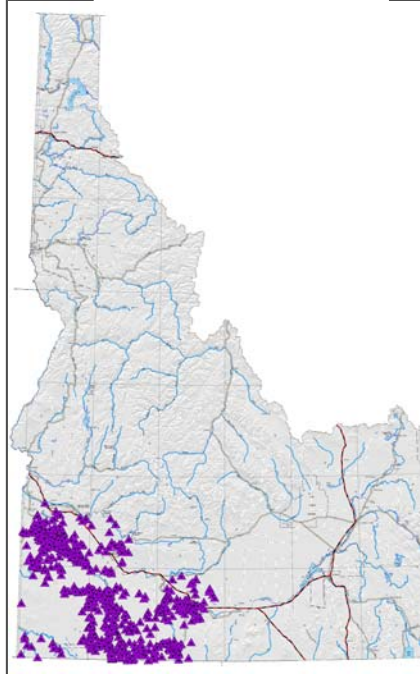


# Major-oxide and trace-element analyses of igneous rock samples from southwest Idaho, 1970-2002, Idaho Geological Survey Digital Analytical Data 16, Version 12.2018.4

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 Bonnicksen 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 Bonnicksen 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, Bonnicksen 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 ►

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#### 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

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 Y ORIGIN -400  
 XY SCALE 11258999068426.238  
 Z ORIGIN -100000  
 Z SCALE 10000  
 M ORIGIN -100000  
 M SCALE 10000  
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 Z TOLERANCE 0.001  
 M TOLERANCE 0.001  
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 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)

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## Spatial Data Properties ►

## VECTOR ►

- \* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

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 \* OBJECT TYPE point  
 \* OBJECT COUNT 1395

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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 ▲](#)

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DISTRIBUTION FORMAT

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TRANSFER OPTIONS

- \* TRANSFER SIZE 0.037

[Hide Distribution ▲](#)

## Fields ►

DETAILS FOR OBJECT DAD-16\_GCS\_na\_27 ►

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- \* ROW COUNT 1395

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Internal feature number.
- \* DESCRIPTION SOURCE  
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- \* DESCRIPTION OF VALUES  
Sequential unique whole numbers that are automatically generated.

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Feature geometry.
- \* DESCRIPTION SOURCE  
Esri
- \* DESCRIPTION OF VALUES  
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FIELD Nd\_INAA ►

- \* ALIAS Nd\_INAA
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field Nd\_INAA ▲*

FIELD Sm\_INAA ►

- \* ALIAS Sm\_INAA
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field Sm\_INAA ▲*

FIELD Eu\_INAA ►

- \* ALIAS Eu\_INAA
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field Eu\_INAA ▲*

FIELD Tb\_INAA ►

- \* ALIAS Tb\_INAA
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field Tb\_INAA ▲*

## FIELD Yb\_INAA ▶

- \* ALIAS Yb\_INAA
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field Yb\_INAA ▲*

## FIELD Lu\_INAA ▶

- \* ALIAS Lu\_INAA
- \* DATA TYPE Double
- \* WIDTH 19
- \* 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

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 COUNTRY US  
 E-MAIL ADDRESS [igs@uidaho.edu](mailto:igs@uidaho.edu)

[Hide Contact information ▲](#)

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## Thumbnail and Enclosures ►

#### THUMBNAIL

THUMBNAIL TYPE JPG

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## FGDC Metadata (read-only) ▼