













**Christian & Sangamon
Counties, Illinois**

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

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

Mine Annotation

(space permitting)

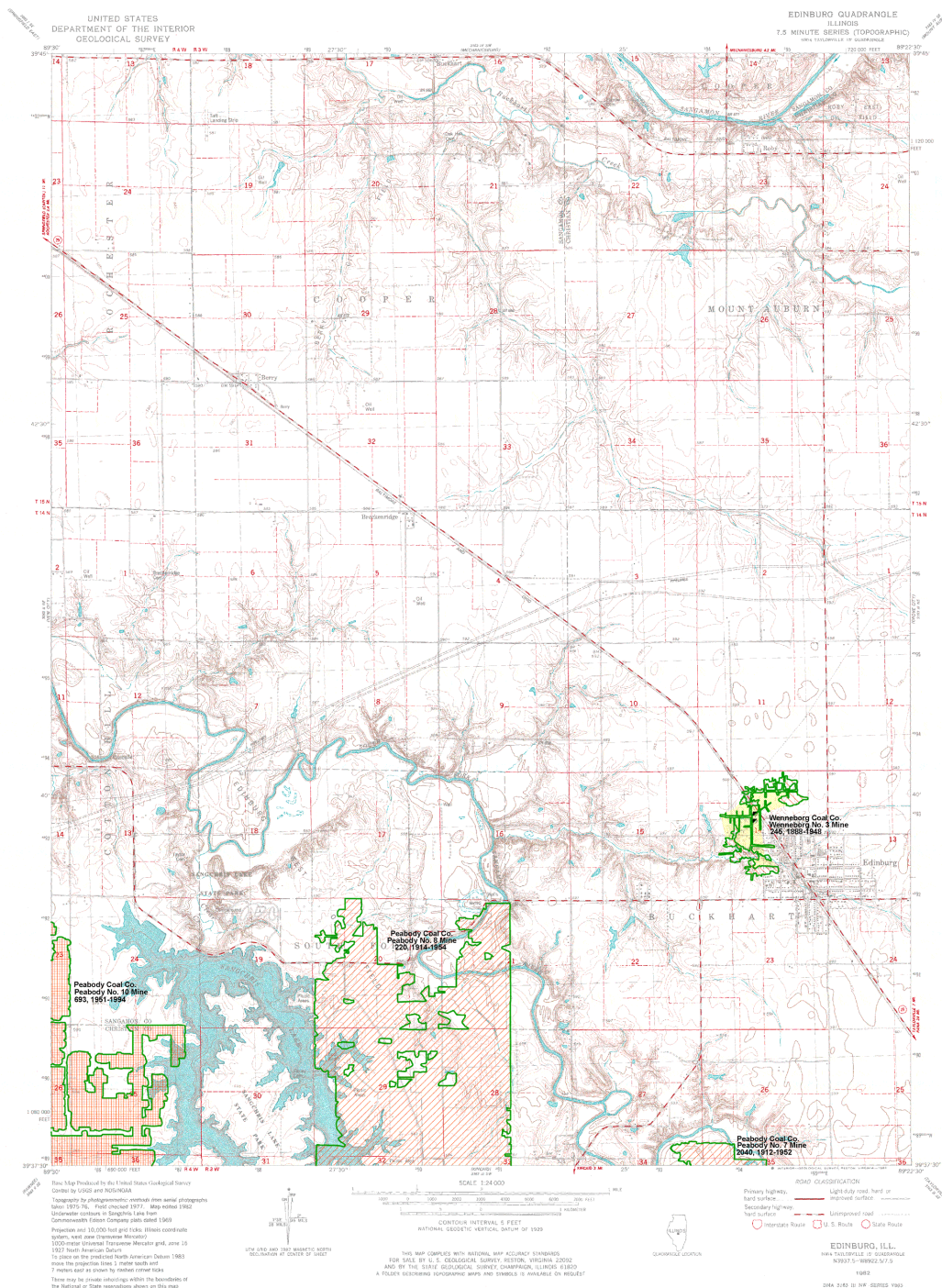
Company

Mine Name
ISGS Index No., Years of Operation

DISCLAIMER

These data were compiled and digitized from the best source maps available. Locations of some features may be offset by 500 feet of more due to errors in the original source maps, the compilation process, digitizing or a combination of these factors. Documentation of the source materials used is contained in the directory that accompanies this map. It is the user's responsibility to read this documentation and understand the limitations of the data. Though efforts have been made to compile these data accurately, the Illinois State Geological Survey does not guarantee the validity or the accuracy of these data.

The image of the U.S.G.S. Edinburg Quadrangle used as a basemap was projected from the original UTM to Lambert Conformal Conic.



DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES EDINBURG QUADRANGLE CHRISTIAN & SANGAMON COUNTIES

Alan R. Myers



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2007

**DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
EDINBURG QUADRANGLE
CHRISTIAN & SANGAMON COUNTIES**

2007

ILLINOIS STATE GEOLOGICAL SURVEY
William Shilts, Chief

Natural Resources Building
615 East Peabody Drive
Champaign, Illinois 61820

Phone 1-217-244-4610
Fax 1-217-333-2830

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.

Printed by authority of the State of Illinois/2007

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INTRODUCTION

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

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

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

MINING IN THE EDINBURG QUADRANGLE

Mining began in this quadrangle in 1888, with the opening of the Edinburg Coal Mining Company, mine index 245, near Edinburg. This mine operated for 60 years, and was idled for only six years during that time. Although the mine had a very long life (most mines operate 20 to 30 years), the production ranged from less than 1,500 tons up to a high of 31,881 tons in the 1892-1893 fiscal year, and so the area mined is not commensurate with the time span operated. The other mines shown in the Edinburg Quadrangle extended from adjacent areas south and west, but these three mines all operated 40 years or more. Although the Herrin Coal was over 300 feet deep in this part of Christian County, the seam was thick (usually over 6 feet), and was not plagued by horsebacks and rolls as the Springfield Coal was in Sangamon County. This made mining in Christian County very competitive with nearby coal fields, since adequate rail transport was available to market the coal.

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).

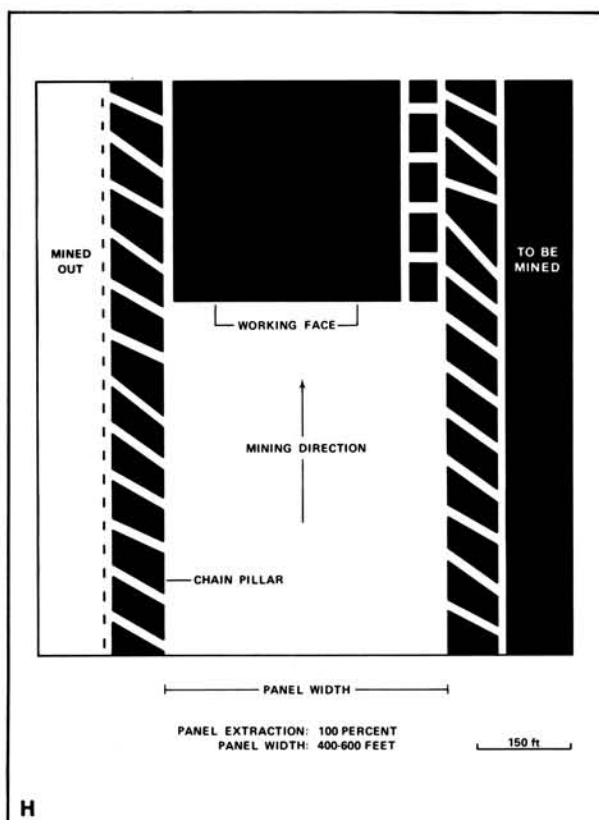
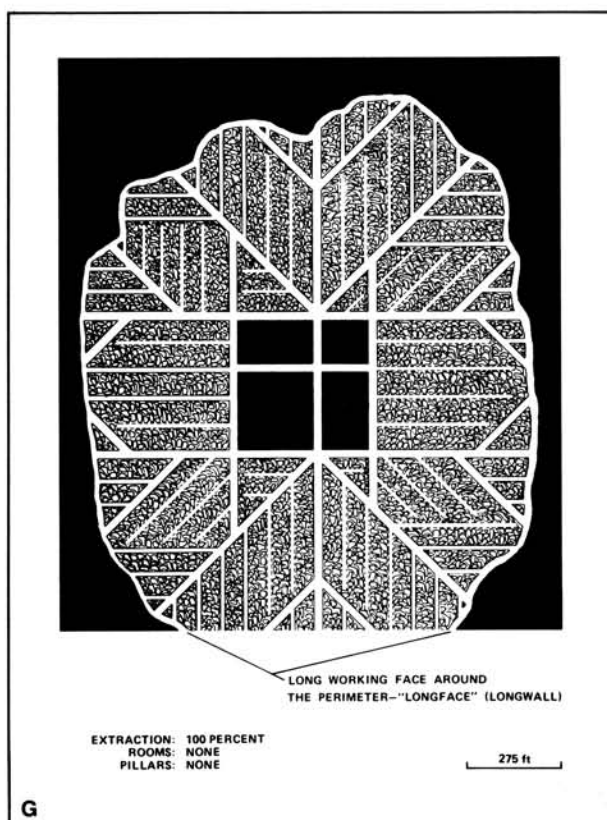
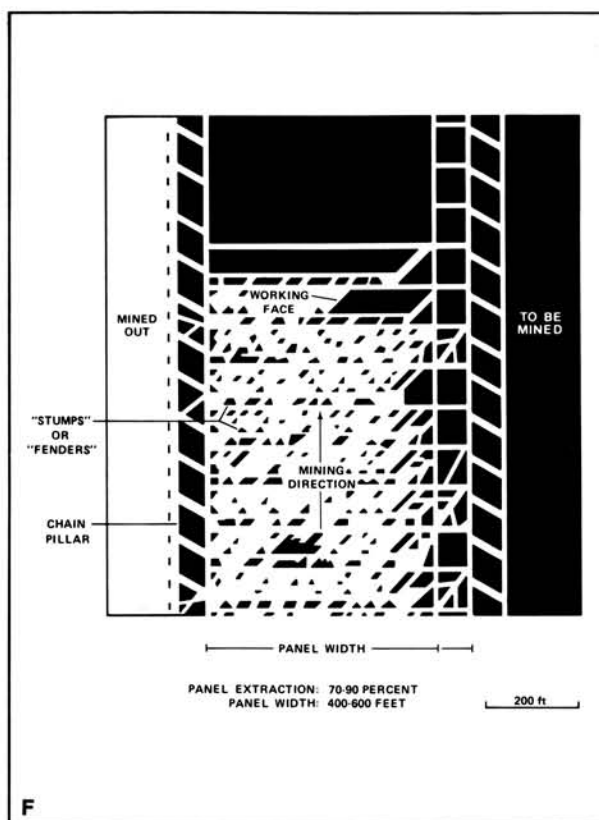
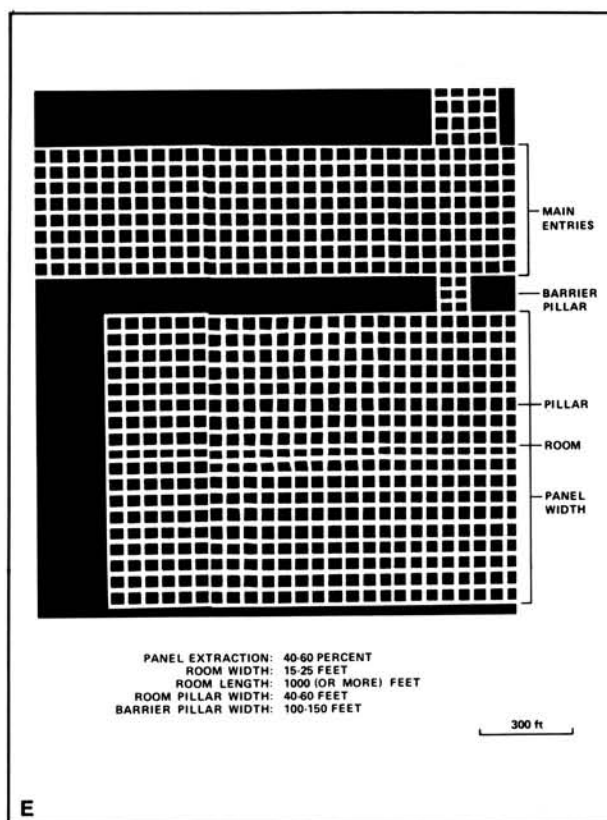


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall



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 EDINBURG QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Edinburg 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 220

Peabody Coal Company, Peabody No. 8 Mine

Type: Underground Total mined-out acreage shown: 8,571

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Christian	13N 3W	8	SW SW NW
Air shaft	Christian	13N 3W	8	SW SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	370	7.0	8.0	7.5	RPP

Geologic Problems Reported: The source map shows a mining pattern indicating a fault that interfered with mining in NW SENE 17-T13N-R3W. This normal fault extended southeast into Peabody No. 10 Mine (mine index 693), where the coal was downthrown 7 to 15 feet to the northeast. The immediate roof over the coal was a black shale that varied from 0 to 5 feet thick. Above the shale was a limestone that also ranged from 0 to 5 feet thick. Timbering was required where the roof was shale over 30 inches thick. When the shale was less than 30 inches, it was taken down when the coal was removed. The limestone made a very good roof. Slips and sandstone rolls were observed in the mine. Rolls were more common in the western part of the mine, and had the effect of lowering the top of the coal 3 to 4 feet. Impurities in the coal were pyrite in lenses and bands, and calcite in fracture fillings. The soft underclay floor heaved, and several bad squeezes had occurred at the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Peabody Coal Company	Peabody No. 8	1914-1954	<u>47,406,627</u> 47,406,627

Last reported production: July 1954

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.C4 i5.1-10	7-29-1954	1:12000	1:12000	Final

Annotated Bibliography (data source, brief description of information)

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

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

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

Company map, ISGS map library, 4103.C4 i5.1-10 - Shaft locations, mine outline, mining method.

Mine Index 245**Wenneborg Coal Company, Wenneborg No. 3 Mine**

Type: Underground Total mined-out acreage shown: 62 The area shown on the accompanying map is too small for the reported production. A general area of mining has been added to show the approximate size of the mine. (The source maps show only the major haulage routes of the older parts of the mine.)

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft * (7x12)	Christian	14N 3W	14	SE SE NW
Air / escape shaft *	Christian	14N 3W	14	NE SE NW

* The main shaft caved in circa 1894-1896, and coal was hoisted out of the escapement shaft until 1905. The mine was shut down because of the lack of an escapement shaft in 1906 and 1907. The northern shaft on the accompanying map was labeled on the source map as the hoist shaft and the southern shaft was the escape shaft. There may be another shaft location not shown on the source map that was the original hoist shaft that collapsed.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	333	6.0	7.0	6.5	RPP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Edinburg Coal Mining Company	Edinburg	1888-1894	127,380
Smith & Williams	Edinburg	1894-1895	13,303
Edinburg Co-operative Coal Company	Edinburg	1895-1907 **	66,973
Hanover Coal Company	Edinburg	1907-1908	2,800
C. W. Vandever	Greenwood	1908-1913	56,186
Greenwood Coal Company	Greenwood	1913-1917	37,084
Charles W. Vandever	Greenwood	1917-1918	8,625
Christian County Mining Company	Edinburg	1918-1926 ***	85,462
Quality Coal Company	Edinburg	1927-1927	25,882
H. F. Young Coal Company	Edinburg	1928-1929	21,571
Young & Tex	Edinburg	1930-1930	7,100
H. F. Young	Edinburg	1931-1932	15,827
Greenwood Coal Mining Company	Edinburg	1933-1935	13,592
Edinburg Coal Company	Edinburg	1935-1945	114,799
Wenneborg Coal Company	Wenneborg No. 3	1945-1948	<u>32,070</u>
			628,654

** Idle 1902, 1906 & 1907

*** Idle 1924-1926

Last reported production: February 18, 1948

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.C4 i5.1-11	8-12-1949	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 (Christian County) - Mine names, mine index, ownership, years of operation.

ENR Document 85/01 - Mining method.

Mine notes (Christian County) - Mine type, shaft location, seam, depth, thickness, shaft size, abandonment date.

Company map, ISGS map library, 4103.C4 i5.1-11 - Shaft locations, mine outline, mining method.

Mine Index 693**Peabody Coal Company, Peabody No. 10 Mine**

Type: Underground Total mined-out acreage shown: 24,808 Workings extend into Sangamon and Montgomery Counties.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Christian	13N 4W	10	NE NE SE
Air shaft	Christian	13N 4W	11	SE NW SW
19 th North air shaft	Sangamon	13N 4W	30	SW NW SW
South man / air shaft	Sangamon	13N 4W	29	SW SW SW
Air shaft	Christian	13N 4W	26	SW SW SW
Main South air shaft #2	Christian	13N 4W	34	SE SE NE
Zenobia man shaft	Christian	12N 4W	2	NW NW SW
Air shaft	Christian	12N 4W	2	NE NW SW
North air shaft	Christian	14N 4W	27	SE SE SE
North man shaft	Christian	14N 4W	27	SE SE SE
4 th East air shaft	Christian	14N 4W	35	NE NW NE
4 th West air shaft	Sangamon	14N 4W	32	NE NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	300-380		13.0	6.5-7.5 *	BRP

* The coal was averaged 6.5 feet thick under limestone roof and 7.5 feet thick under Anna Shale. Generally, 2 to 3 feet of top coal was left to support the roof.

Geologic Problems Reported: This mine extended about 11 miles in the north-south direction and 7 miles in the east-west direction, and geologic conditions were diverse. A large normal fault was encountered that halted expansion in the northeastern part of the mine. Displacement was 7 to 15 feet downthrown to the northeast. This fault, or set of parallel faults, extended over 2 miles N-NW and southward into NW SE NW 17-T13N-R3W, in Peabody No. 8 Mine (mine index 220). In 1967, seven entries were driven through a NE-SW trending channel sandstone in NE SW 17-T13N-R4W, Sangamon County. The sandstone was water-bearing, and consequently the mine was wet in that area. The top of the coal was eroded, but 4 to 5 feet of coal remained. These channels of Anvil Rock Sandstone channels are evident in the mining patterns shown on the accompanying map. Most channels were 200 to 400 feet wide with wider flanking zones of wet conditions and/or unstable roof. The black shale roof tended to slab off along prominent jointing breaks. The 3 to 4 feet of black Anna Shale was overlain by 1.5 feet of Brereton Limestone, then 2 to 10 feet of thin-bedded Anvil Rock Sandstone that sometimes had shale interlamination, another 1.5 feet of limestone, and 2 feet of shale. In some roof falls this entire sequence was exposed. In NW 34-T13N-R4W and SW 27-T13N-R4W, a peat trough resulted in coal up to 13 feet thick, in a north-south trending linear depression. The grades were too steep for the equipment and the feature was difficult to cope with. Roof failures also made this feature difficult to mine, although only the usual 6 to 7 feet of coal was actually removed. A pattern of slips initiated a roof fall of 35 feet of silty shale and gray shale within this area of thick coal. The coal in the northern part of the mine was exceptionally hard but relatively clean of impurities, and the underclay was rather soft. In the southern part of the mine, the coal was softer but had more impurities, and the underclay was much firmer.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Peabody Coal Company	Peabody No. 10	1951-1994	<u>147,281,150</u> 147,281,150

Last reported production: 1994

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company	8-1-1994	1:7200	1:7200	Final

Annotated Bibliography (data source, brief description of information)

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

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

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

Company map, state archives - Slope & shaft locations, mine outline, mining method.

Company map, Coal Section files, 2-1-11L - Geologic problems.

Mine Index 2040**Peabody Coal Company, Peabody No. 7 Mine**

Type: Underground Total mined-out acreage shown: 7,127

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Christian	13N 3W	14	SW NW NW
Air shaft	Christian	13N 3W	14	SW NW NW
Air shaft	Christian	13N 3W	27	SE SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	349-365			6.5-7.5	RPP

Geologic Problems Reported: The source map shows a probable sandstone channel that limited mine expansion in the southeastern part of the mine. Only three pairs of entries were driven across the channel to access the coal on the other side, implying that almost no coal was minable there. The coal was either eroded or never deposited. Another channel was between the Peabody No. 7 and Peabody No. 9 Mines (mine index 219). The source map showed unmined areas in 36-T14N-R3W (SE NW, S ½ NE and SE SW), some marked by the same symbol used to denote channels elsewhere on the same map.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Illinois Midland Coal Company	Illinois Midland No. 7	1912-1913	74,824
Peabody Coal Company	Peabody No. 7	1913-1952	44,886,555
			44,961,379

Last reported production: May 1952

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351393	5-29-1952	1:4800	1:9600	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness.
 Directory of Illinois Coal Mines (Christian County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Christian County) - Mine type, shaft location, seam.
 Microfilm map, document 351393, reel 03135, frames 470-475 - Shaft locations, mine outline, mining method.

INDEX OF MINES IN THE EDINBURG QUADRANGLE

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Edinburg Co-operative Coal Company	10
Edinburg Coal Mining Company	10
Greenwood Coal Company	10
Hanover Coal Company	10
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No. 08 Mine	9
No. 10 Mine	11
Quality Coal Company	10
Smith & Williams	10
Tex (Young & Tex)	10
Vandever (Charles W.)	10
Wenneborg Coal Company	10
Williams (Smith & Williams)	10
Young (H. F.) Coal Company	10
Young & Tex	10

Funding for this project was supplied by the Illinois Mine Subsidence Insurance Fund.