

Herrin Coal

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

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

- * 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

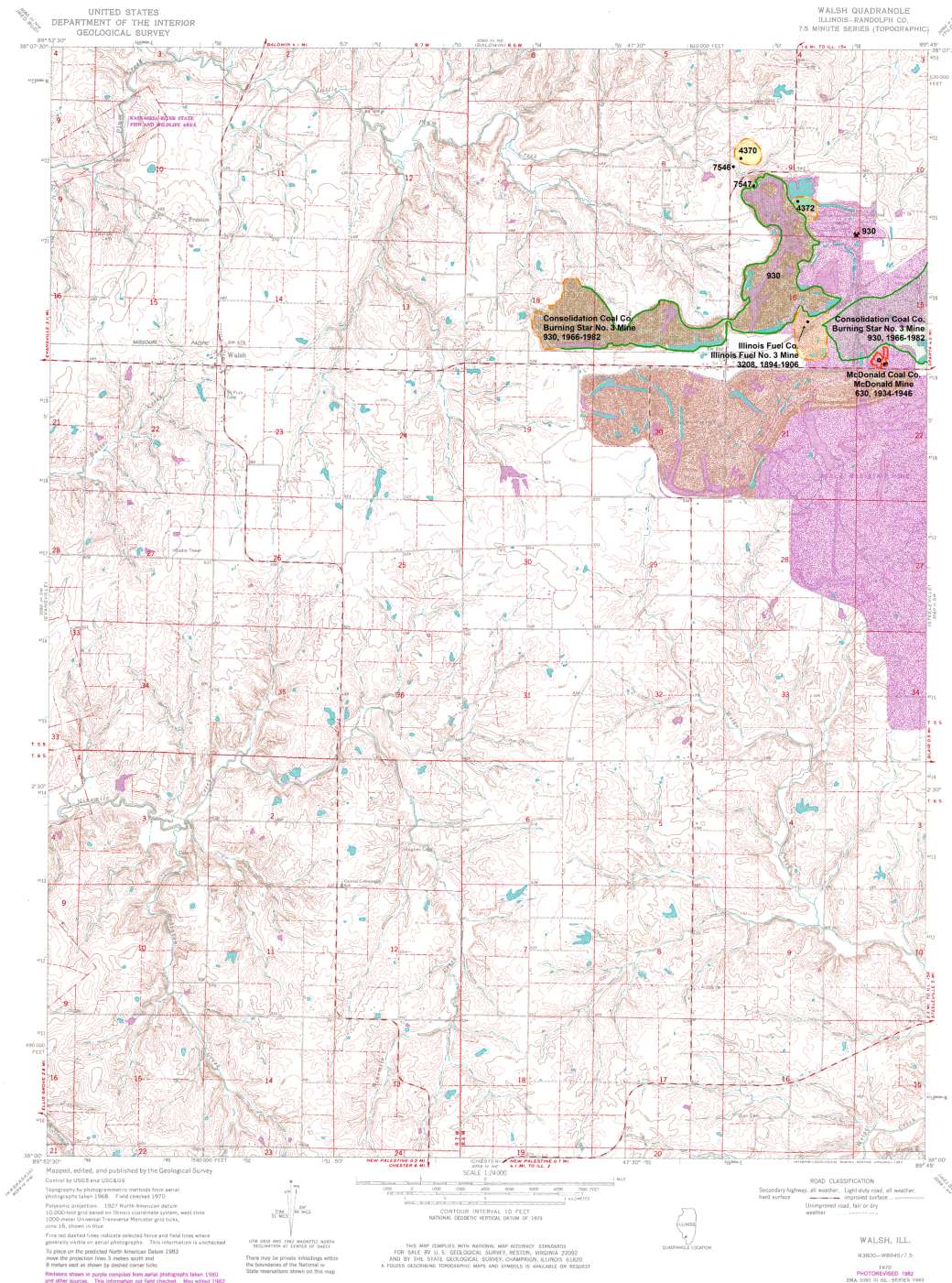
Company
Mine Name
ISGS Index No., Years of Operation

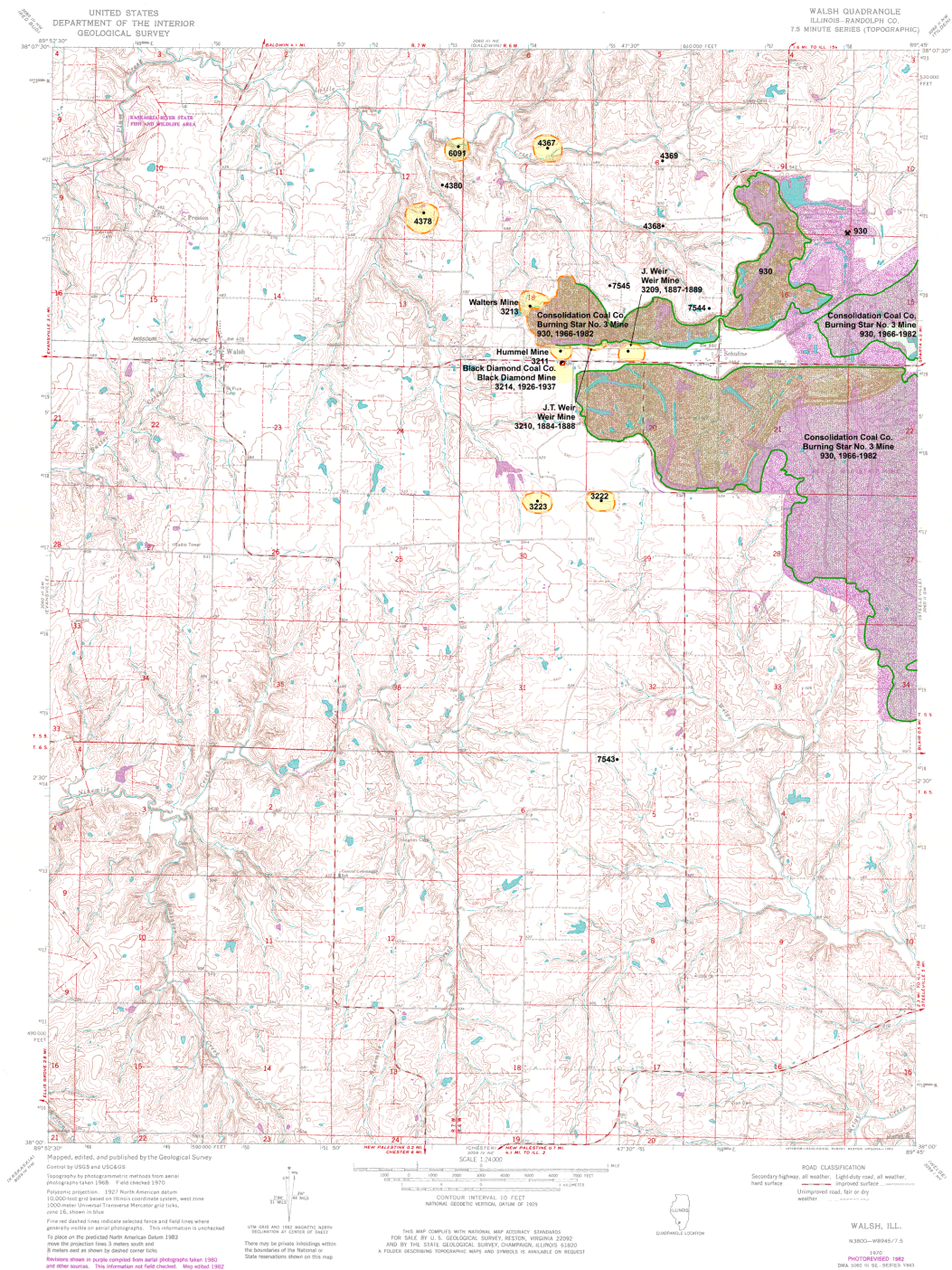
Please check the Coal Section at the Illinois State Geological Survey's web site at <http://www.isgs.illinois.edu> for the most up-to-date version of these products.

The maps and digital files 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 engineering or decision-making. Use of these data for purposes not intended by the compiler is at the user's risk. The compiler does not warrant the Illinois State Geological Survey, Prairie Research Institute, or the University of Illinois make any representation, 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 undetermined; 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.





Coal Mines in Illinois Walsh Quadrangle

Randolph County, Illinois

Springfield Coal & other coals

This map accompanies the Coal Mines Directory for the Walsh Quadrangle and map of mines in the Herrin Coal, Walsh 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
- 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

Please check the Coal Section at the Illinois State Geological Survey's web site at <http://www.isgs.uiuc.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.

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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
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February 6, 2013

DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

WALSH QUADRANGLE

RANDOLPH COUNTY

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2013

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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 WALSH QUADRANGLE

According to Randolph County Notes, mining began in the Walsh Quadrangle around 1840. The Herrin Coal was very shallow near the subcrop, and west and north of the Herrin subcrop, another coal was very near the surface. Coal could be obtained by scraping off the thin layer of soil in some places or by drift entrances to mines along streams. Some of the small mines are known to have had bad roof conditions, most likely as a result of their shallow depth. Many small mines operated in 9-T5S-R6W, most of which were removed from the landscape by the large machinery of the Burning Star No. 3 Mine (mine index 930) after 1966. Burning Star No. 3 Mine was a large surface mine that worked both the Herrin and Springfield Coals over several miles.

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

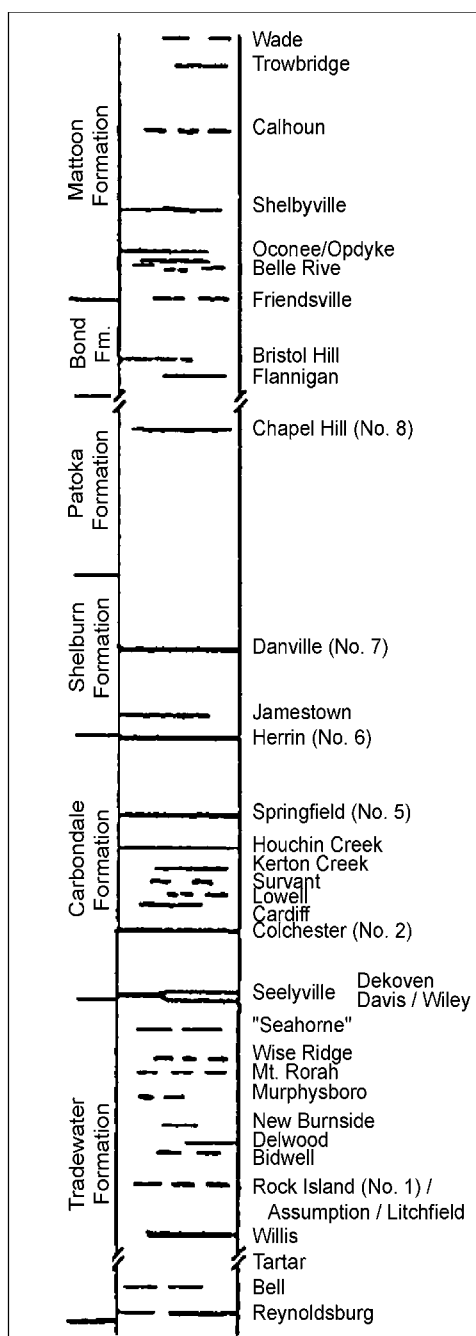


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

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

Allen, John W., 1944, Randolph County Notes with illustrated map by Loraine Waters, Museum of Natural & Social Sciences, Southern Illinois Normal University, 18p.

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, Chicago, Illinois.

PART II DIRECTORY OF MINES IN THE WALSH QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Walsh 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 630

McDonald Coal Company, McDonald Mine

Type: Underground Total mined-out acreage shown: 7 Production indicates approximately 7 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	5S 6W	15	SE SW SW
Air shaft	Randolph	5S 6W	15	SE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	69	4.33		5.67	MRP

Geologic Problems Reported: The roof was 11 feet of limestone above 10 feet of shale. The coal was thickest near the shaft and thinned in the northern entries. Many lenses and bands of pyrite were noted in the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Welshans & West	Welshans & West	1934-1934	1,006
H. M. Welshans Coal Company	Welshans	1935-1938	7,463
Schuline Coal Company	Schuline	1938-1940	7,788
New Schuline Coal Company	Schuline	1940-1940	1,400
New Schuline Coal Company	Schuline	1940-1940	1,400 *
McDonald, Waddel & Wells	McDonald, Waddel & Wells	1941-1941	3,662 *
Schuline Coal Company	Schuline	1942-1943 **	4,512 *
New Schuline Coal Company	Schuline	1944-1946	8,221 *
McDonald Coal Company	McDonald	1946-1946	1,585 *
			37,037

* Production after map date

** Idle 1943

Last reported production: 1946

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353346	4-10-1940	1:2400	1:2151	Not 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, geologic problems.

ISGS field notes (E. T. Benson, 1935) - Depth, thickness, geologic problems.

Microfilm map, document 353346, reel 03142, frame 336 - Shaft locations, mine outline, mining method.

Mine Index 930
Consolidation Coal Company, Burning Star No. 3 Mine

Type: Surface Total mined-out acreage shown: 3,562

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Randolph	5S 6W	9	SE SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	25-30 *			5.75	Surface
Springfield	20-30			4.67	Surface

* Some pits mined only Herrin Coal or only part of the pit had both seams worked, while pits south of the tipple mined only Springfield Coal.

Geologic Problems Reported: A number of small underground mines in SE 22-T5S-R6W were mined through. These underground mines were 18 to 25 feet deep. The roof over the Herrin Coal had a sharp contact with the coal. The Herrin Coal had a lot of white calcite on the cleats and vertical fracture facings and pyrite in small veinlets and small lenses. The overburden on the Springfield Coal included 5 feet of limestone above 18 inches of fissile carbonaceous black shale. The Springfield Coal had a lot of visible pyrite in the form of finely crystalline cleat fillings and thick pyrite lenses and band up to 2 inches thick. The pyrite lenses and bands were especially noticeable about 20 inches above the base of the coal. The Springfield Coal had a sulfur content of about 3.5%. The sulfur content of the Herrin Coal was about 3%.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Truax Traer Coal Company	Burning Star No. 3	1966-1970	7,550,740
Consolidation Coal Company	Burning Star No. 3	1971-1982	13,317,078 **
			20,867,818

** Table 10 of the 1982 Coal Report listed 791,501 tons production for Burning Star No. 3, while Table 13 (Physical and Mechanical Characteristics of Shipping Mines) showed 1982 production was 792,067 tons. The Production of All Mines, Table 10, value was used for this tally. If the Table 13 value is the correct value, total production would be 20,868,384 tons.

Last reported production: 1982

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, Coal Section files, 6-403	9-1982	1:11842	1:11842	Final
USGS topographic map, Walsh	1970, PR 1982	1:24000	1:24000	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, seam, depth, thickness, geologic problems.
 Company map, Coal Section files, 6-403 - Mine location, mine outline, mining method.
 USGS 7.5-minute topographic map, Walsh Quadrangle, 1970, photorevised 1982 - Mine outline.

Mine Index 3208**Illinois Fuel Company, Illinois Fuel No. 3 Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 55 acres were mined. A 66-acre general area of mining from the Federal Land Bank Report is shown on the accompanying map, which may not be in the configuration or orientation of the actual workings.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	5S 6W	16	SW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	40			5.0-6.0	RP

Geologic Problems Reported: The mine was said to have had a poor roof, shale that tended to come down without a limestone caprock.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
R. H. Roseborough	Roseborough No. 3	1894-1895	6,151
Randolph Coal & Coke Company	Randolph No. 3	1895-1897	5,610
Illinois Fuel & Power Company	Illinois Fuel No. 3	1897-1900	58,892
Illinois Fuel Company	Illinois Fuel No. 3	1900-1906	<u>202,134</u>
			272,787

Last reported production: 1906

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, mine tpe, seam, thickness, mining method.
 Directory of Illinois Coal Mines (Randolph County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Randolph County) - Depth.
 ISGS field notes (Randolph County) - Shaft location, geologic problems.
 Federal Land Bank Report (Randolph County) - Shaft location.

Mine Index 3209
J. Weir, Weir Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 1 acre was mined. The general area of mining shown on the accompanying map was much larger than the underground mine would have been, and the Weir Mine may be entirely removed by the later surface mining of Burning Star No. 3 Mine (mine index 930). However, the location of the slope and workings of the Weir mine is known in such a general way that the location designation remains on the accompanying map.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Randolph	5S 6W	17	SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	40			3.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. Weir	Weir	1887-1889	<u>2,584</u> 2,584

Last reported production: 1889

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) - Slope location, depth, thickness.
 Federal Land Bank Report (Randolph County) - Mine location.

Mine Index 3210
J. T. Weir, Weir Mine

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

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Randolph	5S 6W	17	NW SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	30-40			4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. T. Weir	Weir	1884-1888	<u>10,122</u> 10,122

Last reported production: 1888

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, mine type, mining method.
 Directory of Illinois Coal Mines (Randolph County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Randolph County) - Slope location, seam, depth, thickness.
 Federal Land Bank Report (Randolph County) - Shaft location, general area of mining.

Mine Index 3212**Roy McMillain & Company, Beattie Mine**

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined. Not shown on accompanying map because of later surface mining by Burning Star No. 3 Mine (mine index 930).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft	Randolph	5S 6W	18	SW NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	24-35			4.5	Underground

Geologic Problems Reported: The major mining difficulty was with the roof shale, a black to dark gray shale that was fissile in places and in other areas (particularly on the northern side of the mine) was sooty and bothersome. The sooty shale came down when the coal was mined. The fissile shale slaked and fell and was gobbled in the mine. Water came in, but a day's inflow could be pumped out in an area, and so caused little difficulty. The coal was thinner at the shaft than north and east of the shaft. Low rolls were encountered on the main east. Rooms were planned between rolls to avoid the thinnest coal. The coal was very soft, and little visible pyrite was present.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Roy McMillain & Company *	Beattie	1918-1920	<u>500</u> 500

* The name was listed in the field notes as Roy McMillain.

Last reported production: 1920

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 type, shaft location, seam, depth, thickness.
 ISGS field notes (H. E. Culver, 1923) - Mine type, mine operator, seam, geologic problems.
 Federal Land Bank Report (Randolph County) - Shaft location.

Mine Index 3213
Walters Mine

Type: Underground Total mined-out acreage shown: None; a general area of mining includes this as well as other small mines that may have operated in the vicinity, such as a small surface mine in SW SW NE 18-T5S-R6W noted in the field notes.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Slope	Randolph	5S 6W	18	NW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	14			4.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Walters	Walters	Unknown	Unknown

Last reported production:

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)

Directory of Illinois Coal Mines (Randolph County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Randolph County) - Mine location, mine name, mine type, seam, depth, thickness.
 Federal Land Bank Report (Randolph County) - Slope location, mine outline, mining method.

Mine Index 3214**Black Diamond Coal Company, Black Diamond Mine**

Type: Underground Total mined-out acreage shown: Less than 1; production indicates less than 1 additional acre was mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	5S 6W	19	NW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	28-32	3.5	5.0	4.5	RPB

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Keinen Coal Company	Keinen	1926-1926	268
Heinen Coal Company	Heinen	1927-1927	1,900
George E. Adamson	Adamson	1928-1933 *	130 *
Black Diamond Coal Company	Black Diamond	1934-1937	<u>1,713</u> **
			4,011

* Idle 1929. Production was not reported from 1930 to 1933 for mines producing less than 1,000 tons per year.

** Production after map date

Last reported production: 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State Archive, MSHA_174_01	8-1933	1:600	1:600	Not final

Annotated Bibliography (data source, brief description of information)

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

State Archive, MSHA_174_01, courtesy Robert Gibson, IDNR - Shaft location, mine outline, mining method.

Mine Index 3218
Economy Coal & Mining Company, Economy Mine

Type: Underground Total mined-out acreage shown: 16 Production indicates less than 1 acre was mined after the map date. The mine is not shown on the accompanying map because of later surface mining by Burning Star No. 3 Mine (mine index 930).

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	5S 6W	27	SW SE SW
Air shaft	Randolph	5S 6W	27	SW SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	37-40			5.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. W. Bixby	Bixby	1905-1926 *	46,596
Harris & Robertson	Harris & Robertson	1927-1935	25,599
Mottin & Layman	Mottin & Layman	1936-1936	400
Economy Coal & Mining Company	Economy	1937-1939	1,487
Mabel Foelsch	Economy	1940-1940	813 **
Economy Coal & Mining Company	Economy	1941-1942	<u>1,949</u> **
			76,844

* Idle 1907; mines producing less than 10,000 tons were not reported in 1922.

** Production after map date

Last reported production: 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353345	8-21-1940	1:2400	1:988	Not 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, document 353345, reel 03142, frame 335 - Shaft locations, mine outline, mining method.

Mine Index 3221
Otto Kloth, Kloth Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined. Not shown on accompanying map because of later surface mining by Burning Star No. 3 Mine (mine index 930).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	5S 6W	28	NE NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	38			5.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Otto Kloth	Kloth	1932-1932	<u>1,400</u> 1,400

Last reported production: 1932

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 Report (Randolph County) - Shaft location.

Mine Index 3223
Elizabeth Blair, Blair Mine

Type: Underground Total mined-out acreage shown: None

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	5S 6W	30	NW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Unknown	32			4.0	Underground

Geologic Problems Reported: The mine was reputed to have a poor roof and bad water conditions.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Elizabeth Blair *	Blair	circa 1885	Unknown

The source for the mine owner is the field notes, G. F. Moulton, who indicated the mine operated about 40 years previously. The land owner in 1925 when Moulton did field work in the area was Elizabeth V. Blair (the 1919 Atlas indicates the land owners were Elizabeth and George Blair). The name or company that the mine operated under is not known.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	7-1934	1:126720	1:126720	Secondary source
ISGS field notes (G. F. Moulton)	circa 1925	(text only)	1:62500	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.
 Federal Land Bank Report (Randolph County) - Shaft location.
 ISGS field notes (Randolph County) - Depth, geologic problems.

Mine Index 3224**Enterprise Coal Company, Enterprise Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 3 acres were mined. Not shown on accompanying map because of later surface mining by Burning Star No. 3 Mine (mine index 930)

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Randolph	5S 6W	34	NE NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	35-40			5.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Leonidas McDonough	McDonough	1885-1890 *	4,556
William McDonald	McDonald	1890-1891	1,600
Joseph E. Dobbins	Dobbins	1891-1893	1,353
Fellows & Dobbins	Fellows & Dobbins	1893-1894	40
Enterprise Coal Company	Enterprise	1894-1898	<u>4,337</u>
			11,886

* Idle 1887

Last reported production: 1898

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, mine type, mining method.

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

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

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

Mine Index 4370
George Gerlach, Gerlach Mine

Type: Underground Total mined-out acreage shown: 20-acre general area of mining; production indicates approximately 4 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Randolph	5S 6W	9	SW SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	35-140			5.0-6.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George Gerlach	Gerlach	1887-1898	17,183
			17,183

Last reported production: 1898

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (G. F. Moulton)	1925	(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. The digitized location coincided with a general area of mining on the Federal Land Bank Report, which does not identify the mine owner.

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 (Randolph County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Randolph County) - Mine location, mine type.
 Federal Land Bank Report (Randolph County) - Slope location, general area of mining.

Mine Index 7305
Homer Hayer, Hayer Mine

Type: Underground Total mined-out acreage shown: Not shown on the accompanying map because of later surface mining by Burning Star No. 3 Mine (mine index 930). Production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft	Randolph	5S 6W	9	NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	16				Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Homer Hayer	Hayer	1918-1919	120 120

Last reported production: 1919

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes	7-20-1939	(text only)	1:24000 *	Secondary source

* The mine location was plotted on a 1:24000 USGS topographic map from the mine location description. In this case, the area had later been surface mined, so the point location was not 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, shaft location.
 ISGS field notes (Randolph County) - Owner, depth.

OTHER MINES SHOWN ON WALSH QUADRANGLE

Mine Index 3211, F. Hummel Mine SW SE SE 18-T5S-R6W, shaft, Springfield Coal, 24 feet deep, 4.5-5.5 feet thick source: Mine notes and ISGS field notes (W. B. Goddard, 1925) and Federal Land Bank Report (7-1934)

Mine Index 3222 NW NW NW 29-T5S-R6W, shaft, 32 feet deep, poor roof source: ISGS field notes (G. F. Moulton, 7-20-1925 and Federal Land Bank Report (7-1934)

Mine Index 4367 NE SW NE 7-T5S-R6W source: Federal Land Bank Report (7-1934)

Mine Index 4368 SW SW SE 8-T5S-R6W source: Coal Section mine database

Mine Index 4369 SW SW NE 8-T5S-R6W source: Mine notes (E. F. T., undated)

Mine Index 4371 * NW SE SW 9-T5S-R6W, shaft, Herrin, 30 feet deep, 5.5 feet thick source: Mine notes (E. F. Taylor, 7-20-1939) & ISGS field notes (G. H. Cady, 1927)

Mine Index 4372 SW NW SE 9-T5S-R6W, Herrin Coal source: Federal Land Bank Report (7-1934)

Mine Index 4376 * NE NE SE 28-T5W-R6W source: Federal Land Bank Report (7-1934)

Mine Index 4377 * NW NW SE 28-T5S-R6W source: Coal Section mine database

Mine Index 4378 N ½ SW SE 12-T5S-R7W source: Federal Land Bank Report (7-1934) and ISGS field notes (G. H. Cady, 1927)

Mine Index 4380 NW NE SE 12-T5S-R7W, slope, 35-40 feet deep source: Mine notes and ISGS field notes (G. F. Moulton, circa 1925)

Mine Index 6091 SE NE NE 12-T5S-R7W source: Federal Land Bank Report (7-1934)

Mine Index 7543 NE NW NW 5-T6S-R6W, test shaft, 14 feet deep, 4.0 feet thick source: ISGS field notes (G. H. Cady, 11-1-1930)

Mine Index 7544, Nick Schuline Mine NE SE 17-T5S-R6W, Springfield Coal source: ISGS field notes (G. F. Moulton, circa 1925)

Mine Index 7545 SE SW NW 17-T5S-R6W, Springfield Coal source: Atlas of Illinois (1876)

Mine Index 7546 SW SW NW 9-T5S-R6W, old surface mine, Herrin Coal source: ISGS field notes (H. E. Culver, circa 1923 and H. R. Wanless, 8-29-1931)

Mine Index 7547 NE NW SW 9-T5S-R6W, old surface mine, Herrin Coal source: ISGS field notes (G. H. Cady, 1927) and ISGS map library, 4107 d5-86 (work map on USGS 15-minute Baldwin Quadrangle)

* Not shown on accompanying map because of later surface mining

MINES WHOSE LOCATIONS ARE NOT KNOWN, WALSH 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 Walsh 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 9,535 (all underground), which would represent approximately 517 to 785 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

BLAIR

Morris & Dobbins, 1883-1884, shaft, Springfield, 20-36, 4.5-5.0, RP	700 tons
Dobbins (J. E.), 1884-1885	1,200 tons
Atchinson (John L.), 1885-1887	1,700 tons
Morris (A. R.), 1887-1889	<u>1,883</u> tons
	5,483 tons
Weir & Lively, 1890-1891, shaft, Herrin, 22-70, 5.0-6.0, RP	124 tons
Lively (W. M. & J. S.), 1891-1893	988 tons
Wilson (John B.), 1893-1894	<u>1,440</u> tons
	2,552 tons

WALSH

Machinck (Alfred), 1928-1928, underground

1,500 tons

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