

File Name: HawleyGulch_DWM-186-IGS_readme.docx

Personal and File Geodatabase (GIS data) for the *Geologic Map of the Hawley Gulch Quadrangle, Bonneville and Madison Counties, Idaho*, William M. Phillips, Renee L. Love, Dennis M. Feeney, 2019, Idaho Geological Survey Digital Web Map 186 (DWM-186), GIS Dataset.

SEE METADATA attached to this Geodatabase (and Shapefiles) data set for more information

Introduction:

These data were created following geologic mapping conducted during 2015 at the scale of 1:24,000. Data source is the IGS publication DWM-186, *Geologic Map of the Hawley Gulch Quadrangle, Bonneville and Madison Counties, Idaho*, 2019. The personal geodatabase (mdb) and the file geodatabase (gdb) is closely aligned with the USGS-NCGMP09, Standard Format of Geologic Maps. All Feature Classes can be linked to the DataSources table via DataSourcesID field/attribute to determine the geologic source for the data.

NOTE:

This data set includes all data from the original 1:24,000 scale geologic mapping where possible. Shapefiles derived from the geodatabase are included with this dataset.

Projection:

Data Projection and Coordinate System: Idaho State Plane, East Zone, Feet, NAD27, Transverse Mercator.

Files included with this data set:

HawleyGulch_DWM-186-IGS.mdb — Main geologic Geodatabase data set. Personal Geodatabase

\\HawleyGulch_DWM-186-IGS.gdb [folder, file geodatabase] — Main geologic Geodatabase data set. File Geodatabase

\\HawleyGulch_DWM-186_Shapefiles [folder] — Simple shapefiles derived from the Geodatabase

\\HawleyGulch_DWM-186-Shapefiles\Non-SpatialDataTables [folder] (see Non Spatial Data Table section below for details.

HawleyGulch_DWM-186-IGS_readme.docx — Readme file (this document) in MS Word format

HawleyGulch_DWM-186-IGS_readme.pdf — Readme file (this document) in PDF format

HawleyGulch_DWM-186-IGS_readme.txt — Readme file (this document) in ASCII text format

HawleyGulch_DWM-186-m.pdf — *Geologic Map of the Hawley Gulch Quadrangle, Bonneville and Madison Counties, Idaho*, 2019, in PDF format.

HawleyGulch_DWM-186-IGS-Metadata.xml — Metadata in XML format

HawleyGulch_DWM-186-IGS-Metadata.pdf — Metadata in PDF format

HawleyGulch_DWM-186-IGS_10-5-1.mxd — ESRI project file for ArcMap Personal Geodatabase for ArcMap 10.5.1

HawleyGulch_DWM-186-IGS_10-3.mxd — ESRI project file for ArcMap Personal Geodatabase 10-3

HawleyGulch_DWM-186-IGS_10-5-1GDB.mxd — ESRI project file for ArcMap File Geodatabase for ArcMap 10.5.1

HawleyGulch_DWM-186-IGS_10-3_GDB.mxd — ESRI project file for ArcMap File Geodatabase for ArcMap 10-3

\Basemap[folder] — Scanned and georectified Hawley Gulch, Idaho, Topographic Map mapped, edited, and published by the Geological Survey, 1951; photoinspected 1975.

- HawleyGulch_base_DWM-186.tif

\Fonts[folder] — These fonts are optional. Only install in the Windows\Fonts folder if you want to access special geologic glyphs or the IGS geologic symbol set used in the MXD included with this data set.

FGDCGA__.TTF — FGDC GeoAge font, TrueType font. Has Triassic, Pennsylvanian, Cambrian glyphs

IGSGeologicSymbols-Regular.ttf — IGS symbol set, TrueType font

Special Geologic Glyphs/Font characters are used in the FGDC GeoAge font. To produce the three special geologic age characters, use the following key strokes:

- Pennsylvanian character = “*”
- Cambrian character = “ ”
- Triassic character = “^”

To see the correct glyph, install the included FGDC GeoAge font. These character substitutions are used in several fields within several Feature Classes in this data set.

Feature classes included in the Geodatabase dataset:

(Look in folder “\HawleyGulch_DWM-186-Shapefiles” for shapefile versions)

Spatial data feature classes:

CartographicLines — Polyline feature classes representing the location of cross section.

CartographicPoints — Point feature classes used for line decorations on faults.

ContactsAndFaults — Polyline feature classes representing the geologic map unit boundaries and faults. Faults may be boundaries for polygons illustrating contacts or dangling arcs illustrating fault lines. Use the “type” field to classify or to link to the Glossary.

GeoChem — Point feature class representing rock samples collected for chemical analysis.

GeologicLines — Polylines depicting geologic mapped features, e.g., landslide headwall scarps, terrace scarps, or avalanche trace.

GeologicPoints — Geologic Point features showing located geologic (point) objects, e.g., fault breccia, non-oriented structure symbols. Use the "Type" field to classify by type and to link to Glossary if desired.

MapUnitPolys — Geologic map unit polygons. These are the main feature of this dataset. Descriptions for these units can be found in the DescriptionOfMapUnits feature class/table.

OrientationsPoints — Orientation Point data. For example, strike and dip and foliations measurements. Intended for non-site-specific investigations. Use the "type" field to classify or to link to the Glossary.

Non Spatial data tables:

Note: Look in folder "\HawleyGulch_DWM-186_Shapefiles \Non-SpatialDataTables" for non-Microsoft versions of these tables. Two types: .dbf (standard database file) and .csv (comma delimited text).

DataSources — Sources of geologic mapping. Link via DataSourceID in feature class to DataSources_ID in Sources.

DescriptionOfMapUnits — Table with map unit descriptions. Use MapUnit field to link to MapUnitPolygons or Dikes.

Glossary — Look up table with explanations for geologic features found in all spatial classes. For example, moraine_crest: Definition--glacial moraine ridge crest. Features in feature classes can be linked to Glossary via "Type" in feature class to "IGSGeoType" in Glossary.

Credits:

Science data credit: William M. Phillips, Renee L. Love, Dennis M. Feeney

GIS credit: Linda Tedrow and Loudon R. Stanford

Use limitations:

Geologic map data intended for non-site-specific use. These data were compiled from 1:24,000 geologic mapping and should not be used at larger scales, e.g., 1:12,000. Use the DataSources table and the DataSourceID in each Feature Class (but especially the ContactsAndFaults FeatureClass/Layer) to determine original intended scale.

The Idaho Geological Survey does not guarantee this map or digital data to be free of errors nor assume liability for interpretations made from this map or digital data, or decisions based thereon.

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