README for Indiana Geological and Water Survey Geologic Map of the Bedford 30- X 60-Minute Quadrangle
TITLE:
IN_2021_Bedford_BG_100k_3-0 - Geologic Map of the Bedford 30- X 60-Minute Quadrangle.

UPDATE JUNE 6, 2025 - In the original publication the Harrodsburg Limestone/Ramp Creek Formation (MhMrc) was accidentally left off the map within the graben located in the southeastern portion of the 24k Tunnelton Quadrangle, three miles northwest of Sparksville, Indiana. The new revision now has those units placed in the proper location within that graben.

ABSTRACT:
The Geologic Map of the Bedford 30- X 60-Minute Quadrangle is an Esri File Geodatabase that contains six feature data sets, five geodatabase tables, and two raster data sets detailing the bedrock geology of the Bedford 30- X 60-minute quadrangle in 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.

PURPOSE:
The Geologic Map of the Bedford 30- X 60-Minute Quadrangle was created to provide digital access to the bedrock geology of northern half of the Bedford quadrangle in south central Indiana. This geodatabase presents basic bedrock geological information that contributes to the characterization of potential mineral resources and bedrock aquifer systems. The data are synthesized from archived public domain geological data obtained from many different sources, original data obtained from fieldwork conducted by the authors, and contract drilling supported by project funds. Archive data sources include petroleum-well records, Indiana Department of Transportation core records, Indiana Geological and Water Survey drill hole records, and geological literature. Project data includes measurements from bedrock exposures, drill cores, and geophysical logs. 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.

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

SUPPLEMENTARY INFORMATION:
The Geologic Map of the Bedford 30- X 60-Minute Quadrangle 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/.

ARCGIS PRO MAP DOCUMENT:
Bedford_BG_100k.aprx (ArcGIS Pro 3.1.2)

SUPPLEMENTAL BASEMAP GEODATABASE:
Bedford_BG_100k-resources.gdb

GEMS VALIDATION FILES:
Bedford_BG_100k.gdb-Validation.html (File)
Bedford_BG_100k.gdb-ValidationErrors.html (File)

GEMS GEODATABASES:
The GeMS compliant database contents are described below.
Bedford_BG_100k.gdb.....(Geodatabase)
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GeologicMap.....(Feature data set)
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ContactsAndFaults.....(Polyline feature class)
MapUnitPolys.....(Polygon feature class)
CartographicLines.....(Polyline feature class)
GeologicLines.....(Polyline feature class)
MapUnitOverlayContacts.....(Polyline feature class)
MapUnitOverlayPolys.....(Polygon feature class)
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DataSources.....(Non-spatial table)
DescriptionOfMapUnits.....(Non-spatial table)
GeoMaterialDict.....(Non-spatial table)
Glossary.....(Non-spatial table)
MapInformation.....(Non-spatial table)
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METADATA:

Metadata files are valid for both the geodatabase feature classes and open-access shapefiles.
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Bedford_BG_100k-metadata.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 (Bedford_BG_100k-metadata.zip)

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GM_CartographicLines.shp.....(Shapefile)
GM_ContactsAndFaults.shp.....(Shapefile)
GM_GeologicLines.shp.....(Shapefile)
GM_MapUnitOverlayContacts.shp.....(Shapefile)
GM_MapUnitOverlayPolys.shp.....(Shapefile)
GM_MapUnitPolys.shp.....(Shapefile)
GM_Points.shp.....(Shapefile)
GM_Stations.shp.....(Shapefile)

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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)

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