

## **MINE INFO GIS DATA**

The ODNR-Division of Mineral Resources Management (DMRM) began developing a GIS for abandoned surface mine areas in 1999 and it continues through today to assist in evaluating risks from current and abandoned mines.

Archival records were searched for mine maps that were subsequently scanned and digitized to create shapefile data organized by county location. The data includes the permit boundary, affected boundary, and associated attributes to help determine eligibility for abandoned mine land (AML) project funding under the Surface Mining Control and Reclamation Act of 1977 (SMCRA, Pub. L. 95-87).

Ohio began issuing surface coal mining licenses in the 1940s. The earliest license requirements were minimal and did not include submittal of a map or other delineation of the mined area. Significant changes to legal requirements are reflected in the alphabetical designation of each subsequent Ohio law revision, i.e., mid-1960s A-law permits through contemporary D-law permits.

Current laws and regulations for Ohio coal & industrial mineral mines can be found at: <http://minerals.ohiodnr.gov/laws-regulations/laws-regulations>

DMRM has attempted to create as complete a dataset as possible from available historical records. The following provides a summary of Ohio's mine history captured in the Mine Info GIS:

<b><u>Years</u></b>	<b><u>License / Permit Type</u></b>
1940-1966	Licenses (4800+ issued; No Data available)
1966-1973	A-Law Permits (1,111 issued; approximately 350 maps recorded)
1973-1976	B-Law Permits (1,285 issued; approximately 414 maps recorded)
1976-1981	C-Law Permits (1,581 issued; approximately 1,506 maps recorded)
1981-Current	D-Law Permits (1,415 issued; issued & finalized thru 4/10/2020)
1975-Current	Industrial Mineral Permits (1,619 IM Permits issued & finalized with 21 deep mines recorded thru 4/10/2020)
AUM Mines	3,425 abandoned underground mines have been recorded thru 4/10/2020

In addition to downloadable shapefiles, the scanned TIF images for source documents are available upon request. The scanned mine map may depict additional information about the operations conducted, environmental resources, and extracted mineral resources. If more detailed information is desired, the archival record for each captured permit can be accessed at the State Archives/Ohio Historical Society or the DMRM central office.

Abandoned mine location information is useful in many land-related applications. Pre-law surface coal mining is generally characterized by drastically disturbed lands containing highwalls, pits, spoil and refuse areas. Since the mid-1970s, Ohio mining laws have required surface mine lands to be reclaimed to approximate original contour. In addition, the DMRM AML section has been funding construction projects to reclaim pre-law AML sites since the early 1980s. The Mine Info GIS data can assist in identification of contemporary, reclaimed surface mine lands that might appear to be unmined property.

The Mine Info GIS data is known to be incomplete due the limits of the archival record. In addition, the data captured may be somewhat inaccurate due to limitations in survey/mapping technologies inherent in the source documents. The user should keep in mind that the data provides only an approximation of the permitted and affected boundaries or the mining extents of underground mining operations. The Mine Info Project GIS data should not be used to substitute for a detailed site investigation.

This product of the Ohio Department of Natural Resources, Division of Mineral Resources Management is intended to provide general information only and should not be used for any other purpose. It is not intended for resale or to replace site-specific investigations. These data were compiled by the Division of Mineral Resources Management, which reserves the publication rights to this material. If these data are used in the compilation of other data sets or maps for distribution or publication, this source must be referenced.

The information contained herein may be updated or edited in the future. Future releases of this material, if altered, will display a revision date. Users should check to ensure they have the latest version and reference the appropriate revision date if it is being used in other works.

Neither the Ohio Department of Natural Resources, nor any agency thereof, nor any of their employees, contractors, or subcontractors, make any warranty, express or implied, nor assume any legal liability or responsibility for the accuracy, completeness, or usefulness of this product. Any use thereof for a purpose other than for which said information or product was intended shall be solely at the risk of the user.