

**File Name:** BonnersEast30x60\_DWM-173-IGS\_readme.docx

Personal and File Geodatabase (GIS data) for the *Geologic Map of the East Half of the Bonners Ferry 30 x 60 Minute Quadrangle, Idaho and Montana, 2014*, Idaho Geological Survey Digital Web Map 173 (DWM-173), GIS Dataset

Conversion Start Date: 5/23/2017

**SEE METADATA attached to this Geodatabase (and Shape Files) data set for more information**

**Introduction:**

These data were created from original field work or compiled from existing geologic map data at scales of from 1:24,000 to 1:75,000. Data source is the IGS publication DWM-173, *Geologic Map of the East Half of the Bonners Ferry 30 x 60 Minute Quadrangle, Idaho and Montana, 2014*. This Personal Geodatabase (and File Geodatabase) is approximately compliant with the draft standard for publication of digital geologic maps (NCGMP09). 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 mapping where possible. The DWM-173 publication was generated from a subset of information from this compiled GIS data set.

Shape files derived from the geodatabase are included with this dataset.

**Projection:**

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

**Files included with this data set:**

BonnersEast30x60.dwg—Original AutoCAD 2002 geologic map data (the Geodatabase was derived from these data).

BonnersEast30x60\_DWM-173-IGS.mdb—Main geologic Geodatabase data set. Personal Geodatabase

\\BonnersEast30x60\_DWM-173-IGS.gdb [folder, file geodatabase]—Main geologic Geodatabase data set. File Geodatabase

\\BonnersEast30x60\_DWM-173\_ShapeFiles [folder]—Simple shape files derived from the Geodatabase

\\Non-SpatialTables [folder] (see below for details about non-spatial tables)

BonnersEast30x60\_DWM-173-IGS\_readme.docx—Readme file (this document) in MS Word format

BonnersEast30x60\_DWM-173-IGS\_readme.pdf—Readme file (this document) in PDF format

BonnersEast30x60\_DWM-173-IGS\_readme.txt—Readme file (this document) in ASCII text format

BonnersEast30x60\_DWM-173\_m.pdf—Original geologic map online publication in PDF format.

BonnersEast30x60\_DWM-173\_b.pdf—Original geologic map booklet online publication in PDF format.

Bonnereast30x60\_DWM-173.rtf—Original geologic map booklet online publication in RTF format.

Bonnereast30x60\_DWM-173Metadata.xml —Metadata in XML format

Bonnereast30x60\_DWM-173Metadata.pdf —Metadata in PDF format

Bonnereast30x60\_DWM-173-IGS\_10-3-1.mxd— ESRI project file for ArcMap Personal Geodatabase for ArcMap 10.3.1

Bonnereast30x60\_DWM-173-IGS\_10-0.mxd—ESRI project file for ArcMap Personal Geodatabase 10.0

Bonnereast30x60\_DWM-173-IGS\_10-3-1GDB.mxd— ESRI project file for ArcMap File Geodatabase for ArcMap 10.3.1

Bonnereast30x60\_DWM-173-IGS\_10-0GDB1.mxd— ESRI project file for ArcMap File Geodatabase for ArcMap 10.0

\Basemaps[folder] --- Georeferenced Bonners Ferry (East Half) 1:100,000 Topographic 1983 USGS base map.

\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, the following key strokes are used.:

- 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.

\Colors[folder]---Colors used for polygons on published map (does not include units where patterns were applied in Adobe Illustrator):

1) .RGB file: CMYK colors for MapUnitPolys in CSV format;

2).AVL (ArcView style file). Use the .AVL to import: *in ArcMap*: MapUnitPolys→Symbology Tab→Import→Import symbology...from... (\*.avl)

### **Feature classes included in the Geodatabase dataset:**

(Look in folder “\Bonnereast30x60\_DWM-173\_ShapeFiles” for shape file versions)

Spatial data feature classes:

MapUnitCentroids--Map unit polygon annotations (Labels)

CartographicLines--Line decorations for various polyline feature classes, e.g., tics for landslide scarps

Contacts--Geologic map unit boundaries. Contacts only, no dangler faults. Used to build map unit polygons

ContactsAndFaults--Geologic map unit boundaries and ALL faults included. This includes dangler fault lines. Use the “type” field to classify or to link to the Glossary.

Faults--Geologic faults. Includes all faults; both dangler faults and contact-faults. Use the “type” field to classify or to link to the Glossary.

Dikes--Geologic dikes (lines too small to map as polygons). Use the MapUnit field to classify or to link to the DescriptionOfMapUnits table.

Geologic Points--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.

Orientations Points--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.

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

MapUnitPolygons--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.

GlacialTunnelArea\_OverLayPolys--Areas of subglacial tunnel erosion and scattered kame deposits.

#### Non Spatial data tables:

*Note: Look in folder “\BonnersEast30x60\_ShapeFiles \Non-SpatialTables” for non-Microsoft versions of these tables. Two types: dBase III, and .csv (comma delimited text).*

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.

DataSources--Sources of geologic mapping. Link via DataSourceID in feature class to DataSources\_ID in Sources.

DataDictionary—Listing and information about fields in most Feature Classes and tables

#### **Credits:**

Science data credit: Roy M. Breckenridge, Russell F. Burmester, Reed S. Lewis, and Mark D. McFaddan

GIS credit: Loudon R. Stanford, William R. Schuster, Jane S. Freed, and Collette Gantenbein

#### **Use limitations:**

Geologic map data intended for non-site-specific use. These data were compiled from 1:24,000-1:75,000 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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