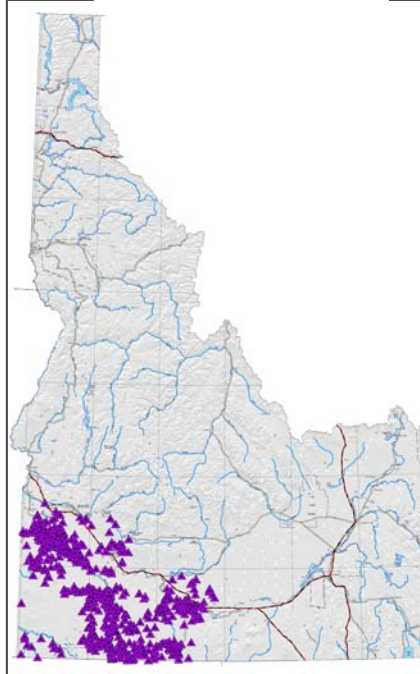


Major-oxide and trace-element analyses of igneous rock samples from southwest Idaho, 1970-2002, Idaho Geological Survey Digital Analytical Data 16, Version 12.2018.4

Excel Spreadsheet



Tags

whole-rock chemical analyses, igneous rock, southwest Idaho, Snake River Plain, IGS DWM-80, IGS T-98-1

Summary

This file provides whole-rock chemical analyses, sample locations, and other relevant data on igneous rock samples collected from 1970 through 2002 by former Idaho Geological Survey (IGS) employees Bill Bonnichsen and Margaret Jenks, and their associates, in support of research of the west and central Snake River Plain, Idaho.

Description

DAD-16 presents a compilation of analytical and location data for samples collected in support of two IGS published geologic maps: 1) the Geologic map of the Murphy 30 x 60' quadrangle (IGS DWM-80, 2006); and 2) the Geologic map of the Grandview-Bruneau area (IGS T-98-1, 1998). Sample locations were derived from Bonnichsen and Jenk's field maps and field notebooks. The precision of the location data is low and at best may represent a general area of collection. Some analyses have previously been published, as noted in the "reference" column, but are included here due to updated location data and/or more analyses available. Since publishing DWM-80 and T-98-1, Bonnichsen has modified and refined several unit names and codes. Unit_Names/Map_unit_codes published here will supersede the information found on the IGS maps.

Credits

Bonnichsen, Bill, 1982, Rhyolite lava flows in the Bruneau-Jarbidge eruptive center, southwestern Idaho, in Bill Bonnichsen and R.M. Breckinridge, editors, *Cenozoic Geology of Idaho: Idaho Bureau of Mines and Geology, Bulletin 26*, p. 283-320.7

Bonnichsen, Bill, and Godchaux, M.M., 2002, Late Miocene, Pliocene, and Pleistocene Geology of Southwestern Idaho with emphasis on basalts in the Bruneau-Jarbidge, Twin Falls, and Western Snake River Plain Regions, in Bill Bonnichsen, C.M. White, and Michael McCurry, eds., *Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province: Idaho Geological Survey, Bulletin 30*, p. 233-312.

Bonnichsen, Bill, and Kauffman, D.F., 1987, Physical features of rhyolite lava flows in the Snake River Plain volcanic province, southwestern Idaho, in J.H. Fink, ed., *The Emplacement of silicic domes and lava flows: Geological Society of America Special Papers 212*, p. 119-145.

Bonnichsen, Bill, Leeman, W.P., Honjo, N., McIntosh, W.C., and Godchaux, M.M., 2008, Miocene silicic volcanism in southwestern Idaho; geochronology, geochemistry, and evolution of the central Snake River Plain: *Bulletin of Volcanology*, v. 70, n. 3, p. 315-342.

White, C.M., Hart, W.K., Bonnichsen, Bill, and Matthews, Debora, 2002, Geochemical and Sr-isotopic variations in western Snake River Plain basalts, Idaho, in Bill Bonnichsen, C.M. White, and Michael McCurry, eds., *Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province: Idaho Geological Survey, Bulletin 30*, p. 329-342.

Godchaux, M.M., and Bonnichsen, Bill, 2002, Syneruptive magma-water and post-eruptive lava-water interactions in the western Snake River Plain, Idaho, during the past 12 million years, in Bill Bonnichsen, C.M. White, and Michael McCurry, eds., *Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province: Idaho Geological Survey, Bulletin 30*, p. 387-434."

Use limitations

There are no access and use limitations for this item.

Extent

West -116.997409 **East** -114.147225
North 43.688511 **South** 41.996689

Scale Range

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

ArcGIS Metadata ►

Topics and Keywords ►

* CONTENT TYPE Downloadable Data

Hide Topics and Keywords ▲

Citation ►

TITLE Major-oxide and trace-element analyses of igneous rock samples from southwest Idaho, 1970-2002, Idaho Geological Survey Digital Analytical Data 16, Version 12.2018.4 **PRESENTATION**

FORMATS * digital map

[Hide Citation ▲](#)

Resource Details ►

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

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.5.1.7333

CREDITS

Bonnichsen, Bill, 1982, Rhyolite lava flows in the Bruneau-Jarbidge eruptive center, southwestern Idaho, in Bill Bonnichsen and R.M. Breckinridge, editors, Cenozoic Geology of Idaho: Idaho Bureau of Mines and Geology, Bulletin 26, p. 283-320.7

Bonnichsen, Bill, and Godchaux, M.M., 2002, Late Miocene, Pliocene, and Pleistocene Geology of Southwestern Idaho with emphasis on basalts in the Bruneau-Jarbidge, Twin Falls, and Western Snake River Plain Regions, in Bill Bonnichsen, C.M. White, and Michael McCurry, eds., Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province: Idaho Geological Survey, Bulletin 30, p. 233-312.

Bonnichsen, Bill, and Kauffman, D.F., 1987, Physical features of rhyolite lava flows in the Snake River Plain volcanic province, southwestern Idaho, in J.H. Fink, ed., The Emplacement of silicic domes and lava flows: Geological Society of America Special Papers 212, p. 119-145.

Bonnichsen, Bill, Leeman, W.P., Honjo, N., McIntosh, W.C., and Godchaux, M.M., 2008, Miocene silicic volcanism in southwestern Idaho; geochronology, geochemistry, and evolution of the central Snake River Plain: Bulletin of Volcanology, v. 70, n. 3, p. 315-342.

White, C.M., Hart, W.K., Bonnichsen, Bill, and Matthews, Debora, 2002, Geochemical and Sr-isotopic variations in western Snake River Plain basalts, Idaho, in Bill Bonnichsen, C.M. White, and Michael McCurry, eds., Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province: Idaho Geological Survey, Bulletin 30, p. 329-342.

Godchaux, M.M., and Bonnichsen, Bill, 2002, Syneruptive magma-water and post-eruptive lava-water interactions in the western Snake River Plain, Idaho, during the past 12 million years, in Bill Bonnichsen, C.M. White, and Michael McCurry, eds., Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province: Idaho Geological Survey, Bulletin 30, p. 387-434."

ARCGIS ITEM PROPERTIES

* NAME DAD-16_GCS_na_27

* SIZE 0.037

* LOCATION file://\igs-rift\GeoChem\DAD_publications\DAD-16\DAD-16_GCS_na_27.shp

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

- * WEST LONGITUDE -116.997409
- * EAST LONGITUDE -114.147225
- * NORTH LATITUDE 43.688511
- * SOUTH LATITUDE 41.996689
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE -116.997409
- * EAST LONGITUDE -114.147225
- * SOUTH LATITUDE 41.996689
- * NORTH LATITUDE 43.688511
- * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Geographic
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1927
- * COORDINATE REFERENCE DETAILS

GEOGRAPHIC COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 4267
 X ORIGIN -400
 Y ORIGIN -400
 XY SCALE 11258999068426.238
 Z ORIGIN -100000
 Z SCALE 10000
 M ORIGIN -100000
 M SCALE 10000
 XY TOLERANCE 8.9830550972891565e-009
 Z TOLERANCE 0.001
 M TOLERANCE 0.001
 HIGH PRECISION true
 LEFT LONGITUDE -180
 LATEST WELL-KNOWN IDENTIFIER 4267
 WELL-KNOWN TEXT GEOGCS["GCS_North_American_1927",DATUM
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 ["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4267]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 4267
- * CODESPACE EPSG
- * VERSION 8.4.1(3.0.1)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

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 * OBJECT TYPE point
 * OBJECT COUNT 1395

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

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- * GEOMETRY TYPE Point
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 1395
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

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[Hide Spatial Data Properties ▲](#)

Distribution ►

DISTRIBUTION FORMAT

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TRANSFER OPTIONS

- * TRANSFER SIZE 0.037

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT DAD-16_GCS_na_27 ►

- * TYPE Feature Class
- * ROW COUNT 1395

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- * SCALE 0
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- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

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- * FIELD DESCRIPTION
Feature geometry.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Coordinates defining the features.

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- * PRECISION 0
- * SCALE 0

Hide Field Lu_INAA ▲

FIELD Ta_INAA ▶

- * ALIAS Ta_INAA
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

Hide Field Ta_INAA ▲

FIELD B_INAA ▶

- * ALIAS B_INAA
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

Hide Field B_INAA ▲

FIELD Tm_INAA ▶

- * ALIAS Tm_INAA
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

Hide Field Tm_INAA ▲

Hide Details for object DAD-16_GCS_na_27 ▲

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 2018-12-04

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 2018-12-04 14:10:56
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2018-12-04 15:21:21

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
 LAST UPDATE 2018-12-04 15:18:10

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Linda Tedrow
 ORGANIZATION'S NAME Idaho Geological Survey
 CONTACT'S POSITION GIS Analyst
 CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE
 VOICE 208-885-7991

ADDRESS

TYPE postal
 DELIVERY POINT University of Idaho, 875 Perimeter Dr. MS 3014, 303 Morrill Hall
 CITY Moscow
 ADMINISTRATIVE AREA ID
 POSTAL CODE 83844
 COUNTRY US
 E-MAIL ADDRESS igs@uidaho.edu

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THUMBNAIL

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FGDC Metadata (read-only) ▼