

Coal Mines in Illinois
Centralia West QuadrangleMarion, Clinton & Washington
Counties, Illinois

This map accompanies the Coal Mines Directory for the Gillespie North 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.

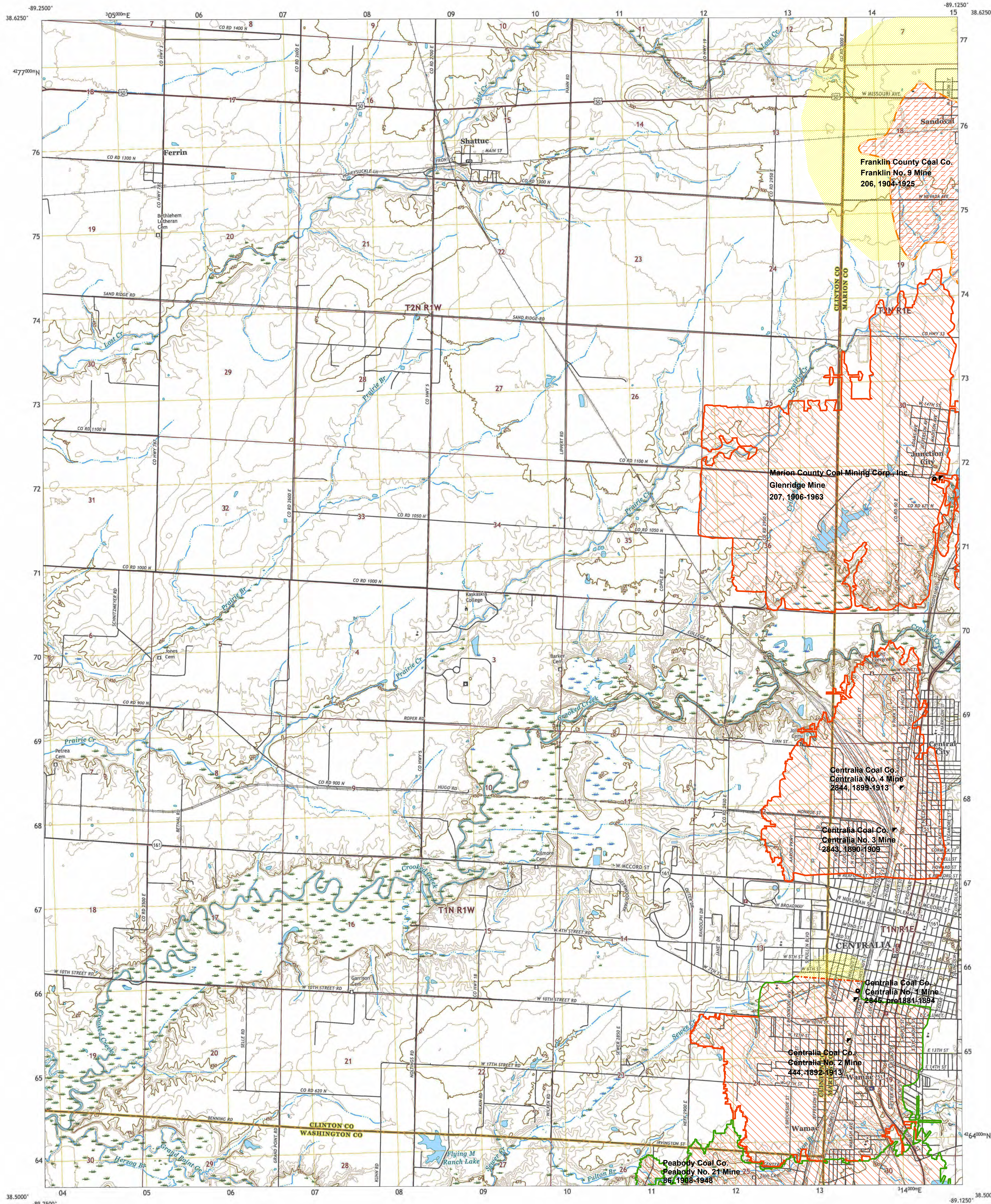
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November 8, 2010

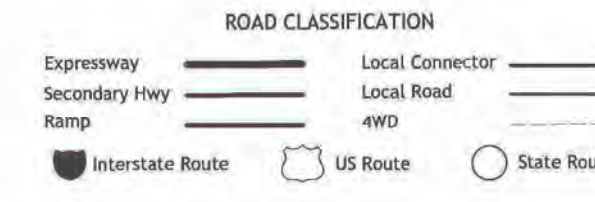
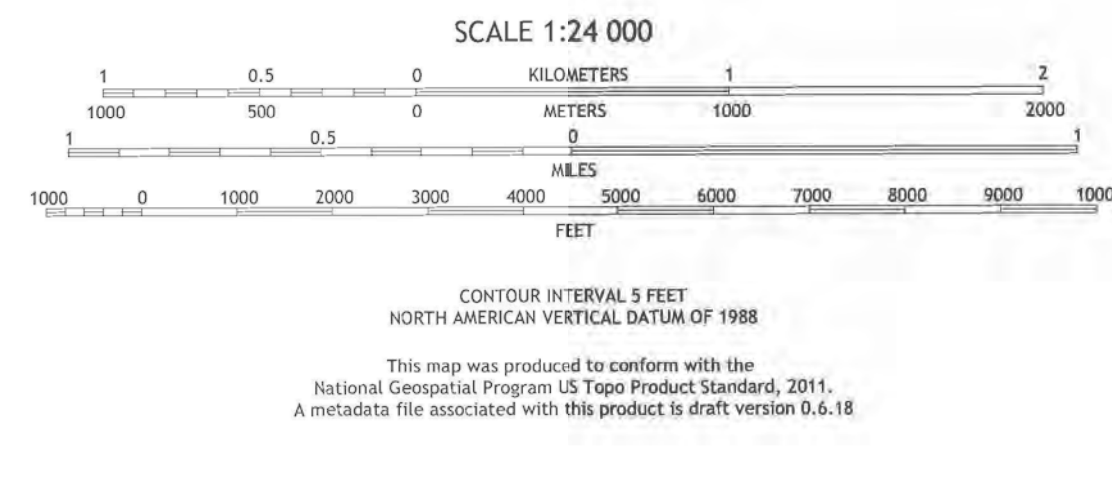
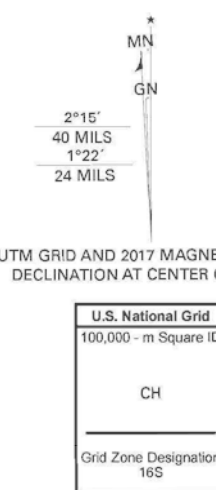
Revised:
2012, 2016
Alan R. Myers 02-05-2025



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
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Imagery.....NAIP, July 2015 - October 2015
Roads.....U.S. Census Bureau, 2017
Names.....GNIS, 1980 - 2016
Hydrography.....National Hydrography Dataset, 2006 - 2016
Contours.....National Elevation Dataset, 2016
Boundaries.....Multiple sources; see metadata file 2014 - 2016
Public Land Survey System.....BLM, 2017
Wetlands.....FWS National Wetlands Inventory, 1982



CENTRALIA WEST, IL
2018

DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES CENTRALIA WEST QUADRANGLE MARION, CLINTON & WASHINGTON COUNTIES

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2010
Revised 2025

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This material is based upon work supported by the Illinois Mine Subsidence Insurance Fund. Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the authors and do not necessarily reflect the views of the Illinois Mine Subsidence Insurance Fund.

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 CENTRALIA WEST QUADRANGLE

The Centralia Fault Zone limited mine expansion in the east-west direction. The high-angle normal faults that make up the fault zone have enough displacement to hinder any efficient crossing. Fracturing related to the faults may have contributed to roof falls. Glenridge Mine (mine index 207), operated the longest, from 1906 to 1963. The Herrin Coal was generally about 6 feet thick, and over 500 feet deep.

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.

Nelson, W. J., 1995, Structural Features in Illinois, Illinois State Geological Survey, Bulletin 100, 144p.

PART II DIRECTORY OF MINES IN THE CENTRALIA WEST QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Centralia West 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 86

Peabody Coal Company, Peabody No. 21 Mine

Type: Underground Total mined-out acreage shown: 2,629

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Washington	1N 1W	25	SE SE NE
Air shaft	Washington	1N 1W	25	SE SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	538	5.25	9.0	6.5	MRP

Geologic Problems Reported: A fault trending NNW-SSE crossed the eastern side of the mine, with a displacement of up to 3 feet. The downthrown side was on the eastern side of the fault, and the coal was badly shattered on this side as well. The cracks were parallel to the fault. Most of the fracturing extended E-W, so that roof falls were most common on N-S entries. For that reason, rooms were run E-W. Limestone was deposited directly on top of the coal in part of the mine. As the roof graded to limestone, a hard, sandy, calcareous ("bastard") shale was immediately above the coal for a considerable distance along the entry. This rock was somewhat slabby and commonly fell. The remainder of the roof was generally black shale. Up to 10% of the shale roof was a light gray shale, called "white top", up to 5 feet thick. The coal was of better quality under the white top. The top of the coal was irregular, but the contact was clean and often contained pyrite plates. Pyrite was present in vertical fracture facings but was not persistent. A few pyrite nodules were noted. The blue band averaged 1.5 inches thick (ranged up to 3 inches thick) and was present 3 to 12 inches above the bottom of the seam. A fairly persistent clay and pyrite band was present 2.5 to 3 inches above the blue band. The thickness of this band varied, averaging about 0.25 inches but ranging up to 2 inches thick. A layer of pyrite lenses was sometime present 8 to 10 inches above the blue band. The mine was dry, but the underclay heaved somewhat after areas were abandoned.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Centralia Coal Company	Centralia No. 5	1908-1947 *	13,410,315
Peabody Coal Company	Peabody No. 21	1947-1948	637,194
			14,047,509

* Idle 1925

Last reported production: December 1948

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 353033	3-14-1949	1:2400	1:4138	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 353033, reel 03141, frames 214 & 215 - Shaft locations, mine outline, mining method.

Mine Index 206**Franklin County Coal Company, Franklin No. 9 Mine**

Type: Underground Total mined-out acreage shown: 1,418, which includes the area for Sandoval No. 1 (mine index 2847). The boundary between the two mines could not be discerned. The area shown on the accompanying map is smaller than expected for the combined production. Production indicates an additional 1,750 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft *	Marion	2N 1E	17	SW SE NW

* Ventilation was likely provided by Sandoval No. 1 Mine (mine index 2847), with the shaft located in SW SW NE 17-T2N-R1E.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	636	5.5	7.5	6.0-6.5	RP

Geologic Problems Reported: A fault was noted in the southern part of the mine, with displacement (downthrown side to the east) ranging between 3 and 18 feet. The black shale making up the roof reached up to 2.5 feet thick in limited areas, and did not stay up well when the fissile zone was that thick. The remainder of the black shale was thin-bedded, hard, and brittle. The coal contained several small streaks of shale and pyrite. The blue band was usually 2 to 3 inches thick. The underclay floor crept readily and ranged in thickness from 1 inch to 5 feet. Pyrite balls were common in the floor clay.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Sandoval Coal Company	Sandoval No. 2	1904-1907	141,804
Middleton & Seidel	Sandoval No. 2	1907-1908	42,400
Dan Middleton	Sandoval No. 2	1908-1909	143,331
Chicago-Sandoval Coal Company	Chicago-Sandoval No. 2	1909-1923	3,289,064
Franklin County Coal Company	Franklin No. 9	1923-1925	94,932
			7,423,062

Last reported production: January 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	1-1936	1:63360	1:126720	Secondary source
ISGS map library, 4102 i5.1-13	3-15-1963	1:2400	1:2400	Secondary source
USGS topographic map, Centralia	1914	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.
 Directory of Illinois Coal Mines (Marion County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Marion County) - Mine type, shaft location, seam, depth, thickness, geologic problems.
 Federal Land Bank Report (Marion County) - Mine outline.
 ISGS map library, 4102 i5.1-13, map of Glenridge Mine (mine index 207) - Mine outline (southern part).
 USGS 15-minute topographic map, Centralia, 1914 - Shaft location.

Mine Index 207**Marion County Coal Mining Corporation, Inc., Glenridge Mine**

Type: Underground Total mined-out acreage shown: 2,590 Production indicates an additional 4 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (9 x 14 ft)	Marion	2N 1E	31	NW NE NE
Air shaft	Marion	2N 1E	31	NW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	600	5.0	7.5	5.5-6.25	MRP

Geologic Problems Reported: A series of north-south faults were noted on the eastern side of the mine. In one case, 35 feet of displacement was seen. Faults were noted on the source map. The roof consisted of 1.5 to 5 feet of black shale that was very tightly bound to the coal below. The roof held up better when the entries were driven in the same direction as the jointing. The shale contained a large number of concretions, including coal balls. The coal contained pyrite in stringers and lenses, and calcite and gypsum in vein fillings. The blue band was 0.5 to 2 inches thick and 6 to 10 inches above the floor. Seepage of water and crude oil from oil wells caused some trouble. The underclay floor consists of 4 inches to 5 feet of soft, light gray clay. Heaving occurred where the clay was thick and the mine was wet.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Marion County Coal Company	Glenridge	1906-1940	10,543,305
Marion County Coal Mining Corp., Inc.	Glenridge	1940-1962	3,217,924
Marion County Coal Mining Corp., Inc.	Glenridge	1962-1963	20,643 *
			13,781,872

* Production after map date

Last reported production: December 1963

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL477_01	2-2-1962	1:2400	1:2400	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

State archive, IL_477_01 - Shaft locations, mine outline, mining method, geologic problems.

Mine Index 444**Centralia Coal Company, Centralia No. 2 Mine**

Type: Underground Total mined-out acreage shown: 1,084 The area shown on the accompanying map includes the Centralia No. 1 Mine (mine index 2845). The boundary between the two mines is not discernable. Production indicates an additional 50 acres were mined (including 33 acres mined before production was reported and 2 acres after the map date).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Marion	1N 1E	19	SE NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	570			6.5	MRP

Geologic Problems Reported: A fault with 3 feet of displacement was noted in the mine, with a larger offset in the northwestern part of the mine. The black shale roof was thinner on the western side of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Centralia Mining & Manufacturing Coal Co.	Centralia No. 2, South	1892-1905	2,440,072
Centralia Coal Company	Centralia No. 2, Junction City	1905-1913	1,961,396
Centralia Coal Company	Centralia No. 2	1913-1913	8,590 *
			5,060,391

* Production after map date

Last reported production: April 1913

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4102 i5.1-93	2-1913	1:2400	1:2400	Not final

Annotated Bibliography (data source, brief description of information)

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

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

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

Company map, ISGS map library, 4102 i5.1-93 - Shaft location, mine outline, mining method.

Mine Index 2843**Centralia Coal Company, Centralia No. 3 Mine**

Type: Underground Total mined-out acreage shown: 1,010 The boundary between Centralia No. 3 Mine and Centralia No. 4 Mine (mine index 2844) could not be discerned. The area shown on the accompanying map includes both mines. The No. 4 Mine operated after the date of the source map; production indicates approximately 65 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Marion	1N 1E	7	SE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	635-637			6.0	MRP

Geologic Problems Reported: A fault was noted east of the shaft, with some gas released into the mine from the fault zone. The fault was shown on the source map, and appeared to be the reason for halting eastward expansion.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Pitinger & Davis Mng. & Manufacturing Co.	Pitinger & Davis	1890-1898	1,058,897
Pitinger & Davis Mng. & Manufacturing Co.	Pitinger & Davis No. 2 *	1898-1899	105,779
Pitinger & Davis Mng. & Manufacturing Co.	Pitinger & Davis No.s 3 & 4	1899-1906	2,481,461
Centralia Coal Company	Centralia No. 3	1906-1909	<u>542,792</u>
			4,188,929

* The mine may have been owned or operated by Big 4 Coal Company. The Sanborn Fire Insurance maps labeled the shaft Big Four Mine.

Last reported production: April 1, 1909

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352322	6-1911	1:2400	1:4469	Final **

** The outline shown on the accompanying map is coded "Not final" because Centralia No. 4 Mine (mine index 2844) closed after the map date and is included in the area shown.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Marion County) - Mine names, mine index, ownership, years of operation.
 Microfilm map, document 352322, reel 03138, frames 408-411 - Shaft location, mine outline, mining method, geologic problems.

Mine Index 2844**Centralia Coal Company, Centralia No. 4 Mine**

Type: Underground Total mined-out acreage shown: 1,010 The boundary between Centralia No. 3 Mine (mine index 2843) and Centralia No. 4 Mine could not be discerned. The area shown on the accompanying map includes both mines. Production indicates approximately 65 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Marion	1N 1E	7	NW SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	670			6.0	MRP

Geologic Problems Reported: A fault was noted east of the shaft, with some gas released into the mine from the fault zone. The fault was shown on the source map, and appeared to be the reason for halting eastward expansion. The upper part of the coal contained some pyrite nodules. The blue band was split into two layers of 1 inch each, separated by 4 inches of coal. The lower blue band was more persistent than the upper and contained some pyrite nodules.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Pittinger & Davis Mng. & Manufacturing Co.	Pittinger & Davis No.s 3 & 4	1899-1906	None *
Centralia Coal Company	Centralia No. 4	1906-1911	1,172,434
Centralia Coal Company	Centralia No. 4	1911-1913	336,054 **
			1,508,488

* The production of Centralia No. 4 Mine was reported with Centralia No. 3 Mine (mine index 2843) from 1899 to 1906.

** Production after map date

Last reported production: April 1913

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352322	6-1911	1:2400	1:4469	Not final

Annotated Bibliography (data source, brief description of information)

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

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

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

Microfilm map, document 352322, reel 03138, frames 408-411 - Shaft location, mine outline, mining method, geologic problems.

Mine Index 2845**Centralia Mining & Manufacturing Company, Centralia No. 1 Mine**

Type: Underground Total mined-out acreage shown: 1,084 The area shown on the accompanying map includes the production of Centralia No. 2 Mine (mine index 444). The boundary between the two mines is not discernable. Production indicates an additional 50 acres were mined (including the 33 acres mined before production was reported in 1882).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Marion	1N 1E	18	NE SW SW
Air shaft	Marion	1N 1E	18	NE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin *	569			6.0-7.0	MRP

* The 1894 Coal Report indicated that the No. 1 shaft was deepened to 876 feet and a lower coal was mined along entries extending 500 feet to either side of the deepened shaft. However, the top was found to be very poor, water seeped in, faults were numerous and the coal thinned, such that the lower seam was abandoned in March 1894.

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Centralia Mining & Manufacturing Company	Centralia No. 1	pre1881-1894 **	<u>650,333</u> 650,333

* Production and years of operation before 1882 are not known. The 1882 Coal Report indicates that 33 acres were mined. The production listed above includes only the tonnage reported as Centralia No. 1 through 1891. The Sanborn Fire Insurance maps show the No. 2 shaft (mine index 444) working in 1894, which is where the production has been split for this report.

Last reported production: March 1894

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4102 i5.1-93	2-1913	1:2400	1:2400	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Company map, ISGS map library, 4102 i5.1-93 - Shaft locations, mine outline, mining method.

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