

# Major Oxide and Trace Element Analyses for Igneous and Metamorphic Rock Samples From West-Central Idaho: Idaho Geological Survey Digital Analytical Data 14 (DAD-14): Version 8.2017.1

Excel Spread Sheet Version 14



## Tags

Major Oxide and Trace Element Analyses for Igneous and Metamorphic Rock Samples, West-Central Idaho

## Summary

This file provides analysis of whole-rock chemistry, sample locations, and lithology on 107 igneous and metamorphic rock samples, mostly collected from 2005 through 2012 in the Grangeville 30'x60' quadrangle.

## Description

This file provides analysis of whole-rock chemistry, sample locations, and lithology on 107 igneous and metamorphic rock samples, mostly collected from 2005 through 2012. Two of these analyses have previously been published in Idaho Geological Survey DAD-2 as noted in the "reference" column, but are included here with updated unit names and map references. XRF beads for 13 samples collected between 1959 and 1981 by Paul Myers were re-analyzed in 2007 and are also reported here. All of the samples were collected by personnel of the Idaho Geological Survey or by Paul Myers. Most of the samples are from Mesozoic plutonic bodies and metavolcanic units and the majority were collected to support geologic mapping efforts by the Idaho Geological Survey for the U.S. Geological Survey STATEMAP Program in the Grangeville 30'x60' quadrangle. The data are sorted by year collected and then sample number. For details on analytical methods at Washington State University, see: <http://cahnrs.wsu.edu/soe/facilities/geolab/technotes/>

## Credits

Reed S. Lewis and Paul E. Myers

## Use limitations

None

## Extent

**West** -116.91403    **East** -115.8182  
**North** 45.99574    **South** 45.38335

## 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 for Igneous and Metamorphic Rock Samples From West-Central Idaho: Idaho Geological Survey Digital Analytical Data 14 (DAD-14): Version 8.2017.1

**PUBLICATION DATE** 2016-04-28 00:00:00

**PRESENTATION FORMATS** \* digital map

#### SERIES

**NAME** Digital Analytical Data

**ISSUE** 14

*Hide Citation ▲*

### Citation Contacts ►

#### RESPONSIBLE PARTY

**ORGANIZATION'S NAME** Idaho Geological Survey

**CONTACT'S ROLE** originator

#### CONTACT INFORMATION ►

##### PHONE

**VOICE** 208-885-7991

##### ADDRESS

**TYPE** physical

**DELIVERY POINT** 875 Perimeter Dr. MS 3014

**CITY** Moscow

**ADMINISTRATIVE AREA** Idaho

**POSTAL CODE** 83844-3014

**COUNTRY** US

**E-MAIL ADDRESS** IGS@uidaho.edu

[Hide Contact information ▲](#)[Hide Citation Contacts ▲](#)

## Resource Details ►

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

STATUS on-going  
 SPATIAL REPRESENTATION TYPE \* vector

\* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

CREDITS  
 Reed S. Lewis and Paul E. Myers

ARCGIS ITEM PROPERTIES  
 \* NAME DAD-14  
 \* SIZE 0.004  
 \* LOCATION file://\\igs-rift\GeoChem\DAD\_publications\Pending\DAD-14\Shape\DAD-14.shp  
 \* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

EXTENT  
 GEOGRAPHIC EXTENT  
 BOUNDING RECTANGLE  
 EXTENT TYPE Extent used for searching  
 WEST LONGITUDE -116.91403  
 EAST LONGITUDE -115.8182  
 NORTH LATITUDE 45.99574  
 SOUTH LATITUDE 45.38335  
 EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM  
 \* WEST LONGITUDE -116.914030  
 \* EAST LONGITUDE -115.818200  
 \* SOUTH LATITUDE 45.383350  
 \* NORTH LATITUDE 45.995740  
 \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

POINT OF CONTACT  
 ORGANIZATION'S NAME Idaho Geological Survey  
 CONTACT'S ROLE originator

CONTACT INFORMATION ►  
 PHONE

VOICE 208-885-7991

#### ADDRESS

TYPE physical  
 DELIVERY POINT 875 Perimeter Dr. MS 3014  
 CITY Moscow  
 ADMINISTRATIVE AREA Idaho  
 POSTAL CODE 83844-3014  
 COUNTRY US  
 E-MAIL ADDRESS IGS@uidaho.edu

*Hide Contact information ▲*

*Hide Resource Points of Contact ▲*

## Resource Maintenance ►

#### RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

*Hide Resource Maintenance ▲*

## Resource Constraints ►

#### CONSTRAINTS

LIMITATIONS OF USE

None

*Hide Resource Constraints ▲*

## 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  
 ["D\_North\_American\_1927",SPHEROID["Clarke\_1866",6378206.4,294.9786982]],PRIMEM  
 ["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4267]]

## REFERENCE SYSTEM IDENTIFIER

- \* VALUE 4267
- \* CODESPACE EPSG
- \* VERSION 8.6.2

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

## VECTOR ►

- \* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

## GEOMETRIC OBJECTS

- FEATURE CLASS NAME DAD-14
- \* OBJECT TYPE point
- \* OBJECT COUNT 136

[Hide Vector ▲](#)

## ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME DAD-14
- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Point
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 136
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Distribution ►

## DISTRIBUTION FORMAT

- NAME Excel Spread Sheet Version 14
- VERSION 14

## TRANSFER OPTIONS

- \* TRANSFER SIZE 0.004

[Hide Distribution ▲](#)

## Fields ►

## DETAILS FOR OBJECT DAD-14 ►

- \* TYPE Feature Class
- \* ROW COUNT 136

## FIELD FID ►

- \* ALIAS FID
- \* DATA TYPE OID
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

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Internal feature number.

\* 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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FIELD Reference ►

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FIELD Year ►

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\* SCALE 6

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FIELD **100k\_quad ▶**

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\* SCALE 0

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\* SCALE 6

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FIELD **Longitude\_ ▶**

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- \* PRECISION 15
- \* SCALE 6

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- \* SCALE 0

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FIELD Unit\_name ►

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- \* ALIAS Age
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- \* DATA TYPE String



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- \* SCALE 0

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FIELD Comments ►

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- \* PRECISION 0
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- \* PRECISION 0
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- \* SCALE 0

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- \* PRECISION 15
- \* SCALE 6

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FIELD TiO2 ►

- \* ALIAS TiO2
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- \* PRECISION 15
- \* SCALE 6

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FIELD Al2O3 ►

- \* ALIAS Al2O3
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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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FIELD FeO\_total ►

- \* ALIAS FeO\_total
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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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FIELD MnO ►

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- \* WIDTH 16
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FIELD MgO ►

- \* ALIAS MgO
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FIELD CaO ►

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- \* PRECISION 15
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## FIELD Na2O ►

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- \* PRECISION 15
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## FIELD K2O ►

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## FIELD P2O5 ►

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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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## FIELD Total ►

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## FIELD LOI ►

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- \* SCALE 0

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## FIELD SiO2\_norm ►

- \* ALIAS SiO2\_norm
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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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## FIELD TiO2\_norm ►

- \* ALIAS TiO2\_norm
- \* DATA TYPE Double
- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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## FIELD Al2O3\_norm ►

- \* ALIAS Al2O3\_norm
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- \* WIDTH 16
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- \* SCALE 6

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*Hide Field FeO\_total\_ ▲*

## FIELD MnO\_norm ►

- \* ALIAS MnO\_norm
- \* DATA TYPE Double
- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

*Hide Field MnO\_norm ▲*

## FIELD MgO\_norm ►

- \* ALIAS MgO\_norm
- \* DATA TYPE Double
- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

*Hide Field MgO\_norm ▲*

## FIELD CaO\_norm ►

- \* ALIAS CaO\_norm
- \* DATA TYPE Double
- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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## FIELD Na2O\_norm ►

- \* ALIAS Na2O\_norm
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- \* WIDTH 16
- \* PRECISION 15
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- \* PRECISION 15
- \* SCALE 6

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## FIELD P2O5\_norm ►

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## FIELD Ni\_XRF ►

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- \* PRECISION 15
- \* SCALE 6

[Hide Field Ni\\_XRF ▲](#)

FIELD Cr\_XRF ►

- \* ALIAS Cr\_XRF
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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

[Hide Field Cr\\_XRF ▲](#)

FIELD Sc\_XRF ►

- \* ALIAS Sc\_XRF
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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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FIELD V\_XRF ►

- \* ALIAS V\_XRF
- \* DATA TYPE Double
- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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FIELD Ba\_XRF ►

- \* ALIAS Ba\_XRF
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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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- \* WIDTH 16
- \* PRECISION 15
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FIELD Sr\_XRF ►

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- \* WIDTH 16
- \* PRECISION 15
- \* SCALE 6

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- \* PRECISION 15
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- \* WIDTH 16
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- \* DATA TYPE Double
- \* WIDTH 16
- \* PRECISION 15
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FIELD Zn\_XRF ►

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- \* PRECISION 15



\* SCALE 6

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FIELD Ce\_XRF ►

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FIELD Th\_XRF ►

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FIELD Nd\_XRF ►

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- \* ALIAS F103
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## FIELD F105 ▶

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## FIELD F106 ▶

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## FIELD F108 ▶

- \* ALIAS F108
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## FIELD F109 ▶

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FIELD F110 ▶

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FIELD F111 ▶

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FIELD F112 ▶

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FIELD F113 ▶

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FIELD F114 ▶

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- \* PRECISION 0
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FIELD F115 ▶

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FIELD F116 ▶

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FIELD F117 ▶

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FIELD F119 ▶

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FIELD F121 ▶

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\* SCALE 0

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FIELD F122 ►

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FIELD F123 ►

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[Hide Field F123 ▲](#)

FIELD F124 ►

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[Hide Field F124 ▲](#)

FIELD F125 ►

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FIELD F126 ►

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FIELD F127 ►

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[Hide Details for object DAD-14 ▲](#)

OVERVIEW DESCRIPTION ►

ENTITY AND ATTRIBUTE OVERVIEW

See "Explanation" sheet in Excel file for descriptions of data fields.

[Hide Overview Description ▲](#)

[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 2016-05-05

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 2016-05-05 14:47:17  
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-08-04 14:28:03

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
 LAST UPDATE 2017-08-04 14:28:03

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME Idaho Geological Survey  
 CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE  
 VOICE 208-885-7991

ADDRESS

TYPE physical  
 DELIVERY POINT 875 Perimeter Dr. MS 3014

CITY Moscow  
ADMINISTRATIVE AREA Idaho  
POSTAL CODE 83844-3014  
COUNTRY US  
E-MAIL ADDRESS IGS@uidaho.edu

*Hide Contact information ▲*

*Hide Metadata Contacts ▲*

## **Metadata Constraints ►**

CONSTRAINTS  
LIMITATIONS OF USE  
None

*Hide Metadata Constraints ▲*

## **Thumbnail and Enclosures ►**

THUMBNAIL  
THUMBNAIL TYPE JPG

*Hide Thumbnail and Enclosures ▲*

## **FGDC Metadata (read-only) ▼**