

# Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2006 compiled by John D. Kauffman, 2004: Idaho Geological Survey DAD-4

## Metadata:

### Identification Information:

#### [Section Index](#)

#### Citation:

##### Citation Information:

**Originator:** John D. Kauffman

**Publication Date:** 20070426

**Title:** *Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2006 compiled by John D. Kauffman, 2004: Idaho Geological Survey DAD-4*

**Edition:** 1.2007.04

**Geospatial Data Presentation Form:** point spread sheet data (Excel 9.0.x)

##### Series Information:

**Series Name:** Digital Analytical Data

**Issue Identification:** DAD-4

##### Publication Information:

**Publication Place:** Moscow, Idaho

**Publisher:** Idaho Geological Survey

**Online Linkage:** <http://www.idahogeology.org/>

#### Description:

##### Abstract:

##### Geochemistry sample data:

Geochemistry sample analysis data (point data) from Idaho

##### Purpose:

Geochemical analysis of rock samples in Idaho

#### Time Period of Content:

##### Time Period Information:

**Single Date/Time:**

**Calendar Date:** 20070426

**Currentness Reference:** publication date

**Status:**

**Progress:** complete

**Maintenance and Update Frequency:** As needed

**Spatial Domain:**

**Bounding Coordinates:**

**West Bounding Coordinate:** -117.051

**East Bounding Coordinate:** -112.0497

**North Bounding Coordinate:** 48.00714

**South Bounding Coordinate:** 42.39407

**Keywords:**

**Theme:**

**Theme Keyword Thesaurus:** none

**Theme Keyword:** geochemical data

**Place:**

**Place Keyword Thesaurus:** none

**Place Keyword:** Idaho

**Geology:**

**Geology Keyword Thesaurus:**

**Geology Keyword :** Geochemistry data

**Access Constraints:** none

**Use Constraints:** Digital compilation data intended for non site-specific investigations

**Point of Contact:**

**Contact Information:**

**Contact Person Primary:**

**Contact Person:** [Loudon R. Stanford](#)

**Contact Organization:** Idaho Geological Survey

**Contact Position:** Manager, IGS-Digital Geologic Mapping

**Contact Address:**

**Address Type:** physical

**Address:** 3rd Floor Morrill Hall, University of Idaho

**City:** Moscow

**State or Province:** Idaho

**Postal Code:** 83844-3014

**Country:** USA

**Contact Voice Telephone:** 208 885-7479

**Contact Facsimile Telephone:** 208 885-5826

**Contact E-mail:** [stanford@uidaho.edu](mailto:stanford@uidaho.edu)

**Browse Graphic:**

**Browse Graphic File Name:** none

**Browse Graphic File Description:** none

**Browse Graphic File Type:** none

**Data Set Credit:** John D. Kauffman

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## Data Quality Information:

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#### Attribute Accuracy:

##### Attribute Accuracy Report:

###### Geochemistry sample data:

Geochemistry sample locations are visually checked against original maps for completeness.

#### Logical Consistency Report:

##### Geochemistry sample data:

Geochem sample data used in this compilation was visually compared against topographic and geologic maps to determine errors.

#### Completeness Report:

##### Geochemistry sample data:

Geochem samples and their attributes for this data set come from the map authors. Symbols are non-rotated. Detailed descriptions of attributes are found in the Explanation Tab in the Excel file.

#### Positional Accuracy:

##### Horizontal Positional Accuracy:

###### Horizontal Positional Accuracy Report:

###### Geochemistry sample data:

Horizontal accuracy is difficult to quantify for point location data of this type. Data was compiled from many sources.

#### Lineage:

##### Source Information:

**Source Citation:** DWM-4

###### Citation Information:

**Originator:** K.L. Othberg, D.W. Weisz, and R.M. Breckenridge

**Publication Date:** 2002

**Title:** *Surficial Geologic Map of the Orofino East Quadrangle, Clearwater and Lewis Counties, Idaho*

###### Series Information:

**Series Name:** Digital Web Map

###### Issue Identification:

###### Publication Information:

**Publisher Place:** Moscow, Idaho

**Publisher:** Idaho Geological Survey

**Source Scale Denominator:** 24000

**Source Scale Denominator for Field Map:** 24000

**Source Scale Denominator for Publication Map:** 24000  
**Type of Source Media:** film  
**Source Time Period of Content:**  
**Time Period Information:**  
**Single Date/Time:**  
**Calendar Date:** 2002  
**Source Currentness Reference:** 2002  
**Source Citation Abbreviation:** DWM-4  
**Source Contribution:** Surficial geology  
**Source Description:** Idaho Geological Survey Digital Web Map  
**Base Map Information:**  
**Base Map Name:** Orofino East  
**Base Map Scale:** 24000  
**Base Map Date:** 1994  
**Process Description:**  
**Spatial Domain:**  
**Bounding Coordinates:**  
**West Bounding Coordinate:** -116.25  
**East Bounding Coordinate:** -116.125  
**North Bounding Coordinate:** 46.5  
**South Bounding Coordinate:** 46.375  
  
**Source Information:**  
**Source Citation:** IGS-GM-28  
**Citation Information:**  
**Originator:** Reed S. Lewis, Russell F. Burmester,  
John D. Kauffman, and Thomas P. Frost  
**Publication Date:** 2000  
**Title:** *Geologic Map of the St. Maries 30 x 60  
Minute Quadrangle, Idaho*  
**Series Information:**  
**Series Name:** Geologic Map  
**Issue Identification:** none  
**Publication Information:**  
**Publisher Place:** Moscow, Idaho  
**Publisher:** Idaho Geological Survey  
**Source Scale Denominator:** 100000  
**Source Scale Denominator for Field Map:** 24000  
**Source Scale Denominator for Publication Map:** 10000  
**Type of Source Media:**  
**Source Time Period of Content:**  
**Time Period Information:**  
**Single Date/Time:**  
**Calendar Date:** 2000  
**Source Currentness Reference:** 2000

**Source Citation Abbreviation:** IGS-GM-28

**Source Contribution:** Geochemistry sample data and geologic map data

**Source Description:** Idaho Geological Survey Geologic Map

**Base Map Information:**

**Base Map Name:** St. Maries

**Base Map Scale:** 100000

**Process Description:**

**Spatial Domain:**

**Bounding Coordinates:**

**West Bounding Coordinate:** -117

**East Bounding Coordinate:** -116

**North Bounding Coordinate:** 48.5

**South Bounding Coordinate:** 48

**Source Information:**

**Source Citation:** DWM-38

**Citation Information:**

**Originator:** K.L. Schmidt, D.L. Garwood, and J.D. Kauffman

**Publication Date:** 2005

**Title:** *Geologic map of the Keuterville quadrangle, Lewis and Idaho counties, Idaho*

**Series Information:**

**Series Name:** Digital Web Map

**Issue Identification:**

**Publication Information:**

**Publisher Place:** Moscow, Idaho

**Publisher:** U.S. Geological Survey

**Source Scale Denominator:** 24000

**Source Scale Denominator for Field Map:** 24000

**Source Scale Denominator for Publication Map:** 24000

**Type of Source Media:** film

**Source Time Period of Content:**

**Time Period Information:**

**Single Date/Time:**

**Calendar Date:** 2005

**Source Currentness Reference:** 2005

**Source Citation Abbreviation:** DWM-38

**Source Contribution:** Bedrock geology

**Source Description:** Digital Web Map

**Base Map Information:**

**Base Map Name:** Keuterville

**Base Map Scale:** 24000

**Base Map Date:** 1967

**Process Description:**

**Spatial Domain:**

**Bounding Coordinates:**

**West Bounding Coordinate:** -116.5

**East Bounding Coordinate:** -116.375

**North Bounding Coordinate:** 46.125

**South Bounding Coordinate:** 46

**Source Information:**

**Source Citation:** DWM-37

**Citation Information:**

**Originator:** J.D. Kauffman

**Publication Date:** 2005

**Title:** *Geologic map of the Culdesac South quadrangle, Nez Perce county, Idaho*

**Series Information:**

**Series Name:** Digital Web Map

**Issue Identification:**

**Publication Information:**

**Publisher Place:** Moscow, Idaho

**Publisher:** Idaho Geological Survey

**Source Scale Denominator:** 24000

**Source Scale Denominator for Field Map:** 24000

**Source Scale Denominator for Publication Map:** 24000

**Type of Source Media:** film

**Source Time Period of Content:**

**Time Period Information:**

**Single Date/Time:**

**Calendar Date:** 2005

**Source Currentness Reference:** 2005

**Source Citation Abbreviation:** DWM-37

**Source Contribution:** Bedrock geology

**Source Description:** Digital Web Map

**Base Map Information:**

**Base Map Name:** Culdesac South

**Base Map Scale:** 24000

**Base Map Date:** 1984

**Process Description:**

**Spatial Domain:**

**Bounding Coordinates:**

**West Bounding Coordinate:** -116.75

**East Bounding Coordinate:** -116.625

**North Bounding Coordinate:** 46.375

**South Bounding Coordinate:** 46.25

**Source Information:**

**Source Citation:** GM-36

**Citation Information:**

**Originator:** John D. Kauffman

**Publication Date:** 2004

**Title:** *Geologic Map of the Gifford Quadrangle, Nez Perce County, Idaho*

**Series Information:**

**Series Name:** Geologic Map

**Issue Identification:**

**Publication Information:**

**Publisher Place:** Moscow, Idaho

**Publisher:** Idaho Geological Survey

**Source Scale Denominator:** 24000

**Source Scale Denominator for Field Map:** 24000

**Source Scale Denominator for Publication Map:** 24000

**Type of Source Media:** greenline

**Source Time Period of Content:**

**Time Period Information:**

**Single Date/Time:**

**Calendar Date:** 2004

**Source Currentness Reference:** 2004

**Source Citation Abbreviation:** GM-36

**Source Contribution:** Bedrock geology

**Source Description:** Geologic Map

**Base Map Information:**

**Base Map Name:** Gifford

**Base Map Scale:** 24000

**Base Map Date:** 1984

**Process Description:**

**Spatial Domain:**

**Bounding Coordinates:**

**West Bounding Coordinate:** -116.625

**East Bounding Coordinate:** -116.5

**North Bounding Coordinate:** 46.5

**South Bounding Coordinate:** 46.375

**Process Step:**

**Process Description:** These analyses of whole-rock chemistry, sample locations, and lithologies for 369 volcanic rocks supplement those in Digital Analytical Data 1. Most samples were collected and analyzed in 2004 and 2005.

**Process Date:** 20070400

**Process Step:**

**Process Description:** A few were collected from 1996 to 2003 but were either not analyzed until 2004 or not included in DAD-1. In addition, the bead of one basalt dike sample collected by Peter

Hooper in the 1970's was rerun.  
**Process Date:** 20070400

**Process Step:**

**Process Description:** he remainder of sampling was conducted the Idaho Geological Survey or the Department of Ge  
**Process Date:** 20070400

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**Spatial Data Organization Information:**

[Section Index](#)

**Direct Spatial Reference Method:**

**Geochemistry sample data:** point

**Point and Vector Object Information:**

**SDTS Terms Description:**

**SDTS Point and Vector Object Type:**

**Geochemistry sample data:** entity point

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**Spatial Reference Information:**

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**Horizontal Coordinate System Definition:**

**Geographic**

**Latitude Resolution:** 1

**Longitude Resolution:** 1

**Geographic Coordinate Units:** Decimal degrees

**Geodetic Model:**

**Horizontal Datum Name:** NAD27

**Ellipsoid Name:** Clark 1866

**Semi-Major Axis:** 6378206.4

**Denominator of Flattening Ratio:** 294.98

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**Entity and Attribute Information:**

[Section Index](#)

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Geochemistry sample data

**Entity Type Definition:** All major oxide and trace element analyses are by X-ray fluorescence (XRF) spectrometry; major oxides are in weight percent; trace elements are in parts per million

**Entity Type Definition Source:** Major Oxide and Trace Element

Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2006, compiled by John D. Kauffman, 2007: Idaho Geological Survey DAD-4

**Attribute:**

**Attribute Label:** Geochemistry sample codes

**Attribute Definition:** All major oxide and trace element analyses are by X-ray fluorescence (XRF) spectrometry; major oxides are in weight percent; trace elements are in parts per million

**Attribute Definition Source:** Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2006, compiled by John D. Kauffman, 2007: Idaho Geological Survey DAD-4

**Attribute Domain Values:**

**Codeset Domain:**

**Codeset Name:** Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2006

**Codeset Source:** Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2006. See Explanation Tab in Excel file.

**Overview Description: (Geochemistry sample data)**

**Entity and Attribute Overview Description:**

All major oxide and trace element analyses are by X-ray fluorescence (XRF) spectrometry; major oxides are in weight percent; trace elements are in parts per million. Lab = laboratory where analyses were performed: WSU = Washington State University GeoAnalytical Laboratory

**Entity and Attribute Detail Citation:**

Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2006, compiled by John D. Kauffman, 2007: Idaho Geological Survey DAD-4

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**Distribution Information:**

[Section Index](#)

**Distributor:**

**Contact Information:**

**Contact Person Primary:**

**Contact Person:** Loudon R. Stanford

**Contact Organization:** Idaho Geological Survey

**Contact Position:** Manager, IGS-Digital Geologic Mapping

**Contact Address:**

**Address Type:** physical

**Address:** 3rd Floor Morrill Hall, University of Idaho

**City:** Moscow  
**State or Province:** Idaho  
**Postal Code:** 83844-3014  
**Country:** USA

**Contact Voice Telephone:** 208 885-7479

**Contact FAX:** 208 885-5826

**Contact E-mail:** [stanford@uidaho.edu](mailto:stanford@uidaho.edu)

**Resource Description:** DAD-4

**Distribution Liability:** The Idaho Geological Survey does not assume liability; no warranty expressed or implied is made by the Agency regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty

**Standard Order Process:**

**Digital Form:**

**Digital Transfer Information:**

**Format Name:** Microsoft Excel 9.0.x file

**Format Version Number:** 9.0.x

**Format Information Content:** Excel spread sheet file

**File Decompression Technique:** WinZip

**Digital Transfer Option:**

**Online Option:**

**Computer Contact Information:**

**Network Address:**

**Network Resource Name:**

<http://www.idahogeology.org>

**Offline Option:**

**Offline Media:** none

**Fees:** none

**Ordering Instructions:** Online only

**Technical Prerequisites:** Work knowledge of Microsoft Excel and a good understanding of geochemical rock analysis.

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## **Metadata Reference Information:**

### [Section Index](#)

**Metadata Date:** 20070426

**Metadata Contact:**

**Contact Information:**

**Contact Person Primary:**

**Contact Person:** Loudon R. Stanford

**Contact Organization:** Idaho Geological Survey

**Contact Position:** Manager, IGS-Digital Geologic Mapping

**Contact Address:**

**Address Type:** physical

**Address:** 3rd Floor Morrill Hall, University of Idaho

**City:** Moscow

**State or Province:** Idaho

**Postal Code:** 83844-3014

**Country:** USA

**Contact Voice Telephone:** 208 885-7479

**Contact FAX:** 208 885-5826

**Contact E-mail:** [stanford@uidaho.edu](mailto:stanford@uidaho.edu)

**Metadata Standard Name:** FGDC Content Standards for Digital  
Geospatial Metadata

**Metadata Standard Version:** FGDC-STD-001-1998

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