

Coal Mines in Illinois Monks Mound Quadrangle St. Clair & Madison Counties, Illinois

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

Mining Method

- Room & Pillar (RP)
- Room & Pillar Basic (RPB)
- Modified Room & Pillar (MRP)
- Room & Pillar Panel (RPP)
- Blind Room & Pillar (BRP)
- Checkerboard Room & Pillar (CRP)
- High Extraction Retreat (HER)
- Longwall (LW)
- Underground, Method Unknown
- Strip Mine
- Auger Mine
- General Area of Mining

Other Areas Depicted

- Non-Coal Mines

Source of Mine Outline

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

Tipple, Shaft, Slope, Drift Locations

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

Other Points Depicted

- Non-Coal Mines

Mine Annotation (space permitting)

Company
Mine Name
ISGS Index No., Years of Operation

Disclaimer

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

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

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

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

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

ILLINOIS
Illinois State Geological Survey
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Revised:
2005 & 2020

2001



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1:000-meter grid/Universal Transverse Mercator, Zone 15S
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery:.....NAP, August 2015 - October 2015
Roads:.....U.S. Census Bureau, 2017
Names:.....GNS, 1980 - 2016
Hydrography:.....National Hydrography Dataset, 2002 - 2016
Contours:.....National Elevation Dataset, 2002 - 2016
Boundaries:.....Multiple sources; see metadata file 2014 - 2016
Public Land Survey System:.....BLM, 2017
Wetlands:.....FWS National Wetlands Inventory 1981 - 1988

UTM GRID AND 2017 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID

YC

Grid Zone Designation
19S

SCALE 1:24 000

1 0.5 0 0.5 1 2
1000 500 0 500 1000 2000
KILOMETERS

1 0.5 0 0.5 1
1000 500 0 500 1000
METERS

1 0.5 0 0.5 1
1000 500 0 500 1000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

ILLINOIS

QUADRANGLE LOCATION

1 Columbia Bottom
2 Wood River
3 Edwardsville
4 Granite City
5 Collinsville
6 Calhoun
7 French Village
8 Otton

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Interstate Route
Local Connector
Local Road
4WD
US Route
State Route

MONKS MOUND, IL
2018

DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES MONKS MOUND QUADRANGLE MADISON & ST. CLAIR COUNTIES

Cheri Chenoweth, Scott D. Elrick & Melony E. Barrett



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2001
REVISED 2005

**DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
MONKS MOUND QUADRANGLE
MADISON & ST. CLAIR COUNTIES**

2001
REVISED 2005

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

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

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

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INTRODUCTION

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

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

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 MONKS MOUND QUADRANGLE

Mining in the Monks Mound Quadrangle began prior to 1874 and continued until 1958, and was exclusively in the Herrin Coal. No geologic problems were reported for the mines in this quadrangle, but the general characteristics of the Herrin Coal for this area probably prevailed - small slips and faults in the coal and roof materials and occasional coal balls in the roof. The mines were from 12 to 195 feet deep, and the Herrin Coal ranged from 3 to 7 feet thick, generally averaging between 5 and 6 feet.

The longest operating mine in this quadrangle was the Bunker Hill Mine (mine index 2767), which produced from 1911 to 1953.

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 MONKS MOUND QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Monks Mound Quadrangle is provided. The 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 192

Hardscrabble Coal Company, Hardscrabble Mine

Type: Underground Total mined-out acreage shown: 168 Production indicates approximately 8 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	3N 8W	33	SW NE SW
Air shaft	Madison	3N 8W	33	NW SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	195	3.0	7.0	6.5	RPB

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Abbey Coal Corporation	Abbey No. 1	1903-1932 *	1,236,928
Hardscrabble Coal Company	Hardscrabble	1933-1936	86,033
Hardscrabble Coal Company	Hardscrabble	1933-1937	46,912 **
			1,369,873

* Idle 1931-1932

** Production after map date

Last reported production: 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352364	1-1936	1:1200	1:1490	Incomplete ***
State archive, IL_1090_03	6-1926	1:1200	1:1200	Not final

*** The mine outline is not final as well as incomplete. A general area of mining has been added to the northern boundary of the mine. A paper version of this source map shows handwritten notes and additional room mined out in this area – personal communication with Robert Gibson (of the Abandoned Mined Lands Reclamation Division of the Department of Natural Resources).

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 locations, seam, depth, thickness.

Microfilm map, document 352364, reel 03138, frame 484 - Shaft locations, mine outline (northern and eastern).

State archive, IL_1090_03 - Mine outline (southern and western).

Mine Index 2756**Sugar Loaf Coal Company, Sugar Loaf Mine**

Type: Underground Total mined-out acreage shown: 139

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main slope	Madison	3N 8W	17	NW NW SE
Air shaft	Madison	3N 8W	17	NW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	54			5.6-6.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Sugar Loaf Coal Corporation	Sugar Loaf	1932-1949	747,184
			747,184

Last reported production: 1949

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.M35 i5.1-1	2-13-1949	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

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

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

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

Company map, ISGS map library, 4103.M35 i5.1-1 - Shaft locations, mine outline, mining method.

Mine Index 2757**Glen Carbon Mines, Inc., Glen Carbon No. 1 Mine**

Type: Underground Total mined-out acreage shown: 181

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	3N 8W	17	NE NW NE
Air shaft	Madison	3N 8W	17	NE NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	54-60			6.0-6.8	RPP

Geologic Problems Reported: Advancement was halted in the northeasternmost portion of the mine due to water in the entries and roof problems ("caved" noted on the source map).

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Glen Carbon Coal Company, Inc.	Glen Carbon	1932-1943	432,900
Chapman Coal Company	Chapman No. 1	1944-1951	388,499
Bluff Coal Company	Bluff No. 1	1952-1955	27,714
Glen Carbon Mines, Inc.	Glen Carbon No. 1	1955-1958	<u>52,957</u>
			902,070

Last reported production: August 1958

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352384	12-12-1955	1:2400	1:4303	Not final
Company	8-20-1958	1:2400	1:2400	Final

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 352384, reel 03139, frame 21 - Shaft locations, mine outline, mining method.

Company map, loan courtesy of Marissa Historical & Genealogical Society - Mine outline (northeastern), geologic problems.

Mine Index 2767**Bunker Hill Coal & Mining Company, Bunker Hill Mine**

Type: Underground Total mined-out acreage shown: 228

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	3N 8W	28	NW SE SE
Air shaft	Madison	3N 8W	28	NE SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	190			6.0-6.5	MRP

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Williams & Neuman	Williams & Neuman	1911-1912	7,000
Bunker Hill Coal Company	Bunker Hill	1912-1918	40,631
Williams & Sager	Williams & Sager	1918-1920	20,190
Bunker Hill Coal & Mining Company	Bunker Hill	1920-1953	<u>1,325,558</u>
			1,393,379

Last reported production: March 1953

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352366	2-1953	1:2400	1:4469	Final

Annotated Bibliography (data source, brief description of information)

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

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

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

Microfilm map, document 352366, reel 03138, frame 487 - Shaft locations, mine outline, mining method.

Mine Index 2768
Collinsville Coal Company, Collinsville Mine

Type: Underground Total mined-out acreage shown: 218

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	3N 8W	28	SW NW NW
Air shaft	Madison	3N 8W	28	SW NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	94-96			5.75-6.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Collinsville Coal Company	Collinsville	1924-1946	1,182,608 1,182,608

Last reported production: 1946

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352361	8-1946	1:2400	1:3972	Final

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 352361, reel 03138, frame 479 - Shaft locations, mine outline, mining method.

Mine Index 3601**Abbey Coal & Mining Company, Abbey No. 1 Mine**

Type: Underground Total mined-out acreage shown: 83, with 160-acre general area of mining

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp	Section	Quarters-Footage
Springwell No. 1 shaft	St. Clair	2N 8W	4	NE NE SW
Bartlett shaft	St. Clair	2N 8W	4	SE SW NE
Springwell No. 2 shaft	St. Clair	2N 8W	4	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	97-140			6.0-7.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Abbey Coal & Mining Company	Abbey No. 1	pre1882-1886	<u>218,763</u> * 218,763

* Production and ownership prior to 1882 unknown. The source map refers to one shaft as the "Bartlett shaft", indicating that Bartlett Coal Company may have been a previous owner. The Coal Report of 1882 indicates 43 acres mined.

Last reported production: 1886

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company map	4-11-1924	1:2400	1:2400	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source **

** The Federal Land Bank Report also indicated that the area north of Abbey No. 1, west of Abbey No. 4 (mine index 3600) and south of Abbey No. 3 (mine index 2769) was mined. This area is shown as a general area of mining on the accompanying map.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Old Ben archive collection, map of Consolidated Coal Company Mine No. 17 (mine index 201) - Mine outline (northern, eastern and southern), shaft locations, mining method.

Federal Land Bank Report - Mine outline (western), shaft location (Springwell No. 2).

Mine Index 3602
Albert Buhl, Caseyville Mine

Type: Underground Total mined-out acreage shown: 2 Production indicates the area mined should be about 4 acres. The mine is shown in a general area of mining from the Federal Land Bank Report, which would encompass the expected acreage.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main drift	St. Clair	2N 8W	7	SW SW SE

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Albert & W. Buhl	Buhl	1926-1927	1,500
Albert Buhl	Caseyville	1927-1930	<u>16,216</u> 17,716

Last reported production: 1930

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
WPA, T2N-R8W	4-5-1938 *	1:12000	1:55380	Secondary source

* Mine outline from survey dated 1-1933

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
 WPA map, T2N-R8W - Drift location, mine outline, seam.
 Mine notes (St. Clair County) - Mine type, drift location.

Mine Index 3603**A. B. & H. Coal Association, A. B. & H. Mine**

Type: Underground Total mined-out acreage shown: 13 Mining took place in two separate mines but production is recorded under one index number.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main slope	St. Clair	2N 8W	8	SW SW SW
Main slope	St. Clair	2N 8W	18	NE NE NE
Air slope	St. Clair	2N 8W	18	SE NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	12	5.5	6.0	5.75	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
A. B. & H. Coal Company	A. B. & H.	1937-1940	35,550
A. B. & H. Coal Association	A. B. & H.	1940-1943	<u>28,351</u>
			63,901

Last reported production: 1943

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351020	5-1-1943	1:1200	1:1821	Final
WPA, T2N-R8W	3-1938 *	1:12000	1:155380	Secondary source

* The date listed is the survey extent of the mine outline.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Microfilm map, document 351020, reel 03134, frame 97 - Slope locations, mine outline, mining method (for west mine).

WPA, T2N-R8W - Mine outline, slope location (for east mine).

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

Mine Index 3605**New St. Clair Coal Company, New St. Clair Mine**

Type: Underground Total mined-out acreage shown: 36

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	2N 8W	17	NW SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	95			5.75	RPB

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
New St. Clair Coal Company	New St. Clair	1928-1939	146,828 *
			146,828

* The source map for this mine shows an area labeled "very old works", indicating that mining took place at this location prior to 1928. The extent of these old works is unknown, but is shown on the accompanying map in a general area of mining pattern on the south side of the mine.

Last reported production: 1939

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351019	7-1939	1:1200	1:2317	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

ENR Document 85/01 - Mining method.

Microfilm map, document 351019, reel 03134, frame 96 - Shaft locations, mine outline, method.

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

Mine Index 4269

Type: Underground Total mined-out acreage shown: None

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	St. Clair	2N 8W	17	SE NE NW
Shaft	St. Clair	2N 8W	17	W 1/2 NW NE

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Unknown		before 1874	Unknown

Last reported production: unknown; prior to 1931

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank report	5-1934	1:124320	1:124320	Secondary source

Annotated Bibliography (data source, brief description of information)

Federal Land Bank Report (St. Clair County) - Shaft location (eastern), general area of mining.
Atlas of St. Clair County, Illinois, 1874, Warner & Beers, Chicago, Illinois - Shaft location (western).

Mine Index 5022
Emil Kramer, Drift Mine

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

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp	Section	Quarters-Footage
Shaft	St. Clair	2N 8W	18	NE NE NW
Air shaft	St. Clair	2N 8W	18	NE NE NW
Air shaft (proposed?)	St. Clair	2N 8W	18	NW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	25-30			6.0	RPB

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Drift Coal Company *	Drift	pre1907-1910	3,715
Emil Kramer	Drift	1910-1913	5,691 **
			9,406

* The source map has earlier survey dates of 6-10-1899 and 5-4-1904. The Coal Report did not list production for Drift Coal Company in those years. Presumably, the mine operated under another (unknown) name or operator.

** Production after map date, mine reported idle 1913.

Last reported production: 1913

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351124	1-25-1910	1:1200	1:1655	Not final

Annotated Bibliography (data source, brief description of information)

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

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

Microfilm map, document 351124, reel 03134, frame 258 - Shaft locations, mine outline, mining method.

OTHER MINES SHOWN ON THE MONKS MOUND QUADRANGLE

Mine index 4317 NW SE SW & SW SE SW 8-T2N-R8W source: Federal Land Bank Report (1934)
 Mine index 4326 SE NW SE 7-T2N-R8W source: Federal Land Bank Report (1934)
 Mine index 7064 SW NE NW 17-T2N-R8W, shaft source: Atlas of St. Clair County (1874)

MINES WHOSE LOCATIONS ARE NOT KNOWN, MONKS MOUND 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 Monks Mound 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 mines reported for this segment are mines with addresses near Caseyville; they may be located on the French Village quadrangle. The total tons mined by these unlocated mines is 97,559 (66,062 mined underground and 31,497 mined by uncertain method), which would represent approximately 13 to 22 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

CASEYVILLE

Providence Coal Company, 1881-1884, shaft, Herrin, 90-98, 6.0	21,468 tons
Maelh (John), pre1881-1882, drift, Herrin, 35, 5.5	500 tons
Haig & Doyle, 1886-1887, drift, Herrin, 60, 6.0, RP	1,000 tons
Doyle (James), No. 1 Mine, 1887-1889	<u>784 tons</u> 1,784 tons
Brennan (Robert), 1888-1890, drift	620 tons
Doyle (James), No. 2 Mine, 1888-1889	35 tons
Marshall (John), 1902-1904, drift, Herrin, —, 6.0, RP	2,500 tons
Elliott & Company, 1905-1906	<u>4,320 tons</u> 6,820 tons
Griffith & Warner, 1898-1901, drift, Herrin, —, 6.0, RP	2,470 tons
Griffith (M.), 1901-1902	<u>1,000 tons</u> 3,470 tons
Marshall (John C.), 1899-1902, drift, Herrin, —, 6.0, RP	3,300 tons
Buhl (William) & West (John & Fred), 1932-1933, underground	24,104 tons
Nolte (George), 1935-1935, underground	110 tons
Brennan & Company, Brennan Mine, drift, Herrin, —, 6.0, RP	800 tons

COLLINSVILLE

Williams (Lew) Coal & Mining Company, 1950-1951	1,851 tons	Mine Index 6590
Bartlett Coal Company, pre1882-1882, shaft, 100 deep, 6.5 thick	27,000 tons	

Production prior to 1882 is unknown. The Coal Report of 1882 indicates 45 acres were mined.

Bartlett Coal Company, pre1882-1882, shaft, 180 deep, 6.5 thick	300 tons
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Note: These Bartlett mines operated simultaneously with the reported Confidence Mine (mine index 2762) and Abbey No. 1 (mine index 3601). The map of Consolidated Coal Company, Mine No. 17 (mine index 201) labeled the east shaft of Abbey No. 1 "Bartlett shaft". The ISGS Coal Section mine notes associated the Bartlett Coal Company with the Confidence Mine.

Burton Coal Company, 1933-1933	5,397 tons
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