 1936-1936, Colchester, surface	900 tons	

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Ross (Thomas H.)	45
Rossi (Mitchell & Rossi)	22
Scott (Thomas) & Son	37
Steele (George)	45
Steele (John)	45
Tasdall (Henry)	45
Telfer (Alex W.) & Son	44
Telfer (Alexander), No. 4 Mine	12
Telfer (Eades & Telfer)	12
Telfer (H. Burrell & W. Telfer)	19
Telfer (J. K.)	43
Telfer (John)	20, 45
Thurson (Lars)	44
Thurston (Thomas L.)	44
Walsh (Thomas)	45
Wood (Heather & Wood)	15
Wood (William)	40
Wood (William), No. 5 Mine	40
Wood Coal Company	40
Woods (Heather & Woods)	17
Wren (Cryer & Wren)	45
Wren (George)	45
Wren (Griffith & Wren)	41
Yates (James)	45

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