MPBsites
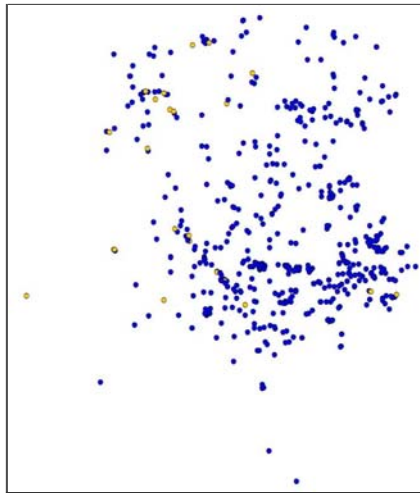## File Geodatabase Feature Class

Tags
wells, outcrops, Moscow-Pullman basin

Summary

These data were prepared to identify and describe the geology of 525 water and test wells and important rock outcrops which are likely to be useful in further geological and hydrological endeavors to better understand the subsurface geology and model aquifers in the Moscow-Pullman basin in northern Idaho and southeastern Washington.

Description

The dataset provides location information for 503 water and test wells and 22 important rock outcrops used to interpret the subsurface geology of the Moscow-Pullman basin and vicinity.

Credits

John H. Bush and Pamela Dunlap collected data for water and test wells, identified those wells and rock outcrops deemed important to the understanding of the geology of the area, and visited many of the sites to verify location information. Geologic interpretations of well drillers' reports were made by John H. Bush. Pamela Dunlap designed the digital data model and prepared it for use in a geographic information system (GIS).

Use limitations
There are no access and use limitations for this item.

Extent
West -117.486060   **East** -116.912599
North 47.007585   **South** 46.536470

Scale Range
Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE   geoscientificInformation

CONTENT TYPE   Downloadable Data
 EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION   No

PLACE KEYWORDS   Moscow, Idaho

PLACE KEYWORDS   Pullman, Washington

PLACE KEYWORDS   Colfax, Washington

PLACE KEYWORDS   Palouse, Washington

PLACE KEYWORDS   Latah County, Idaho

PLACE KEYWORDS   Whitman County, Washington

Hide Topics and Keywords ▲

Citation ▶

TITLE   MPBsites
CREATION DATE   2018-12-17   00:00:00
PUBLICATION DATE   2018-12-17   00:00:00

PRESENTATION FORMATS   digital map
FGDC GEOSPATIAL PRESENTATION FORMAT   vector digital data

SERIES
 NAME   Idaho Geological Survey Technical Report
 ISSUE   18-4

OTHER CITATION DETAILS
 Bush, J.H., and Dunlap, Pamela, 2018, Geologic interpretations of wells and important rock outcrops in the Moscow-Pullman basin and vicinity, Idaho and Washington: Idaho Geological Survey Technical Report 18-4, 1993 p. and digital data.

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY
 INDIVIDUAL'S NAME   John H. Bush
 ORGANIZATION'S NAME   University of Idaho
 CONTACT'S POSITION   Professor Emeritus
 CONTACT'S ROLE   author

  CONTACT INFORMATION   ▶
   ADDRESS
    TYPE   postal
    DELIVERY POINT   University of Idaho
    CITY   Moscow
    ADMINISTRATIVE AREA   Idaho

POSTAL CODE   83844-3022
COUNTRY   US
DELIVERY POINT   Dept. of Geological Sciences
DELIVERY POINT   875 Perimeter Drive, M.S. 3022
E-MAIL ADDRESS   pjbush43@gmail.com

Hide Contact information ▲

RESPONSIBLE PARTY
   INDIVIDUAL'S NAME   Pamela Dunlap
   CONTACT'S POSITION   Geologist
   CONTACT'S ROLE   originator

      CONTACT INFORMATION   ►
         ADDRESS
            TYPE
            E-MAIL ADDRESS   pdunlap23@gmail.com

      Hide Contact information ▲

Hide Citation Contacts ▲

Resource Details ►

DATASET LANGUAGES   English (UNITED STATES)
DATASET CHARACTER SET   utf8 - 8 bit UCS Transfer Format

STATUS   completed
SPATIAL REPRESENTATION TYPE   vector

* PROCESSING ENVIRONMENT   Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.6.0.8321

CREDITS
   John H. Bush and Pamela Dunlap collected data for water and test wells, identified those wells and rock outcrops deemed important to the understanding of the geology of the area, and visited many of the sites to verify location information. Geologic interpretations of well drillers' reports were made by John H. Bush. Pamela Dunlap designed the digital data model and prepared it for use in a geographic information system (GIS).

ArcGIS ITEM PROPERTIES
   * NAME   MPBsites
   * LOCATION   file://\\~\MPBdataGIS\MPBasin.gdb

Hide Resource Details ▲

Extents ►

EXTENT
   VERTICAL EXTENT
      * MINIMUM VALUE   760.000000
      * MAXIMUM VALUE   3260.000000

EXTENT

GEOGRAPHIC EXTENT
  BOUNDING RECTANGLE
    EXTENT TYPE   Extent used for searching
    * WEST LONGITUDE   -117.486060
    * EAST LONGITUDE   -116.912599
    * NORTH LATITUDE   47.007585
    * SOUTH LATITUDE   46.536470
    * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
    * WEST LONGITUDE   -117.486060
    * EAST LONGITUDE   -116.912599
    * SOUTH LATITUDE   46.536470
    * NORTH LATITUDE   47.007585
    * EXTENT CONTAINS THE RESOURCE   Yes

Hide Extents ▲

Resource Maintenance ►

RESOURCE MAINTENANCE
  UPDATE FREQUENCY   not planned

Hide Resource Maintenance ▲

Spatial Reference ►

ARCGIS COORDINATE SYSTEM
    * TYPE   Geographic
    * GEOGRAPHIC COORDINATE REFERENCE   GCS_WGS_1984
    * COORDINATE REFERENCE DETAILS
    GEOGRAPHIC COORDINATE SYSTEM
      WELL-KNOWN IDENTIFIER   4326
      X ORIGIN   -400
      Y ORIGIN   -400
      XY SCALE   999999999.99999988
      Z ORIGIN   -100000
      Z SCALE   10000
      M ORIGIN   -100000
      M SCALE   10000
      XY TOLERANCE   8.983152841195215e-09
      Z TOLERANCE   0.001
      M TOLERANCE   0.001
      HIGH PRECISION   true
      LEFT LONGITUDE   -180
      LATEST WELL-KNOWN IDENTIFIER   4326
      VCSWKID   115700
      LatestVCSWKID   115700
      WELL-KNOWN TEXT   GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
      ["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
      ["Degree",0.0174532925199433]],VERTCS["WGS_1984",DATUM
      ["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PARAMETER
      ["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]]

REFERENCE SYSTEM IDENTIFIER
    * VALUE   4326
    * CODESPACE   EPSG

* VERSION   6.14(3.0.1)

Hide Spatial Reference ▲

Spatial Data Properties ▶

VECTOR ▶
* LEVEL OF TOPOLOGY FOR THIS DATASET   geometry only

GEOMETRIC OBJECTS
   FEATURE CLASS NAME   MPBsites
   * OBJECT TYPE   point
   * OBJECT COUNT   525

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ▶
   FEATURE CLASS NAME   MPBsites
   * FEATURE TYPE   Simple
   * GEOMETRY TYPE   Point
   * HAS TOPOLOGY   FALSE
   * FEATURE COUNT   525
   * SPATIAL INDEX   TRUE
   * LINEAR REFERENCING   FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Lineage ▶

LINEAGE STATEMENT
   Water well drillers' reports were acquired from online databases maintained by the
   Washington Department of Ecology and the Idaho Department of Water Resources. Property
   information with regards to verifying owners (past and current), Public Land Survey
   (township, range, section and subdivisions), and street address was primarily acquired from
   online databases maintained by Whitman and Latah Counties.

Hide Lineage ▲

Distribution ▶

DISTRIBUTION FORMAT
   * NAME   File Geodatabase Feature Class

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT MPBsites   ▶
   TYPE   Feature Class of points
   ROW COUNT   525
   DEFINITION
      Dataset of wells and outcrops in the Moscow-Pullman basin and vicinity, Idaho and
      Washington

FIELD OBJECTID ▶
* ALIAS   OBJECTID
* DATA TYPE   OID
* WIDTH   4
* PRECISION   0
* SCALE   0
* FIELD DESCRIPTION
  Internal feature number.

* DESCRIPTION SOURCE
  Esri

* DESCRIPTION OF VALUES
  Sequential unique whole numbers that are automatically generated.

Hide Field OBJECTID ▲

FIELD SHAPE ▶
* ALIAS   SHAPE
* DATA TYPE   Geometry
* WIDTH   0
* PRECISION   0
* SCALE   0
* FIELD DESCRIPTION
  Feature geometry.

* DESCRIPTION SOURCE
  Esri

* DESCRIPTION OF VALUES
  Coordinates defining the features.

Hide Field SHAPE ▲

FIELD Site_ID ▶
* ALIAS   Site_ID
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
  FIELD DESCRIPTION
    Site Identifier — Unique numeric identifier for well or outcrop

  RANGE OF VALUES
    MINIMUM VALUE   1
    MAXIMUM VALUE   525

Hide Field Site_ID ▲

FIELD Site_name ►
* ALIAS   Site_name
* DATA TYPE   String
* WIDTH   40
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Unique name assigned to well or outcrop; wells are identified by original owner's name, followed by a number if multiple wells were drilled for the same owner(s); outcrops are identified generically as 'Outcrop' followed by number ranging from 1 to 22. Site_name generally reflects the name entered on the driller's report; however, known misspellings were corrected.

Hide Field Site_name ▲

FIELD Rec_Type ►
* ALIAS   Rec_Type
* DATA TYPE   String
* WIDTH   10
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Record Type — Term that distinguishes whether surface or subsurface geologic data are available

LIST OF VALUES
VALUE   well
DESCRIPTION   Water or test well for which subsurface data is available

VALUE   outcrop
DESCRIPTION   Important rock outcrop that displays one or more geologic rock units at the surface

Hide Field Rec_Type ▲

FIELD Latitude ►
* ALIAS   Latitude
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Latitude

RANGE OF VALUES
UNITS OF MEASURE   decimal degrees

Hide Field Latitude ▲

FIELD Longitude ►
* ALIAS   Longitude
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION

Longitude

RANGE OF VALUES
   UNITS OF MEASURE   decimal degrees

Hide Field Longitude ▲

FIELD Land_Elev ▶
   * ALIAS   Land_Elev
   * DATA TYPE   Double
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      Land Elevation — Surface elevation at well site or rock outcrop

   RANGE OF VALUES
      MINIMUM VALUE   760
      MAXIMUM VALUE   3260
      UNITS OF MEASURE   feet

Hide Field Land_Elev ▲

FIELD WellDepth ▶
   * ALIAS   WellDepth
   * DATA TYPE   Double
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      Well Depth — Total depth of well

   LIST OF VALUES
      VALUE   0
      DESCRIPTION   Site is an outcrop

   RANGE OF VALUES
      MINIMUM VALUE   0
      MAXIMUM VALUE   2224
      UNITS OF MEASURE   feet

Hide Field WellDepth ▲

FIELD TD_Elev ▶
   * ALIAS   TD_Elev
   * DATA TYPE   Double
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      Total Depth Elevation — Elevation at bottom of well

   LIST OF VALUES
      VALUE   NULL
      DESCRIPTION   NULL indicates site is an outcrop

RANGE OF VALUES
MINIMUM VALUE   190.12
MAXIMUM VALUE   3050
UNITS OF MEASURE   feet

Hide Field TD_Elev ▲

FIELD Yr_drilled ►
* ALIAS   Yr_drilled
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Year Drilled — Year in which well was drilled

LIST OF VALUES
VALUE   NULL
DESCRIPTION   Year well was drilled is unknown; outcrops are coded as NULL

RANGE OF VALUES
MINIMUM VALUE   1920
MAXIMUM VALUE   2018
UNITS OF MEASURE   year

Hide Field Yr_drilled ▲

FIELD H2O_static ►
* ALIAS   H2O_static
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Static Water Level — Static level of water as recorded by driller

LIST OF VALUES
VALUE   NULL
DESCRIPTION   Static level not recorded

RANGE OF VALUES
MINIMUM VALUE   0
MAXIMUM VALUE   520
UNITS OF MEASURE   feet

Hide Field H2O_static ▲

FIELD H2O_gpm ►
* ALIAS   H2O_gpm
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Yield — Water yield, as recorded by driller

LIST OF VALUES
 VALUE NULL
 DESCRIPTION Yield not recorded

RANGE OF VALUES
 MINIMUM VALUE 0
 MAXIMUM VALUE 3100
 UNITS OF MEASURE gallons per minute (gpm)

Hide Field H2O_gpm ▲

FIELD Loc_Notes ▶
 * ALIAS Loc_Notes
 * DATA TYPE String
 * WIDTH 225
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
  Location Notes — Brief location notes with respect to (1) source of latitude, longitude, and (or) elevation, if other data were relied upon, and (2) the side of the road on which the site is located.

Hide Field Loc_Notes ▲

FIELD Tax_Parcel ▶
 * ALIAS Tax_Parcel
 * DATA TYPE String
 * WIDTH 25
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
  Property tax parcel number, as assigned by county assessor

 DESCRIPTION SOURCE
  Latah County Assessors Office, Moscow, Idaho; Whitman County Assessors Office, Colfax, Washington

 LIST OF VALUES
  VALUE NULL
  DESCRIPTION Parcel number unknown or not determined

 BEGINNING DATE OF VALUES 2016-04-11
 ENDING DATE OF VALUES 2018-10-06

Hide Field Tax_Parcel ▲

FIELD Site_Visit ▶
 * ALIAS Site_Visit
 * DATA TYPE Date
 * WIDTH 8
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
  Date of visit by the authors to verify location of site (well or outcrop) or street address for property.

LIST OF VALUES
   VALUE NULL
   DESCRIPTION Site was not visited by the authors

BEGINNING DATE OF VALUES 2015-08-25
ENDING DATE OF VALUES 2018-04-01

Hide Field Site_Visit ▲

FIELD Geol_Log ►
  * ALIAS Geol_Log
  * DATA TYPE String
  * WIDTH 90
  * PRECISION 0
  * SCALE 0
  FIELD DESCRIPTION
    Geologic Log — Path and file name of individual well or outcrop report; reports contain location information, a geologic interpretation of the well driller's log or a description of the outcrop, and screen shots of the site as located on Google Earth Pro imagery (dated June 50, 2015); photographs of wells and outcrops also may be included. This field can be hyperlinked within an ArcMap map document to display the interpretive geologic report in PDF (Adobe Acrobat Portable Document File) format when the Identity tool is used to select a site onscreen. (See "Using Hyperlinks" in ArcGIS Help for instructions on setting and using hyperlinks.)

Hide Field Geol_Log ▲

FIELD Business ►
  * ALIAS Business
  * DATA TYPE String
  * WIDTH 60
  * PRECISION 0
  * SCALE 0
  FIELD DESCRIPTION
    Name of business, commercial, governmental, or institutional entity, if owner is listed as such on water well driller's report.

LIST OF VALUES
   VALUE NULL
   DESCRIPTION Property owner is unknown or property owner is a private individual

Hide Field Business ▲

FIELD Site_Desc ►
  * ALIAS Site_Desc
  * DATA TYPE String
  * WIDTH 30
  * PRECISION 0
  * SCALE 0
  FIELD DESCRIPTION
    Site Description — Term that describes the physical nature of the site

Hide Field Site_Desc ▲

FIELD Street_No ►

* ALIAS   Street_No
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Street number, if known

LIST OF VALUES
   VALUE   NULL
   DESCRIPTION   Street number is unknown

Hide Field Street_No ▲

FIELD Street ▶
* ALIAS   Street
* DATA TYPE   String
* WIDTH   40
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Street name; queried where uncertain

Hide Field Street ▲

FIELD City ▶
* ALIAS   City
* DATA TYPE   String
* WIDTH   20
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   City or town

LIST OF VALUES
   VALUE   Albion

   VALUE   Almota

   VALUE   Colfax

   VALUE   Colton

   VALUE   Elberton

   VALUE   Garfield

   VALUE   Johnson

   VALUE   Moscow

   VALUE   Palouse

   VALUE   Pullman

   VALUE   Uniontown

VALUE   Viola

Hide Field City ▲

FIELD State ►
* ALIAS   State
* DATA TYPE   String
* WIDTH   15
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
State

LIST OF VALUES
VALUE   Idaho

VALUE   Washington

Hide Field State ▲

FIELD Topo_Quad ►
* ALIAS   Topo_Quad
* DATA TYPE   String
* WIDTH   30
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Topographic Quadrangle — U.S. Geological Survey 7.5-minute quadrangle map

LIST OF VALUES
VALUE   Albion

VALUE   Almota

VALUE   Colfax North

VALUE   Colfax South

VALUE   Colton

VALUE   Elberton

VALUE   Ewartsville

VALUE   Garfield

VALUE   Granite Point

VALUE   Moscow East

VALUE   Moscow West

VALUE   Palouse

VALUE   Pullman

VALUE   Robinson Lake

VALUE   Uniontown

VALUE   Viola

Hide Field Topo_Quad ▲

FIELD Well_Type ▶
* ***** ALIAS   Well_Type
* ***** DATA TYPE   String
* ***** WIDTH   25
* ***** PRECISION   0
* ***** SCALE   0

Hide Field Well_Type ▲

Hide Details for object MPBsites ▲

Hide Fields ▲

Metadata Details ▶

METADATA LANGUAGE   English (UNITED STATES)
METADATA CHARACTER SET   utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA   dataset
SCOPE NAME   ***** dataset

* LAST UPDATE   2018-12-17

ARCGIS METADATA PROPERTIES
   METADATA FORMAT   ArcGIS 1.0
   METADATA STYLE   FGDC CSDGM Metadata
   STANDARD OR PROFILE USED TO EDIT METADATA   FGDC

   CREATED IN ARCGIS FOR THE ITEM   2018-11-03   12:01:50
   LAST MODIFIED IN ARCGIS FOR THE ITEM   2018-12-17   15:29:13

   AUTOMATIC UPDATES
      HAVE BEEN PERFORMED   Yes
      LAST UPDATE   2018-12-17   15:29:13

Hide Metadata Details ▲

Metadata Maintenance ▶

MAINTENANCE
   UPDATE FREQUENCY   not planned

Hide Metadata Maintenance ▲

Metadata Constraints ▶

CONSTRAINTS
LIMITATIONS OF USE

There are no access and use limitations for this dataset. The location data are considered to be the best available at this time. Although our review of the data was extensive, the user needs to be aware that it is possible that the well log may not represent the location given in this database for the well.

LEGAL CONSTRAINTS
OTHER CONSTRAINTS

No warranties, expressed or implied, are provided for the data provided, its use, or its interpretation. In using the data, users further agree to indemnify, defend, and hold harmless the authors for any and all liability of any nature arising out of or resulting from the lack of accuracy, currency or completeness, or correctness of the data, the use or misuse of the data.

Hide Metadata Constraints ▲

Thumbnail and Enclosures ▶

THUMBNAIL
THUMBNAIL TYPE   JPG

Hide Thumbnail and Enclosures ▲

FGDC Metadata (read-only) ▼