

Coal Mines in Illinois Percy Quadrangle Perry & Randolph Counties, Illinois

Herrin Coal

This map accompanies the Coal Mines Directory for the Percy Quadrangle and the map of mines in the Springfield Coal, Percy 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

Location



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 unlocated 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.

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Mine Outlines Compiled by
Alan R. Myers

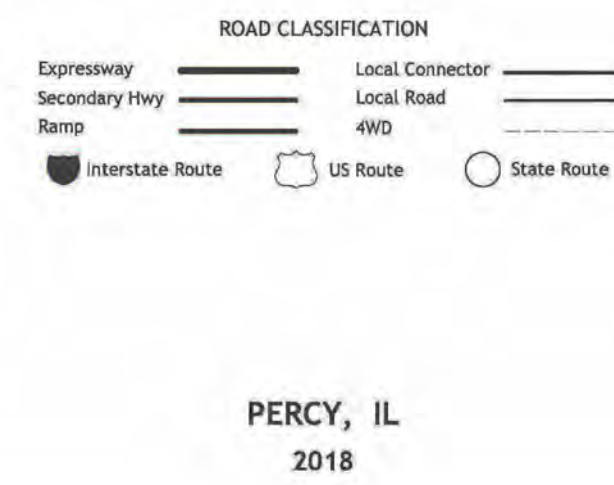
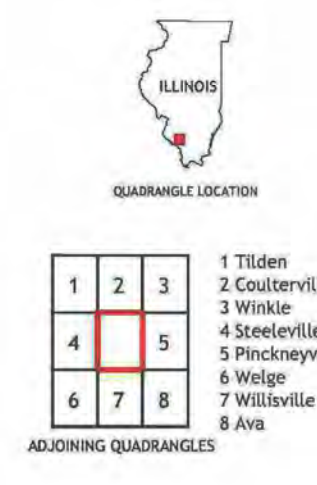
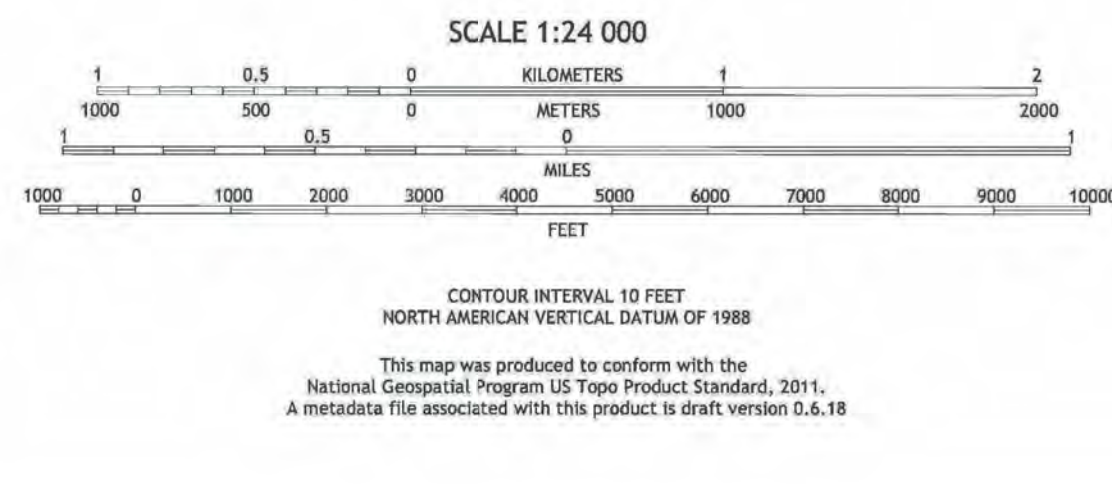
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June 2010

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
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Imagery.....NAP, July 2015 - October 2015
Roads.....U.S. Census, 2017
Names.....GNS, 1980-2017
Hydrography.....National Hydrography Dataset, 2002 - 2016
Contours.....National Elevation Dataset, 1999 - 2008
Boundaries.....Multiple sources; see metadata file 2014 - 2016
Public Land Survey System.....BLM, 2017
Wetlands.....FWS National Wetlands Inventory, 1981



Coal Mines in Illinois Percy Quadrangle Perry & Randolph Counties, Illinois

Springfield Coal

This map accompanies the Coal Mines Directory for the Percy Quadrangle and the map of mines in the Herrin Coal, Percy Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

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- Room & Pillar (RP)
- Room & Pillar Basic (RPB)
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Location



Mine Annotation (space permitting)

Company
Mine Name
ISGS Index No., Years of Operation

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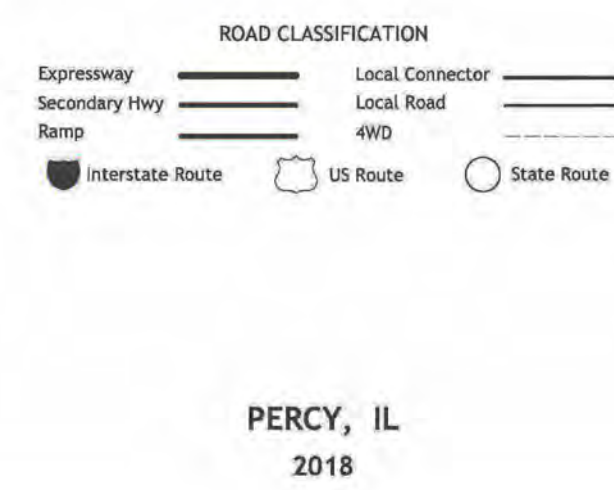
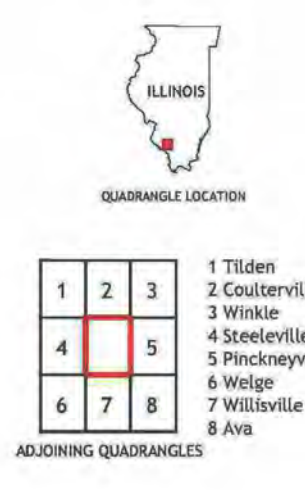
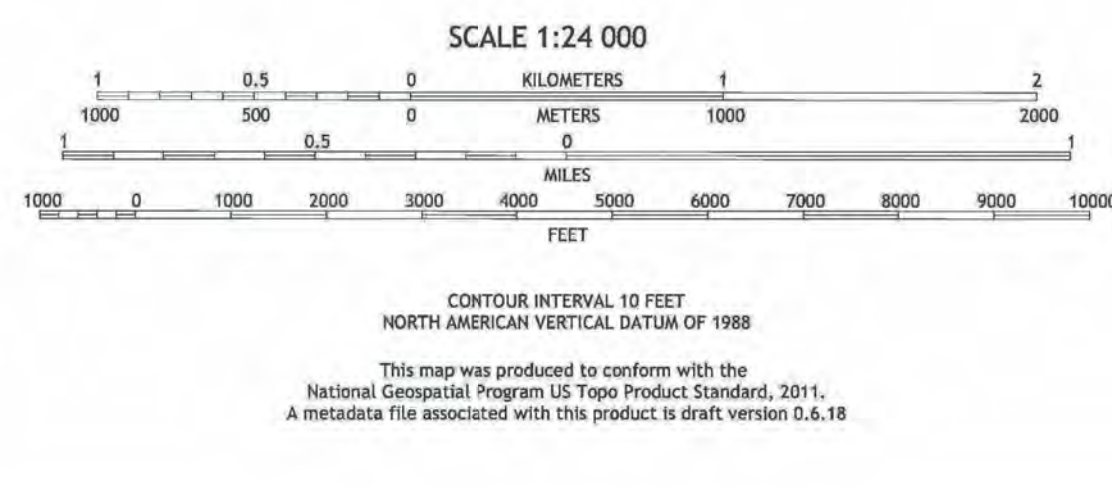
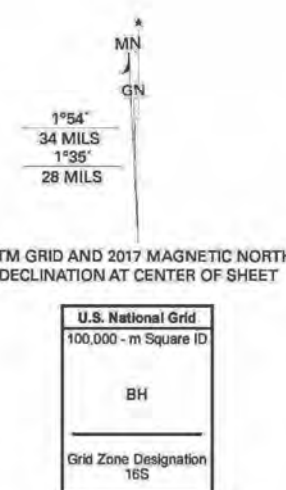
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DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

PERCY QUADRANGLE

PERRY & RANDOLPH COUNTIES

Alan R. Myers & C. Chenoweth



2010, Updated 2024

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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.

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 PERCY QUADRANGLE

Mining in the Percy Quadrangle was dominated by large surface mines: Streamline Mine (mine index 872), Burning Star No. 4 Mine (mine index 932), and the Captain Mine (mine index 873). A contributing factor was the ease in obtaining coal from both the Herrin and Springfield Coals, which in some areas were only 15 feet apart. Most of the underground mines were of modest size and operated in the Herrin Coal. Mining began here before 1876, as shown by several mines on an 1876 atlas, and continues to the present day.

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.

Union Atlas Company, 1876, Atlas of the State of Illinois, Warner & Beers Publishers, Chicago, Illinois.

PART II DIRECTORY OF MINES IN THE PERCY QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Percy 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 182

Whip Coal Company, Whip Mine

Type: Underground Total mined-out acreage shown: 194 Production indicates approximately 21 acres were mined after the map date. General area of mining shades have been added where later operators found voids.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft *	Perry	6S 4W	5	NW NE SE
Air shaft	Perry	6S 4W	5	NW NE SE

* An old slope (not discernible on source maps) caved in and a shaft was constructed before 1907.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	106	5.0	7.0	6.0	MRP

Geologic Problems Reported: The roof was 3 feet of white top with up to 3 feet of black shale above. A 6 foot limestone cap rock was above the shale. In several places, the limestone had protrusions almost down to the blue band. The coal contained pyrite, charcoal, clay, shale and black jack (hard charcoal) impurities. The blue band varied from 0 to 2 inches thick and was about 6 inches above the floor. The underclay heaved when wet, but the mine was generally dry. The fire clay contained pyrite nodules that made undercutting difficult.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Wilson & Cairt	Wilson & Cairt	1901-1902	700
Wilson & Snoffard	Wilson & Snoffard	1902-1903	2,800
W. H. Wilson	Wilson	1903-1905	28,600
Wilson Brothers	Wilson	1905-1907	3,767
Wilson Coal Company	Galum	1907-1917	191,282
Soper Coal Company	Soper No. 2	1917-1919	54,855
Alladin Coal & Mining Company	Alladin No. 2	1919-1921	183,585
Southern Gem Coal Corporation	Southern Gem No. 10	1921-1922	76,164
Chicago Fuel Company	Chicago Fuel No. 2	1922-1933 **	126,231
Whip-Poor-Will Coal & Mining Company	Whip-Poor-Will	1934-1938	229,299
C. & R. Coal Company	C. & R. No. 44	1938-1941	176,755
C. & R. Coal Company	C. & R. No. 44	1941-1941	7,406 †
J. & T. Coal Company	J. & T.	1942-1943 ***	37,070 †
Smith Brothers (Whip Coal Company)	Whip	1944-1944	44,000 †
Whip Coal Company	Whip	1945-1945	18,069 †
			1,180,583

** Idle 1924 & 1927-1933

*** Idle 1943

† Production after map date

Last reported production: March 1945

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352088	11-1941	1:2400	1:5296	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Microfilm map, document 352088, reel 03138, frame 69 - Shaft locations, mine outline, mining method.

Mine Index 210**Willis Coal & Mining Company, Willis No. 6 Mine**

Type: Underground Total mined-out acreage shown: 856 Production indicates approximately 23 acres were worked after the map date.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	6S 5W	14	NW NE NE
Air shaft	Randolph	6S 5W	14	NW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin (No. 1 Mine)	84	2.5	8.0	5.83	MRP
Springfield (No. 2 Mine)	195-120			4.83-5.83	RP

Geologic Problems Reported: The roof was composed of 12 to 15 feet of limestone above up to 4 feet of black shale above up to 6 inches of white top and clod. Some shrinkage slips were noted under the white top and clay "clod". The white top seemed to be a gray soapstone with very little tenacity and supporting power. This material was in lenses in slight hollows in the surface of the coal and beneath the black shale. Generally the slips were seen along the margins of the lenses of the white top, and the slips continued down into the coal. In those places, the coal was offset by as much as 1 foot. Pyrite was present in the coal as plates, commonly 15 inches and 30 inches below the top of the coal. The floor was 20 to 24 inches of fireclay, and heaved in the haulage entries.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William Goalby & Son	Goalby	1883-1886	12,507
Goalby & Dean	Goalby & Dean No. 1 & No. 2	1886-1887	14,942
Goalby & Son	Goalby No. 1 & No. 2	1887-1890	80,900
William Goalby & Son	Goalby No. 1	1890-1897 *	70,607
William Goalby & Son	Goalby No. 2	1890-1901	160,319
Goalby Brothers	Goalby No. 2	1901-1902	19,410
Goalby Coal Company	Goalby	1902-1903	45,792
Willis Coal Mining Company	Willis No. 6	1903-1922	4,615,226
Southern Gem Coal Corporation	Southern Gem No. 11	1922-1924 **	108,987 ***
Willis Coal & Mining Company	Willis No. 6	1924-1925	20,059 ***
			5,148,749

* Idle 1891

** Idle 1924

*** Production after map date

Last reported production: March 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353350	8-1922	1:2400	1:4303	Not final
WPA map, T6S-R5W	Circa 1934	1:120000	1:120000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 353350, reel 03142, frames 343-346 - Mine outline, mining method.

WPA map, T6S-R5W - Shaft locations.

Mine Index 229
Southern Gem Coal Company, Southern Gem No. 12 Mine

Type: Underground Total mined-out acreage shown: 45 Production indicates approximately 1 acre was mined after the map date. The shaft and other portions of the mine are not shown because of later surface mining by Streamline Mine (mine index 872).

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	6S 5W	11	NW NW SE
Air shaft	Randolph	6S 5W	11	SW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	50			4.67	MRP

Geologic Problems Reported: The roof was 15 to 20 feet of limestone above 10 to 30 inches of black shale. The limestone pinched out on the western side of the mine, which halted mine expansion in that direction because of the bad roof. Some of the black shale was more of a draw slate, practically impossible to keep up, and was generally removed right away. In some areas, however, the shale was a better roof and was timbered. Many slips and rolls were seen in the black shale. The slips were small and did not extend down into the coal. The rolls were usually less than 10 feet in diameter and came down into the coal about 2 feet, with a roll diameter of 10 feet. The slips and rolls did not affect mining in any appreciable way.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Crain Brothers Coal Company	Crain	1915-1916	1,160
Crain & Gordon	Crain & Gordon	1916-1917	4,469
Willis Coal & Mining Company	Willis No. 9	1917-1922 *	135,953
Southern Gem Coal Company	Southern Gem No. 12	1922-1923	78,935
Southern Gem Coal Company	Southern Gem No. 12	1923-1923	4,289 **
			224,806

* Idle 1920

** Production after map date

Last reported production: November 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353352	8-1923	1:2400	1:4303	Not final
WPA, T6S-R5W	Circa 1934	1:120000	1:120000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Randolph County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Randolph County) - Mine type, shaft location, seam, depth, thickness, geologic problems.
 Microfilm map, document 351418, reel 03136, frame 53 - Shaft location, mine outline, mining method.
 WPA map, T6S-R5W - Air shaft location.

Mine Index 872
Southwestern Illinois Coal Corporation, Streamline Mine

Type: Surface Total mined-out acreage shown: 6,367

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Randolph	6S 5W	23, 24	
Pit	Randolph	6S 5W	25, 36	
Pit	Randolph	6S 5W	15	

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	38-83			5.5-6.0	Surface
Springfield	87-135			3.0-5.0	Surface

Geologic Problems Reported: Thin shale bands were seen in the coal. Pyrite was present as thin lenses. In NE NW 14-T6S-R5W, the interval between the Herrin and Springfield Coals was 15 to 20 feet and consisted of 4 to 6 feet of shale and underclay and 8 to 10 feet of limestone.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Southwestern Illinois Coal Corporation	Streamline	1936-1983	<u>53,450,027</u> 53,450,027

Last reported production: May 1983

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
USGS digital orthophoto map	2004	1:6000	1:6000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness.
 Directory of Illinois Coal Mines (Randolph County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Randolph County) - Mine type, mine location, seam, depth, thickness.
 ISGS field notes (G. H. Cady & G. Wilson, 1-5-1944) - Geologic problems.
 USGS digital orthophoto map, Willisville Quadrangle, 2004 - Mine outline.
 Company map, Coal Section files, 1-32-25 - Verify pit identification.
 Company map, Coal Section files, 6-252 L - Verify pit identification.
 Company map, ISGS map library, 4103.P42 i5.1-62 - Verify pit identification.

Mine Index 873
Arch of Illinois, Inc., Captain Mine

Type: Surface Total mined-out acreage shown: 10,241

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Perry	6S 4W	15	E ½ SE SW
Auger	Perry	6S 4W	8	NE
Pit	Perry	6S 4W	20,21,28,29	

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Danville	45-75		4.0	1.5-2.5	Surface
Herrin	35-77			5.7-6.25	Surface
Springfield	70-107			4.0-4.9	Surface

Geologic Problems Reported: The Brereton Limestone and Anna Shale were irregular in thickness. When one was thin or absent, the other was thick. Usually, the Anna Shale was 1 to 5 feet thick. Energy Shale was sometimes present, in pods up to 30 feet across. In some places, the glacial till eroded all rock above the coal, and sometimes the Herrin Coal was eroded completely. Generally, the overburden above the Herrin Coal was 25 feet of glacial deposits and 25 feet of bedrock. Slickensided fault planes were evident in the Herrin Coal in one pit. A dike was observed in the Springfield Coal. The interval between the Herrin and Springfield Coals was as low as 22 feet in one pit. Pyrite nodules were found in the Anna Shale and in the underclay of the Herrin Coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Southwestern Illinois Coal Corporation	Captain	1964-1983	78,243,440
Arch of Illinois, Inc.	Captain	1984-1998	54,460,579
			132,704,019

Last reported production: 1998

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files, dxf files	1-1999	1:6000	1:6000	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Perry County) - Mine type, mine location, seam, geologic problems.
 Coal Section files, dxf format from company - Mine outline.
 IDNR website, Permit Viewer - Mine outline (verify pit identification).
 Company map, ISGS map library, 4103.P42 i5.1-71, sheets 1-4 - Verify pit identification.

Mine Index 932
Consolidation Coal Company, Burning Star No. 4 Mine

Type: Surface Total mined-out acreage shown: 5,620

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit or tipple	Perry	6S 4W	3	NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Danville	30			1.5-2.0	Surface
Herrin	40-85			5.9-6.5	Surface
Springfield	90-110			3.0-3.83	Surface

Geologic Problems Reported: In some places, the Brereton Limestone rested directly on the coal, with no intervening Anna Shale. The Herrin and Springfield Coals both thinned along a closed anticlinal structure. Coal balls were found above the Springfield Coal on the east flank of that structure. Concretions were also found in the Anna Shale above the Herrin Coal. Pods of Energy Shale were deposited in erosional features on the Herrin Coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Consolidation Coal Company	Burning Star No. 4	1973-1997	56,370,819
			56,370,819

Last reported production: 1997

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.P42 i5.1-78	8-31-1997	1:4800	1:4800	Final *
NAIP digital ortho-photo quadrangle	2004	1:6000	1:6000	Secondary source

* Final for the north pit, also known as the Jamestown Mine

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Perry County) - Mine type, mine location, geologic problems.
 Company map, ISGS map library, 4103.P42 i5.1-78 - Mine outline, mining method.
 National Agriculture Imagery Program map, digital ortho-photo quadrangle map, Pinckneyville Quadrangle, 2004 - Mine outline.

Mine Index 968
Peabody Midwest Mining, Gateway Mine

Type: Underground Total mined-out acreage shown: 13,062

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Randolph	4S 5W	26	NE SW NE
Man & materials shaft	Randolph	4S 5W	26	NE SE NE
Air shaft	Randolph	4S 5W	26	SW SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	200-265			6.2-7.0	CRP

Geologic Problems Reported: Mining was stopped on the east and southeast sides by the Anvil Rock Channel.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Zeigler Coal Company	Zeigler No. 11	1976-1991	14,895,818
Old Ben Coal Company	Zeigler No. 11	1992-2003 *	22,158,865
Coulterville Coal Company	Gateway	2004-2006	4,721,378
Black Beauty Coal Company	Gateway	2007-2010	12,439,105
Peabody Midwest Mining	Gateway	2011-2015	<u>12,537,603</u>
			66,752,769

* Idle 1996

Last reported production: 2015

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 6-461N	3-29-2016	1:6000	1:6000	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness.
 Directory of Illinois Coal Mines (Randolph County) - Mine names, mine index, ownership, years of operation.
 Company map, Coal Section files, 6-461N - Slope & shaft locations, mine outline, mining method, geologic problems.

Mine Index 997
Arch of Illinois, Inc., Kathleen Mine

Type: Underground Total mined-out acreage shown: 1,397

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Drift (two) *	Perry	6S 4W	8	NE SW NW
Air drift (three) *	Perry	6S 4W	8	NE SW NW
Escape drift *	Perry	6S 4W	8	NE NE

* The drifts are off the highwall of the Captain Mine (mine index 873).

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	120			6.0	CRP with HER

Geologic Problems Reported: The roof was medium gray to black shale about 1 foot thick. Above the shale was limestone that averaged 3.5 feet thick. In some places the limestone pinched out, or became as thick as 5 feet. The roof was generally good, except in the East Main, where Energy Shale made the roof, and a 4-foot fall was observed. Energy Shale generally occurred in lenses, and sometimes had coal riders on one or more sides. The coal was flat-lying.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Carter Coal Corporation	Kathleen	1984-1988 **	858,175
Cutler Mining Company	Kathleen	1989-1992	4,051,004
Arch of Illinois, Inc.	Kathleen	1993-1995	<u>2,962,427</u>
			7,871,606

** Idle 1987 & 1988

Last reported production: 1995

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.P42 i5.1-81	2-1996	1:6000	1:6000	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Perry County) - Mine type, drift location, seam, depth, thickness, geologic problems.
 Company map, ISGS map library, 4103.P42 i5.1-81, sheets 1 & 2 - Drift locations, mine outline, mining method.

Mine Index 1012**Arch of Illinois, Inc., Horse Creek Mine**

Type: Surface Total mined-out acreage shown: 760 surface and 57 auger in Herrin Coal and 760 surface and 16 auger in Springfield Coal

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Perry	5S 4W	25	
Auger	Perry	5S 4W	24	

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Danville	40-127			2 *	Surface
Herrin	40-127			6.17 *	Surface
Springfield	40-127			4.0 *	Surface

* The thickness ranged from a low of 6.17 feet where Herrin alone was mined to a total of 12.5 feet. The Springfield and Danville Coal thicknesses are approximated.

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Arch of Illinois, Inc.	Horse Creek	1986-1994	<u>9,892,269</u> 9,892,269

Last reported production: 1994

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.P42 i5.1-77, sheet 1	3-1996	1:6000	1:6000	Final
NAIP digital ortho-photo quadrangle	2004	1:6000	1:6000	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

Mine notes (Perry County) - Mine location, seam.

Company map, ISGS map library, 41-3.P42 i5.1-77, sheet 1 - Mine outline, mining method.

National Agriculture Imagery Program map, digital ortho-photo quadrangle map, Pinckneyville Quadrangle, 2004 - Mine outline.

Mine Index 1036
Knight Hawk Coal, LLC, Prairie Eagle Surface Mine

Type: Surface Total mined-out acreage shown: 480

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit, north mine *	Perry	5S 4W	30	N ½ NE
Pit, south mine *	Perry	5S 4W	31	S ½

* The Prairie Eagle Mine operations are both north and south of a large pit of Streamline Mine (mine index 872).

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	70-110			6.0	Surface, auger
Springfield **				3.0	Surface, auger

** Mining is not shown on the accompanying map for the Springfield Coal, as the source maps do not clearly indicate where the Springfield Coal was mined.

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Knight Hawk Coal, LLC	Prairie Eagle Surface	2005-2014	<u>3,572,720</u> 3,572,720

Last reported production: 2014

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 6-426K	3-27-2019	1:6000	1:6000	Final
Company, 6-463D	3-19-2013	1:3600	1:3600	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Perry County) - Mine location.
 Company map, Coal Section files, 6-426K - Mine outline (north of Mine Index 1036), mining method.
 Company Map, Coal Section files, 6-463D - Mine outline (south of Mine Index 1036), mining method.

Mine Index 1041**Knight Hawk Coal, LLC, Prairie Eagle Underground Mine**

Type: Underground Total mined-out acreage shown: 7,002

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift, north mine	Perry	5S 4W	30	NE NE NW
Air drifts (3)	Perry	5S 4W	30	NE NE NW
Belt drift	Perry	5S 4W	30	NE NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	120			6.0	CRP

Geologic Problems Reported: Geologic problems are not reported for active mines.**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Knight Hawk Coal, LLC	Prairie Eagle Underground	2006- *	<u>44,982,479</u> *
			44,982,479

* Production includes tonnage through 2022, the latest available Coal Report.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 6-426N	3-15-2022	1:4800	1:4800	Not final

Annotated Bibliography (data source, brief description of information)

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

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

Mine notes (Perry County) - Drift location.

Company map, Coal Section files, 6-426N - Drift locations, mine outline, mining method.

Mine Index 1045**Knight Hawk Coal, LLC, Prairie Eagle South Underground Mine**

Type: Underground Total mined-out acreage shown: 537

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift, south mine	Perry	5S 4W	31	SW SW SE
Air drifts (2)	Perry	5S 4W	31	SW SW SE
Air drifts (2)	Perry	5S 4W	31	SE SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	120			6.0	CRP

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Knight Hawk Coal, LLC	Prairie Eagle South Underground	2009-2013	<u>3,441,745</u> 3,441,745

Last reported production: 2013

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 6-463D	3-19-2013	1:3600	1:3600	Not final *

* Outline shown on this map is likely final or near final.

Annotated Bibliography (data source, brief description of information)

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

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

Company map, Coal Section files, 6-463D - Drift locations, mine outline, mining method.

Mine Index 1051**Knight Hawk Coal, LLC, Blackhawk Mine**

Type: Surface Total mined-out acreage shown: 284

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Randolph	5S 5W	24	NW SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	75			6.5	Surface
Springfield	95			3.5	Surface

Geologic Problems Reported: Geologic problems are not reported for active mines.**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Knight Hawk Coal, LLC	Blackhawk	2012-2019	3,577,865 *
idle		2020-	none *
			3,577,865

* Production includes tonnage through 2022, the latest available Coal Report.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
NAIP	2020	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

Mine notes (Perry County) - Mine location.

National Agriculture Imagery Program map - Mine outline.

Mine Index 3124**Elm Grove Coal Company, Elm Grove Mine**

Type: Underground Total mined-out acreage shown: 20 The eastern part of the mine was later surface-mined by Burning Star No. 4 Mine (mine index 932).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	5S 4W	28	SW SW SW
Air shaft	Perry	5S 4W	28	SW SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	72			6.0-6.5	MRP

Geologic Problems Reported: A sinkhole 50 feet wide developed over the southeastern part of the mine. This area has subsequently been surface-mined.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Elm Grove Coal Company	Elm Grove	1933-1955 *	<u>110,386</u> 110,386

* Idle 1945 & 1953

Last reported production: 1955

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352096	3-4-1955	1:1200	1:1489	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 352096, reel 03138, frame 80 - Shaft locations, mine outline, mining method.

Mine Index 3125**Southern Gem Coal Corporation, Southern Gem No. 7 Mine**

Type: Underground Total mined-out acreage shown: 53 Production indicates approximately 13 acres were mined after the map date. The southern part of the mine was later surface-mined by Burning Star No. 4 Mine (mine index 932).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (8 x 14 ft)	Perry	5S 4W	34	SE SE SW
Air shaft (8 x 12 ft) *	Perry	5S 4W	34	SW SE SW

* The location is designated "old shaft" on the source map.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	73			6.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Allen Coal Company	Allen	1919-1920	10,266
Southern Gem Coal Corporation	Southern Gem No. 7 **	1920-1923	269,872
Southern Gem Coal Corporation	Southern Gem No. 7	1923-1925	66,510 ***
			346,648

** The mine was shown on a Coal Section field map as Grasshopper Mine.

*** Production after map date

Last reported production: 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352085	8-1923	1:1200	1:2151	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type.

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

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

Microfilm map, document 352085, reel 03138, frames 65 & 66 - Shaft locations, mine outline, mining method.

Mine Index 3126
Gillis Quarry, Mine No. 1310

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
Mine	Perry	5S 4W	34	NE SW SW

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Gillis Quarry	Mine No. 1310	1940-1940	<u>454</u> 454

Last reported production: 1940

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, mine type.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Perry County) - Mine location.

Mine Index 3127**Southern Gem Coal Corporation, Southern Gem No. 8 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
Main shaft	Perry	5S 4W	35	NW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	42			6.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Southern Gem Coal Corporation *	Southern Gem No. 8	1922-1923	<u>200</u> 200

* The mine notes indicate the mine may have also operated as Brewerton Coal Company, Brewerton No. 48 Mine. No production was listed under this name in the Coal Reports.

Last reported production: 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	10-1934	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Perry County) - Mine type, shaft location, seam, depth, thickness, mine ownership.

Federal Land Bank Report (Perry County) - Shaft location, mine outline.

Mine Index 3128**New Galum Coal Company, New Galum Mine**

Type: Underground Total mined-out acreage shown: 44 The mine was later partially surface-mined by Burning Star No. 4 Mine (mine index 932).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	5S 4W	35	SE SW NW
Air shaft	Perry	5S 4W	35	SE SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	51-57	5.5	6.0	5.75	MRP

Geologic Problems Reported: The source map showed an area in the extreme southern portion of the mine that was full of water. Another area in the southern part was labeled "squeezed". Three other areas along the central rib of the mine appear to be unmined; the reason is not shown.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Ring Coal Company	Ring	1933-1935	34,700
New Galum Coal Company	New Galum	1935-1942	196,079
			230,779

Last reported production: December 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352092	4-18-1943	1:1200	1:2234	Final

Annotated Bibliography (data source, brief description of information)

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

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

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

Microfilm map, document 352092, reel 03138, frame 76 - Shaft locations, mine outline, mining method, geologic problems.

Mine Index 3129**Barwell Coal Company, Barwell Mine**

Type: Underground Total mined-out acreage shown: 181, as a general area of mining Production indicates approximately 42 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	5S 4W	35	SE SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	71-110			6.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Barwell & Carter	Galum	pre1881-1882 *	5,328 *
Carter & Barwell	Galum	1882-1889	59,214
Barwell Coal Company	Barwell	1889-1891	23,751
Bryden Coal & Coke Company	Barwell	1891-1893	10,864
Barwell Coal Company	Barwell	1893-1894	1,200
Brown & Barwell	Brown & Barwell	1894-1899	119,340
Barwell Coal Company	Barwell	1899-1901	9,450
			<u>229,147</u>

* Production and years of operation before 1882 are not known. The 1882 Coal Report indicates 9 acres were mined.

Last reported production: 1901

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	10-1937	1:126720	1:126720	Secondary source

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 (Perry County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Perry County) - Shaft location, seam.
 Federal Land Bank Report (Perry County) - Shaft location, mine outline.

Mine Index 3180**New Cutler Coal Company, New Wilson Mine**

Type: Underground Total mined-out acreage shown: 408 The extreme northern part of the mine was later surface mined by Burning Star No. 4 Mine (mine index 932).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 4W	4	SW NW NE
Air shaft	Perry	6S 4W	4	SW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	120			6.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Wilson Coal & Mining Company	Wilson	1921-1931	596,745
Cutler Coal Company	New Wilson	1932-1960 *	1,729,187
New Cutler Coal Company	New Wilson	1961-1963 **	1,662
			<u>2,327,594</u>

* Idle 1957-1960

** Idle 1962

Last reported production: 1963

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352091	4-12-1966	1:2400	1:4634	Final
Microfilm, document 352091	1953	1:2400	1:5131	Not final ***

*** The map date is 10 years before the mine closed, but the map is probably final for the northern portion of the mine. The mined area shown on the accompanying map is the approximate size expected for the reported production. This suggests that the mine outline is complete.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 352091, reel 03138, frame 73 - Shaft locations, mine outline (southern portion), mining method.

Microfilm map, document 352091, reel 03138, frame 74 - Mine outline (northern portion).

Mine Index 3181**Alladin Coal & Mining Company, Alladin No. 1 Mine**

Type: Underground Total mined-out acreage shown: 121 Production indicates approximately 24 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 4W	6	SE SW SE
Air shaft	Perry	6S 4W	6	SE SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	114			5.67	MRP

Geologic Problems Reported: The roof was 0 to 3 feet of white top, with 4 to 20 inches of black shale above, topped by 2 to 9 feet of limestone. The black shale contained coal balls. The white top was full of slips and rolls.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William Barnard	Barnard	1896-1899	41,635
Soper & Company	Barnard	1899-1905	225,929
William Barnard	Barnard	1905-1907 *	28,428
Johnson & Allen Coal Company	Barnard	1907-1912	266,425
King City Coal & Mining Company	Barnard	1912-1913	16,816
Soper & White Mining Company	Barnard	1913-1914	19,500
Soper Coal Company	Barnard	1914-1917	52,675
Soper Coal Company	Barnard	1917-1919	83,530 **
Alladin Coal & Mining Company	Alladin No. 1	1919-1921	37,670 **
			<u>772,608</u>

* Idle 1907

** Production after map date

Last reported production: June 1921

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352126	8-22-1917	1:2400	1:2979	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 352126, reel 03138, frame 132 - Shaft locations, mine outline, mining method.

Mine Index 3193
Moffat Coal Company, Moffat No. 2 Mine

Type: Underground Total mined-out acreage shown: 2,002

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Randolph	5S 5W	4	NE SW SE
Man & material slope	Randolph	5S 5W	4	NE SW SE
Air shaft	Randolph	5S 5W	4	NW SE SE
Air shaft	Randolph	5S 5W	4	NW SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	88-100			6.0-6.5	RPP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Moffat Coal Company	Moffat No. 2	1939-1956	<u>9,224,668</u> 9,224,668

Last reported production: February 28, 1956

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353366	2-28-1956	1:2400	1:4800	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness.
 Directory of Illinois Coal Mines (Randolph County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Randolph County) - Mine type, slope location, seam.
 Microfilm map, document 353366, reel 03142, frames 368-371 - Slope & shaft locations, mine outline, mining method.

Mine Index 3201**Sparta Coal Company, Sparta No. 2 Mine**

Type: Surface 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
Pit	Randolph	5S 5W	23	SW SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Sparta Coal Company *	Sparta No. 2	1958-1959	<u>550</u> 550

* owned by H. B. Whittington

Last reported production: May 1959

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 (Randolph County) - Mine names, mine index, ownership, years of operation.

Mine notes (Randolph County) - Mine type, mine location, seam.

Mine Index 3226**Willis Coal Mining Company, Willis No. 5 Mine**

Type: Underground Total mined-out acreage shown: 80 Not shown on accompanying map because of later surface mining by Streamline Mine (mine index 872). Production indicates approximately 10 acres were mined. It is likely the mine was worked by other operators before 1903 or after 1904 (see the unlocated mines at the back of this report).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	6S 5W	11	NW SE NW
Air shaft	Randolph	6S 5W	11	NW SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	28				MRP

Geologic Problems Reported: The source map shows that southward expansion was halted because of bad roof conditions.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Willis Coal Mining Company	Willis No. 5	1903-1904	<u>35,166</u> 35,166

Last reported production: 1904

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353352	8-1923	1:2400	1:4303	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 353352, reel 03142, frame 348 - Shaft locations, mine outline, mining method, geologic problems.

Mine Index 3227**General Madison Miller, Miller Mine**

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined. This mine is not shown on the accompanying map because of later surface mining by Streamline Mine (mine index 872).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	6S 5W	14	NE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	50-57			5.5-6.0	

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
General Madison Miller	Miller	pre1876-1882 *	2,360 *
			2,360

* Production and years of operation before 1876 are not known. The 1879 Coal Report indicates 6 acres were mined.

Last reported production: 1882

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	7-1934	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

ISGS field notes (Randolph County) - Mine location, mine name.

Atlas of Illinois, 1876, Warner & Beers, Chicago, Illinois - Shaft location, years of operation.

Mine Index 3228**John & George Meyers, Meyers Mine**

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined. This mine is not shown on the accompany map because of later surface mining by Streamline Mine (mine index 872).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	6S 5W	14	NW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	43			5.0-6.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Myers	Myers	1895-1898	900
Henry Dean	Dean	1898-1899	300
John & George Meyers	Meyers	1899-1904 *	<u>2,890</u>
			4,090

* A photograph taken circa 1915 shows an active mine, and states the owner is John Meyer. The Coal Reports do not list production under that name in 1915. The operating name may have differed (see the unlocated mines at the back of this report), or the date of the photograph may have been incorrect.

Last reported production: 1904

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (G. H. Cady)	1915	(text only)	1:24000 **	Secondary source
Federal Land Bank Report	7-1934	1:126720	1:126720	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, thickness, mining method.

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

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

ISGS field notes (G. H. Cady, circa 1915) - Mine location, mine type.

Federal Land Bank Report (Randolph County) - Shaft location, mine outline (general area of mining).

Mine Index 3229
John Risry, Risry 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
Main shaft	Randolph	6S 5W	14	NE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	51			6.0	

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Risry *	Risry	1929-1929 **	<u>1,800</u> 1,800

* The name may be John Rury.

** The mine was shown in a photograph included in the ISGS field notes. The photograph shows an active mine and was taken circa 1915. This would indicate previous operators to John Risry (see the unlocated mines at the back of this report) and a larger production than shown above.

Last reported production: 1929

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	7-1934	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Federal Land Bank Report (Randolph County) - Shaft location.

Mine Index 3230
Crain Coal Company, Crain Mine

Type: Underground Total mined-out acreage shown: 31 The mine is smaller than expected for the reported production. Production indicates approximately 50 acres were mined. The coal may be thicker than reported, and pillar extraction may have taken place.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Randolph	6S 5W	14	NE SE NW
Air shaft	Randolph	6S 5W	14	NE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	37			6.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Crain & Welshan	Crain & Welshan	1923-1925	5,704
Crain Coal Company	Crain	1925-1954	<u>234,729</u>
			240,433

Last reported production: 1954

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353351	4-21-1955	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Randolph County) - Mine type, seam, depth, thickness.

Microfilm map, document 353351, reel 03142, frame 347 - Slope & shaft locations, mine outline, mining method.

Mine Index 3231
Percy Coal Company, Percy Mine

Type: Underground Total mined-out acreage shown: 32 The mine is smaller than expected for the reported production, which would indicate approximately 52 acres were mined. The coal may have been thicker than reported, and pillar extraction may have been practiced.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	6S 5W	14	NW NE NW
Air shaft	Randolph	6S 5W	14	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	52			4.67	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Rury & Rury	Rury	1912-1914	6,720
Syndicate Mining Company	Rury	1914-1915	12,000
John A. Rury	Rury	1915-1917	7,600
Rury & Brothers	Rury	1917-1918	4,800
Rury Coal Company	Rury	1918-1920	9,500
Syndicate Mining Company *	Syndicate	1920-1940 **	174,259
Percy Coal Company	Percy	1941-1941	3,532
			218,411

* The mine was also known as Lemming & Blair.

** Mines producing less than 10,000 tons were not reported in 1922.

Last reported production: 1941

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353340	4-6-1942	1:1200	1:1737	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 353340, reel 03142, frame 324 - Shaft locations, mine outline, mining method.

Mine Index 4421
Solomon Maynard, Maynard 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
Main shaft	Perry	5S 4W	31	SW SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	102-110			6.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Solomon Maynard	Maynard	1889-1893	<u>1,540</u> 1,540

Last reported production: 1893

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files, 6-463D	3-19-2013	1:3600	1:3600	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Perry County) - Mine type, shaft location.
 Coal Section files, 6-463D, map of Prairie Eagle South Underground Mine (mine index 1045) - Shaft location.

Mine Index 4427
Hunter Alexander, Alexander Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 2 acres were mined. This mine is not shown on the accompanying map because of later surface mining by Captain Mine (mine index 873)

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Slope	Perry	6S 4W	16	SE NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	21				Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
M. F. Snooks	Snooks	1919-1920	150
Carter Coal Company	Carter	1920-1927 *	4,059
Bingham & Son	Bingham	1928-1928	990
Carter Coal Company	Carter	1929-1931 **	930
Hunter Alexander	Alexander	1932-1932	<u>1,394</u>
			7,523

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

** Production was not reported in 1930 & 1931 for mines producing less than 1,000 tons per year

Last reported production: 1932

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. E. Culver)	1921-1924	(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. A microfilm map exists, but the map can not be registered to land surface features, and is unusable. However, the map date (7-19-1926) enables the linking of mine production to the location.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Perry County) - Mine type, slope location, depth.
 Microfilm map, document 352139, reel 03138, frame 154 - Mine ownership, date of operation.

Mine Index 4428**Willis Coal & Mining Company, Willis Mine**

Type: Underground Total mined-out acreage shown: 30 Production indicates approximately 1 acre was mined. Other operators may have worked the mine previously (see the unlocated mines at the back of this report).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	6S 5W	13	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	85			5.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Willis Coal & Mining Company	Willis	1894-1895	<u>5,200</u> 5,200

Last reported production: 1895

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
WPA, T6S-R5W	circa 1934	1:120000	1:120000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation.
 WPA map, T6S-R5W - Shaft location, mine outline.

OTHER MINES SHOWN ON PERCY QUADRANGLE

Mine Index 3178, Freeman Slope * SW NW NW 2-T6S-R4W, slope, Herrin Coal source: WPA map, T6S-R4W (circa 1934)
Mine Index 3200 SE SE SW 23-T5S-R5W, slope, Herrin Coal source: ISGS field notes (H. R. Wanless, 9-2-1931) & Federal Land Bank Report (Randolph County)
Mine Index 4342 * NE NE NW 25-T5S-R5W, Herrin Coal source: Federal Land Bank Report (Randolph County)
Mine Index 4343 NW SE SW 35-T5S-R5W, slope, Herrin Coal, 11 feet deep, 6 feet thick source: Federal Land Bank Report (Randolph County) & ISGS field notes (G. H. Cady, circa 1915)
Mine Index 4344 NE NE NE 2-T6S-R5W, slope, Herrin Coal source: ISGS field notes (G. H. Cady, 1915) & field map in ISGS map library, 4107 d5-85
Mine Index 4345, Harris Mine * NW NW SE 8-T6S-R4W, shaft source: WPA map, T6S-R4W (circa 1934)
Mine Index 4346 * SE SE NW 1-T6S-R5W, Herrin Coal source: Coal Section files, 1950 mined-out area map
Mine Index 4347 * SE SE SW 1-T6S-R5W, Herrin Coal source: Coal Section files, 1950 mined-out area map
Mine Index 4351 NE NE SW 11-T6S-R5W, shaft & air shaft, Herrin Coal source: Microfilm, document 353352, reel 03142, frame 348 (8-1923), map of Willis No. 9 Mine (mine index 229)
Mine Index 4352 NW NW NE 14-T6S-R5W, Herrin Coal source: Coal Section files, 1950 mined-out area map
Mine Index 4353 * NE SE SE 14-T6S-R5W, Herrin Coal source: WPA map, T6S-R5W (circa 1934)
Mine Index 4354 * NW SE SE 14-T6S-R5W, Herrin Coal source: WPA map, T6S-R5W (circa 1934) & Atlas of Illinois (1876)
Mine Index 4356, Miller Mine * NE SE SW 14-T6S-R5W, shaft, Herrin Coal source: WPA map, T6S-R5W & 1876 Atlas of Illinois
Mine Index 7370 NE NW SW 14-T6S-R5W, Herrin Coal source: Atlas of Illinois (1876)
Mine Index 7372 NE SW SE 23-T5S-R5W, Herrin Coal source: Atlas of Illinois (1876)
Mine Index 7373 NW NE NW 18-T6S-R4W, Herrin Coal source: ISGS map library, 4107 c3-25, sheet 2 (plane table map, W. B. Roe)
Mine Index 7377 SW SE SW 23-T5S-R5W, slope, Herrin Coal source: ISGS field notes (H. R. Wanless, 9-2-1931)
Mine Index 7378 SE SE SE 32-T5S-R4W, shaft, Herrin Coal source: ISGS field notes (L. C. McCabe, 8-20-1929)

* Not shown on accompanying map because of later surface mining

MINES WHOSE LOCATIONS ARE NOT KNOWN, PERCY 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 Percy 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 367,369 (364,807 underground and 2,562 mined by uncertain method), which would represent approximately 63 to 100 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres) However, in this area, some or all of these unlocated mines may have later been removed by surface mining.

CUTLER

Rosendorf (Fred), 1895-1898, shaft, Herrin, 40, 5.5, RP	1,390 tons
Cunningham (C. A.), 1898-1899	400 tons
Cunningham (R. G.), 1899-1900	<u>450 tons</u>
	2,240 tons

PERCY

Barnard Coal Company, 1878-1890, shaft, —, 85-100, 5.25-7.0, RP	146,587 tons
Barnard & Goalby, 1892-1895, shaft, Herrin, 82-92, 6.0-6.5, RP	20,933 tons
Barnard (William), 1895-1896	<u>7,250 tons</u>
	28,183 tons
Soper (Ben), 1882-1883, shaft, Herrin, 50, 6.0	800 tons
Cross & Oph, 1882-1883, shaft, Herrin, 50, 6.0	2,000 tons
Dean & Hopper, 1887-1889	2,562 tons
Little Muddy Coal & Mining Company, 1889-1897, shaft, Herrin, 70, 6.0-6.5	115,784 tons
Deans Coal & Mining Company, 1897-1898	17,576 tons
Borders (William), 1898-1901	<u>48,092 tons</u>
	181,452 tons
Brown & Uho, 1891-1892, shaft, Herrin, 35, 6.0, RP	20 tons
Stramyer (Dietrich), 1895-1899, shaft, —, 18-20, 5.0-6.0, RP	3,025 tons
Briggman (Evan), 1912-1913, shaft, Herrin, 39, 6.0, RP	500 tons

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