

README for Indiana Geological and Water Survey Indianapolis_BG_100k - Bedrock Geologic Map of the Indianapolis 30 x 60 Minute Quadrangle, Central Indiana

TITLE:
Bedrock Geologic Map of the Indianapolis 30 x 60 Minute Quadrangle, Central Indiana
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ABSTRACT:
Indianapolis_BG_100k The Bedrock Geologic Map of the Indianapolis 30 x 60 Minute Quadrangle, Central Indiana is an Esri File Geodatabase that contains two feature data sets, and four geodatabase tables detailing the bedrock geology of the Indianapolis 30 x 60 Minute Quadrangle in central Indiana . This data set conforms to "GeMS (Geologic Map Schema)--a standard format for the digital publication of geologic maps." For more information on GeMS please refer to the supplemental information within this metadata. This was a conversion from paper map to GeMS compliant GIS data.

PURPOSE:
The Bedrock Geologic Map of the Indianapolis 30 x 60 Minute Quadrangle, Central Indiana was created to present basic bedrock geologic information that contributes to the characterization of potential aggregate resources, characterization of bedrock aquifer systems, and analysis of the overlying predominantly glacial deposits. This map is based on data obtained from several thousand records including petroleum well drillers' logs, geophysical logs, water well drillers' logs, descriptions of cores recovered by the Indiana Geological Survey, seismic refraction records collected by the Indiana Geological Survey, natural exposures in and near the map area, and exposures in active and abandoned quarries. This database is, in large part, the result of a cooperative mapping agreement between the U.S. Geological Survey (USGS) and the Indiana Geological and Water Survey through the STATEMAP program of the USGS.

SUPPLEMENTARY INFORMATION:
The Bedrock Geologic Map of the Indianapolis 30 x 60 Minute Quadrangle, Central Indiana is a composite geodata set that conforms to "GeMS (Geologic Map Schema)--a standard format for the digital publication of geologic maps," available at <http://ngmdb.usgs.gov/Info/standards/GeMS/>. Metadata records associated with each element within the geodata set contain more detailed descriptions of their purposes, constituent entities, and attributes. An OPEN shapefile versions of the data set is also available. It consists of shapefiles, DBF files, and delimited text files and retains all information in the native geodatabase, but some programming will likely be necessary to assemble these components into usable formats.

PROJECTION AND DATUM:
All data is in North American Datum 1983 with Universal Traverse Mercator (UTM) projection, zone 16, North.

ARCGIS PRO MAP DOCUMENT:
Indianapolis_BG_100k.aprx (ArcGIS Pro 3.0.0)

SUPPLEMENTAL BASEMAP GEODATABASE:
Indianapolis_BG_100k-resources.gdb

GEMS VALIDATION FILES:
Indianapolis_BG_100k.gdb-Validation.html (File)
Indianapolis_BG_100k.gdb-ValidationErrors.html (File)

GEMS GEODATABASES:
The GeMS compliant database contents are described below.
Indianapolis_BG_100k.gdb.....(Geodatabase)

GeologicMap.....	(Feature data set)
ContactsAndFaults.....	(Polyline feature class)
IsoValueLines.....	(Polyline feature class)
MapUnitPolys.....	(Polygon feature class)
DataSources.....	(Non-spatial table)
DescriptionOfMapUnits.....	(Non-spatial table)
GeoMaterialDict.....	(Non-spatial table)
Glossary.....	(Non-spatial table)
MapInformation.....	(Non-spatial table)

METADATA:
Metadata files are valid for both the geodatabase feature classes and open-access shapefiles.

Indianapolis_BG_100k.xml.....(Geodatabase level FGDC-compliant metadata)

OPEN-ACCESS VERSIONS:

To improve access to this product, open-access and simple version folders of these data are included with this release. Some field names may have been truncated when converting from geodatabase feature classes to shapefiles. These files are available as a single zipped folder (IN_2021_Indianapolis100k_2-0.zip)

Indianapolis_BG_100k-open.....(Folder)

GM_ContactsAndFaults.shp.....(Shapefile)
GM_IsoValueLines.shp.....(Shapefile)
GM_MapUnitPolys.shp.....(Shapefile)

DataSources.txt.....(Non-spatial table)
DescriptionOfMapUnits.txt.....(Non-spatial table)
Glossary.txt.....(Non-spatial table)
GeoMaterialDict.txt.....(Non-spatial table)
MapInformation.txt.....(Non-spatial table)
logfile.txt.....(Non-spatial table)

DataSources.csv.....(Non-spatial table)
DescriptionOfMapUnits.csv.....(Non-spatial table)
Glossary.csv.....(Non-spatial table)
GeoMaterialDict.csv.....(Non-spatial table)
MapInformation.csv.....(Non-spatial table)

Indianapolis_BG_100k-simple.....(Folder)

ContactsAndFaults.shp.....(Shapefile)
IsoValueLines.shp.....(Shapefile)
MapUnitPolys.shp.....(Shapefile)