

Idaho Geological Survey

The *List of Publications* — the full catalogue of documents produced by the Idaho Geological Survey — is updated annually and provided free upon request. For recent titles released during the year, visit the Survey's Web site: <<http://www.idahogeology.org>>.

The Survey was established in 1919 as the lead state agency for collecting, interpreting, and disseminating all scientific information on the geology and mineral resources of Idaho. Besides its main office at the University of Idaho's Moscow campus, the Survey has branch offices in Boise at the Idaho Water Center and Boise State University and in Pocatello at Idaho State University.

Staff geologists study the state's geology, geologic hazards, and mineral, water, and energy resources. This information is made publicly available through oral and written communication and in publications. The Survey directs its activities at the broad interests of the state's citizens, teachers and students of earth science, the mineral industry, land developers, land-use planners, scientific researchers, and city, county, state, and federal agencies.

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BULLETINS (B)

- ***B-1.** *The Copper Deposits of the Seven Devils and Adjacent Districts (Including Heath, Hornet Creek, Hoodoo, and Deer Creek)*, by D.C. Livingston and F.B. Laney, 1920, 105 p., 4 oversize sheets.
ISBN 1-55765-000-4 **\$15.80***
- ***B-2.** *A Preliminary Report on the Clays of Idaho*, by Frank H. Skeels, 1920, 74 p.
ISBN 1-55765-001-2 **\$11.10***
- ***B-3.** *A Reconnaissance in South Central Idaho Embracing the Thunder Mountain, Big Creek, Stanley Basin, Sheep Mountain, and Seafoam Districts*, by J.B. Umpheby and D.C. Livingston, 1920, 22 p.
ISBN 1-55765-002-0 **\$3.75***
- ***B-4.** *Petroleum Possibilities of Certain Anticlines in Southeastern Idaho*, by Virgil R.D. Kirkham, 1922, 36 p.
ISBN 1-55765-003-9 **\$6.15***
- ***B-5.** *Geology and Ore Deposits of Alturas Quadrangle, Blaine County, Idaho*, by S.M. Ballard, 1922, 36 p.
ISBN 1-55765-004-7 **\$5.40***
- ***B-6.** *Geology and Water Resources of the Goose Creek Basin, Cassia County, Idaho*, by Arthur M. Piper, 1923, 78 p., 1 oversize sheet.
ISBN 1-55765-005-5 **\$11.70***
- ***B-7.** *Geology and Gold Resources of North Central Idaho*, by Francis A. Thomson and Samuel M. Ballard, 1924, 127 p.
ISBN 1-55765-006-3 **\$19.00***
- ***B-8.** *Geology and Oil Possibilities of Bingham, Bonneville, and Caribou Counties, Idaho*, by Virgil R.D. Kirkham, 1924, 108 p., 6 oversize sheets.
ISBN 1-55765-007-1 **\$18.00***
- ***B-9.** *Geology and Gold Resources of Boise Basin, Boise County, Idaho*, by Samuel M. Ballard, 1924, 103 p., 1 oversize sheet.
ISBN 1-55765-008-X **\$15.45***
- ***B-10.** *Geology and Ore Deposits of Boundary County, Idaho*, by Virgil R.D. Kirkham and Ernest W. Ellis, 1926, 78 p., 2 oversize sheets.
ISBN 1-55765-009-8 **\$11.70***
- ***B-11.** *Geology and Metalliferous Resources of the Region About Silver City, Idaho*, by Arthur M. Piper and Francis B. Laney, 1926, 165 p., 8 oversize sheets.
ISBN 1-55765-010-1 **\$25.00***
- ***B-12.** *Geology and Ore Deposits of the Clark Fork District, Idaho*, by Alfred L. Anderson, 1930, 131 p., 1 oversize sheet.
ISBN 1-55765-011-X **\$20.00***
- ***B-13.** *Craters of the Moon National Monument, Idaho*, by Harold T. Stearns, 1928, 57 p.
ISBN 1-55765-012-8 **\$9.00***
- ***B-14.** *Geology and Mineral Resources of Eastern Cassia County, Idaho*, by Alfred L. Anderson, 1931, 169 p., 2 oversize sheets.
ISBN 1-55765-013-6 **\$25.35***
- ***B-15.** *Outline of the Geology of Idaho*, by Clyde P. Ross and J. Donald Forrester, 1958, 74 p., 6 oversize sheets.
ISBN 1-55765-014-4 **\$15.00***
- ***B-16.** *Guidebook to the Geology of the Coeur d'Alene Mining District*, edited by R.R. Reid, 1961, 37 p.
ISBN 1-55765-015-2 **\$6.00***
- ***B-17.** *Economic Geology of Central Idaho Blacksand Placers*, by C.N. Savage, 1961, 160 p., 2 oversize sheets.
ISBN 1-55765-016-0 **\$25.00***
- ***B-18.** *Idaho's Mineral Industry — The First Hundred Years*, contributions by A.J. Teske, C.W. Sweetwood, Merle W. Wells, R.R. Reid, J.M. Whiting,

*Out of Print. Price is for photocopy.

Joseph Newton, and E.F. Cook, 1961, 71 p. ISBN 1-55765-017-9	\$11.00*
* B-19. <i>Rush to Idaho</i> , by Merle W. Wells, 1961, 57 p. ISBN 1-55765-018-7	\$9.00*
* B-20. <i>Prospecting and Developing a Small Mine</i> , by W.W. Staley, 1961, 106 p. ISBN 1-55765-019-5	\$16.00*
* B-21. <i>Timbering and Support of Underground Workings for Small Mines</i> , by W.W. Staley, 1962, 54 p. ISBN 1-55765-020-9	\$9.00*
B-22. <i>Gold Camps & Silver Cities</i> , by Merle W. Wells, 1983, 2nd edition, 165 p. Popular account of the mining booms in Idaho's history — from territorial days into early statehood — by one of Idaho's foremost historians. Illustrated with many photographs from the era. ISBN 1-55765-021-7	Last copies of original publication \$12.00 Also available on CD \$25.00
* B-23. <i>Distribution and Economic Potential of Idaho Carbonate Rocks</i> , by C.N. Savage, 1969, 60 p., 5 oversize sheets. ISBN 1-55765-022-5	\$16.00*
* B-24. <i>Society of Economic Geologists' Coeur d'Alene Field Conference, Idaho — 1977</i> , edited by Rolland R. Reid and George A. Williams, 1982, 139 p. ISBN 1-55765-023-3	Reduced to \$4.00
B-25. <i>Geology of the Harpster Area, Idaho County, Idaho</i> , by Paul E. Myers, 1982, 46 p., 4 plates. ISBN 1-55765-024-1	Reduced to \$5.00
* B-26. <i>Cenozoic Geology of Idaho</i> , edited by Bill Bonnicksen and Roy M. Breckenridge, 1982, 725 p.	CD \$25.00
ISBN 1-55765-025-X	\$111.30*
Articles from the book may be photocopied, upon request, at \$0.15 a page.	
* B-27. <i>Guidebook to the Geology of Central and Southern Idaho</i> , edited by Paul Karl Link and William R. Hackett, 1988, 2nd printing 1989, 319 p.	CD \$25.00
ISBN 1-55765-026-8	\$50.85*
B-28. <i>Guidebook to the Geology of Northern and Western Idaho and Surrounding Area</i> , edited by V.E. Chamberlain, Roy M. Breckenridge, and Bill Bonnicksen, 1989, 156 p. ISBN 1-55765-027-6	Reduced to \$9.00
B-29. <i>Geology and Geomorphology of the Boise Valley and Adjoining Areas, Western Snake River Plain, Idaho</i> , by Kurt L. Othberg, 1994, 54 p. ISBN 1-55765-028-4	Reduced to \$4.00
B-30. <i>Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province</i> , edited by Bill Bonnicksen, Craig M. White, and Michael McCurry, 2002, 482 p. ISBN 1-55765-029-2	\$75.00 Reduced to \$19.00

*Out of Print. Price is for photocopy.

COUNTY REPORTS (C)

The *County Report* series has been discontinued with No. 6. Countywide geologic reports will be published as *Bulletins*.

- C-1.** *Geology and Mineral Resources of Nez Perce County*, by Charles R. Hubbard, 1956, 17 p., 2 oversize sheets.
ISBN 1-55765-050-0 **\$1.00**
- *C-2.** *Mineral Resources of Latah County*, by Charles R. Hubbard, 1957, 29 p., 2 oversize sheets.
ISBN 1-55765-051-9 **\$6.00***
- *C-3.** *Geology and Mineral Resources of Ada and Canyon Counties*, by C.N. Savage, 1958, 94 p., 3 oversize sheets.
ISBN 1-55765-052-7 **\$15.00***
- *C-4.** *Geology and Mineral Resources of Gem and Payette Counties*, by C.N. Savage, 1961, 50 p., 2 oversize sheets.
ISBN 1-55765-053-5 **\$11.90***
- *C-5.** *Geology and Mineral Resources of Bonneville County*, by C.N. Savage, 1961, 108 p., 1 oversize sheet.
ISBN 1-55765-054-3 **\$17.00***
- *C-6.** *Geology and Mineral Resources of Bonner County*, by C.N. Savage, 1967, 131 p., 3 oversize sheets.
ISBN 1-55765-055-1 **\$20.00***

EARTH SCIENCE SERIES (E)

The *Earth Science Series* has been discontinued. Studies in this category will be published as *Bulletins* or *Information Circulars*.

- *E-1.** *Idaho Earth Science: Geology, Fossils, Climate, Water, and Soils*, by Sylvia H. Ross and Carl N. Savage, 1967, 285 p., 1 oversize sheet. Selected sections may be photocopied, upon request, at \$0.15 a page.
ISBN 1-55765-056-X
- *E-2.** *Introduction to Idaho Caves and Caving*, by Sylvia H. Ross, 1969, 54 p., 1 oversize sheet.
ISBN 1-55765-057-8 **\$10.00***

DIGITAL DATA SERIES

The **Digital Data** series lists electronic data products. Titles are released only in digital form but may also accompany printed publications in other series. Subcategories within the Digital Data series identify general content.

DIGITAL ANALYTICAL DATA (DAD)

Digital Analytical Data (DAD) report analyses connected with geologic research.

DAD-1. *Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1978 Through 2003*, compiled by John D. Kauffman, 2008 (**updated version**). Analyses of whole-rock chemistry, sample locations, and lithologies on 1,445 volcanic rock samples. Most samples are from the Columbia River Basalt Group; a few are from rocks in the Snake River Group, Idaho Group, Potlatch volcanics, Kamiah volcanics, and undivided basalt and andesitic dikes. *See Digital Analytical Data 4 for additional analyses.* Data are compiled in an Excel spreadsheet, version 9.0.x, and released as a WinZip file. Available only as a download on the Survey's Web site: <www.idahogeology.org>. A metadata file (information about the data set) is included in Acrobat Reader (PDF) format.

View on Web

DAD-2. *Major Oxide and Trace Element Analyses for Igneous and Metamorphic Rock Samples From Northern and Central Idaho*, compiled by Reed S. Lewis and Thomas P. Frost, 2005. Analyses of whole-rock chemistry, sample locations, and lithology on over 550 igneous and metamorphic rock samples collected from 1989 through 2005. Some analyses have previously been published, as noted in the file's "reference" column, and are included here to maintain a more complete file. All samples were collected by personnel of the Idaho Geological Survey, the U.S. Geological Survey, or the University of Idaho's Department of Geological Sciences. The file also includes a suite of 60 samples collected by Anna Hietanen from 1946-1963 for U.S. Geological Survey projects and published in the U.S. Geological Survey Professional Papers listed. Most of the samples are from the Idaho batholith, Challis plutonic and volcanic rocks, the Belt Supergroup, and amphibolite-facies metamorphic units. Data are compiled in an Excel spreadsheet, version 9.0.x, and released as a WinZip file. Available only as a download on the Survey's Web site: <www.idahogeology.org>. A metadata file (information about the data set) is included in Acrobat Reader (PDF) format. **View on Web**

DAD-3. *U-Pb Detrital Zircon Analyses of Metasedimentary Rocks in the Pierce Area, North-Central Idaho*, by Jeffrey D. Vervoort, Reed S. Lewis, and Zhaoshan Chang, 2006. Analyses of detrital zircons in seven metasedimentary rock samples from north-central Idaho to test the previous assignment of these rocks to the Mesoproterozoic Belt-Purcell Supergroup. Data are compiled in an Excel spreadsheet, version 9.0.x, and released as a WinZip file. Available only as a download on the Survey's Web site: <www.idahogeology.org>. A metadata file (information about the data set) is included in Acrobat Reader (PDF) format. **View on Web**

DAD-4. *Major Oxide and Trace Element Analyses for Volcanic Rock Samples From Idaho, 1996 Through 2005*, compiled by John D. Kauffman, 2007. Analyses of whole-rock chemistry, sample locations, and lithologies on 369 volcanic rock samples collected from 1996 through 2005. Most of the samples are from the Columbia River Basalt Group, Snake River Group, and Idaho Group; a few are from the Kamiah volcanics, Idavada volcanics, and undivided basalt and andesite flows and dikes. *See Digital Analytical Data 1 for additional analyses.* Data are compiled in an Excel spreadsheet, version 9.0.x, and released as a WinZip file. Available only as a download on the Survey's Web site: <www.idahogeology.org>. A metadata file

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(information about the data set) is included in Acrobat Reader (PDF) format. **View on Web**

DAD-5. *Major Oxide and Trace Element Analyses for Igneous Rock Samples From Northern Idaho and Northeastern Washington*, by Reed S. Lewis, David M. Miller, and Fred K. Miller, 2009, version 1.2009.0x. Analyses of whole-rock chemistry, locations, and lithology of 299 igneous and metamorphic rock samples collected from 1967 through 1994. Most samples are from Cretaceous and Eocene plutonic rocks. All were collected by Fred K. Miller, David M. Miller, and Padhrig T. McCarthy of the U.S. Geological Survey but were previously unpublished. Analyses were completed at U.S. Geological Survey laboratories in Denver, Colorado, and Menlo Park, California. Data are compiled in an Excel spreadsheet, version 9.0.x, and released as a WinZip file. Available only as a download on the Survey's Web site: <www.idahogeology.org>. A metadata file (information about the data set) is included in Acrobat Reader® (PDF) format.

View on Web

DAD-6. *Major Oxide and Trace Element Analyses for Igneous Rock Samples From South-Central Idaho*, by Reed S. Lewis and Thor H. Kiiilgaard, 2009, version 1.2009.0x. Analyses of whole-rock chemistry, locations, and lithology of 350 igneous rock samples collected from 1978 through 1990. Most samples are from Cretaceous and Eocene plutonic rocks. All were collected during the Challis and Hailey CUSMAP (Conterminous U.S. Mineral Appraisal Program) projects of the U.S. Geological Survey. Only a subset of the data was previously published, and those data did not have precise locations. Analyses were completed at U.S. Geological Survey laboratories in Denver, Colorado, and Jeddah, Saudi Arabia, as well as at Washington State University and Franklin and Marshall University. Data are compiled in an Excel spreadsheet, version 9.0.x, and released as a WinZip file. Available only as a download on the Survey's Web site: <www.idahogeology.org>. A metadata file (information about the data set) is included in Acrobat Reader® (PDF) format. **View on Web**

View on Web

DIGITAL DATABASES (DD)

Digital Databases (DD) are collections of information available only in digital format.

DD-1. *Database of the Mines and Prospects of Idaho*, compiled by Victoria E. Mitchell, Ruth E. Vance, Earl H. Bennett, and B. Benjamin E. Studer, 2005. This inventory of the state's historic mining activity and production up to the recent present contains information from many sources on over 8,800 mining properties. The database format is Microsoft Access 2000 and released here as a WinZip file. A metadata file (information about the data set) is included in Acrobat Reader (PDF) format along with two explanatory text files. **View on Web**

CD \$45.00

DIGITAL GEOLOGIC MAPS (DGM)

Digital Geologic Maps (DGM) are compilations digitized and released in geographic information system (GIS) format. Map components such as legend data, spatial GIS, and metadata are captured and stored in the Survey's Digital Geologic Map Data Model. The model provides the framework that allows users to perform detailed queries on the collected databases and derive for themselves individual maps suited to their needs.

With each data set, an ArcView 3.2 project (.apr) is included. ArcInfo exchange files (.E00) allow data to be used in other GIS software. Legend data are stored in Access 2000 and dBase IV format. Documentation is included. Data are available on compact disk (CD).

DGM-1. *Digital Geologic Map of the St. Maries 30 x 60 Minute Quadran-*

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gle, Idaho, by Reed S. Lewis, Russell F. Burmester, John D. Kauffman, and Thomas P. Frost, 2001. Digital compilation by Loudon R. Stanford, Jane S. Freed, Vance T. MacKubbin, and Alan K. Schlerf. Map data include GIS (ArcInfo 7.x) layers: geologic units, faults, symbols, and geochemistry. For the printed map, see Geologic Map 28. **CD \$45.00**

DGM-2. *Digital Geologic Map Compilation of the Missoula West 30 x 60 Minute Quadrangle, Idaho*, by Reed S. Lewis and Loudon R. Stanford, 2002. Digital compilation by Loudon R. Stanford, Jane S. Freed, and Tim Funderburg. Map data include GIS (ArcInfo 7.x) layers: geologic units, faults, and symbols. For the printed map, see Geologic Map 34. **CD \$45.00**

DGM-3. *Digital Geologic Map Compilation of the Hamilton 30 x 60 Minute Quadrangle, Idaho*, by Reed S. Lewis and Loudon R. Stanford, 2002. Digital compilation by Loudon R. Stanford, Jane S. Freed, and Tim Funderburg. Map data include GIS (ArcInfo 7.x) layers: geologic units, faults, and symbols. For the printed map, see Geologic Map 32. **CD \$45.00**

DGM-4. *Digital Geologic Map Compilation of the Western Half of the Nez Perce Pass 30 x 60 Minute Quadrangle, Idaho*, by Reed S. Lewis and Loudon R. Stanford, 2002. Digital compilation by Loudon R. Stanford, Jane S. Freed, and Tim Funderburg. Map data include GIS (ArcInfo 7.x) layers: geologic units, faults, and symbols. **CD \$45.00**

DGM-5. *Digital Geologic Map Compilation of the Elk City 30 x 60 Minute Quadrangle, Idaho*, by Reed S. Lewis and Loudon R. Stanford, 2002. Digital compilation by Loudon R. Stanford and Tim Funderburg. Map data include GIS (ArcInfo 7.x) layers: geologic units, faults, and symbols. **CD \$45.00**

DGM-6. *Digital Geologic Map Compilation of the Kooskia 30 x 60 Minute Quadrangle, Idaho*, by Reed S. Lewis and Loudon R. Stanford, 2002. Digital compilation by Loudon R. Stanford and Tim Funderburg. Map data include GIS (ArcInfo 7.x) layers: geologic units, faults, and symbols. **CD \$45.00**

For newest version of map, see Digital Web Map 93.

DIGITAL WEB MAPS (DWM)

Digital Web Maps (**DWM**) are available only on the Survey's Web site (www.idahogeology.org) where they are viewable in Adobe Acrobat Reader's Portable Document Format (PDF) and may be downloaded free. The series provides for the timely release of informal reports that may not conform in content and format to agency standards. Many may likely be revised and formally published later. Upon request, printed copies are available. Contact the Moscow office for pricing and ordering information.

DWM-1. *Surficial Geologic Map of the Peck Quadrangle, Clearwater, Lewis, and Nez Perce Counties, Idaho*, by Kurt L. Othberg, Daniel W. Weisz, and Roy M. Breckenridge, 2002, scale 1:24,000. **View on Web**

DWM-2. *Surficial Geologic Map of the Southwick Quadrangle, Clearwater and Nez Perce Counties, Idaho*, by Kurt L. Othberg, Daniel W. Weisz, and Roy M. Breckenridge, 2002, scale 1:24,000. **View on Web**

DWM-3. *Surficial Geologic Map of the Gifford Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Daniel W. Weisz, and Roy M. Breckenridge, 2002, scale 1:24,000. **View on Web**

DWM-4. *Surficial Geologic Map of the Orofino East Quadrangle, Clearwater and Lewis Counties, Idaho*, by Kurt L. Othberg, Daniel W. Weisz, and Roy M. Breckenridge, 2002, scale 1:24,000. **View on Web**

DWM-5. *Surficial Geologic Map of the Orofino West Quadrangle, Clearwater, Lewis, and Nez Perce Counties, Idaho*, by Kurt L. Othberg, Daniel W. Weisz, and Roy M. Breckenridge, 2002, scale 1:24,000. **View on Web**

DWM-6. *Surficial Geologic Map of the Dent Quadrangle, Clearwater*

*Out of Print. Price is for photocopy.

- County, Idaho*, by Kurt L. Othberg, Daniel W. Weisz, and Roy M. Breckenridge, 2002, scale 1:24,000. **View on Web**
- DWM-7.** *Surficial Geologic Map of the Ahsahka Quadrangle, Clearwater County, Idaho*, by Kurt L. Othberg, Daniel W. Weisz, and Roy M. Breckenridge, 2002, scale 1:24,000. **View on Web**
- DWM-8.** *Surficial Geologic Map of the Lewiston Orchards North Quadrangle and Part of the Clarkston Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2003, scale 1:24,000. **View on Web**
- DWM-9.** *Surficial Geologic Map of the Lewiston Orchards South Quadrangle and Part of the Asotin Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Roy M. Breckenridge, Tom C. Walker, and Daniel W. Weisz, 2003, scale 1:24,000. **View on Web**
- DWM-10.** *Surficial Geologic Map of the Culatesac North Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2003, scale 1:24,000. **View on Web**
- DWM-11.** *Surficial Geologic Map of the Juliaetta Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2003, scale 1:24,000. **View on Web**
- DWM-12.** *Surficial Geologic Map of the Lapwai Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2003, scale 1:24,000. **View on Web**
- DWM-13.** *Surficial Geologic Map of the Sweetwater Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2003, scale 1:24,000. **View on Web**
- DWM-14.** *Surficial Geologic Map of the Lenore Quadrangle, Nez Perce County, Idaho*, by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2003, scale 1:24,000. **View on Web**
- DWM-15.** *Surficial Geologic Map of the Sixmile Creek Quadrangle, Clearwater, Idaho, and Lewis Counties, Idaho*, by Daniel W. Weisz, Kurt L. Othberg, and Roy M. Breckenridge, 2003, scale 1:24,000. **View on Web**
- DWM-16.** *Surficial Geologic Map of the Kooskia Quadrangle, Idaho County, Idaho*, by Daniel W. Weisz, Kurt L. Othberg, and Roy M. Breckenridge, 2003, scale 1:24,000. **View on Web**
- DWM-17.** *Surficial Geologic Map of the Kamiah Quadrangle, Idaho and Lewis Counties, Idaho*, by Daniel W. Weisz, Kurt L. Othberg, and Roy M. Breckenridge, 2003, scale 1:24,000. **View on Web**
- DWM-18.** *Surficial Geologic Map of the Woodland Quadrangle, Clearwater, Idaho, and Lewis Counties, Idaho*, by Daniel W. Weisz, Kurt L. Othberg, and Roy M. Breckenridge, 2003, scale 1:24,000. **View on Web**
- DWM-19.** *Bedrock Geologic Map of the Weippe North 7½ Quadrangle, Clearwater County, Idaho*, by John H. Bush, Dean L. Garwood, John D. Kauffman, Kenneth F. Sprenke, 2003, scale 1:24,000. **View on Web**
- DWM-20.** *Geologic Map of the Gooding Quadrangle, Gooding County, Idaho*, by John D. Kauffman and Kurt L. Othberg, 2004, scale 1:24,000. **View on Web**
- DWM-21.** *Geologic Map of the Kimberly Quadrangle, Jerome and Twin Falls Counties, Idaho*, by Kurt L. Othberg and Roy M. Breckenridge, 2004, scale 1:24,000. **View on Web**
- DWM-22.** *Geologic Map of the Eden Quadrangle, Jerome and Twin Falls Counties, Idaho*, by Kurt L. Othberg and Roy M. Breckenridge, 2004, scale 1:24,000. **View on Web**
- DWM-23.** *Geologic Map of the Wendell Quadrangle, Gooding County, Idaho*, by John D. Kauffman and Kurt L. Othberg, 2004, scale 1:24,000. **View on Web**
- DWM-24.** *Geologic Map of the Scotchman Peak Quadrangle, Bonner County, Idaho*, compiled and mapped by Russell F. Burmester, Roy M. Breckenridge, Reed S. Lewis, and Mark D. McFaddan, 2004, scale 1:24,000. **View on Web**

*Out of Print. Price is for photocopy.

DWM-25. *Geologic Map of the Clark Fork Quadrangle, Bonner County, Idaho*, compiled and mapped by Russell F. Burmester, Roy M. Breckenridge, Reed S. Lewis, and Mark D. McFaddan, 2004, scale 1:24,000.

[View on Web](#)

DWM-26. *Geologic Map of the Hope Quadrangle, Bonner County, Idaho*, compiled and mapped by Russell F. Burmester, Roy M. Breckenridge, Reed S. Lewis, and Mark D. McFaddan, 2004, scale 1:24,000.

[View on Web](#)

DWM-27. *Geologic Map of the Craigmont Quadrangle, Lewis and Idaho Counties, Idaho*, by John H. Bush, John D. Kauffman, and Keegan L. Schmidt, 2004, scale 1:24,000.

[View on Web](#)

DWM-28. *Geologic Map of the Nezperce Quadrangle, Lewis and Idaho Counties, Idaho*, by John D. Kauffman, Keegan L. Schmidt, and John H. Bush, 2004, scale 1:24,000.

[View on Web](#)

DWM-29. *Geologic Map of the Cottonwood Quadrangle, Idaho County, Idaho*, by John D. Kauffman, Keegan L. Schmidt, Dean L. Garwood, and John H. Bush, 2004, scale 1:24,000.

[View on Web](#)

DWM-30. *Surficial Geologic Map of Part of the Mount Coeur d'Alene Quadrangle, Kootenai County, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 2004, scale 1:24,000.

[View on Web](#)

DWM-31. *Surficial Geologic Map of the Fernan Lake Quadrangle, Kootenai County, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 2004, scale 1:24,000.

[View on Web](#)

DWM-32. *Surficial Geologic Map of the Rockford Bay Quadrangle, Kootenai County, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 2005, scale 1:24,000.

[View on Web](#)

DWM-33. *Surficial Geologic Map of the Mica Bay Quadrangle, Kootenai County, Idaho*, by Roy M. Breckenridge, Kurt L. Othberg, and John D. Kauffman, 2005, scale 1:24,000.

[View on Web](#)

DWM-34. *Surficial Geologic Map of the Lake Fork Quadrangle, Valley County, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 2005, scale 1:24,000.

[View on Web](#)

DWM-35. *Surficial Geologic Map of the McCall Quadrangle, Valley and Adams Counties, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 2005, scale 1:24,000.

[View on Web](#)

DWM-36. *Geologic Map of the Culdesac North Quadrangle, Nez Perce County, Idaho*, by John D. Kauffman, 2005, scale 1:24,000.

[View on Web](#)

DWM-37. *Geologic Map of the Culdesac South Quadrangle, Nez Perce County, Idaho*, by John D. Kauffman, 2005, scale 1:24,000.

[View on Web](#)

DWM-38. *Geologic Map of the Keuterville Quadrangle, Lewis and Idaho Counties, Idaho*, by Keegan L. Schmidt, Dean L. Garwood, and John D. Kauffman, 2005, scale 1:24,000.

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I-34. <i>Geologic Section and Road Log Across the Idaho Batholith</i> , by Rolland R. Reid, Enid Bittner, William R. Greenwood, Steve Ludington, Karen Lund, William E. Motzer, and Margo Toth, 1979, 20 p.	
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I-35. <i>Speleography of Papoose Cave, Idaho County, Idaho</i> , by George N. Huppert, 1981, 25 p., 2 plates.	
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I-36. <i>Bibliography of Energy Resources for Idaho</i> , by Roy M. Breckenridge, Bill Bonnichsen, Earl H. Bennett, and Kurt L. Othberg, 1983, 21 p.	
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For additional information on energy resources, see Map 3, <i>Energy Resources of Idaho</i> .	
I-37. <i>Stratigraphic Correlation of the Paleozoic and Mesozoic Rocks of Idaho</i> , by Peter E. Isaacson, assisted by Steven L. Bachtel and Mark D. McFadden, 1983, chart size 44 x 35 inches (folded), plus references.	
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I-38. <i>Isotopic Age Dates in Idaho, Excluding Carbon Dates</i> , compiled by Victoria E. Mitchell, Donna J. Shivelor, Gail S. Hustedde, and Earl H. Bennett, 1985, 29 p., 1 plate (folded map of state, scale 1:1,000,000).	
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ISBN 1-55765-095-0 **FREE**
- I-40.** *Developments in Minerals, Mining, and Energy in Idaho for 1984*, by Earl H. Bennett, Maynard M. Miller, William L. Rice, Thomas R. Markland, William R. Pitman, and Jack G. Peterson, 1986, 18 p.
ISBN 1-55765-096-9 **\$3.00**
- I-41.** *Minerals, Mining, and Energy in Idaho, 1985*, by Earl H. Bennett, Maynard M. Miller, William L. Rice, Thomas R. Markland, William R. Pitman, and Jack G. Peterson, 1987, 35 p.
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- I-53.** *Catalog of Idaho Earthquakes, 1872-1993*, compiled by Andrew P. Hilt, Roy M. Breckenridge, and Kenneth F. Sprenke, 1994, one 3½-inch diskette. This catalog has been updated and is replaced by Information Circular 56. **Not available**
- I-54.** *Rocks and Potholes of the Big Wood River, South-Central Idaho*, by Terry S. Maley and Peter Oberlindacher, 1994, 41 p., 32 photographs. Pebbles, water, and time have combined to erode a basalt stream bed into a miles-long channel of exquisitely shaped rocks seen nowhere else on earth. This singular book thoroughly explains the geologic processes leading to a most remarkable, 10,000-year-old natural exhibit. Beautiful black-and-white photographs and clear illustrations provide convincing support to the authors' thoughtful exploration.
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 ISBN 1-55765-115-9 **\$7.00**
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See also Information Circular 36, *Bibliography of Energy Resources for Idaho*.

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M-8. *Miocene and Younger Faults in Idaho*, compiled by Roy M. Breckenridge, Reed S. Lewis, Guy W. Adema, and Daniel W. Weisz, 2003, scale 1:1,000,000, 24 x 36 inches, print-on-demand color map. Specify flat or folded sheet. **\$14.00**

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GM-2. *Geologic Map of the Ashton Quadrangle, Idaho*, by Victoria E. Mitchell and Earl H. Bennett, 1979, scale 1:250,000. **\$5.00**

GM-3. *Geologic Map of the Baker Quadrangle, Idaho*, by Victoria E. Mitchell and Earl H. Bennett, 1979, scale 1:250,000. **\$5.00**

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- See Technical Report 90-2**
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- GM-10.** *Geologic Map of the Hailey 1° x 2° Quadrangle, Idaho*, by Ron G. Worl, Thor H. Kiilsgaard, Earl H. Bennett, Paul K. Link, Reed S. Lewis, Victoria E. Mitchell, Kathleen M. Johnson, and Lori D. Snyder, 1991, scale 1:250,000 (USGS Open-File Report 91-340). **Reduced to \$5.00**
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- ***GM-11.** *Geologic Map of the Hamilton Quadrangle, Idaho*, by William C. Rember and Earl H. Bennett, 1979, scale 1:250,000. **\$5.00***
- ***GM-12.** *Geologic Map of the Idaho Falls Quadrangle, Idaho*, by William C. Rember and Earl H. Bennett, 1979, scale 1:250,000. **\$5.00***
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- ***GM-15.** *Geologic Map of the Pullman Quadrangle, Idaho*, by William C. Rember and Earl H. Bennett, 1979, scale 1:250,000. **\$5.00***
- GM-16.** *Geologic Map of the Sandpoint Quadrangle, Idaho and Washington*, by Rolf K. Aadland and Earl H. Bennett, 1979, scale 1:250,000. **For a more recent map, see USGS Open-File Report 99-144.** **\$5.00**
- ***GM-17.** *Geologic Map of the Twin Falls Quadrangle, Idaho*, by William C. Rember and Earl H. Bennett, 1979, scale 1:250,000. **\$5.00***
- The following four quadrangles at 1:250,000 scale are available as publications by the U.S. Geological Survey:
- Dillon**, 1993 (USGS map I-1803-H) **\$7.00**
- Jordan Valley**, 1981 (USGS map I-1256) **\$5.00**
- Spokane**, 1973 (USGS map I-768) **Not available**
- Wallace**, 1986 (USGS map I-1509-A) **\$7.00**
- GM-18.** *Geologic Map of the Boise Valley and Adjoining Area, Western Snake River Plain, Idaho*, by Kurt L. Othberg and Loudon R. Stanford, 1992, scale 1:100,000. Color. **Reduced to \$6.00**
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- GM-20.** *Geologic Map of the Upper North Fork of the Clearwater River Area, Northern Idaho*, by R.S. Lewis, R.F. Burmester, M.D. McFadden, B.A. Eversmeyer, C.A. Wallace, and E.H. Bennett, 1992, scale 1:100,000. **For more recent maps, see GM-34 and DWM-92.** **\$10.00**
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- GM-24.** *Bedrock Geologic Map of the Robinson Lake Quadrangle, Latah County, Idaho*, by John H. Bush, Jack L. Pierce, and Gerald N. Potter, 1998, scale 1:24,000, print-on-demand color map. **\$17.00**
- GM-25.** *Bedrock Geologic Map of the Viola Quadrangle, Latah County, Idaho, and Whitman County, Washington*, by John H. Bush and Andrew P.

Provant, 1998, scale 1:24,000, print-on-demand color map. . . . **\$17.00**

GM-26. Geologic Map of the Pocatello South Quadrangle, Bannock and Power Counties, Idaho, by David W. Rodgers and Kurt L. Othberg, 1999, scale 1:24,000, 2 sheets, print-on-demand color map and cross sections.
 Sheet 1, geologic map and one cross section . . . **\$27.00**
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GM-27. Bedrock Geologic Map of the Moscow East Quadrangle, Latah County, Idaho, by John H. Bush, Jack L. Pierce, and Gerald N. Potter, 2000, scale 1:24,000, print-on-demand color map. . . . **\$17.00**

GM-28. Geologic Map of the St. Maries 30 x 60 Minute Quadrangle, Idaho, compiled and mapped by Reed S. Lewis, Russell F. Burmester, John D. Kauffman, and Thomas P. Frost, 2000, scale 1:100,000, print-on-demand color map with 36-page booklet. For the digital data of this map, see Digital Geologic Map 1. . . . **\$25.00**

GM-29. Geologic Map of the Idaho City 30 x 60 Minute Quadrangle, Idaho, mapped and compiled by Thor H. Kiilsgaard, Loudon R. Stanford, and Reed S. Lewis, 2001, scale 1:100,000, print-on-demand color map. . . . **\$21.00**

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GM-31. Bedrock Geologic Map of the Green Knob Quadrangle, Latah and Nez Perce Counties, Idaho, by John H. Bush, Dean L. Garwood, Reed S. Lewis, Gerald N. Potter, and William McClland, 2001, scale 1:24,000, print-on-demand color map. . . . **\$21.00**

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GM-35. Geologic Map of the Northern and Central Parts of the Idaho National Engineering and Environmental Laboratory, Eastern Idaho, by Mel A. Kuntz, Jeffrey K. Geslin, Linda E. Mark, Mary K.V. Hodges, Mary E. Kauffman, Duane E. Champion, Marvin R. Lanphere, David W. Rodgers, Mark H. Anders, Paul Karl Link, and Diana L. Boyack, 2003, scale 1:50,000, print-on-demand color map with 14-page booklet. . . . **\$29.00**

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GM-41. Geologic Map of the Potlatch 30 x 60 Minute Quadrangle, Idaho,

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- by Reed S. Lewis, John H. Bush, Russell F. Burmester, John D. Kauffman, Dean L. Garwood, Paul E. Myers, and Kurt L. Othberg, 2005, scale 1:100,000, print-on-demand color map with 30-page booklet. . . . **\$31.00**
- GM-42.** *Geologic Map of the Kamiah Quadrangle, Lewis and Idaho Counties, Idaho*, by John D. Kauffman, Reed S. Lewis, and Paul E. Myers, 2006, scale 1:24,000, print-on-demand color map. **\$20.00**
- GM-43.** *Geologic Map of the Sixmile Creek Quadrangle, Clearwater, Idaho, and Lewis Counties, Idaho*, by Reed S. Lewis, John D. Kauffman, Keegan L. Schmidt, and Russell F. Burmester, 2006, scale 1:24,000, print-on-demand color map. **\$20.00**
- GM-44.** *Geologic Map of the Woodland Quadrangle, Clearwater, Idaho, and Lewis Counties, Idaho*, by Reed S. Lewis, John D. Kauffman, Keegan L. Schmidt, and Paul E. Myers, 2006, scale 1:24,000, print-on-demand color map. **\$20.00**
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- GM-47.** *Geologic Map of the Arco 30 x 60 Minute Quadrangle, South-Central Idaho*, compiled by Betty Skipp and Mel A. Kuntz and mapped by Betty Skipp, Lawrence G. Snider, Susanne U. Janecke, and Mel A. Kuntz, 2009, scale 1:100,000, print-on-demand color map with 42-page booklet. **\$42.00**
- GM-48.** *Geologic Map of the Idaho Parts of the Orofino and Clarkston 30 x 60 Minute Quadrangles, Idaho*, compiled and mapped by John D. Kauffman, Dean L. Garwood, Keegan L. Schmidt, Reed S. Lewis, Kurt L. Othberg, and William M. Phillips, 2009, scale 1:100,000, print-on-demand color map with 35-page booklet. Replaces DWM-69. **\$35.00**

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- SGM-1.** *Landslides in Idaho*, by Wayne C. Adams, Roy M. Breckenridge, and Kurt L. Othberg, 1991, scale 1:500,000. **Reduced to \$6.00**
- SGM-2.** *Surficial Geologic Map of the Baker Quadrangle, Idaho*, by Kurt L. Othberg, 1982, scale 1:250,000. **Reduced to \$2.00**
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- SGM-5.** *Surficial Geologic Map of the Post Falls Quadrangle and Part of the Liberty Lake Quadrangle, Kootenai County, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 1998, scale 1:24,000, print-on-demand color map. **\$21.00**
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- SGM-7.** *Surficial Geologic Map of the Coeur d'Alene Quadrangle, Kootenai County, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 1999, scale 1:24,000, print-on-demand color map. **\$21.00**
- SGM-8.** *Surficial Geologic Map of the Hayden Quadrangle, Kootenai County, Idaho*, by Roy M. Breckenridge and Kurt L. Othberg, 1999, scale

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SGM-9. <i>Surficial Geologic Map of the Hayden Lake Quadrangle, Kootenai County, Idaho</i> , by Roy M. Breckenridge and Kurt L. Othberg, 2000, scale 1:24,000, print-on-demand color map.	\$17.00
SGM-10. <i>Surficial Geologic Map of the Green Knob Quadrangle, Latah and Nez Perce Counties, Idaho</i> , by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2001, scale 1:24,000, print-on-demand color map.	\$14.00
SGM-11. <i>Surficial Geologic Map of the Moscow East Quadrangle and Part of the Moscow West Quadrangle, Latah County, Idaho</i> , by Kurt L. Othberg and Roy M. Breckenridge, 2001, scale 1:24,000, print-on-demand color map.	\$21.00
SGM-12. <i>Surficial Geologic Map of the Robinson Lake Quadrangle and Part of the Viola Quadrangle, Latah County, Idaho</i> , by Kurt L. Othberg and Roy M. Breckenridge, 2001, scale 1:24,000, print-on-demand color map.	\$21.00
SGM-13. <i>Surficial Geologic Map of the Genesee Quadrangle and Part of the Uniontown Quadrangle, Latah and Nez Perce Counties, Idaho</i> , by Kurt L. Othberg, Roy M. Breckenridge, and Daniel W. Weisz, 2001, scale 1:24,000, print-on-demand color map.	\$17.00
SGM-14. <i>Surficial Geologic Map of the Michaud and Pocatello North Quadrangles, Bannock and Power Counties, Idaho</i> , by Kurt L. Othberg, 2002, scale 1:24,000, print-on-demand color map.	\$27.00

MINES AND PROSPECTS MAPS (MPM)

Maps in the *Mines and Prospects Maps (MPM)* series (scale 1:250,000) are compilations that locate mines and prospects in Idaho using as principal sources the U.S. Geological Survey's Computerized Resources Information Bank (CRIB; now the Mineral Resources Data System, MRDS) and the U.S. Bureau of Mines' Mineral Industry Location Subsystem (MILS). These maps are a companion series to the *Geologic Maps* series. The maps are folded. **For locations of quadrangles, see Map Scale Index.**

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