

# Coal Mines in Illinois Worden Quadrangle Madison & Macoupin Counties, Illinois

This map accompanies the Coal Mines Directory for the Worden 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 off 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.

**ILLINOIS**  
Illinois State Geological Survey  
PRAIRIE RESEARCH INSTITUTE

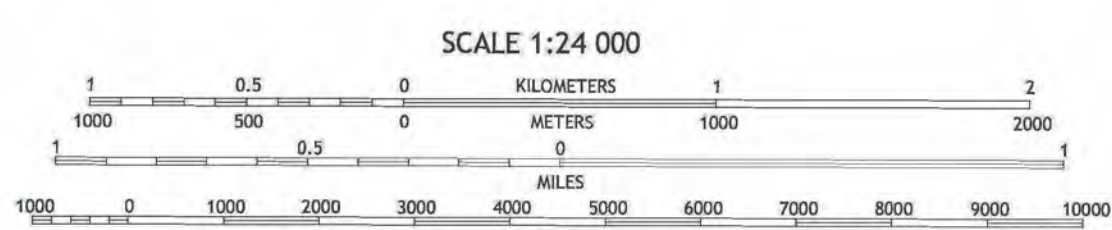
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Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
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Imagery:.....NAP, July 2015 - October 2015  
Roads:.....U.S. Census Bureau, 2017  
Names:.....GNIS, 1980 - 2017  
Hydrography:.....National Hydrography Dataset, 2002 - 2011  
Contours:.....National Elevation Dataset, 2008 - 2016  
Boundaries:.....Multiple sources; see metadata file 2014 - 2016  
Public Land Survey System:.....BLM, 2017  
Wetlands:.....FWS National Wetlands Inventory 1981 - 1986



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



WORDEN, IL  
2018





**DIRECTORY OF COAL MINES IN ILLINOIS**  
**7.5-MINUTE QUADRANGLE SERIES**  
**WORDEN QUADRANGLE**  
**MADISON & MACOUPIN COUNTIES**

Cheri Chenoweth & Melisa L. Borino



Department of Natural Resources  
ILLINOIS STATE GEOLOGICAL SURVEY  
2001  
REVISED 2004, 2023



**DIRECTORY OF COAL MINES IN ILLINOIS  
7.5-MINUTE QUADRANGLE SERIES  
WORDEN QUADRANGLE  
MADISON & MACOUPIN COUNTIES**

2001  
REVISED 2004, 2023

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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) 244-2420.

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## **INTRODUCTION**

Coal has been mined in 73 counties of Illinois. More than 4,500 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.

The directory serves as a key to the accompanying mine map and provides basic information on the coal mines. 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.

## **MINING IN THE WORDEN QUADRANGLE**

According to the History of Madison County, the first shaft in this quadrangle was sunk in 1876 by the Worden Coal Company (mine index 2803), although production did not start until June of the following year. Two mines operated over 50 years: Livingston & Mt. Olive No. 1 (mine index 72) ran for 59 years, and Mt. Olive & Staunton No. 2 (mine index 73) operated for 53 years.

The Herrin Coal was the only coal mined in this quadrangle. The coal ranged from 3.0 to 8.0 feet thick and 264 to 309 feet deep. Some faults were present with displacement of 3 feet. The underclay heaved some when wet. Roof rolls were present in at least two mines, and cut the thickness of the coal down to between 2 and 4 feet at times. Gas was noted near the roof of two mines.



## 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, 185 p.



## PART II DIRECTORY OF MINES IN WORDEN QUADRANGLE

### MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Worden Quadrangle is provided. The summary is arranged numerically by mine index number, which is shown on the map and in the mine listing. Consult Part I for a complete explanation of the data listed in the summary sheet.

#### Mine Index 72

#### Livingston & Mt. Olive Coal Company, Livingston & Mt. Olive No. 1 Mine

Type: Underground    Total mined-out acreage shown: 3,581

#### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 6W	16	260 FNL, 980 FEL, SE
Air shaft	Madison	6N 6W	16	NE NW SE
Escape shaft	Madison	6N 6W	16	NW NE SE

#### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	287	3.0	7.4	6.0	MRP

Geologic Problems Reported: Some gas was present near the roof. Roof rolls come to within 2 feet of the floor. One roof fall of shale and limestone extended 50 feet long and 30 feet high. The roof conditions in the east side of the mine were "remarkably consistent", and large rolls there were rare. The mine was described as dry, but the floor clay heaved when wet. A squeeze occurred in the east side of the mine in 1940 or shortly before.

#### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
New Staunton Coal Company	New Staunton No. 1	1905-1932 *	14,622,077
Livingston & Mt. Olive Coal Company	Livingston & Mt. Olive No. 1	1932-1964	5,049,484
			19,671,561

\* Idle 1931

Last reported production: January 1964

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_44	3-13-1928	1:2400	1:2400	Not final
State archive, IL_1285_03	3-14-1943	1:2400	1:2400	Not final
State archive, IL_46_03	2-7-1946	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 (Madison County) - Mine names, mine index, ownership, years of operation.

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

State archive, IL\_44 - Mine outline (central and west parts of mine), shaft locations, mining method.

State archive, IL\_1285\_03 - Mine outline (south central part of mine).

State archive, IL\_46\_03 - Mine outline (eastern side of mine).



**Mine Index 73****Mt. Olive & Staunton Coal Company, Mt. Olive & Staunton No. 2 Mine**

Type: Underground    Total mined-out acreage shown: 5,504

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 6W	10	150 FNL, 100 FWL
Air shaft	Madison	6N 6W	10	NW NW NW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	293-325	5.0	8.0	6.5-7.0	RPP

Geologic Problems Reported: Some small faults were present, with displacement of 3 feet. Roof rolls sometimes cut the coal thickness down to 4 feet. Some gas was present near the roof. The floor clay heaved slightly.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Mt. Olive & Staunton Coal Company	Mt. Olive & Staunton No. 2	1904-1957	<u>32,519,272</u> 32,519,272

Last reported production: June 1957

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_47	3-1-1965	1:4800	1:4800	Final
State archive, IL_2620	4-1935	1:2400	1:2400	Not final
State archive, IL_2646	Undated	Unknown	1:24000	Undated

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness.  
 Directory of Illinois Coal Mines (Madison County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Madison County) - Mine type, shaft location, seam, depth, thickness, geologic problems.  
 State archive, IL\_47 - Shaft locations, mine outline (east side of mine), mining method.  
 State archive, IL\_2620 - Mine outline (southwest side of mine).  
 State archive, IL\_2646 - Mine outline (west side of mine).



**Mine Index 453**  
**Illinois Power & Light Company, Kerns-Donnewald Mine**

Type: Underground    Total mined-out acreage shown: 750

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 7W	25	NW SW SW
Air shaft	Madison	6N 7W	25	NW SW SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	264			5.5	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Kerns-Donnewald	Kerns-Donnewald No. 1	1901-1922	3,279,283
Illinois Power & Light Company	Kerns-Donnewald	1922-1924	<u>229,581</u>
			3,508,864

Last reported production: April 1924

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.M35 i5.1-15	5-1924	1:2400	1:2400	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth.  
 Directory of Illinois Coal Mines (Madison County) - Mine names, mine index, ownership, years of operation.  
 ENR Document 85/01 - Mining method.  
 Mine notes (Madison County) - Shaft location, depth, thickness.  
 Company map, ISGS map library, 4103.M35 i5.1-15 - Mine outline, shaft locations, mining method.

**Mine Index 762****Consolidated Coal Company of St. Louis, Consolidated No. 6 Mine**

Type: Underground    Total mined-out acreage shown: 1,030

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Macoupin	7N 6W	32	NW NE SW
Air shaft	Macoupin	7N 6W	32	NW NE SW
Escape shaft * (6'x8')	Macoupin	7N 6W	29	SE SW SE

\* The escape shaft was the formerly the main shaft for the Staunton No. 5 Mine (mine index 2897).

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	309-325			6.0-7.5	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Ridgely, Sutton & Daniels	Ridgely, Sutton & Daniels No. 6	1881-1882	50,000 **
Ellsworth Coal Company	Ellsworth No. 6	1882-1886	713,215
Consolidated Coal Company of St. Louis	Consolidated No. 6	1886-1896	2,582,307
T. E. Weisenbaum	Consolidated No. 6	1896-1897	279,630
Consolidated Coal Company of St. Louis	Consolidated No. 6	1897-1909	<u>2,761,165</u>
			6,386,317

\*\* According to *The History of Macoupin County and Staunton in Illinois*, Henry Voge sank this shaft about 1880, or perhaps as early as 1877. Production during this time period is unknown.

Last reported production: 1909

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_1127_03	10-8-1909	1:2400	1:2400	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, depth, thickness.  
 Directory of Illinois Coal Mines (Macoupin County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Macoupin County) - Shaft location, seam, depth, thickness.  
 State archive, IL\_1127\_03- Shaft locations, mine outline, mining method.  
 History of Macoupin County, 1911, S. J. Clarke Publishing Company, Chicago, Illinois, 727 p. - Ownership.  
 Kilduff, Mary Dorrell, 1988, Staunton in Illinois, 273 p. - Ownership.



**Mine Index 770**  
**DeCamp Coal & Mining Company, DeCamp Mine**

Type: Underground    Total mined-out acreage shown: 326

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 6W	18	NW SW NE
Air shaft	Madison	6N 6W	18	SW SW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	275-280			5.3	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
DeCamp Coal & Mining Company	DeCamp	1903-1913	<u>1,541,401</u> 1,541,401

Last reported production: November 1913

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352330	7-1915	1:2400	1:4469	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam.  
 Directory of Illinois Coal Mines (Madison County) - Mine names, mine index, ownership, years of operation.  
 ENR Document 85/01 - Mining method.  
 Mine notes (Madison County) - Shaft location, depth, thickness.  
 Microfilm, document 352330, reel 03138, frames 436, 437 - Mine outline, shaft locations, mining method.  
 Microfilm, document 352394, reel 03139, frame 36 - Mining method (shows eastern part of the mine only).

**Mine Index 2796****Mt. Olive & Staunton Coal Company, Mt. Olive & Staunton No. 1 Mine**

Type: Underground    Total mined-out acreage shown: 1,036

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (8'x16')	Madison	7N 6W	8	NE NE NW
Air shaft	Madison	7N 6W	8	NE NE NW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	292	4.0	7.0	5.2-6.1	MRP

Geologic Problems Reported: Displacements (slips and faults) were very slight, and the coal was never cut out.**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Henry Voge	Voge	1897-1897	7,583
Mt. Olive & Staunton Coal Company	Mt. Olive & Staunton	1897-1899	306,081
Staunton Coal Company	Staunton No. 1	1899-1904	1,591,510
Mt. Olive & Staunton Coal Company	Mt. Olive & Staunton No. 1	1904-1923 *	<u>4,156,921</u>
			6,062,095

\* Idle 1915-1916, 1922

Last reported production: May 1923

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_1665_01	4-1-1923	1:2400	1:2400	Not final
State archive, IL_94_01	10-1912	1:2400	1:2400	Not final
State archive, IL_1731_03	11-13-1905	1:2400	1:2400	Not final
State archive, IL_2646	Undated	Unknown	1:24000	Undated
State archive, IL_44	03-13-1928	1:2400	1:2400	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

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

State archive, IL\_1665\_01 - Shaft locations, mine outline, mining method.

State archive, IL\_94\_01 - Mine outline (additional mining on north side of mine).

State archive, IL\_1731\_03 - Mine outline (additional mining on west side of mine).

State archive, IL\_2646, map of Mt. Olive and Staunton No. 2 Mine (mine index 73) - Mine outline (additional mining on east and northeast sides of mine).

State archive, IL\_44, map of Livingston and Mt. Olive No. 1 Mine (mine index 72) - Mine outline (additional mining on south side of mine).



**Mine Index 2799****Interstate Coal & Mining Company, McDonald Mine**

Type: Underground Total mined-out acreage shown: 46 The area shown is 3 to 5 acres smaller than the area estimated from the production. The source map is poor, showing only an outline of the mine, and not the internal workings.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 7W	24	NW SW NE
Air shaft	Madison	6N 7W	24	NW SW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	275-300			7.0	RPB

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Dr. McDonald	McDonald	1882-1886	89,846
Consolidated Coal Company of St. Louis	McDonald	1886-1896 *	21,874
Firman Coal Company	McDonald	1896-1897	951
Consolidated Coal Company of St. Louis	McDonald	1897-1902 **	2,268
Interstate Coal & Mining Company	McDonald	1902-1909	<u>231,083</u>
			346,022

\* Idle 1888

\*\* Idle 1900-1902

Last reported production: 1909

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352331	4-1909	1:2400	1:4966	Final

Annotated Bibliography (data source, brief description of information)

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

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

ENR Document 85/01 - Mining method.

Mine notes (Madison County) - Seam, thickness.

Microfilm map, document 352331, reel 03138, frame 438 - Mine outline, shaft locations.

## Mine Index 2801

### Consolidated Coal Company of St. Louis, No. 12 Mine

Type: Underground Total mined-out acreage shown: 54 The source map was undated, but the mined area shown on the accompanying map is the approximate size expected for the production reported. This suggests that the mine outline is complete.

#### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 7W	25	SW NE NW
Air shaft	Madison	6N 7W	25	NW NE NW

#### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	280	4.5	8.0	6.5-7.0	RPP

Geologic Problems Reported: The Federal Land Bank Report shows subsidence in eastern and western portions of the mine.

#### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Wabash Coal Mining Company *	Wabash	1881-1884	101,969
Ellsworth Coal & Mining Company	Ellsworth No. 12	1884-1886	29,152
Consolidated Coal Company of St. Louis	Worden No. 12	1886-1893 **	111,783
Coar & Lenart	Coar & Lenart	1893-1895	49,085
Consolidated Coal Company of St. Louis	Consolidated No. 12	1895-1896	40,937
Firman Coar Coal Company	Worden No. 12	1896-1897	6,422
Consolidated Coal Company of St. Louis	Consolidated No. 12	1897-1901	<u>12,799</u>
			352,147

\* According to the *History of Madison County*, this mine was opened in 1881. The Wabash Coal Mining Company was owned by F. P. Baker & Company of St. Louis.

\*\* Idle 1887

Last reported production: 1901

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352565	undated	1:1200	1:1903	Undated
WPA, T6N-R7W	circa 1935 **	1:12000	1:42264	Secondary source
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source

\*\* Surveyed extensions shown dated 3-29-1894; not a final map.

#### Annotated Bibliography (data source, brief description of information)

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

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

ENR Document 85/01 - Mining method.

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

History of Madison County, Illinois; Published by W. R. Brink & Co., Edwardsville, Illinois, 1882 - Opening year and ownership.

Microfilm map, document 352565, reel 03139, frames 326 & 327 - Mine outline, mining method.

WPA map, T6N-R7W - Shaft locations.

Federal Land Bank Report - Geologic problems.



**Mine Index 2802****Worden Coal Company, Worden Mine**

Type: Underground    Total mined-out acreage shown: None    Production indicates about 1 acre was mined.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Twp-Rge	Section	Quarters-Footage
Main drift	Madison	6N 7W	27	NW NE SW
Air shaft	Madison			

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin					UG

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Worden Coal Company	Worden	1940-1942	<u>5,550</u> 5,550

Last reported production: 1942

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
none *				

\* No source map of the mine was found. The mine location was hand-plotted and named on a Coal Section file copy of a USGS topographic map.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Madison County) - Shaft location.

ISGS Coal Section files - Shaft location.

**Mine Index 2803****Consolidated Coal Company of St. Louis, Worden No. 11 Mine**

Type: Underground Total mined-out acreage shown: 174 The production indicates between 37 and 44 acres were mined. The area shown is a general area of mining.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

Type	County	Twp-Rge	Section	Quarters-Footage
Main shaft	Madison	6N 7W	35	NE NE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	250-270			7.0 (6.0-8.0)	RP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Worden Coal Company	Worden	1877-1881	24,000 *
Worden Coal Mining Company	Worden	1881-1884	142,400
Ellsworth Coal & Mining Company	Ellsworth No. 11	1884-1886	44,092
Consolidated Coal Company of St. Louis	Worden No. 11	1886-1887	23,811
			234,303

\* According to the *History of Madison County*, the shaft was sunk in 1876, and production began in June of 1877. Production from June 1877 to June 1878 and July 1879 to June 1881 is unknown.

Last reported production: 1887

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	6-1934	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

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

Federal Land Bank Report - General area of mining, shaft location.

History of Madison County, Illinois; Published by W. R. Brink & Co., Edwardsville, Illinois, 1882 - Opening year, depth, thickness.



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