

DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES LANCASTER QUADRANGLE LAWRENCE & WABASH COUNTIES

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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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CONTENTS

INTRODUCTION	1
MINING IN THE LANCASTER QUADRANGLE	1
PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET	2
INTERPRETING THE MAP	2
Mine Type and Mining Method	2
Source Maps	3
Points and Labels	3
INTERPRETING A MINE SUMMARY SHEET	6
REFERENCES	8
PART II DIRECTORY OF MINES IN THE LANCASTER QUADRANGLE	9
MINE SUMMARY SHEETS	9
Mine Index 878	
Allendale Coal Company, Allendale Mine	9
Mine Index 3895	
Reel & Wilkinson, Friendsville Mine	10
Mine Index 4633	
Bert Shepard, Shepard Mine	11
Mine Index 4634	
A. B. Keen, Keen Mine	12
Mine Index 4639	
Pride Coal Company, Pride Mine	13
Mine Index 4640	
Joe Parkinson, Parkinson Mine	14
Mine Index 7425	
A. G. Keen, Keen Mine	15
OTHER MINES SHOWN ON LANCASTER QUADRANGLE	16
Mine Index 4637, Tony Mines	16
Mine Index 4641	16
Mine Index 4686	16
Mine Index 7426	16
Mine Index 7427	16
Mine Index 7428	16
MINES WHOSE LOCATIONS ARE NOT KNOWN, LANCASTER QUADRANGLE	16
INDEX OF MINES IN THE LANCASTER QUADRANGLE	17

INTRODUCTION

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

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

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

MINING IN THE LANCASTER QUADRANGLE

Most of the mining in the Lancaster Quadrangle took place in the southeastern quarter of the map. The Friendsville Coal was mined, which ranged from 2 to 4 feet thick. The mines were small and operated only a few years before closing. The longest known operating mines both worked 6 years – the Allendale Mine (mine index 878), which operated from 1958 to 1964, and the Keen Mine (mine index 4634), which operated from 1917 to 1923.

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.

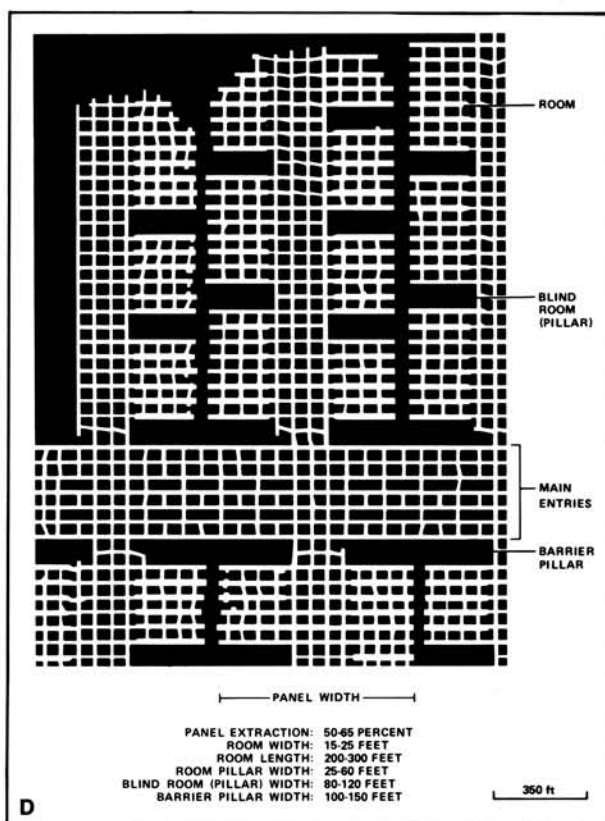
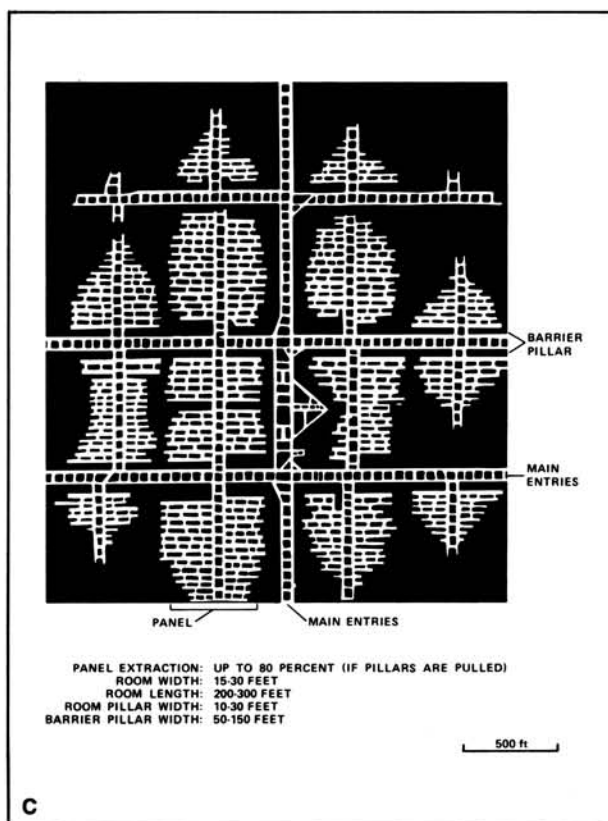
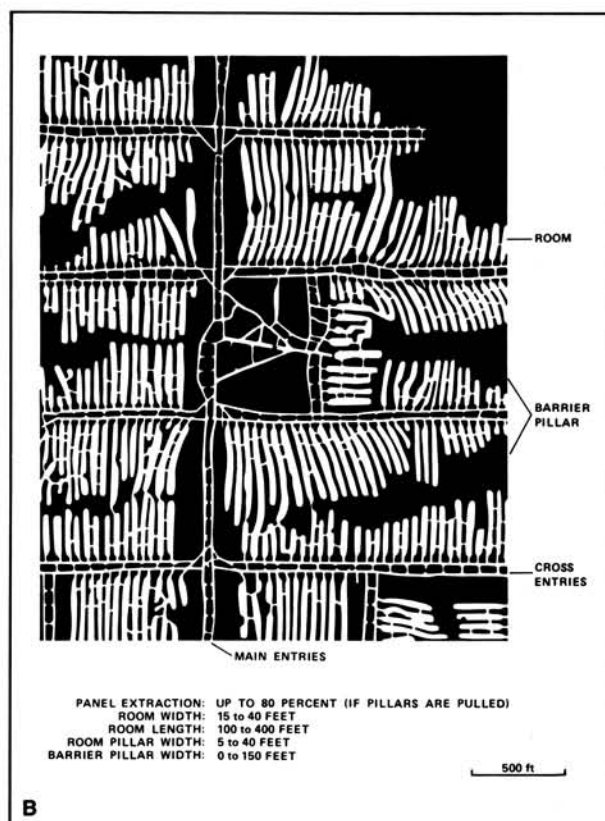
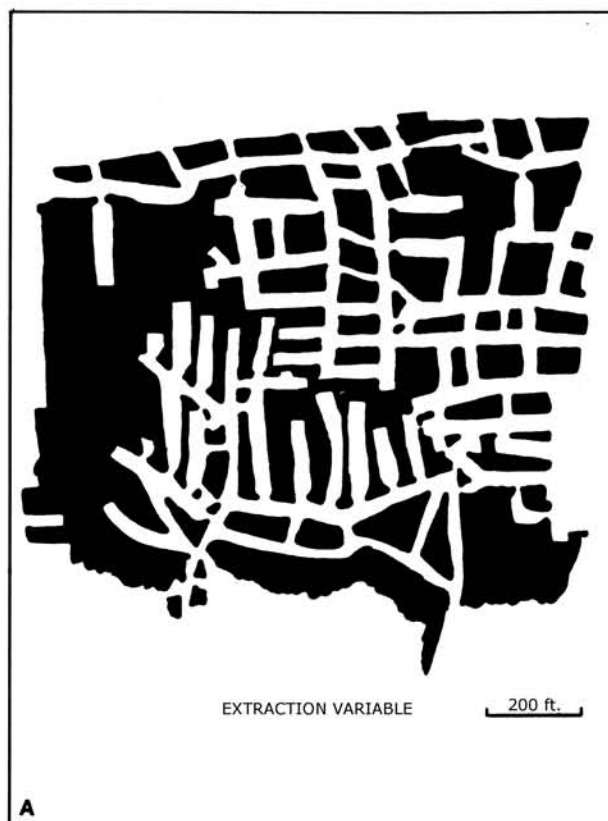


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).



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, 185p.

PART II DIRECTORY OF MINES IN THE LANCASTER QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Lancaster 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 878

Allendale Coal Company, Allendale Mine

Type: Surface Total mined-out acreage shown: 12 Production indicates approximately 3 acres were mined. Other operators may have mined at this location.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Wabash	1N 12W	5	center N ½ SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Friendsville	18			2.5-2.7	Surface

Geologic Problems Reported: A 2 inch thick layer of clay nodules was present 6 inches above the bottom of the coal. In one area, the coal was replaced by inter-grown lenticular masses of brownish calcareous coal balls.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Allendale Coal Company	Allendale	1958-1964	<u>12,082</u> 12,082

* Field notes indicate the company may named after a person, Dale (Allen) Coal Company. The name shown above is how the mine was listed in the Coal Reports.

Last reported production: 1964

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files (strip mine updates)	1969-1971	1:8088	1:8088	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Coal Section files, strip mine updates - Mine outline, mining method.

Mine Index 3895
Reel & Wilkinson, Friendsville Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 3 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Wabash	1N 13W	13	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Friendsville	40-47	2.0	4.0	3.0	Underground

Geologic Problems Reported: The roof was generally shale, but in some places the roof was up to 3 feet of limestone. The coal dipped to the west, so that the entry west of the shaft filled with water while the eastern entries were dry.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Reel & Wilkinson	Friendsville	1936-1936	1,300
Kyle Reel	Friendsville	1937-1938	2,805
Reel & Wilkinson	Friendsville	1939-1941	3,027
			7,132

Last reported production: 1941

SOURCES OF DATA

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

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

Annotated Bibliography (data source, brief description of information)

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

Mine Index 4633
Bert Shepard, Shepard Mine

Type: Underground Total mined-out acreage shown: None

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Wabash	1N 12W	6	NW SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Friendsville	18			2.0-3.0	Underground

Geologic Problems Reported: The roof was generally 1.5 feet of clod, but less than 100 feet northwest of the shaft, the roof was limestone. The coal dipped sharply to the west, and the steepness of the dip was the cause for abandoning the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Bert Shepard	Shepard	circa 1902	Unknown

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (J. M. Schopf)	10-15-1942	(text only)	1:24000 *	Secondary source

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

Annotated Bibliography (data source, brief description of information)

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

Mine Index 4634
A. B. Keen, Keen Mine

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

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft	Wabash	1N 12W	19	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Friendsville	36			3.5	Underground

Geologic Problems Reported: The coal raised and dipped considerably, but the main dip and the water drainage was towards the west. The coal was said to dip 3 feet down in 30 feet horizontal distance.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
A. B. Keen	Keen	1917-1923	<u>2,000</u> 2,000

Last reported production: 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4107 d5-74	1942	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 (Wabash County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Wabash County) - Mine type, shaft location, seam.
 ISGS field notes (Wabash County) - Depth, thickness, geologic problems.
 ISGS map library, 4107 d5-74 (field map of J. M. Schopf) - Shaft location.

Mine Index 4639
Pride Coal Company, Pride Mine

Type: Underground Total mined-out acreage shown:

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Wabash	1N 13W	13	N ½ SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Friendsville	42-47	2.0	4.0	3.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Pride Coal Company *	Pride	1936-1936	<u>100</u> 100

* The mine was located on the Price farm, and is likely the Price Coal Company.

Last reported production: 1936

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4107 d5-74	1942	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 (Wabash County) - Mine names, mine index, ownership, years of operation.

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

ISGS map library, 4107 d5-74 (field map of J. M. Schopf) - Shaft location.

Mine Index 4640
Joe Parkinson, Parkinson Mine

Type: Underground Total mined-out acreage shown:

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Wabash	1N 13W	24	SE NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Friendsville	46			2.5-3.0	Underground

Geologic Problems Reported: Trouble with water that drained from mines to the east was reported.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Joe Parkinson	Parkinson	1904-1906 *	Unknown *

* The dates of operation are from the field notes. Parkinson was not listed in the Coal Reports. No production was reported in Wabash County from 1882 to 1901 or from 1904 to 1917. Unreported production is likely. However, a sketched map by John Schwadner, who worked in the mine, stated little coal was worked.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4107 d5-74	1942	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Wabash County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Wabash County) - Mine type, shaft location, seam, depth, thickness, mine ownership, years of operation..
 ISGS map library, 4107 d5-74, field map of J. M. Schopf - Shaft location.

Mine Index 7425
A. G. Keen, Keen 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	Wabash	1N 12W	19	NW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Friendsville	30			2.0-3.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
A. B. Keen	Keen	1900-1901	1,712
A. G. Keen	Keen	1901-1903	2,840
			4,552

Last reported production: 1903

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (J. M. Schopf)	1942	(text only)	1:24000 *	Secondary source

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

Annotated Bibliography (data source, brief description of information)

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

OTHER MINES SHOWN ON LANCASTER QUADRANGLE

Mine Index 4637, Tony Mines NE SE SE & SW NE SE 13-T1N-R13W, 2 shafts, circa 1910-1920, 40 feet deep, 3.0 feet thick source: ISGS field notes (J. M. Schopf, 10-2-1942) and ISGS map library, 4107 d5-74 (field map of J. M. Schopf)

Mine Index 4641 NW SW SW 33-T2N-R12W, 8.5 feet deep, 1.5 feet thick source: ISGS field notes (W. A. Newton & J. M. Weller, 7-23-1936)

Mine Index 4686 NE SW & NW SE 22-T2N-R13W, several small mines, 3.0 feet thick source: ISGS field notes (M. W. Fuller, 7-19-1933 and W. A. Newton, 7-21-1936)

Mine Index 7426 NW SW NE 6-T1N-R12W, 28 feet deep, 2.5 feet thick source: ISGS map library, 4103.W31 i5.1-6 (compilation of field work on 1:62500 quadrangle base map)

Mine Index 7427 NW NW SW 19-T1N-R12W source: ISGS field notes, sketch map by John Schwadtner (included with J. M. Schopf field notes, 10-1942)

Mine Index 7428 SW NW SW 19-T1N-R12W, shaft, no coal mined source: ISGS field notes, sketch map by John Schwadtner (included with J. M. Schopf field notes, 10-1942)

MINES WHOSE LOCATIONS ARE NOT KNOWN, LANCASTER 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 Lancaster 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 8,180 (all underground mined), which would represent approximately 2 to 5 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

FRIENDSVILLE

Friendsville Coal Company, 1934-1935, underground	3,180 tons
Kelkison (T. H.), 1900-1901, shaft, Friendsville, 35, 3.0, RP	802 tons
Couch, Adams & Company, 1901-1903	4,200 tons
	5,002 tons

INDEX OF MINES IN THE LANCASTER QUADRANGLE

Adams (Couch, Adams & Company)	16
Allendale Coal Company	9
Couch, Adams & Company	16
Dale (Allen) Coal Company	9
Friendsville Coal Company	16
Friendsville Mine	10
Keen (A. B.)	12, 15
Keen (A. G.)	15
Kelkison (T. H.)	16
Parkinson (Joe)	14
Price Coal Company	13
Pride Coal Company	13
Reel (Kyle)	10
Reel & Wilkinson	10
Shepard (Bert)	11
Tony Mines	16
Wilkinson (Reel & Wilkinson)	10

