

Bibliography and Index of Geothermal Resources and Development in Washington State, with Selected General Works

compiled by Rebecca A. Christie
updated by Lee Walkling

WASHINGTON
DIVISION OF GEOLOGY
AND EARTH RESOURCES

Open File Report 2009-2
March 2009



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Peter Goldmark - Commissioner of Public Lands

Division of Geology and Earth Resources
David K. Norman - State Geologist

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This and other DGER publications are available online at:

[http://www.dnr.wa.gov/ResearchScience/Topics/
GeologyPublicationsLibrary/Pages/pubs.aspx](http://www.dnr.wa.gov/ResearchScience/Topics/GeologyPublicationsLibrary/Pages/pubs.aspx)

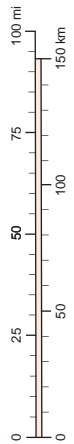
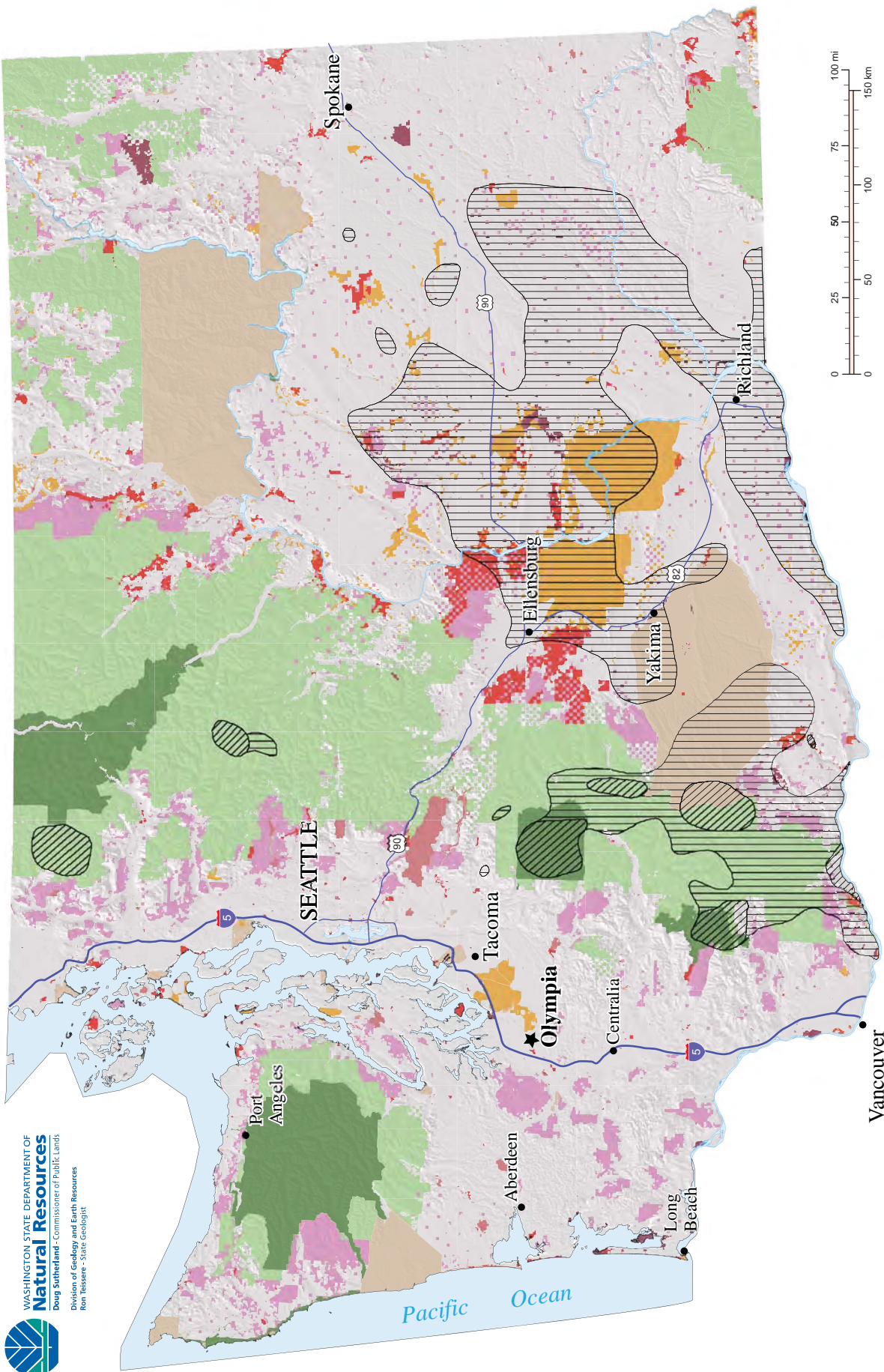
Online catalog and bibliography of the Washington Geology Library:

[http://www.dnr.wa.gov/ResearchScience/Topics/
GeologyPublicationsLibrary/Pages/washbib.aspx](http://www.dnr.wa.gov/ResearchScience/Topics/GeologyPublicationsLibrary/Pages/washbib.aspx)

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Appendix: Additional sources of geothermal information.	89

Washington Geothermal Resources



Washington Division of Geology and Earth Resources,
Washington State Department of Natural Resources
Geothermal Data derived from Geologic Map-25,
Geothermal resources of Washington,
compiled by M. A. Korosec, K. L. Kaler, J. E. Schuster, R.G. Bloomquist,
S. J. Simpson, and D. Blackwell, 1981. 1 sheet, scale 1:500,000.
Lambert Conformal Conic Projection, North American Datum of 1983
Cartography by Elizabeth E. Thompson



Geothermal Resources

High temperature
(approx. 100 c or higher)

Low temperature
(20 c or higher)

Land Ownership

- U.S. Fish and Wildlife
- U.S. Bureau of Land Management and other Federal lands
- County, Municipal or University
- Other state lands

Geothermal Resources

- DNR-managed lands
- Tribal lands
- U.S. Forest Service
- National Park Service

Bibliography and Index of Geothermal Resources and Development in Washington State, with Selected General Works

compiled by Rebecca A. Christie
updated by Lee Walkling

INTRODUCTION TO THE 2009 UPDATE

This work is presented in two parts:

- (1) **INDEX BY SUBJECT**—Items are indexed alphabetically by subject, county, and (or) physiographic province, with subject and (or) areal subdivisions as appropriate. See the Subject List (p. 3) for an alphabetical list of the subject headings used in this report.

Only the author(s), date, and title of the item are given in the Index—enough information to refer the user to the full citation in the Bibliography section.

- (2) **BIBLIOGRAPHY BY AUTHOR**—Each citation is given in full according to our editorial standards. Works are listed alphabetically and chronologically by author, with an author's individual works preceding co-authored works. Joint-author cross-references are interfiled alphabetically.

Items with an asterisk (*) are NOT held in the Washington Geology Library. Contact the other libraries listed below to obtain those documents.

Web addresses are given for documents available online. Check our [publications list](#) and [online bibliography](#) for new postings.

Geologic Mapping

Through the [Washington State Geologic Information Portal](#), you can access interactive earth science mapping, data, and related information. Using our interactive maps, you can create, save, and print custom maps, find out more information about map features, and download map data for use in a geographic information system (GIS).

The [Index to Geologic and Geophysical Mapping of Washington](#) shows available published and open-filed reports, as well as theses, with mapping at any scale for a particular area.

Geologic mapping at 1:100,000-scale is available for the whole state, and some of the newer published maps have been included in this bibliography. All 1:100,000-scale mapping for Washington is available as [shapefiles online](#) or on CD by calling 360-902-1450.

Mapping at 1:24,000-scale is available for some [7.5-minute topographic quadrangles](#). We have included the newer maps in this bibliography. For more information on how to obtain geologic maps of an area, see our [geologic mapping webpage](#).

Geothermal Database

The first edition of this publication mentioned a database being developed by J. Eric Schuster. That database was published as Open File Report 94-11 (Schuster and Bloomquist, 1994).

While this bibliography and index are as complete and accurate as possible, it is inevitable that some citations have been missed and some mistakes have been made. Any information about omissions or errors will be appreciated. Contact Geology Librarian Lee Walkling (contact information given below):

Washington Division of Geology and Earth Resources

1111 Washington St SE, Natural Resources Bldg, Rm 148
PO Box 47007; Olympia, WA 98504-7007
Phone: 360-902-1450; *Fax:* 360-902-1785

E-mail: geology@dnr.wa.gov

Website: <http://www.dnr.wa.gov/AboutDNR/Divisions/GER/>

Washington Geology Library

Lee Walkling, Librarian

1111 Washington St SE, Natural Resources Bldg, Rm 173
PO Box 47007; Olympia, WA 98504-7007

Phone: 360-902-1473; *E-mail:* lee.walkling@dnr.wa.gov

Website: <http://www.dnr.wa.gov/ResearchScience/Topics/GeologyPublicationsLibrary/Pages/library.aspx>

ACKNOWLEDGMENTS

Although this update of DGER Open File Report 94-1 was produced and edited by Lee Walkling and Jari Roloff, the original author (Rebecca Christie) and the organizations listed below deserve most of the credit for this worthy project:

Washington State University Extension Energy Program Library (formerly Washington State Energy Office)

905 Plum St SE, Bldg 3

PO Box 4316

Olympia, WA 98504-3165

Phone: 360-956-2000; *Website:* <http://www.energy.wsu.edu/>

Oregon Institute of Technology Geo-Heat Center

3201 Campus Drive

Klamath Falls, OR 97601-8801

Phone: 541-885-1750; *E-mail:* geoheat@oit.edu

Website: <http://geoheat.oit.edu>

Geothermal Resources Council

PO Box 1350

Davis, CA 95617-1350

Phone: 530-758-2360

Website: <http://www.geothermal.org/>

Library website: <http://www.geothermal.org/databases.html>

REFERENCE CITED

Schuster, J. E.; Bloomquist, R. G., 1994, Low-temperature geothermal resources of Washington: Washington Division of Geology and Earth Resources Open File Report 94-11, 53 p., 2 plates. [http://www.dnr.wa.gov/Publications/ger_ofr94-11_low_temp_geothermal.zip]

Bibliography and Index of Geothermal Resources and Development in Washington State with Selected General Works

compiled by Rebecca A. Christie

INTRODUCTION [original 1994 edition]

This bibliography was compiled in support of, and to complement, a database of all known low and moderate-temperature geothermal springs and wells in the State of Washington. The database is being prepared by J. Eric Schuster and will be released as a separate open-file report by the Division of Geology and Earth Resources. The bibliography fulfills one requirement of a contractual agreement between the Oregon Institute of Technology Geo-Heat Center and the Washington Department of Natural Resources. Funding was provided by the U.S. Department of Energy. The intent of this work is to be a comprehensive compilation of references to publications about low and moderate-temperature geothermal resources and potential development areas in the State of Washington through 1993. It is not limited to geological aspects of geothermal resource exploration. The bibliography contains references on geothermal engineering, exploration techniques, legal and institutional requirements, and case histories and feasibility studies for direct-use applications in Washington. Selected general works not specific to Washington are also included.

No attempt was made to include all reports about the geology of regions believed to have potential for development of geothermal resources. For comprehensive information on the geology of a given area, please consult the Division of Geology and Earth Resources library and (or) the indexes published by the Division.

This work is presented in two parts:

- (1) Bibliography—Each citation is listed alphabetically by author and is given in full, in accordance with our editorial standards. Joint author cross-references are also provided.
- (2) Index—Each citation is listed alphabetically by subject, county, and (or) physiographic province, with subject and (or) areal subdivisions as appropriate. In this section, only the author(s), date, and title of the citation are given enough information to refer the user to the full citation in the bibliography. Items with the same author(s) and title that are issued more than once (for example, as both a thesis and an abstract) are marked with an asterisk (*) and are not repeated.

Many of the materials listed are held in the reference library at the Division of Geology and Earth Resources in Olympia and are available to the public for inspection. Three other collections house most of the other publications: the Washington State Energy Office Library, the office collection of R. Gordon Bloomquist at the Washington State Energy Office, and the Washington State Library.

Information about additional relevant materials or errors will be appreciated.

Acknowledgments [original 1994 edition]

Many individuals were generous with their time and resources. I especially thank J. Eric Schuster and Connie J. Manson at the Washington Division of Geology and Earth Resources, and R. Gordon Bloomquist and Char Gruessing at the Washington State Energy Office. I am grateful to individuals at the Washington State Library, the Washington State Energy Office Library, the Washington Department of Ecology Library, the Oregon Institute of Technology Geo-Heat Center, and the Geothermal Resources Council.

Sources of Information [original 1994 edition]

Washington State Department of Natural Resources
Division of Geology and Earth Resources
1111 Washington St. SE, Rooms 148 & 173
P.O. Box 47007
Olympia, WA 98504-7007
(206) 902-1450
FAX (206) 902-1785

Washington State Energy Office (WSEO)
925 Plum St., Town Square Bldg. 4
P.O. Box 43169
Olympia, WA 98504-3169
WSEO Library (206) 956-2076;
FAX (206) 956-2217
R. Gordon Bloomquist (206) 956-2016
FAX (206) 956-2217

Washington State Library
16th & Water Streets
P.O. Box 42460
Olympia, WA 98504-2460
(206) 753-5590 or 1-800-562-6090;
FAX (206) 753-3546

Oregon Institute of Technology Geo-Heat Center
3201 Campus Drive
Klamath Falls, OR 97601-8801
(503) 885-1750

Geothermal Resources Council
P.O. Box 1350
Davis, CA 95617-1350

Subject List

This list gives you the subject headings related to geothermal resources that are used in this publication and the Washington Geology Library online catalog and bibliography. This list is included because the search terms you use may not be the ones used in this index.

Subject headings are in upper-case type. Where similar terms are in popular use, we have listed those terms with a ‘see’ note to lead users to the term used in this index. ‘See also’ directs readers to related or broader terms used in the index.

ADAMS CO.

see also COLUMBIA BASIN

Aeromagnetic surveys, *see* GEOPHYSICS – MAGNETIC SURVEYS

AGRIBUSINESS

see also GEOTHERMAL ENGINEERING [GENERAL WORKS]

Ahtanum Valley, *see* YAKIMA CO.

AQUACULTURE

see also GEOTHERMAL ENGINEERING [GENERAL WORKS]

ASOTIN CO.

see also COLUMBIA BASIN

BAKER HOT SPRING (WHATCOM CO.)

see also THERMAL AND MINERAL WATERS

BENTON CO.

see also
COLUMBIA BASIN
PASCO BASIN

BIBLIOGRAPHIES

Black Diamond, Wash., *see* KING CO.

BONNEVILLE HOT SPRINGS (SKAMANIA CO.)

CAMAS, WASH., AND VICINITY

CARSON HOT SPRINGS (SKAMANIA CO.)

see also THERMAL AND MINERAL WATERS

CARSON, WASH. (SKAMANIA CO.)

CASCADE RANGE

Note: Regional materials on the Cascade Range are listed here. Specific materials within the Cascade Range are listed under the counties:

CHELAN CO.

KING CO.

KITTITAS CO.

LEWIS CO.

OKANOGAN CO.

PIERCE CO.

SKAGIT CO.

SKAMANIA CO.

SNOHOMISH CO.

WHATCOM CO.

YAKIMA CO.

Specific materials are also listed under the volcanoes and volcanic areas:

GLACIER PEAK AREA

INDIAN HEAVEN AREA

MOUNT ADAMS

MOUNT BAKER

MOUNT RAINIER

MOUNT ST. HELENS

WHITE PASS AREA

see also

CASCADE RANGE (NORTH)

CASCADE RANGE (SOUTH)

CASCADE RANGE [GENERAL WORKS]

CASCADE RANGE – EXPLORATION AND EVALUATION

see also CASCADE RANGE (SOUTH) – EXPLORATION AND EVALUATION

CASCADE RANGE – GEOPHYSICAL SURVEYS

Note: Includes electrical, electromagnetic, gravity, magnetic, and seismic surveys. Thermal surveys are listed under CASCADE RANGE – HEAT FLOW AND THERMAL SURVEYS.

see also CASCADE RANGE (SOUTH) – HEAT FLOW AND THERMAL SURVEYS

CASCADE RANGE – HEAT FLOW AND THERMAL SURVEYS

see also CASCADE RANGE (SOUTH) – HEAT FLOW AND THERMAL SURVEYS

CASCADE RANGE (NORTH)

see also

CASCADE RANGE

CASCADE RANGE (SOUTH)

CASCADE RANGE (SOUTH)

see also

CASCADE RANGE

CASCADE RANGE (NORTH)

Note: Regional materials on the southern Cascade Range are listed here. Specific materials within the southern Cascade Range are listed under the counties:

KING CO.

KITTITAS CO.

LEWIS CO.

PIERCE CO.

SKAMANIA CO.

YAKIMA CO.

Specific materials are also listed under the volcanoes and volcanic areas:

INDIAN HEAVEN AREA

MOUNT ADAMS

MOUNT RAINIER

MOUNT ST. HELENS

WHITE PASS AREA

CASCADE RANGE (SOUTH) [GENERAL WORKS]

CASCADE RANGE (SOUTH) – EXPLORATION AND EVALUATION

CASCADE RANGE (SOUTH) – HEAT FLOW AND GEOPHYSICAL SURVEYS

Note: Includes heat flow and electrical, electromagnetic, gravity, magnetic, seismic, and thermal surveys.

see also

CASCADE RANGE – GEOPHYSICAL SURVEYS

CASCADE RANGE – HEAT FLOW AND THERMAL SURVEYS

CASCADIA BASIN (OCEAN)

Case histories/case studies, *see* HEATING – CASE HISTORIES

CHELAN CO.

see also CASCADE RANGE

CHENEY, WASH. (SPOKANE CO.)

CLALLAM CO.

see also OLYMPIC MOUNTAINS AND OLYMPIC PENINSULA

CLARK CO.

COLUMBIA BASIN

Note: Regional materials on the Columbia Basin are listed here. Specific materials within the Columbia Basin are listed under the counties:

ADAMS CO.

ASOTIN CO.

BENTON CO.

COLUMBIA CO.

DOUGLAS CO.

FRANKLIN CO.

GARFIELD CO.

GRANT CO.

KLICKITAT CO.

LINCOLN CO.

OKANOGAN CO.

SPOKANE CO.

WALLA WALLA CO.

WHITMAN CO.

YAKIMA CO.

COLUMBIA CO.

see also COLUMBIA BASIN

Computer programs, *see*

GEOHERMAL ENGINEERING – COMPUTER PROGRAMS

GEOHERMAL RESOURCES – COMPUTER PROGRAMS

COWLITZ CO.

Direct use, *see*

AGRIBUSINESS (includes greenhouses)

AQUACULTURE

GEOHERMAL ENGINEERING [GENERAL WORKS]

HEATING

INDUSTRIAL AND PROCESS APPLICATIONS

District heating, *see* HEATING

DOUGLAS CO.

see also COLUMBIA BASIN

Drilling, *see*

EXPLORATION AND EVALUATION

EQUIPMENT AND MATERIALS – DRILLING

GEOPHYSICS – DRILLING – METHODOLOGY

GEOHERMAL ENGINEERING [GENERAL WORKS]

ELECTRIC POWER [GENERAL WORKS]

ELECTRIC POWER – ECONOMIC ASPECTS

ELECTRIC POWER – ENVIRONMENTAL ASPECTS

ELECTRIC POWER – GEOHERMAL POWER PLANTS

Electric power – Legal aspects, *see* LAW AND LEGISLATION

Electrical surveys, *see* GEOPHYSICS – ELECTRICAL SURVEYS

Electromagnetic surveys, *see* GEOPHYSICS –

ELECTROMAGNETIC SURVEYS

ELLENSBURG, WASH. (KITITAS CO.)

Energy – Geothermal, *see* ELECTRIC POWER

Energy resource planning, *see* RESOURCE PLANNING

ENVIRONMENTAL IMPACT STATEMENTS

EPHRATA, WASH. (GRANT CO.)

EQUIPMENT AND MATERIALS [GENERAL WORKS]

see also GEOHERMAL ENGINEERING [GENERAL WORKS]

EQUIPMENT AND MATERIALS – DRILLING

EQUIPMENT AND MATERIALS – HEAT EXCHANGERS AND CONVECTORS

EQUIPMENT AND MATERIALS – HEAT PUMPS

EQUIPMENT AND MATERIALS – TRANSMISSION AND DISTRIBUTION PIPELINES

EXPLORATION AND EVALUATION [GENERAL WORKS]

Note: Includes works on geothermal resource exploration and assessment of development potential.

EXPLORATION AND EVALUATION – CASCADE RANGE

EXPLORATION AND EVALUATION – COLUMBIA BASIN

EXPLORATION AND EVALUATION – PUBLIC LANDS

EXPLORATION AND EVALUATION – SOUTHWEST WASHINGTON

EXPLORATION AND EVALUATION – STATEWIDE

Fifes Peak Formation, *see* YAKIMA CO.

FRANKLIN CO.

see also

COLUMBIA BASIN

PASCO BASIN

Fumaroles, *see* VOLCANISM – FUMARoles

GAMMA HOT SPRINGS (SNOHOMISH CO.)

see also THERMAL AND MINERAL WATERS

GARFIELD CO.

see also COLUMBIA BASIN

GEOCHEMISTRY

see also

HYDROLOGY – CHEMICAL ANALYSIS

SOILS

Geologic hazards, *see* VOLCANISM – GEOLOGIC HAZARDS

GEOPHYSICS – AERIAL INFRARED SURVEYS

Geophysics – Aeromagnetic surveys, *see* GEOPHYSICS – MAGNETIC SURVEYS

GEOPHYSICS – DRILLING – METHODOLOGY

GEOPHYSICS – ELECTRICAL SURVEYS

GEOPHYSICS – ELECTROMAGNETIC SURVEYS

GEOPHYSICS – GRAVITY SURVEYS

GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS [STATEWIDE AND GENERAL WORKS]

GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS – CASCADE RANGE

GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS – COLUMBIA BASIN

GEOPHYSICS – MAGNETIC SURVEYS

Geophysics – Magnetotelluric surveys, *see* GEOPHYSICS – ELECTROMAGNETIC SURVEYS

GEOPHYSICS – SEISMIC SURVEYS

Geothermal energy – Laws and regulations, *see* LAW AND LEGISLATION – LEASES AND PERMITS

GEOHERMAL ENGINEERING [GENERAL WORKS]

See also

AGRIBUSINESS
 AQUACULTURE
 ELECTRIC POWER
 EQUIPMENT AND MATERIALS
 HEATING
 INDUSTRIAL AND PROCESS APPLICATIONS

GEOHERMAL ENGINEERING – COMPUTER PROGRAMS

GEOHERMAL ENGINEERING – ECONOMIC ASPECTS

GEOHERMAL ENGINEERING – ENVIRONMENTAL ASPECTS

GEOHERMAL ENGINEERING – HANDBOOKS, MANUALS, ETC.

Geothermal ice caves, *see* VOLCANISM – GEOHERMAL ICE CAVESGeothermal power plants, *see* ELECTRIC POWER – GEOHERMAL POWER PLANTS

GEOHERMAL RESOURCES [GENERAL WORKS AND SUMMARIES]

Note: For more detailed works, *see* EXPLORATION AND EVALUATION.

GEOHERMAL RESOURCES – COMPUTER PROGRAMS

GEOHERMAL RESOURCES – ECONOMIC ASPECTS

GEOHERMAL RESOURCES – GUIDEBOOKS

GEOHERMAL RESOURCES – ORAL HISTORY, MYTHS, LEGENDS

GEOHERMAL RESOURCES – SUSTAINABILITY

GIFFORD PINCHOT NATIONAL FOREST

GLACIER PEAK AREA

Goat Rocks area, *see* WHITE PASS AREA

GOLDENDALE, WASH. (KLICKITAT CO.)

Goose Egg Mountain, *see* YAKIMA CO.

GRANDVIEW, WASH. (YAKIMA CO.)

GRANT CO.

see also COLUMBIA BASINGravity surveys, *see* GEOPHYSICS – GRAVITY SURVEYSGreenhouses, *see* AGRIBUSINESS

GREEN RIVER SODA SPRINGS (COWLITZ CO.)

see also THERMAL AND MINERAL WATERSGround water, *see*

HYDROLOGY
 THERMAL AND MINERAL WATERS
 WATER WELLS
 WELL LOGS

HARRAH, WASH. (YAKIMA CO.)

Heat exchangers, *see* EQUIPMENT AND MATERIALS – HEAT EXCHANGERS AND CONVECTORSHeat flow, *see* GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYSHeat pumps, *see* EQUIPMENT AND MATERIALS – HEAT PUMPS

HEATING

Note: Includes works on district and space heating of buildings.*see also*

EQUIPMENT AND MATERIALS
 GEOHERMAL ENGINEERING

For other direct heating applications:

see also

AGRICULTURE
 AQUACULTURE
 INDUSTRIAL AND PROCESS
 APPLICATIONS

HEATING – CASE HISTORIES

HEATING – ECONOMIC ASPECTS

HEATING – FEASIBILITY STUDIES

HEATING – HANDBOOKS, MANUALS, ETC.

Heating – Legal aspects, *see* LAW AND LEGISLATION

HEATING – RESIDENTIAL

see also POPULAR WORKSHot springs, *see*

GEOPHYSICS—HEAT FLOW AND THERMAL SURVEYS
 THERMAL AND MINERAL WATERS

HYDROLOGY – CHEMICAL ANALYSIS [STATEWIDE AND GENERAL WORKS]

HYDROLOGY – CHEMICAL ANALYSIS – CASCADE RANGE

HYDROLOGY –CHEMICAL ANALYSIS – COLUMBIA BASIN

HYDROLOGY – CHEMICAL ANALYSIS – HANDBOOKS, MANUALS, ETC.

HYDROLOGY – CHEMICAL ANALYSIS – PUGET LOWLAND

HYDROLOGY – DIRECTORIES

HYDROLOGY – GEOPHYSICS

see also WELL LOGSHydrology – Ground water, *see* THERMAL AND MINERAL WATERS

HYDROTHERMAL VENTS AND PLUMES (OCEAN)

Ice caves, *see* VOLCANISM – GEOHERMAL ICE CAVES

INDIAN HEAVEN AREA

INDUSTRIAL AND PROCESS APPLICATIONS

see also GEOHERMAL ENGINEERING [GENERAL WORKS]Institutional aspects, *see* LAW AND LEGISLATION

KELSO, WASH. (COWLITZ CO.)

KENNEDY HOT SPRINGS (SNOHOMISH CO.)

see also THERMAL AND MINERAL WATERS

KING CO.

see also CASCADE RANGE

KITTITAS CO.

see also CASCADE RANGE

KLICKITAT CO.

see also COLUMBIA BASIN

LAW AND LEGISLATION

Note: Includes legal, institutional, and regulatory aspects.

LAW AND LEGISLATION – HANDBOOKS, MANUALS, ETC.

LAW AND LEGISLATION – LEASES AND PERMITS

Leases, *see* LAW AND LEGISLATION – LEASES AND PERMITS

LESTER HOT SPRINGS (KING CO.)

see also THERMAL AND MINERAL WATERS

LEWIS CO.

see also CASCADE RANGE

LINCOLN CO.

see also COLUMBIA BASIN

LONGVIEW, WASH. (COWLITZ CO.)

LOOWIT HOT SPRINGS (SKAMANIA CO.)

see also THERMAL AND MINERAL WATERS

Magnetic surveys, *see* GEOPHYSICS – MAGNETIC SURVEYS

Magnetotelluric surveys, *see* GEOPHYSICS –
ELECTROMAGNETIC SURVEYS

MAPS – GEOLOGIC

Note: Under MAPS – GEOLOGIC – [COUNTY] is a selected list of geologic maps. For a complete list of all geologic maps, *see* the indexes and web pages published by the Washington Division of Geology and Earth Resources.

Maps – Geologic – Adams Co., *see also* MAPS – GEOLOGIC –
SOUTHEAST QUADRANT

MAPS – GEOLOGIC – ASOTIN CO.

see also MAPS – GEOLOGIC – SOUTHEAST QUADRANT

Maps – Geologic – Benton Co., *see* MAPS – GEOLOGIC –
SOUTHEAST QUADRANT

MAPS – GEOLOGIC – CASCADE RANGE

see also

MAPS – GEOLOGIC – NORTHWEST QUADRANT
MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – CHELAN CO.

see also

MAPS – GEOLOGIC – NORTHEAST QUADRANT
MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – CLALLAM CO.

see also MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – CLARK CO.

see also MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – COLUMBIA CO.

see also MAPS – GEOLOGIC –

SOUTHEAST QUADRANT

MAPS – GEOLOGIC – COWLITZ CO.

see also MAPS – GEOLOGIC – SOUTHWEST QUADRANT

Maps – Geologic – Douglas Co., *see also* MAPS – GEOLOGIC –
NORTHEAST QUADRANT

Maps – Geologic – Ferry Co., *see* MAPS – GEOLOGIC –
NORTHEAST QUADRANT

Maps – Geologic – Franklin Co., *see* MAPS – GEOLOGIC –
SOUTHEAST QUADRANT

MAPS – GEOLOGIC – GARFIELD CO.

see also MAPS – GEOLOGIC – SOUTHEAST QUADRANT

Maps – Geologic – Grant Co., *see*

MAPS – GEOLOGIC – NORTHEAST QUADRANT
MAPS – GEOLOGIC – SOUTHEAST QUADRANT

MAPS – GEOLOGIC – GRAYS HARBOR CO.

see also

MAPS – GEOLOGIC – NORTHWEST QUADRANT
MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – ISLAND CO.

see also MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – JEFFERSON CO.

see also MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – KING CO.

see also

MAPS – GEOLOGIC – NORTHWEST QUADRANT
MAPS – GEOLOGIC – SOUTHWEST QUADRANT

Maps – Geologic – Kitsap Co., *see* MAPS – GEOLOGIC –
NORTHWEST QUADRANT

MAPS – GEOLOGIC – KITTITAS CO.

see also

MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – SOUTHEAST QUADRANT

MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – KLICKITAT CO.

see also

MAPS – GEOLOGIC – SOUTHEAST QUADRANT

MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – LEWIS CO.

see also MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – LINCOLN CO.

see also MAPS – GEOLOGIC – NORTHEAST QUADRANT

MAPS – GEOLOGIC – MASON CO.

see also

MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – NORTHEAST QUADRANT

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MAPS – GEOLOGIC – NORTHEAST QUADRANT

MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – OLYMPIC MOUNTAINS/OLYMPIC
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see also MAPS – GEOLOGIC – NORTHWEST QUADRANT

Maps – Geologic – Pacific Co., *see also* MAPS – GEOLOGIC –
SOUTHWEST QUADRANT

Maps – Geologic – Pend Oreille Co., *see also* MAPS –
GEOLOGIC – NORTHEAST QUADRANT

MAPS – GEOLOGIC – PIERCE CO.

see also

MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – SAN JUAN CO.

see also MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – SKAGIT CO.

see also MAPS – GEOLOGIC – NORTHWEST QUADRANT

MAPS – GEOLOGIC – SKAMANIA CO.

see also MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – SNOHOMISH CO.

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MAPS – GEOLOGIC – SOUTHEAST QUADRANT

MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOLOGIC – SPOKANE CO.

see also MAPS – GEOLOGIC – NORTHEAST QUADRANT

MAPS – GEOLOGIC – STEVENS CO.

see also MAPS – GEOLOGIC – NORTHEAST QUADRANT

MAPS – GEOLOGIC – THURSTON CO.

see also MAPS – GEOLOGIC – SOUTHWEST QUADRANT

Maps – Geologic – Wahkiakum Co., *see also* MAPS – GEOLOGIC –
SOUTHWEST QUADRANT

MAPS – GEOLOGIC – WALLA WALLA CO.

see also MAPS – GEOLOGIC – SOUTHEAST QUADRANT

MAPS – GEOLOGIC – WHATCOM CO.

see also MAPS – GEOLOGIC – NORTHWEST QUADRANT

Maps – Geologic – Whitman Co., *see also* MAPS – GEOLOGIC –
SOUTHEAST QUADRANT

MAPS – GEOLOGIC – YAKIMA CO.

see also

MAPS – GEOLOGIC – SOUTHEAST QUADRANT

MAPS – GEOLOGIC – SOUTHWEST QUADRANT

MAPS – GEOPHYSICAL

Note: This is a selected list of geophysical maps. For a complete list of all geophysical maps, *see* the indexes published by the Washington Division of Geology and Earth Resources.

MAPS – GEOTHERMAL RESOURCES

MAPS – HYDROLOGIC

MOFFETTS HOT SPRINGS (SKAMANIA CO.)

see also THERMAL AND MINERAL WATERS

MOSES LAKE, WASH., AND VICINITY

MOUNT ADAMS (YAKIMA CO.)

MOUNT BAKER (WHATCOM CO.)

MOUNT BAKER/SNOQUALMIE NATIONAL FOREST

MOUNT RAINIER (PIERCE CO.)

MOUNT ST. HELENS (SKAMANIA CO.) [GENERAL WORKS]

Note: General works section does not include heat flow and thermal surveys or thermal and mineral waters. They are subdivided below.

MOUNT ST. HELENS – HEAT FLOW AND THERMAL SURVEYS

MOUNT ST. HELENS – THERMAL AND MINERAL WATERS

Moxee Valley, *see* YAKIMA CO.

NORTH BONNEVILLE, WASH., (SKAMANIA CO.)

OHANAPECOSH HOT SPRINGS (LEWIS CO.)

see also THERMAL AND MINERAL WATERS

OKANOGAN CO.

see also CASCADE RANGE or COLUMBIA BASIN, as appropriate.

OKANOGAN RANGE – HEAT FLOW AND THERMAL SURVEYS

OLYMPIA, WASH. (THURSTON CO.)

OLYMPIC HOT SPRINGS (CLALLAM CO.)

see also THERMAL AND MINERAL WATERS

OLYMPIC MOUNTAINS AND OLYMPIC PENINSULA

see also CLALLAM CO.

OTHELLO, WASH. (ADAMS CO.)

PASCO BASIN

see also

BENTON CO.

COLUMBIA BASIN

FRANKLIN CO.

WALLA WALLA CO.

Permits, *see* LAW AND LEGISLATION – LEASES AND PERMITS

PIERCE CO.

Note: Materials about Mount Rainier are not listed here. They are listed under MOUNT RAINIER.

see also CASCADE RANGEPipelines, *see* EQUIPMENT AND MATERIALS – TRANSMISSION AND DISTRIBUTION PIPELINES

POPULAR WORKS

Power plants, *see* ELECTRIC POWER – GEOTHERMAL POWER PLANTSRefrigeration, *see* INDUSTRIAL AND PROCESS APPLICATIONSRegulatory aspects, *see* LAW AND LEGISLATION

REMOTE SENSING

RESEARCH AND DEVELOPMENT

see also EXPLORATION AND EVALUATIONReservoir evaluation, *see* EXPLORATION AND EVALUATIONResidential geothermal power, *see* POPULAR WORKS OR HEATING – RESIDENTIAL

RESOURCE PLANNING [GENERAL WORKS]

Note: Includes materials on energy planning and development to meet regional demands for heating and power consumption.

RESOURCE PLANNING – ELECTRIC POWER

see also ELECTRIC POWER

RESOURCE PLANNING – HEATING

see also HEATING

RICHLAND, WASH. (BENTON CO.)

SAINT MARTINS HOT SPRINGS (SKAMANIA CO.)

see also THERMAL AND MINERAL WATERS

SEATTLE, WASH. (KING CO.)

Seismic surveys, *see* GEOPHYSICS – SEISMIC SURVEYS

SHIPHERDS HOT SPRINGS (SKAMANIA CO.)

see also THERMAL AND MINERAL WATERS

SKAGIT CO.

see also CASCADE RANGE

SKAMANIA CO.

Note: Materials about Mount St. Helens are not listed here. They are listed under MOUNT ST. HELENS.

see also CASCADE RANGE

SNOHOMISH CO.

see also CASCADE RANGE

SOILS

SOL DUC HOT SPRINGS (CLALLAM CO.)

see also THERMAL AND MINERAL WATERSSpace heating, *see* HEATING

SPOKANE, WASH.

see also COLUMBIA BASIN

STANDARDS

Steamboat Mountain area, *see* SKAMANIA CO.

STEVENS CO.

SULPHUR HOT SPRINGS (SNOHOMISH CO.)

see also THERMAL AND MINERAL WATERSSulphur Mountain area, *see* SNOHOMISH CO.

SUMMIT CREEK SODA SPRING (LEWIS CO.)

see also THERMAL AND MINERAL WATERS

SUNNYSIDE, WASH. (YAKIMA CO.)

TACOMA, WASH. (PIERCE CO.)

THERMAL AND MINERAL WATERS [STATEWIDE AND GENERAL WORKS]

Note: Works in this section include data on water with temperatures $> 20^{\circ}$ C.

see also

BAKER HOT SPRING

CARSON HOT SPRINGS

GAMMA HOT SPRING

GREEN RIVER SODA SPRINGS

KENNEDY HOT SPRING

LESTER HOT SPRINGS

LOOWIT HOT SPRINGS

MOFFETTS HOT SPRINGS
 MOUNT SAINT HELENS – THERMAL AND MINERAL
 WATERS
 OHANAPECOSH HOT SPRINGS
 OLYMPIC HOT SPRINGS
 SAINT MARTINS HOT SPRINGS
 SHIPHERDS HOT SPRINGS
 SOL DUC HOT SPRINGS
 SULPHUR HOT SPRINGS
 SUMMIT CREEK SODA SPRING
 WATER WELLS
 WELL LOGS
 THERMAL AND MINERAL WATERS – CASCADE RANGE
 THERMAL AND MINERAL WATERS – COLUMBIA BASIN
 THERMAL AND MINERAL WATERS – OLYMPIC
 MOUNTAINS AND OLYMPIC PENINSULA
 THERMAL AND MINERAL WATERS – PUGET LOWLAND
 THERMAL AND MINERAL WATERS – SOUTHWESTERN
 WASHINGTON
 Thermal surveys, *see* GEOPHYSICS – HEAT FLOW AND
 THERMAL SURVEYS
 THURSTON CO.
 Tieton volcano, *see* YAKIMA CO.
 Tumac Mountain and Tumac plateau, *see* WHITE PASS AREA
 VANCOUVER, WASH. (CLARK CO.)
 VOLCANISM [GENERAL WORKS]
Note: Works on specific volcanoes and volcanic areas are not
 included here.
see
 GLACIER PEAK AREA
 INDIAN HEAVEN AREA
 MOUNT ADAMS
 MOUNT BAKER
 MOUNT RAINIER
 MOUNT ST. HELENS
 WHITE PASS AREA
see also
 CASCADE RANGE
 VOLCANISM – FUMARoles

VOLCANISM – GEOLOGIC HAZARDS
 VOLCANISM – GEOTHERMAL ICE CAVES
 WALLA WALLA CO.
see also
 COLUMBIA BASIN
 PASCO BASIN
 WALLA WALLA, WASH. (WALLA WALLA CO.)
 WATER WELLS
see also
 THERMAL AND MINERAL WATERS
 WELL LOGS
 Well drilling and construction, *see* EQUIPMENT AND
 MATERIALS – DRILLING
 WELL LOGS
see also
 THERMAL AND MINERAL WATERS
 WATER WELLS
 WENATCHEE NATIONAL FOREST
 WEST RICHLAND, WASH. (BENTON CO.)
 WHATCOM CO.
Note: Materials about Mount Baker are not listed here.
 They are listed under MOUNT BAKER.
see also CASCADE RANGE
 WHITE PASS AREA
 WHITMAN CO.
see also COLUMBIA BASIN
 WIND RIVER AREA (SKAMANIA CO.)
 YAKIMA CO.
see also CASCADE RANGE or COLUMBIA BASIN, as
 appropriate.
 YAKAMA INDIAN RESERVATION
 Yakima Valley, *see*
 BENTON CO.
 COLUMBIA BASIN
 KITTITAS CO.
 YAKIMA CO.
 YAKIMA, WASH. (YAKIMA CO.)

Index by Subject

Subject heading are in upper-case type. Where similar terms are in popular use, we have listed those terms with a 'see' note to lead users to the term used in this index. 'See also' notes direct the readers to related or broader terms used in the index.

Full citations are found in the Bibliography section that follows.

ADAMS CO.

see also COLUMBIA BASIN

Brown and Caldwell, 1981, Geothermal direct use feasibility study for City of Othello, Washington.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Oregon Institute of Technology Geo-Heat Center, 1982, Feasibility study for Adams County Fire Station, Othello, Washington.

Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.

Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.

Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.

Aeromagnetic surveys, see

GEOPHYSICS – MAGNETIC SURVEYS

AGRIBUSINESS

see also GEOTHERMAL ENGINEERING [GENERAL WORK]

Allen, Eliot, and Associates, Inc., 1981, Inventory of Washington industries with geothermal direct-use potential.

Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.

Higbee, C. V.; Ryan, G. P., 1981, Greenhouse heating with low temperature geothermal water.

Lienau, P. J.; Lund, J. W., 1974, Multipurpose use of geothermal energy; Proceedings of the international conference on geothermal energy for industrial, agricultural and commercial-residential uses.

Lund, J. W., 1985, Agriculture and aquaculture applications of geothermal energy.

Lund, J. W., 2003, Examples of industrial uses of geothermal energy in the United States.

Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State.

Rafferty, Kevin, 1985, Guide to greenhouse heating with geothermal energy.

Rafferty, Kevin, 1990, Geothermal greenhouse heating.

Rafferty, Kevin, 1992, Greenhouse heating equipment selection spreadsheet.

Rafferty, Kevin, 2004, Direct-use temperature requirement—A few rules of thumb.

Ahtanum Valley, see YAKIMA CO.

AQUACULTURE

see also GEOTHERMAL ENGINEERING [GENERAL WORKS]

Chiasson, Andrew, 2005, Aquaculture and geothermal heat pump systems.

Dassow, J. A.; Steinberg, M. A., 1973, The technological basis for development of aquaculture to produce low-cost food fish.

Lund, J. W., 1985, Agriculture and aquaculture applications of geothermal energy.

Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State.

Rafferty, Kevin, 1986, Pond heat loss.

Rafferty, Kevin, 1991, Aquaculture.

Rafferty, Kevin, 2004, Direct-use temperature requirement—A few rules of thumb.

Smith, K. C., 1981, A layman's guide to geothermal aquaculture.

Sommaruga, C.; Cioppi, D., 1986, Geothermal aquaculture.

ASOTIN CO.

see also COLUMBIA BASIN

Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.

Walkey, Clifton, 1984, Geochemistry and structural setting of a geothermal spring located north of the Washington–Oregon border proximate to the Snake River.

BAKER HOT SPRING (WHATCOM CO.)

see also THERMAL AND MINERAL WATERS

Brook, C. A.; Mariner, R. H.; Mabey, D. R.; Swanson, J. R.; Guffanti, Marianne; Muffler, L. J. P., 1979, Hydrothermal convection systems with reservoir temperatures $\geq 90^\circ$ C.

Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal electricity generation; Draft.

Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VII, Geothermal space heating; Draft.

Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington.

Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.

BENTON CO.

see also COLUMBIA BASIN PASCO BASIN

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Richland, Washington—A study of district heating favorabilities.

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for West Richland, Washington—A study of district heating favorabilities.

Benson, L. V., 1978, Secondary minerals, oxidation potentials, pressure and temperature gradients in the Pasco Basin of Washington State.

Harper, Robert, 1982, Geothermal studies suggest energy prospects.

Konicek, D. L., 1974, Geophysical survey in south-central Washington.

Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.

Moses, L. J., 1988, Mineral, hydrocarbon, and geothermal resource potential study plan.

Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State.

Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.

Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.

Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington.

BIBLIOGRAPHIES

Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume 11—Bibliography.

Geo-Heat Center, 2004, Washington geothermal publications list for Geopowering the West.

Korosec, M. A., 1980, Bibliography of geothermal resource information for the State of Washington.

Korosec, M. A., 1983, Additions to the bibliography of geothermal resource information for the State of Washington.

BLACK DIAMOND, WASH., *see* KING CO.

BONNEVILLE HOT SPRINGS (SKAMANIA CO.)

see also North Bonneville, Wash.

Bloomquist, R. G., 2006, Bonneville Hot Springs Resort, North Bonneville, WA.

CAMAS, WASH., AND VICINITY

Daneš, Z. F., 1979, Bouguer gravity map, Camas area, Washington and Oregon.

Korosec, M. A.; Schuster, J. E., 1980, Geothermal investigations in the Camas area, Washington, 1979.

McEuen, R. B.; Rigby, F. A.; Bowen, R. G., 1979, Geothermal resources potential of the Lacamas fault region, Camas, Washington, U.S.A.

Rigby, F. A.; McEuen, R. B., 1980, Resistivity study of Camas, Washington—Final report.

CARSON HOT SPRINGS (SKAMANIA CO.)

see also THERMAL AND MINERAL WATERS

Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range.

CARSON, WASH. (SKAMANIA CO.)

Oregon Institute of Technology Geo-Heat Center, 1982, Geothermal heating facilities for Carson Elementary School and Wind River Middle School.

CASCADE RANGE

Note: Regional materials on the Cascade Range are listed here. Specific materials

within the Cascade Range are listed under the counties:

CHELAN CO.

KING CO.

KITTITAS CO.

LEWIS CO.

OKANOGAN CO.

PIERCE CO.

SKAGIT CO.

SKAMANIA CO.

SNOHOMISH CO.

WHATCOM CO.

YAKIMA CO.

Specific materials are also listed under the volcanoes and volcanic areas:

GLACIER PEAK AREA

INDIAN HEAVEN AREA

MOUNT ADAMS

MOUNT BAKER

MOUNT RAINIER

MOUNT ST. HELENS

WHITE PASS AREA

see also

CASCADE RANGE (NORTH)

CASCADE RANGE (SOUTH)

CASCADE RANGE [GENERAL WORKS]

Bacon, C. R., 1980, Goals are set for research in Cascades.

Blackwell, D. D.; Priest, G. R., 1996, Comment on "Rates and patterns of groundwater flow in the Cascade Range volcanic arc and the effect on subsurface temperatures" by S. E. Ingebritsen, D. R. Sherrod, and R. H. Mariner.

Bloomquist, R. G., 1983, Geothermal resources in the Cascades—Accessible/developable—The institutional setting.

Chen, Allan, 1983, Geothermal powerhouse.

Crandell, D. R., 1976, Preliminary assessment of volcanic hazards from future volcanic eruptions in Washington.

Forcella, L. S., 1982, Geochemistry of thermal and mineral waters in the Cascade mountains of western North America.

Guffanti, Marianne; Muffler, L. J. P., 1985, Geothermal resources of the Cascades; USGS workshop.

Guffanti, Marianne; Muffler, L. J. P., editors, 1985, Proceedings of the workshop on geothermal resources of the Cascade Range.

Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.

Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, Mark, 2003, Water-table elevation within volcanic edifices along the Cascade Range—Insights from numerical simulations [abstract].

Long, Gregg; McClain, David, 1983, Economic constraints to the development of geothermal power in the Cascades.

Mariner, R. H., 1985, Geochemical features of Cascades hydrothermal systems.

Mariner, R. H.; Evans, W. C.; Presser, T. S.; White, L. D., 2003, Excess nitrogen in selected thermal and mineral springs of the Cascade Range in northern California, Oregon, and Washington—Sedimentary or volcanic in origin.

Mariner, R. H.; Presser, T. S.; Evans, W. C., 1993, Geothermometry and water–rock interaction in selected thermal systems in the Cascade Range and Modoc Plateau, western United States.

Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1989, Discharge rates of thermal fluids in the Cascade Range of Oregon and Washington and their relationship to the geologic environment.

Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1990, Discharge rates of fluid and heat by thermal springs of the Cascade Range, Washington, Oregon, and northern California.

Muffler, L. J. P.; Bacon, C. R.; Duffield, W. A., 1982, Geothermal systems of the Cascade Range.

Sidle, W. C., 1981, A geologic overview of the Cascade Range.

Smith, J. G., 1987, New compilation geologic map of the Cascade Range in Washington.

Smith, J. G., 1989, Geologic map of upper Eocene to Holocene volcanic and related rocks in the Cascade Range, Washington.

U.S. Geological Survey, 1980, Cascade Range could produce thermal energy as well as volcanoes.

Youngquist, Walter, 1980, Pacific Northwest geothermal—Review and outlook.

Youngquist, Walter, 1981, Geothermal potential of the Cascades.

CASCADE RANGE – EXPLORATION AND EVALUATION

see also **CASCADE RANGE (SOUTH) – EXPLORATION AND EVALUATION**

Beeson, M. H., 1981, Hydrothermal alteration in the Cascades.

Bogart, L. E.; Readdy, L. A., 1987, Importance of fault mapping to mineral/geothermal exploration—Relationship to fluid migration and ore formation—Northwest Washington.

- Duffield, W. A., 1983, Geologic framework for geothermal energy in the Cascade Range.
- Duffield, W. A.; Guffanti, Marianne, 1981, The geothermal research program of the U.S. Geological Survey.
- Geothermal Resources Council, 1981, Geothermal potential of the Cascade mountain range—Exploration and development.
- Geothermal Resources Council, 1981, Symposium on the geothermal potential of the Cascade mountain range, 19–22 May 1981, Portland, Oregon; Program with abstracts.
- Grose, L. T., 1975, Geothermal energy—Geology, exploration, and developments; Part I.
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.
- Hook, J. W., 1984, The geothermal potential of the Cascade Range.
- Kent Associates, 1981, 1981 geothermal drilling project for State of Washington, Department of Natural Resources, Division of Geology and Earth Resources.
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- La Fleur, Joe, 1983, An exploration overview.
- Lund, J. W.; Allen, E. M.; Higbee, C. V.; Lienau, P. J.; Phillips, Wayne; Shreve, Jim, 1980, Assessment of geothermal potential within the BPA marketing area, Contract No. DE-AC79-79BP15325, July, 1980.
- Mariner, R. H.; Brook, C. A.; Reed, M. J.; Bliss, J. D.; Rapport, A. L.; Lieb, R. J., 1983, Low-temperature geothermal resources in the western United States.
- Muffler, L. J. P.; Guffanti, Marianne, 1989, Integration of earth-science data sets to estimate undiscovered geothermal resources of the Cascade Range.
- Pilkington, H. D., 1981, Geothermal exploration—Philosophy, methods, impacts, land positions and problems.
- Schuster, J. E., 1981, A geothermal exploration philosophy for Mount St. Helens, (and other Cascade volcanoes?).
- Thermal Power Conference, 1972, Proceedings, October 5–6, 1972.
- Vice, D. H., 1980, Geothermal potential in Washington.
- Vice, D. H., 2008, Geothermal exploration in the central Washington Cascades by Burlington Northern.
- Weaver, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism—An improved first-order geothermal assessment of the Cascade Range.
- CASCADE RANGE – GEOPHYSICAL SURVEYS**
- Note:* Includes electrical, electromagnetic, gravity, magnetic, and seismic surveys. Thermal surveys are listed under **CASCADE RANGE – HEAT FLOW AND THERMAL SURVEYS**.
- see also* **CASCADE RANGE (SOUTH) – HEAT FLOW AND GEOPHYSICAL SURVEYS**
- Booker, J. R., 1981, Geomagnetic sounding in the Cascade Range of Washington State as a geothermal exploration technique [abstract].
- Daneš, Z. F.; Phillips, W. M., 1983, Complete Bouguer gravity anomaly map, Cascade mountains, Washington.
- Finn, C. A., 1985, Gravity and magnetic studies in the Cascade Range.
- Finn, C. A.; Williams, D. L., 1983, Gravity studies in the Cascade Range.
- Iyer, H. M., 1985, Characteristics of Cascades magmatic systems determined from teleseismic-residual studies.
- Phillips, W. M., 1983, Progress report for the regional gravity survey of the Cascade mountain range, Washington.
- Stanley, W. D., 1982, A regional magnetotelluric survey of the Cascade Range region, northwestern United States.
- Stanley, W. D., 1983, Regional and local geoelectrical structures in the Cascades and their role in geothermal and volcano hazard assessment [abstract].
- Stanley, W. D., 1984, Tectonic study of Cascade Range and Columbia plateau in Washington State based upon magnetotelluric soundings.
- CASCADE RANGE – HEAT FLOW AND THERMAL SURVEYS**
- see also* **CASCADE RANGE (SOUTH) – HEAT FLOW AND GEOPHYSICAL SURVEYS**
- Blackwell, D. D., 1981, Heat flow in the Cascade Range of Oregon and Washington, U.S.A. [abstract].
- Blackwell, D. D., 1982, Heat flow and geothermal potential of the Cascade Range [abstract].
- Blackwell, D. D.; Priest, G. R., 1996, Comment on “Rates and patterns of groundwater flow in the Cascade Range volcanic arc and the effect on subsurface temperatures” by S. E. Ingebritsen, D. R. Sherrod, and R. H. Mariner.
- Blackwell, D. D.; Steele, J. L., 1983, A summary of heat-flow studies in the Cascade Range.
- Blackwell, D. D.; Steele, J. L., 1985, Heat flow of the Cascade Range.
- Blackwell, D. D.; Steele, J. L.; Priest, G. R.; Black, G. L.; Schuster, J. E.; Korosec, M. A., 1982, Heat flow, gravity and magmatism in the Cascade Range of the Pacific Northwest [abstract].
- Fournier, R. O., 1989, Maximum depths of earthquakes as an aid in evaluating convective and conductive heat fluxes from the Cascade province and adjacent regions.
- Friedman, J. D., 1972, Aerial thermal surveillance of volcanoes of the Cascade Range, Washington, Oregon, and northern California [abstract].
- Friedman, J. D., 1974, Thermal surveillance of Cascade Range volcanoes [abstract].
- Friedman, J. D.; Realmuto, V. J.; Frank, D. G., 1991, Comparison of thermal features of Cordilleran volcanoes using airborne sensing systems, with special reference to Mount St. Helens, WA [abstract].
- Ginsberg, I. W., 1982, Thermal infrared imagery of the Cascade Range volcanics.
- Hawley, D. L.; Brewster, S. B., Jr., 1982, A thermal infrared survey of selected sites in the Cascade mountain range of California, Oregon and Washington, surveyed July 1981.
- Korosec, M. A.; Schuster, J. E., 1983, Heatflow drilling in Washington during 1981.
- MacLeod, N. S.; Swanson, D. A., 1985, Volcanism in the Cascade Range.
- Morgan, Paul; Gosnold, W. D., 1989, Heat flow and thermal regimes in the continental United States.
- Moxham, R. M., 1970, Thermal features at volcanoes in the Cascade Range, as observed by aerial infrared surveys.
- Muffler, L. J. P., 1987, Geothermal studies of the U.S. Geological Survey in the Cascade Range.
- Nathenson, Manuel; Guffanti, Marianne, 1988, Geothermal gradients in the conterminous United States.
- Prestwich, S. M., 1985, Overview on Cascades drilling status.

Priest, G. R., 1984, Rationale for scientific drilling in the Cascade volcanic arc [abstract].

Priest, G. R., 1985, Continental scientific drilling—The Cascades as a target.

Priest, G. R., 1986, A program for scientific drilling in the Cascades, northern California, Oregon, and Washington.

Priest, G. R., 1987, Geothermal resource potential of Cascade volcanic arc [abstract].

Priest, G. R., 1987, Investigation of the thermal regime and geologic history of the Cascade volcanic arc—First phase of a program for scientific drilling in the Cascade Range.

Priest, G. R.; Blackwell, D. D., 1984, Understanding thermal energy and dynamic processes in subduction-related volcanic arcs.

Schuster, J. E.; Korosec, M. A., 1981, Preliminary report on heat-flow drilling in Washington during 1981.

CASCADE RANGE (NORTH)

see also

CASCADE RANGE

CASCADE RANGE (SOUTH)

Note: Regional materials on the northern Cascade Range are listed here. Specific materials within the northern Cascade Range are listed under the counties:

CHELAN CO.

KING CO.

KITTITAS CO.

OKANOGAN CO.

SKAGIT CO.

SNOHOMISH CO.

WHATCOM CO.

Specific materials are also listed under the volcanoes and volcanic areas:

GLACIER PEAK AREA

MOUNT BAKER

Callahan, O. A., 2007, Exhumation and topographic development of the Okanogan Range, northeast North Cascades.

Callahan, O. A.; Crider, Juliet; Reiners, Peter, 2007, Constraints on mid Cenozoic topography, exhumation and tectonics within the Okanogan Range, northeast North Cascades [abstract].

Johnson, S. H.; Couch, R. W., 1970, Crustal structure in the north Cascade mountains of Washington and British Columbia from seismic refraction measurements.

Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.

U.S. Forest Service, 1982, Geothermal resources seminar, Mt. Baker—Snoqualmie National Forest, June 24, 1982.

CASCADE RANGE (SOUTH)

see also

CASCADE RANGE

CASCADE RANGE (NORTH)

Note: Regional materials on the southern Cascade Range are listed here. Specific materials within the southern Cascade Range are listed under the counties:

KING CO.

KITTITAS CO.

LEWIS CO.

PIERCE CO.

SKAMANIA CO.

YAKIMA CO.

Specific materials are also listed under the volcanoes and volcanic areas:

INDIAN HEAVEN AREA

MOUNT ADAMS

MOUNT RAINIER

MOUNT ST. HELENS

WHITE PASS AREA

CASCADE RANGE (SOUTH)

[GENERAL WORKS]

Clayton, G. A., 1982, Pliocene and Pleistocene volcanism in the White Pass area, south Cascade Range Washington, and its implications for models of subductions beneath the southern Washington Cascades [abstract].

Clayton, G. A., 1983, Geology of the White Pass area, south-central Cascade Range, Washington.

Clayton, G. A., 1983, Pliocene and Pleistocene volcanic history of the White Pass—Tumac Plateau region, Washington.

Eichelberger, L., 1980, Cascade Range, Washington and Oregon—General case.

Hammond, P. E., compiler, 1974, Brief outline to volcanic stratigraphy and guide to geology of southern Cascade Range, Washington and northern Cascade Range. Oregon—Guidebook for geothermal field trip, June 24–29, 1974.

Hammond, P. E., 1975, Preliminary geologic map and cross-sections with emphasis on Quaternary volcanic rocks, southern Cascade mountains, Washington.

Hammond, P. E., 1980, Reconnaissance geologic map and cross sections of the southern Washington Cascade Range, latitude 45°30′–47°15′ N., longitude 120°45′–122°22.5′ W

Hammond, P. E.; Bentley, R. D.; Brown, J. C.; Ellingson, J. A.; Swanson, D. A., 1977, Volcanic stratigraphy and structure of the southern Cascade Range, Washington—Field trip no. 4.

Huntting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain—Lemei Rock area, Skamania County, Washington.

Wise, W. S., 1970, Cenozoic volcanism in the Cascade mountains of southern Washington.

CASCADE RANGE (SOUTH) – EXPLORATION AND EVALUATION

Barnett, D. B., 1986, The 1985 geothermal gradient drilling project for the State of Washington.

Barnett, D. B.; Korosec, M. A., 1986, Geothermal exploratory drilling by the State of Washington in 1985.

Barnett, D. B.; Korosec, M. A., 1989, Geothermal research by the State of Washington [abstract].

Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range.

Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.

Hildreth, Wes; Fierstein, Judy, 1990, Geologic map and geothermal assessment of the Mount Adams volcanic field, Cascade Range of southern Washington.

Huntting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain—Lemei Rock area, Skamania County, Washington.

Korosec, M. A.; Barnett, D. B., 1989, Geothermal resource exploration target area defined by Division drilling projects.

Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.

Korosec, M. A.; Schuster, J. E., 1980, Geothermal assessment for the State of Washington [abstract].

Schuster, J. E., 1972, Geothermal exploration in Washington.

CASCADE RANGE (SOUTH) – HEAT FLOW AND GEOPHYSICAL SURVEYS

Note: Includes heat flow and electrical, electromagnetic, gravity, magnetic, seismic, and thermal surveys.

see also

CASCADE RANGE – GEOPHYSICAL SURVEYS

CASCADE RANGE – HEAT FLOW AND THERMAL SURVEYS

Blackwell, D. D.; Steele, J. L.; Kelley, S. A., 1990, Heat flow in the State of Washington and thermal conditions in the Cascade Range.

Daneš, Z. F., 1980, Regional gravity survey of the southern Cascades, Washington.

Daneš, Z. F., 1981, Preliminary Bouguer gravity map, southern Cascade mountains area, Washington.

Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.

Hammond, P. E.; Korosec, M. A., 1983, Progress report on the time-space-composition model for the Quaternary volcanics of the south Cascades, Washington.

Hammond, P. E.; Pedersen, S. A.; Hopkins, K. D.; Aiken, Dan; Harle, D. S.; Daneš, Z. F.; Konicek, D. L.; Stricklin, C. R., 1976, Geology and gravimetry of the Quaternary basaltic volcanic field, southern Cascade Range, Washington.

Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.

Phillips, W. M., 1983, Preliminary interpretation of regional gravity information from the southern Cascade mountains of Washington.

CASCADIA BASIN (OCEAN)

Thomson, R. E.; Davis, E. E.; Burd, B. J., 1995, Hydrothermal venting and geothermal heating in Cascadia Basin.

Case histories/case studies, *see* HEATING – CASE HISTORIES

CHELAN CO.

see also **CASCADE RANGE**

Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.

Crowder, D. F.; Tabor, R. W.; Ford, A. B., 1966, Geologic map of the Glacier Peak quadrangle, Snohomish and Chelan Counties, Washington.

Schasse, H. W., compiler, 1987, Geologic map of the Mount Rainier quadrangle, Washington.

Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.

U.S. Geological Survey, 1977, Aeromagnetic map of part of northern Washington.

CHENEY, WASH. (SPOKANE CO.)

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Cheney, Washington—A study of district heating favorabilities.

Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.

CLALLAM CO.

see also **OLYMPIC MOUNTAINS AND OLYMPIC PENINSULA**

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

Bloomquist, R. G., 2003, Sol Duc Hot Springs—The resort that refused to die.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Oregon Institute of Technology Geo-Heat Center, 1981, Sol Duc Hot Springs feasibility study (Washington), December, 1981.

Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States.

Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.

Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.

CLARK CO.

Daneš, Z. F., 1979, Bouguer gravity map, Camas area, Washington and Oregon.

Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington.

Lienau, P. J., 1986, Status of direct heat projects in western states.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Korosec, M. A.; Schuster, J. E., 1980, Geothermal investigations in the Camas area, Washington, 1979.

Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.

McEuen, R. B.; Rigby, F. A.; Bowen, R. G., 1979, Geothermal resources potential of the Lamas fault region, Camas, Washington, U.S.A.

Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, 1987, Geothermal pipeline—Washington—Clark College uses 50° F for district heating.

Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.

Phillips, W. M., compiler, 1987, Geologic map of the Vancouver quadrangle, Washington.

Rigby, F. A.; McEuen, R. B., 1980, Resistivity study of Camas, Washington—Final report.

COLUMBIA BASIN

Note: Regional materials on the Columbia Basin are listed here. Specific materials within the Columbia Basin are listed under the counties:

ADAMS CO.

ASOTIN CO.

BENTON CO.

COLUMBIA CO.

DOUGLAS CO.

FRANKLIN CO.

GARFIELD CO.

GRANT CO.

KLICKITAT CO.

LINCOLN CO.

OKANOGAN CO.

SPOKANE CO.

WALLA WALLA CO.

WHITMAN CO.

YAKIMA CO.

Biggane, J. H., 1981, The low temperature geothermal resources of the Yakima region—A preliminary report.

Bodvarsson, Gunnar; Reistad, G. M., 1979, Performance and feasibility of forced geohat recovery for low temperature applications.

Bortleson, G. C.; Cox, S. E., 1986, Occurrence of dissolved sodium in ground waters in basalts underlying the Columbia plateau, Washington.

Brown, J. C., 1980, Stratigraphy and ground-water hydrology of selected areas, Columbia plateau, Washington.

Cremer, G. M., 1981, Pacific Northwest region.

Daneš, Z. F., 1981, Geophysical studies on Columbia River basalt province.

- Derkey, P. D.; Johnson, B. R., 1995, Digital maps of low- to moderate-temperature geothermal springs and wells in the Pacific Northwest—A contribution to the Interior Columbia River Basin Ecosystem Management Project.
- Ertec Western, Inc., 1981, Revisions to, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume II—Bibliography.
- Harper, Robert, 1982, Geothermal studies suggest energy prospects.
- Hearn, P. P.; Steinkampf, W. C.; Bortleson, G. C.; Drost, B. W., 1985, Geochemical controls on dissolved sodium in basalt aquifers of the Columbia plateau, Washington.
- Hoover, D. B.; Long, C. L.; Senterfit, R. M., 1978, Some results from audiomagneto-telluric investigations in geothermal areas.
- Konicek, D. L., 1975, Geophysical survey in south-central Washington.
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1982, The low temperature geothermal resources of eastern Washington.
- Lund, J. W.; Allen, E. M.; Higbee, C. V.; Lienau, P. J.; Phillips, Wayne; Shreve, Jim, 1980, Assessment of geothermal potential within the BPA marketing area, Contract No. DE-AC79-79BP15325, July, 1980.
- Mariner, R. H.; Brook, C. A.; Reed, M. J.; Bliss, J. D.; Rapport, A. L.; Lieb, R. J., 1983, Low-temperature geothermal resources in the western United States.
- Morgan, Paul; Gosnold, W. D., 1989, Heat flow and thermal regimes in the continental United States.
- Murphy, P. J.; Johnpeer, G. D., 1981, An assessment of geothermal resource potential Pasco Basin and vicinity, Washington.
- Nathenson, Manuel; Guffanti, Marianne, 1988, Geothermal gradients in the conterminous United States.
- Newcomb, R. C., 1965, Geology and ground-water resources of the Walla Walla River basin, Washington—Oregon.
- Newcomb, R. C., 1972, Quality of the ground water in basalt of the Columbia River group, Washington, Oregon, and Idaho.
- Rafferty, Kevin; Knipe, Ed, 1985, Some considerations for large water source heat pumps.
- Robinette, M. S.; Robinette, M. J.; Brown, J. C., 1977, Geophysical investigations of Washington's ground-water resources; annual report 1975/1976.
- Schuster, J. E.; Bloomquist, R. G., 1994, Low-temperature geothermal resources of Washington.
- Smith, R. N., 1980, Heat flow of the western Snake River plain.
- Stanley, W. D., 1984, Tectonic study of Cascade Range and Columbia plateau in Washington State based upon magnetotelluric soundings.
- Stoffel, K. L.; Korosec, M. A., 1984, Low temperature geothermal resources of the Columbia Basin, eastern Washington.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Fluid-temperature logs for selected wells in eastern Washington.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Geophysical logs of selected wells in eastern Washington.
- Swanson, D. A.; Wright, T. L.; Zietz, Isidore, 1979, Aeromagnetic map and geologic interpretations of the west-central Columbia plateau, Washington and adjacent Oregon.
- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.
- Thermal Power Conference, 1972, Proceedings, October 5–6, 1972.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- Walkey, Clifton, 1984, Geochemistry and structural setting of a geothermal spring located north of the Washington—Oregon border proximate to the Snake River.
- Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake—Ritzville—Connell area, east-central Washington.

COLUMBIA CO.

see also COLUMBIA BASIN

- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.

Computer programs, *see*

GEOTHERMAL ENGINEERING – COMPUTER PROGRAMS

GEOTHERMAL RESOURCES – COMPUTER PROGRAMS

COWLITZ CO.

- Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.
- Crandell, D. R.; Mullineaux, D. R., 1978, Potential hazards from future eruptions of Mount St. Helens volcano, Washington.
- Hyde, J. H., 1970, Geologic setting of Merrill Lake and evaluation of volcanic hazards in the Kalama River valley near Mount St. Helens, Washington.
- Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington.
- Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.
- Lipman, P. W.; Mullineaux, D. R., editors, 1981, The 1980 eruptions of Mount St. Helens, Washington.
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.
- Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.
- Phillips, W. M., compiler, 1987, Geologic map of the Vancouver quadrangle, Washington.
- Thompson, J. M., 1990, Chemical data from thermal and nonthermal springs in Mount St. Helens National Monument, Washington.
- U.S. Forest Service, 1978, Geothermal leasing and development, Gifford Pinchot National Forest; Draft environmental analysis report.
- U.S. Forest Service, 1978, Geothermal leasing and development on part of the Gifford Pinchot National Forest; Draft environmental statement.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Margaret area, Washington.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. St. Helens area, Washington.
- Vice, D. H., 1980, The Pigeon Springs geothermal prospect, Cowlitz Co., Washington.

- Vice, D. H., 2008, Geothermal exploration in the central Washington Cascades by Burlington Northern.
- Direct use, see**
- AGRIBUSINESS**
- AQUACULTURE**
- GEOTHERMAL ENGINEERING [GENERAL WORKS]**
- HEATING**
- INDUSTRIAL AND PROCESS APPLICATIONS**
- District heating, see HEATING**
- DOUGLAS CO.**
- see also* **COLUMBIA BASIN**
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.
- Drilling, see**
- EXPLORATION AND EVALUATION**
- EQUIPMENT AND MATERIALS – DRILLING**
- GEOPHYSICS – DRILLING – METHODOLOGY**
- GEOTHERMAL ENGINEERING [GENERAL WORKS]**
- ELECTRIC POWER [GENERAL WORKS]**
- Austin, A. L.; House, P. A., 1978, New concepts for converting the energy in low- to medium-temperature liquids, with emphasis on geothermal applications.
- Bloomquist, R. G.; Black, G. L.; Parker, D. S.; Sifford, A.; Simpson, S. J.; Street, L. V., 1985, Evaluation and ranking of geothermal resources for electrical generation or electrical offset in Idaho, Montana, Oregon, and Washington.
- Bloomquist, R. G.; Geyer, J. D.; Sifford, A., 1987, Evaluation and ranking of geothermal resources for electrical generation or electrical offset in Idaho, Montana, Oregon and Washington; PURPA influence on contemporary geothermal plants—Case studies 1986.
- Bloomquist, R. G.; O'Brien, R. G.; Spurr, Mark, 1999, Geothermal district energy at collocated sites.
- Britton, J. M.; Forster, C.; Fairbank, B. D., 1984, Report on Mt. Baker geothermal project, Whatcom County, Washington; 1984 exploration program (Phase IIb).
- Davis, A. E.; Enderlin, W. I.; Blahnik, D. E.; Jacobson, J. J.; Weakley, S. A., 1980, Assessment of geothermal energy as a power source for U.S. aluminum reduction plants.
- Dickson, M. H.; Fanelli, Mario, editors, 1990, Small geothermal resources—A guide to development and utilization. Electric Power Research Institute, 1987, Proceedings; Tenth annual geothermal conference and workshop.
- Fassbender, L. L., 1979, Geothermal electric power in the Pacific Northwest.
- Kestin, Joseph; DiPippo, Ronald; Khalifa, H. E.; Ryley, D. J., editors, 1980, Sourcebook on the production of electricity from geothermal energy.
- Kreuter, H.; Kapp, B., 2008, The concept of hybrid power plants in geothermal applications.
- Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources.
- Milora, S. L.; Tester, J. W., 1976, Geothermal energy as a source of electric power—Thermodynamic and economic design criteria.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century.
- Ryan, G. P., 1982, Binary generators—You'll wonder where the power went.
- Ryan, G. P., 1983, Binary generators—The go/no go decision.
- Seely, D. B., 1985, Geothermal assessment in the Bonneville Power Administration service area.
- Spinney, P. J., 1984, Seattle City Light geothermal exploration studies.
- SRI International; Freeman and Associates; Intasa; Leitner, Philip, 1980, Small power production and cogeneration facilities—Eligibility, rates and exemptions for qualifying and utility-owned geothermal small power production facilities; Western regional draft supplemental environmental impact statement.
- United Nations Symposium on the Development and Use of Geothermal Resources, (2nd, San Francisco, 1975), 1976, Proceedings.
- United Nations Symposium on the Development and Utilization of Geothermal Resources, (1st, Pisa, 1970), 1971, Proceedings.
- ELECTRIC POWER – ECONOMIC ASPECTS**
- Battocletti, Liz, 2003, Geothermal small business workbook.
- Bloomquist, R. G., 1981, A program for accelerating geothermal development in the State of Washington.
- Bloomquist, R. G., compiler, 1981, A proposal for Northwest geothermal development.
- Bloomster, C. H., 1975, Economic analysis of geothermal energy costs.
- Brown and Caldwell, 1981, Geothermal direct use feasibility study for City of Othello, Washington.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, Low-enthalpy geothermal resources for power generation: CRC Press/Balkema, 149 p.
- DiPippo, Ronald, 1999, Small geothermal power plants—Design, performance and economics.
- Energy Design Update, 1998, New drilling method may chop 25% off geothermal loop costs.
- GeothermEx, Inc., 1987, Considerations for a program to confirm a 100-MW geothermal resource in the Pacific Northwest; Draft.
- Kreuter, H.; Kapp, B., 2008, The concept of hybrid power plants in geothermal applications.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Skamania County, Washington.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Whatcom County, Washington.
- Olson, H. J., 1982, The pricing of geothermal energy for electrical power generation.
- Rafferty, Kevin, 2003, The economics of connecting small buildings to geothermal district heating systems.
- Reif, Thomas, 2008, Profitability analysis and risk management of geothermal projects.
- ELECTRIC POWER – ENVIRONMENTAL ASPECTS**
- Chupka, Mark; Howarth, David, 1992, Renewable electric generation—An assessment of air pollution prevention potential; Final report.
- Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal electricity generation; Draft.
- U.S. Bonneville Power Administration, 1993, Resource programs final environmental impact statement.

ELECTRIC POWER – GEOTHERMAL POWER PLANTS

- Blaydes & Associates, 2007, California geothermal energy collaborative—Expanding California's confirmed geothermal resources bases—Geothermal permitting guide.
- Bloomquist, R. G.; Geyer, J. D.; Sifford, B. A., III, 1989, Innovative design of new geothermal generating plants—Appendices.
- Bloomquist, R. G.; Geyer, J. D.; Sifford, B. A., III, 1989, Innovative design of new geothermal generating plants—Supplement.
- Brown, H., 1998, New condensers for geothermal power.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, Low-enthalpy geothermal resources for power generation.
- DeBerry, D. W.; Ellis, P. F.; Thomas, C. C., 1978, Materials selection guidelines for geothermal power systems; First edition.
- Dickson, M. H.; Fanelli, Mario, editors, Geothermal energy—Utilization and technology.
- DiPippo, Ronald, 1980, Geothermal energy as a source of electricity—A worldwide survey of the design and operation of geothermal power plants.
- DiPippo, Ronald, 1999, Small geothermal power plants—Design, performance and economics.
- DiPippo, Ronald, 2008, Geothermal power plants—Principles, applications, case studies and environmental impact; 2nd ed.
- DiPippo, Ronald; Ellis, P. F., II, 1990, Geothermal information series, Part 2—Geothermal power cycle selection guidelines; Draft final report, EPRI project RP3034-1.
- Johnson, V. V., 1980, Utility perspectives on northwest geothermal resources.
- Kreuter, H.; Kapp, B., 2008, The concept of hybrid power plants in geothermal applications.
- Lund, J. W.; Boyd, Tonya, 1999, Small geothermal power project examples.
- Lund, J. W., 2004, 100 years of geothermal power production: Geo-Heat Center Bulletin.
- Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources.
- ORMAT, Inc., [no date], Production of electrical energy from low enthalpy geothermal resources by binary power plants.
- Sundquist, C. T., 1987, The absorption power generator.
- Sundquist, C. T., 1989, A small absorption power generator using low grade geothermal heat.
- Electric power – Legal aspects, see LAW AND LEGISLATION**
- Electrical surveys, see GEOPHYSICS – ELECTRICAL SURVEYS**
- Electromagnetic surveys, see GEOPHYSICS – ELECTROMAGNETIC SURVEYS**
- ELLENSBURG, WASH. (KITITITAS CO.)**
- Sackville-West Cortner; Gerard, Thomas J., and Associates, Inc., 1984, Geothermal heat pump study for Parke Creek Group Home.
- Energy – Geothermal, see ELECTRIC POWER**
- Energy resource planning, see RESOURCE PLANNING**
- ENVIRONMENTAL IMPACT STATEMENTS**
- Brown, H., 1998, New condensers for geothermal power.
- SRI International; Freeman and Associates; Intasa; Leitner, Philip, 1980, Small power production and cogeneration facilities—Eligibility, rates and exemptions for qualifying and utility-owned geothermal small power production facilities; Western regional draft supplemental environmental impact statement.
- U.S. Bonneville Power Administration, 1993, Resource programs final environmental impact statement.
- U.S. Bureau of Land Management; U.S. Forest Service, 2008, Draft programmatic environmental impact statement (PEIS) for geothermal leasing in the western United States.
- U.S. Department of the Interior, 1973, Final environmental statement for the geothermal leasing program.
- U.S. Forest Service, 1978, Geothermal leasing and development, Gifford Pinchot National Forest; Draft environmental analysis report.
- U.S. Forest Service, 1978, Geothermal leasing and development on part of the Gifford Pinchot National Forest; Draft environmental statement.
- U.S. Forest Service, 1978, Gifford Pinchot National Forest—Final environmental impact statement, Upper Cispus Planning Unit, land management plan.
- U.S. Forest Service, 1979, Geothermal leasing and development on part of the Gifford Pinchot National Forest, Skamania County, Washington.
- EPHRATA, WASH. (GRANT CO.)**
- Bloomquist, R. G., 1983, Ephrata attracts national attention—Governor dedicates innovative geothermal system.
- Bloomquist, R. G., 1983, Water source heat pumps for district heating.
- Fornes, A. O., 1981, Direct-use geothermal district heating project in the U.S.—A summary.
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- Lienau, P. J., 1986, Status of direct heat projects in western states.
- Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.
- Oregon Institute of Technology Geo-Heat Center, 1979, Heating facilities for the city schools, Ephrata, Washington, November 1979.
- Rafferty, Kevin; Knipe, Ed, 1985, Some considerations for large water source heat pumps.
- Ryan, G. P., 1980, Heating facilities for the city schools—Ephrata, Washington.
- Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States.
- Washington State Energy Office, 1987?, District heating and cooling.
- EQUIPMENT AND MATERIALS [GENERAL WORKS]**
- see also* **GEOTHERMAL ENGINEERING [GENERAL WORKS]**
- Beer, Christine; Hederman, W. F., Jr.; Allman, D. W., 1984, Resource development—System design, construction and operation for geothermal direct use applications.
- Brown, H., 1998, New condensers for geothermal power.
- Lienau, P. J.; Culver, Gene; Rafferty, Kevin, 1990?, Direct use R&D assistance; Final report, January 1988–September 1990.
- Lienau, P. J.; Lunis, B. C., editors, 1989, Geothermal direct use engineering and design guidebook.
- Rafferty, Kevin, 2001, Well pumps and piping.
- Skokan, C. K.; Ibrahim, A., 1978, Research on the physical properties of geothermal reservoir rock; Quarterly report.

United Nations Symposium on the Development and Use of Geothermal Resources, (2nd, San Francisco, 1975), 1976, Proceedings.

United Nations Symposium on the Development and Utilization of Geothermal Resources, (1st, Pisa, 1970), 1971, Proceedings.

Varnado, S. G., editor, 1980, Geothermal drilling and completion technology development program annual progress report, October 1979–September 1980.

EQUIPMENT AND MATERIALS – DRILLING

Barker, L. M.; Green, S. J.; Maurer, W. C.; DeVries, L. K., 1976, Annual report on the project to design and experimentally test an improved geothermal drill bit.

DiPippo, Ronald, 2008, Geothermal power plants—Principles, applications, case studies and environmental impact; 2nd ed.

Energy Design Update, 1998, New drilling method may chop 25% off geothermal loop costs.

Hodges, R. E., 1988, Calibration and standardization of geophysical well-logging equipment for hydrologic applications.

Hodges, R. E.; Teasdale, W. E., 1991, Considerations related to drilling methods in planning and performing borehole-geophysical logging for ground-water studies.

Hunting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.

Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington.

Keys, W. S.; MacCary, L. M., 1971, Application of borehole geophysics to water resources investigations.

Maurer, W. C., 1978, Economic incentives for improved geothermal drilling motors.

Olson, H. J., 1994, Geothermal reservoir assessment based on slim hole drilling.

Paillet, F. L.; Morin, R. H.; Keys, W. S., 1986, Borehole geophysical applications in the characterization of geothermal energy resources.

EQUIPMENT AND MATERIALS – HEAT EXCHANGERS AND CONVECTORS

Batdorf, J. A.; Simmons, G. M., 1984, Optimization of design and control strategies for geothermal space heating systems.

Culver, Gene, 1989, Downhole heat exchangers.

Culver, Gene, 1990, DHE.

Culver, Gene, 1991, Vertical pump turbine oil environmental evaluation.

Culver, Gene; Reistad, G. M., 1978, Evaluation and design of downhole heat exchangers for direct application, Final report.

Doyle, P. T.; Silvester, L. F., 1986?, Analysis of field performance data on shell-and-tube heat exchangers in geothermal service.

Energy Design Update, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.

Morita, K.; Matsubayashi, O., 1989, Downhole coaxial heat exchanger for volcanic energy extraction.

Rafferty, Kevin, 1993, Direct use geothermal applications for brazed plate heat exchangers.

Suratt, W. B.; Lee, Chang-Ou, 1978, Study and testing of direct contact heat exchangers for geothermal brines; Phase II, August, 1976–June, 1977.

Swisher, Ron; Wright, G. A., 1990, Inhibition of corrosion at the air-water interface in geothermal downhole heat exchangers.

Urbanek, M. W., 1978, Development of direct contact heat exchangers for geothermal brines—Final report for eight (8) month period, October 4, 1977–June 30, 1978.

EQUIPMENT AND MATERIALS – HEAT PUMPS

Bloomquist, R. G., editor, 1981, Proceedings of the geothermal symposium—Low temperature utilization, heat pump applications, district heating, September 24, 1980.

Bloomquist, R. G., 1983, Water source heat pumps for district heating.

Bloomquist, R. G., 1999, Commercial geothermal heat pumps.

Bloomquist, R. G., 1999, Geothermal heat pumps—Four plus decades of experience.

Braud, H. J., 1992, Groundcoupled heat pump applications and case studies.

Braud, H. J.; Oliver, James; Klimkowski, Henry, 1988, Earthsource heat exchanger for heat pumps.

Building Operating Management, 1997, Mining Manhattan for cool air.

Ellis, P. F., II, 1985, Companion study guide to short course on geothermal corrosion and mitigation in low temperature geothermal heating systems.

Energy Design Update, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.

Energy Design Update, 2001, New heat pump will tap Btus in municipal water.

Fahys-Smith, Virginia; Wonstolen, K. A., 1981, Guidebook to water source heat pumps; A review of system technology, cost effectiveness, and state policy concerns.

Lannus, Arvo, 1985, Heat pump manual.

Lienau, P. J., 1980, Heat pumps and geothermal.

Lienau, P. J.; Culver, Gene, 1986?, Geothermal technology transfer for direct heat applications; Final report.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Lund, J. W., 1988, Geothermal heat pump utilization in the United States.

Lund, J. W., 1989, Geothermal heat pumps—Trends and comparisons.

Morck, O. C.; Pedersen, Thomas, editors, 1989, IEA district heating—Advanced district heating production technologies.

National Center for Appropriate Technology, 1988, Using the earth to heat and cool homes.

Pratsch, L. W., 1992, Geothermal heat pumps benefit the consumer, utility, and nation.

Rafferty, Kevin, 1990, A tale of two heat pumps.

Rafferty, Kevin; Knipe, Ed, 1988, Some considerations for large water-source heat pumps.

Refrigeration Service & Contracting, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.

Reistad, G. M.; Means, Paul, 1980, Heat pumps for geothermal applications—Availability and performance; Final report.

Riley Engineering, Inc., 1984, Geothermal water source, heat pump feasibility study, Washington State Penitentiary, Walla Walla, Washington.

- Sackville-West Cortner; Gerard, Thomas J., and Associates, Inc., 1984, Geothermal heat pump study for Parke Creek Group Home.
- U.S. Bonneville Power Administration, 1983, Proceedings; Heat pumps for heating and cooling of residential and light commercial buildings.
- Vitro Engineering Corporation, 1981, Geothermally assisted heat pump system feasibility study, Yakima Regional Post Office, Yakima, Washington.
- Warfel, M. R., 1995, Application of groundwater-source heat pumps for heating and cooling in Washington State [abstract].
- Watzlaf, G. R.; Ackman, T. E., 2007, Flooded underground coal mines—A significant source of inexpensive geothermal energy.
- Zimmerman, K. H.; Powell, R. H., Jr., editors, 1987, Heat pumps—Prospects in heat pump technology and marketing; Proceedings of the 1987 International Energy Agency heat pump conference.
- EQUIPMENT AND MATERIALS – TRANSMISSION AND DISTRIBUTION PIPELINES**
- Rafferty, Kevin, 1989, Geothermal district piping—A primer.
- Rafferty, Kevin, 1990, Piping materials for geothermal district heating systems (or Peter Piper picked a peck of pre-insulated piping).
- Rafferty, Kevin, 2001, Well pumps and piping.
- EXPLORATION AND EVALUATION [GENERAL WORKS]**
- Note:* Includes works on geothermal resource exploration, and assessment of development potential.
- Anderson, D. N.; Lund, J. W., editors, 1979, Direct utilization of geothermal energy—A technical handbook.
- Armstead, H. C. H., 1973, Geothermal energy—Review of research and development.
- Barbier, Enrico, editor, 1978, Proceedings of the ENEL-ERDA workshop on geothermal resource assessment and reservoir engineering, held at Larderello, Italy, 12–16 September 1977.
- Barbier, Enrico; Fanelli, Mario, 1973, Overview of geothermal exploration and development in the world.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, Low-enthalpy geothermal resources for power generation.
- Dickson, M. H.; Fanelli, Mario, editors, 1990, Small geothermal resources—A guide to development and utilization.
- DiPippo, Ronald, 2008, Geothermal power plants—Principles, applications, case studies and environmental impact; 2nd ed.
- Duffield, W. A.; Sass, J. H., 2003, Geothermal energy—Clean power from the Earth's heat.
- Edwards, L. M.; Chilingar, G. V.; Rieke, H. H., III; Fertl, W. H., editors, 1982, Handbook of geothermal energy.
- Fournier, R. O., chairperson, 1976, Second United Nations symposium on the development and use of geothermal resources; Proceedings.
- Geothermal Resources Council, 1977, Geothermal—State of the art.
- Geothermal Resources Council, 1978, Geothermal energy—A novelty becomes resource.
- Geothermal Resources Council, 1979, Expanding the geothermal frontier.
- Geothermal Resources Council, 1980, Basic geology for the exploration of geothermal resources, July 21–23, 1980, Klamath Falls, Oregon.
- Geothermal Resources Council, 1980, Geothermal—Energy for the eighties.
- Geothermal Resources Council, 1981, Geothermal energy—The international success story.
- Geothermal Resources Council, 1982, Geothermal energy—Turn on the power!
- Geothermal Resources Council, 1983, Geothermal resources—Energy on tap!
- Geothermal Resources Council, 1984, Geothermal energy—Bet on it!
- Geothermal Resources Council, 1985, 1985 international symposium on geothermal energy.
- Geothermal Resources Council, 1986, Geothermal energy—A milestone year.
- Geothermal Resources Council, 1987, Building for the future.
- Geothermal Resources Council, 1988, New horizons.
- Geothermal Resources Council, 1989, The Geysers—Three decades of achievement—A window on the future.
- Geothermal Resources Council, 1990, 1990 international symposium on geothermal energy.
- Geothermal Resources Council, 1991, Transactions.
- Geothermal Resources Council, 1992, 20th anniversary.
- Goldstein, N. E., 1984, Fracture detection and mapping for geothermal reservoir definition—An assessment of current technology, research, and research needs.
- Lienau, P. J.; Lunis, B. C., editors, 1989, Geothermal direct use engineering and design guidebook.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century
- Muffler, L. J. P., editor, 1979, Assessment of geothermal resources of the United States—1978.
- Nehring, N. L.; Bowen, P. A.; Truesdell, A. H., 1977, Techniques for the conversion to carbon dioxide of oxygen from dissolved sulfate in thermal waters.
- Nunz, G. J., 1993, The xenolithic geothermal (“hot dry rock”) energy resource of the United States—An update.
- Olson, H. J., 1994, Geothermal reservoir assessment based on slim hole drilling.
- Rybach, Ladislaus, 2007, Geothermal sustainability.
- Skokan, C. K.; Ibrahim, A., 1978, Research on the physical properties of geothermal reservoir rock; Quarterly report.
- Sorey, M. L.; Nathenson, Manuel; Smith, Christian, 1983, Methods for assessing low-temperature geothermal resources.
- United Nations Symposium on the Development and Use of Geothermal Resources, (2nd, San Francisco, 1975), 1976, Proceedings.
- United Nations Symposium on the Development and Utilization of Geothermal Resources, (1st, Pisa, 1970), 1971, Proceedings.
- U.S. Department of Energy, 1980, Resource assessment/commercialization planning meeting, Salt Lake City, Utah, 1980.
- U.S. Department of Energy, 1993, Geothermal energy—The environmentally responsible energy technology for the Nineties; Project summaries, Geothermal Program Review XI.
- Wohletz, Kenneth; Heiken, Grant, 1992, Volcanology and geothermal energy.
- EXPLORATION AND EVALUATION – CASCADE RANGE**
- Barnett, D. B., 1986, The 1985 geothermal gradient drilling project for the State of Washington.
- Barnett, D. B., 1989, Geothermal drilling by the State of Washington in 1988.

- Barnett, D. B.; Korosec, M. A., 1989, Geothermal research by the State of Washington [abstract].
- Barnett, D. B.; Korosec, M. A., 1989, Results of the 1988 geothermal gradient test drilling project for the State of Washington.
- Beeson, M. H., 1981, Hydrothermal alteration in the Cascades.
- Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range.
- Bogart, L. E.; Readdy, L. A., 1987, Importance of fault mapping to mineral/geothermal exploration—Relationship to fluid migration and ore formation—Northwest Washington.
- Britton, J. M.; Forster, C.; Fairbank, B. D., 1984, Report on Mt. Baker geothermal project, Whatcom County, Washington; 1984 exploration program (Phase IIb).
- Brook, C. A.; Mariner, R. H.; Mabey, D. R.; Swanson, J. R.; Guffanti, Marianne; Muffler, L. J. P., 1979, Hydrothermal convection systems with reservoir temperatures $\geq 90^\circ$ C.
- Ciancanelli, E. V., 1987, Geology and geothermal resource potential of Mt. Adams volcano, Washington.
- Clayton, G. A., 1980, Geology of the White Pass–Tumac Mountain area, Washington.
- Clayton, G. A., 1983, Pliocene and Pleistocene volcanic history of the White Pass–Tumac Plateau region, Washington.
- Daneš, Z. F., 1980, Gravity results, North Bonneville area, Washington.
- Daneš, Z. F., 1980, Regional gravity survey of the southern Cascades, Washington.
- Duffield, W. A., 1983, Geologic framework for geothermal energy in the Cascade Range.
- Duffield, W. A.; Guffanti, Marianne, 1981, The geothermal research program of the U.S. Geological Survey.
- Geothermal Resources Council, 1981, Geothermal potential of the Cascade mountain range—Exploration and development.
- Geothermal Resources Council, 1981, Symposium on the geothermal potential of the Cascade mountain range, 19–22 May 1981, Portland, Oregon; Program with abstracts.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.
- Grose, L. T., 1975, Geothermal energy—Geology, exploration, and developments; Part I.
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.
- Hammond, P. E.; Korosec, M. A., 1983, Progress report on the time-space-composition model for the Quaternary volcanics of the south Cascades, Washington.
- Hardee, H. C., 1985, Shallow magma targets in the western U.S.
- Hazard Monthly, 1980, Geothermal energy from Cascade volcanoes.
- Hildreth, Wes; Fierstein, Judy; Miller, M. S., 1983, Mineral and geothermal resource potential of the Mount Adams Wilderness and contiguous roadless areas, Skamania and Yakima Counties, Washington.
- Holmes, Jenny; Waugh, Kathleen, 1983, Targeting geothermal exploration sites in the Mount St. Helens area using soil mercury surveys.
- Hook, J. W., 1984, The geothermal potential of the Cascade Range.
- Hunting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Kent Associates, 1981, 1981 geothermal drilling project for State of Washington, Department of Natural Resources, Division of Geology and Earth Resources.
- Kent Associates, 1981, Geothermal exploration project. Phase I—Temperature gradient drilling for City of North Bonneville, Washington, June, 1981.
- Kent Associates, 1982, City of North Bonneville, Washington, geothermal exploration project, production test well, Phase II.
- Kent, R. C., 1982, Thermal water encountered in lava flows at North Bonneville, Washington [abstract].
- Korosec, M. A., 1982, Geothermal implications of the Mount St. Helens volcano [abstract].
- Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington.
- Korosec, M. A.; Barnett, D. B., 1989, Geothermal resource exploration target area defined by Division drilling projects.
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal assessment for the State of Washington [abstract].
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal assessment of Mount St. Helens, Washington, 1979.
- Korosec, M. A.; Schuster, J. E., 1983, Heatflow drilling in Washington during 1981.
- La Fleur, Joe, 1983, An exploration overview.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Skamania County, Washington.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Whatcom County, Washington.
- Muffler, L. J. P.; Guffanti, Marianne, 1989, Integration of earth-science data sets to estimate undiscovered geothermal resources of the Cascade Range.
- Phillips, W. M., 1983, Preliminary interpretation of regional gravity information from the southern Cascade mountains of Washington.
- Phillips, W. M., 1983, Progress report for the regional gravity survey of the Cascade mountain range, Washington.
- Pilkington, H. D., 1981, Geothermal exploration—Philosophy, methods, impacts, land positions and problems.
- Prestwich, S. M., 1985, Overview on Cascades drilling status.
- Priest, G. R., 1984, Rationale for scientific drilling in the Cascade volcanic arc [abstract].
- Priest, G. R., 1985, Continental scientific drilling—The Cascades as a target.
- Priest, G. R., 1986, A program for scientific drilling in the cascades, northern California, Oregon, and Washington.
- Priest, G. R., 1987, Investigation of the thermal regime and geologic history of the Cascade volcanic arc—First phase of a program for scientific drilling in the Cascade Range.
- Priest, G. R.; Blackwell, D. D., 1984, Understanding thermal energy and dynamic processes in subduction-related volcanic arcs.
- Schuster, J. E., 1972, Geothermal exploration in Washington.
- Schuster, J. E., 1981, A geothermal exploration philosophy for Mount St. Helens, (and other Cascade volcanoes?).
- Stanley, W. D., 1982, A regional magnetotelluric survey of the Cascade Range region, northwestern United States.

- U.S. Forest Service, 1978, Geothermal leasing and development, Gifford Pinchot National Forest; Draft environmental analysis report.
- U.S. Forest Service, 1982, Geothermal resources seminar, Mt. Baker–Snoqualmie National Forest, June 24, 1982.
- Vice, D. H., 1980, Geothermal potential in Washington.
- Vice, D. H., 2008, Geothermal exploration in the central Washington Cascades by Burlington Northern.
- Weaver, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism—An improved first-order geothermal assessment of the Cascade Range.
- EXPLORATION AND EVALUATION – COLUMBIA BASIN**
- Allen, Eliot, and Associates, Inc., [no date], Geothermal end-use assessment guide for communities; Draft.
- Biggane, J. H., 1983, Geophysical logs from water wells in the Yakima area, Washington.
- Derkey, P. D.; Johnson, B. R., 1995, Digital maps of low- to moderate-temperature geothermal springs and wells in the Pacific Northwest—A contribution to the Interior Columbia River Basin Ecosystem Management Project.
- Ertec Western, Inc., 1981, Revisions to, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Hoover, D. B.; Long, C. L.; Senterfit, R. M., 1978, Some results from audiomagneto-telluric investigations in geothermal areas.
- Moses, L. J., 1988, Mineral, hydrocarbon, and geothermal resource potential study plan.
- Murphy, P. J.; Johnpeer, G. D., 1981, An assessment of geothermal resource potential Pasco Basin and vicinity, Washington.
- Schuster, J. E., 1981, Geothermal energy potential of the Yakima valley area, Washington.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Geophysical logs of selected wells in eastern Washington.
- Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.
- EXPLORATION AND EVALUATION – PUBLIC LANDS**
- Farhar, B. C.; Heimiller, D. M., 2003, Opportunities for near-term geothermal development on public lands in the western United States.
- Geothermal Resources Council, 2008, Oregon/Washington geothermal lease sale.
- U.S. Bureau of Land Management; U.S. Forest Service, 2008, Draft programmatic environmental impact statement (PEIS) for geothermal leasing in the western United States.
- EXPLORATION AND EVALUATION – SOUTHWEST WASHINGTON**
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal investigations in the Camas area, Washington, 1979.
- McEuen, R. B.; Rigby, F. A.; Bowen, R. G., 1979, Geothermal resources potential of the Lacamas fault region, Camas, Washington, U.S.A.
- Rigby, F. A.; McEuen, R. B., 1980, Resistivity study of Camas, Washington—Final report.
- EXPLORATION AND EVALUATION – STATEWIDE**
- Barnett, D. B.; Korosec, M. A., 1986, Geothermal exploratory drilling by the State of Washington in 1985.
- Bloomquist, R. G., 1979, Geothermal energy in Washington.
- Bloomquist, R. G.; Basescu, Neil; Higbee, C. V.; Justus, Debra; Simpson, Stewart, 1980, Washington—A guide to geothermal energy development.
- Bloomquist, R. G.; Black, G. L.; Parker, D. S.; Sifford, A.; Simpson, S. J.; Street, L. V., 1985, Evaluation and ranking of geothermal resources for electrical generation or electrical offset in Idaho, Montana, Oregon, and Washington.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, Low-enthalpy geothermal resources for power generation.
- Crosby, J. W., III, 1971, Geothermal exploration.
- Crosson, R. S.; Mayers, I. R., 1973, Spectral variability in seismic noise measurements and implications for geothermal exploration [abstract].
- GeothermEx, Inc., 1987, Considerations for a program to confirm a 100-MW geothermal resource in the Pacific Northwest; Draft.
- Koenig, J. B., 1971, Geothermal exploration in the western United States.
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- Korosec, M. A., 1983, Geothermal resource targets—Progress and proposals.
- Korosec, M. A., 1984, Summary of geothermal exploration activity in the State of Washington from 1978 to 1983.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.
- Korosec, M. A.; Schuster, J. E.; and others, 1980, The 1979–1980 geothermal resource assessment program in Washington.
- Lund, J. W.; Allen, E. M.; Higbee, C. V.; Lienau, P. J.; Phillips, Wayne; Shreve, Jim, 1980, Assessment of geothermal potential within the BPA marketing area, Contract No. DE-AC79-79BP15325, July, 1980.
- Mariner, R. H.; Brook, C. A.; Reed, M. J.; Bliss, J. D.; Rapport, A. L.; Lieb, R. J., 1983, Low-temperature geothermal resources in the western United States.
- McEuen, R. B.; Birkhahn, P. C.; Pinckney, C. J., 1975, Predictive regionalization of geothermal potential [abstract].
- Nehring, N. L.; Roberts, E. D.; Kaczanowski, G., 1979, Geothermometry applied to hot springs in western United States [abstract].
- Oil and Gas Journal, 1986, Northwest geothermal hunt seen heating up.
- Pilkington, H. D., 1978, Exploration for geothermal energy in the Pacific Northwest [abstract].
- Reed, M. J., editor, 1983, Assessment of low-temperature geothermal resources of the United States—1982.
- Reed, M. J.; Mariner, R. H.; Brook, C. A.; Sorey, M. L., 1983, Selected data for low-temperature (less than 90° C) geothermal systems in the United States—Reference data for U.S. Geological Survey Circular 892.
- Russell, R. H., 1973, Geothermal energy potential of Washington State.
- Schuster, J. E., 1973, The search for hot rocks—Geothermal exploration, Northwest.
- Schuster, J. E., 1974, Geothermal energy potential of Washington.
- Schuster, J. E., 1976, Some developments in mineral exploration in Washington during 1975—Geothermal.

- Schuster, J. E., 1981, A proposal to Bonneville Power Administration for 1981–1983 Washington State geothermal resource assessment program.
- Schuster, J. E.; Korosec, M. A., 1980, The Washington State geothermal resources assessment program of the Department of Natural Resources, Division of Geology and Earth Resources.
- Schuster, J. E.; Korosec, M. A., 1981, Preliminary report on heat-flow drilling in Washington during 1981.
- Sorey, M. L.; Reed, M. J.; Mariner, R. H.; Nathenson, Manuel, 1982, Assessment of low-temperature geothermal resources in the United States.
- Stanley, W. D., 1984, Tectonic study of Cascade Range and Columbia plateau in Washington State based upon magnetotelluric soundings.
- Swanberg, C. A., 1987, Geothermal exploration activity and developments in the Northwest [abstract].
- Thermal Power Conference, 1972, Proceedings, October 5–6, 1972.
- U.S. Geological Survey, 1995, Aerial infrared surveys in the investigation of geothermal and volcanic heat sources.
- Vice, D. H., 1976, Black Diamond geothermal prospect, King Co., Washington.
- Youngquist, Walter, 1976, Geothermal energy—Northwest sleeping giant? [abstract].
- Fifes Peak Formation, see YAKIMA CO.**
- FRANKLIN CO.**
see also
COLUMBIA BASIN
PASCO BASIN
- Benson, L. V., 1978, Secondary minerals, oxidation potentials, pressure and temperature gradients in the Pasco Basin of Washington State.
- Konicek, D. L., 1974, Geophysical survey in south-central Washington.
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.
- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington.
- Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.
- Fumaroles, see VOLCANISM – FUMAROLES**
- GAMMA HOT SPRINGS (SNOHOMISH CO.)**
see also **THERMAL AND MINERAL WATERS**
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.
- Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.
- GARFIELD CO.**
see also **COLUMBIA BASIN**
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- GEOCHEMISTRY**
see also
HYDROLOGY – CHEMICAL ANALYSIS
SOILS
- Fournier, R. O.; Truesdell, A. H., 1974, Geochemical indicators of subsurface temperature—Part 2, Estimation of temperature and fraction of hot water mixed with cold water.
- Fournier, R. O.; White, D. E.; Truesdell, A. H., 1974, Geochemical indicators of subsurface temperature—Part 1, Basic assumptions.
- Frank, D. G., 1995, Surficial extent and conceptual model of hydrothermal system at Mount Rainier, Washington.
- Frank, D. G., 2000, Hydrothermal indicators in streams and springs at Mount Rainier [abstract].
- Geothermal Resources Council, 1980, Geochemical fundamentals for geothermal exploration and reservoir evaluation, presented November 5–7, 1980, Reno, Nevada.
- Panichi, C.; La Ruffa, G., 2001, Stable isotope geochemistry of fumaroles—An insight into volcanic surveillance.
- Vice, D. H., 1978, Tieton geothermal prospect.
- Walkey, Clifton, 1984, Geochemistry and structural setting of a geothermal spring located north of the Washington–Oregon border proximate to the Snake River.
- Wright, P. M., 1991, Geochemistry.
- Geologic hazards, see VOLCANISM – GEOLOGIC HAZARDS**
- GEOPHYSICS – AERIAL INFRARED SURVEYS**
- U.S. Geological Survey, 1995, Aerial infrared surveys in the investigation of geothermal and volcanic heat sources.
- Geophysics —Aeromagnetic surveys, see GEOPHYSICS – MAGNETIC SURVEYS**
- GEOPHYSICS – DRILLING – METHODOLOGY**
- Duffield, W. A.; Sass, J. H., 2003, Geothermal energy—Clean power from the Earth’s heat.
- Hodges, R. E., 1988, Calibration and standardization of geophysical well-logging equipment for hydrologic applications.
- Hodges, R. E.; Teasdale, W. E., 1991, Considerations related to drilling methods in planning and performing borehole-geophysical logging for ground-water studies.
- Hunting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Keys, W. S.; MacCary, L. M., 1971, Application of borehole geophysics to water resources investigations.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century.
- Olson, H. J., 1994, Geothermal reservoir assessment based on slim hole drilling.
- Paillet, F. L.; Morin, R. H.; Keys, W. S., 1986, Borehole geophysical applications in the characterization of geothermal energy resources.
- GEOPHYSICS – ELECTRICAL SURVEYS**
- Cantwell, Thomas; Nelson, P.; Webb, J.; Orange, A. S., 1965, Deep resistivity measurements in the Pacific Northwest.
- Cantwell, Thomas; Orange, A. S., 1965, Further deep resistivity measurements in the Pacific Northwest.
- Geothermal Resources Council, 1979, Geophysical exploration methods for geothermal resources—Technical Training Course no. 1, June 4–6, 1979, Pacific Grove, California.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.

- Goldstein, N. E., 1984, Fracture detection and mapping for geothermal reservoir definition—An assessment of current technology, research, and research needs.
- Lawrence Berkeley Laboratory, 1978, Proceedings, Workshop on modeling of electrical and electromagnetic methods, May 17–19, 1978.
- Rigby, F. A.; McEuen, R. B., 1980, Resistivity study of Camas, Washington—Final report.
- Stanley, W. D., 1983, Regional and local geoelectrical structures in the Cascades and their role in geothermal and volcano hazard assessment [abstract].
- Stanley, W. D., 1984, Tectonic study of Cascade Range and Columbia plateau in Washington State based upon magnetotelluric soundings.
- GEOPHYSICS – ELECTROMAGNETIC SURVEYS**
- Fraser, D. C., 1983, Airborne electromagnetic surveys of the Cascade Range, western United States; with a preface by D. B. Hoover.
- Geothermal Resources Council, 1979, Geophysical exploration methods for geothermal resources—Technical Training Course no. 1, June 4–6, 1979, Pacific Grove, California.
- Goldstein, N. E., 1984, Fracture detection and mapping for geothermal reservoir definition—An assessment of current technology, research, and research needs.
- Hoover, D. B.; Long, C. L.; Senterfit, R. M., 1978, Some results from audiomagneto-telluric investigations in geothermal areas.
- Lawrence Berkeley Laboratory, 1978, Proceedings, Workshop on modeling of electrical and electromagnetic methods, May 17–19, 1978.
- Vice, D. H., 1978, Data from the U.S. Geological Survey—Thermal IR imagery of the Rainier corridor in Washington, [Letter to C. W. Jordan].
- GEOPHYSICS – GRAVITY SURVEYS**
- Bonini, W. E., 1965, Gravity surveys in the northwestern United States.
- Bonini, W. E.; Hughes, D. W.; Daneš, Z. F., compilers, 1974, Complete Bouguer gravity anomaly map of Washington.
- Braile, L. W., 1970, The isostatic condition and crustal structure of Mount Saint Helens as determined from gravity data.
- Ciancanelli, E. V., 1987, Geology and geothermal resource potential of Mt. Adams volcano, Washington.
- Daneš, Z. F., 1964, Gravity survey of Mount Rainier, Washington [abstract].
- Daneš, Z. F., 1969, Gravity results in western Washington.
- Daneš, Z. F., 1979, Bouguer gravity map, Camas area, Washington and Oregon.
- Daneš, Z. F., 1980, Gravity results, North Bonneville area, Washington.
- Daneš, Z. F., 1980, Regional gravity survey of the southern Cascades, Washington.
- Daneš, Z. F., 1981, Preliminary Bouguer gravity map, southern Cascade mountains area, Washington.
- Daneš, Z. F.; Phillips, W. M., 1983, Complete Bouguer gravity anomaly map, Cascade mountains, Washington.
- Finn, C. A., 1985, Gravity and magnetic studies in the Cascade Range.
- Finn, C. A.; Williams, D. L., 1983, Gravity studies in the Cascade Range.
- Geothermal Resources Council, 1979, Geophysical exploration methods for geothermal resources—Technical Training Course no. 1, June 4–6, 1979, Pacific Grove, California.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.
- Goldstein, N. E., 1984, Fracture detection and mapping for geothermal reservoir definition—An assessment of current technology, research, and research needs.
- Hammond, P. E.; Pedersen, S. A.; Hopkins, K. D.; Aiken, Dan; Harle, D. S.; Daneš, Z. F.; Konicek, D. L.; Stricklin, C. R., 1976, Geology and gravimetry of the Quaternary basaltic volcanic field, southern Cascade Range, Washington.
- Heiken, Grant; Goff, F. E.; Cremer, Glenda, editors, 1982, Hot dry rock geothermal resource 1980.
- Konicek, D. L., 1974, Geophysical survey in south-central Washington.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.
- Korosec, M. A.; Schuster, J. E., 1980, Pre-eruption geothermal assessment activities at Mount St. Helens, Washington [abstract].
- Korosec, M. A.; Schuster, J. E.; and others, 1980, The 1979–1980 geothermal resource assessment program in Washington.
- Malone, S. D., 1979, Gravity changes accompanying increased heat emission at Mount Baker, Washington.
- Phillips, W. M., 1983, Preliminary interpretation of regional gravity information from the southern Cascade mountains of Washington.
- Phillips, W. M., 1983, Progress report for the regional gravity survey of the Cascade mountain range, Washington.
- Stricklin, C. R., 1975, Geophysical survey of the Lemei Rock–Steamboat Mountain area, Washington.
- GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS [STATEWIDE AND GENERAL WORKS]**
- Blackwell, D. D., 1967, Heat flow determinations and crustal structure in the northwestern United States [abstract].
- Blackwell, D. D., 1967, Terrestrial heat flow determinations in the northwestern United States.
- Blackwell, D. D., 1969, Heat-flow determinations in the northwestern United States.
- Blackwell, D. D., 1971, Heat flow.
- Blackwell, D. D., 1971, Low heat flow in western Washington and the mechanics of subduction [abstract].
- Blackwell, D. D., 1971, The thermal structure of the continental crust [with discussion].
- Blackwell, D. D., 1974, Terrestrial heat flow and its implications on the location of geothermal reservoirs in Washington.
- Blackwell, D. D., 1978, Heat flow and energy loss in the western United States.
- Blackwell, D. D., 1980, Heat flow and geothermal gradient measurements in Washington through 1979.
- Blackwell, D. D., 1980, Heat flow and geothermal gradient measurements in Washington to 1979, and temperature-depth data collected during 1979.
- Blackwell, D. D.; Bowen, R. G.; Schuster, J. E., 1973, Heat flow and Cenozoic tectonic history of the northwestern United States [abstract].
- Blackwell, D. D.; Steele, J. L.; Carter, L. S., 1991, Heat-flow patterns of the North American continent—A discussion of the Geothermal Map of North America.
- Blackwell, D. D.; Steele, J. L.; Kelley, S. A., 1985, Heat flow and geothermal studies in the State of Washington.
- Blackwell, D. D.; Steele, J. L.; Kelley, S. A., 1990, Heat flow in the State of Washington and thermal conditions in the Cascade Range.
- Frank, D. G., 1995, Surficial extent and conceptual model of hydrothermal system at Mount Rainier, Washington.

- Geothermal Resources Council, 1979, Geophysical exploration methods for geothermal resources—Technical Training Course no. 1, June 4–6, 1979, Pacific Grove, California.
- Guffanti, Marianne; Nathenson, Manuel, 1980, Preliminary map of temperature gradients in the conterminous United States.
- Heiken, Grant; Goff, F. E.; Cremer, Glenda, editors, 1982, Hot dry rock geothermal resource 1980.
- Hunting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington.
- Korosec, M. A.; Schuster, J. E.; and others, 1980, The 1979–1980 geothermal resource assessment program in Washington.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century.
- Morgan, Paul; Gosnold, W. D., 1989, Heat flow and thermal regimes in the continental United States.
- Nathenson, Manuel; Guffanti, Marianne, 1988, Geothermal gradients in the conterminous United States.
- Nathenson, Manuel; Guffanti, Marianne; Sass, J. H.; Munroe, R. J., 1983, Regional heat flow and temperature gradients.
- Rybach, Ladislaus, 2007, Geothermal sustainability: Geo-Heat Center Bulletin.
- Sass, J. H.; Lachenbruch, A. H.; Greene, G. W.; Moses, T. H., Jr.; Munroe, R. J., 1968, Progress report on heat-flow measurements in the western United States [abstract].
- Sass, J. H.; Lachenbruch, A. H.; Munroe, R. J.; Greene, G. W.; Moses, T. H., Jr., 1971, Heat flow in the western United States.
- Thomson, R. E.; Davis, E. E.; Burd, B. J., 1995, Hydrothermal venting and geothermal heating in Cascadia Basin.
- Van Orstrand, C. E., 1935, Normal geothermal gradient in the United States.
- Vice, D. H., 1978, Tieton geothermal prospect.
- GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS – CASCADE RANGE**
- Blackwell, D. D., 1981, Heat flow in the Cascade Range of Oregon and Washington, U.S.A. [abstract].
- Blackwell, D. D., 1982, Heat flow and geothermal potential of the Cascade Range [abstract].
- Blackwell, D. D.; Priest, G. R., 1996, Comment on “Rates and patterns of groundwater flow in the Cascade Range volcanic arc and the effect on subsurface temperatures” by S. E. Ingebritsen, D. R. Sherrod, and R. H. Mariner.
- Blackwell, D. D.; Steele, J. L., 1983, A summary of heat-flow studies in the Cascade Range.
- Blackwell, D. D.; Steele, J. L., 1985, Heat flow of the Cascade Range.
- Blackwell, D. D.; Steele, J. L.; Priest, G. R.; Black, G. L.; Schuster, J. E.; Korosec, M. A., 1982, Heat flow, gravity and magmatism in the Cascade Range of the Pacific Northwest [abstract].
- Blackwell, D. D.; Steele, J. L.; Schuster, J. E.; Korosec, M. A., 1980, The regional thermal setting of the Mt. St. Helens volcano [abstract].
- Dethier, D. P.; Frank, D. G.; Pevear, D. R., 1981, Preliminary chemical analysis of thermal waters at Mount St. Helens, Washington [abstract].
- Frank, D. G., 1985, Hydrothermal processes at Mount Rainier, Washington.
- Frank, D. G.; Krimmel, R. M., 1978, Mount Baker thermal activity continues—Visual observations, April 1976 to August 1977 [abstract].
- Frank, D. G.; Meier, M. F.; Swanson, D. A.; and others, 1977, Assessment of increased thermal activity at Mount Baker, Washington, March 1975–March 1976.
- Frank, D. G.; Post, A. S., 1976, Documentation of thermal changes by photographs of snow and ice features at Mount Baker, Washington [abstract].
- Frank, D. G.; Post, A. S., 1976, Hydrothermal activity at Mount Baker, Washington [abstract].
- Frank, D. G.; Post, A. S.; Friedman, J. D., 1975, Recurrent geothermally induced debris avalanches on Boulder Glacier, Mount Baker, Washington.
- Fournier, R. O., 1989, Maximum depths of earthquakes as an aid in evaluating convective and conductive heat fluxes from the Cascade province and adjacent regions.
- Friedman, J. D., 1972, Aerial thermal surveillance of volcanoes of the Cascade Range, Washington, Oregon, and northern California [abstract].
- Friedman, J. D., 1974, Thermal surveillance of Cascade Range volcanoes [abstract].
- Friedman, J. D., 1982, Thermal energy at Mount St. Helens [abstract].
- Friedman, J. D.; Frank, D. G., 1974, Thermal activity at Mount Baker volcano, Washington [abstract].
- Friedman, J. D.; Frank, D. G., 1977, Thermal surveillance of active volcanoes using the LANDSAT-1 data collection system; Part III, Heat discharge from Mount St. Helens, Washington.
- Friedman, J. D.; Frank, D. G., 1980, Infrared surveys, radiant flux, and total heat discharge at Mount Baker volcano, Washington, between 1970 and 1975.
- Friedman, J. D.; Frank, D. G., 1981, Aerial infrared mapping of thermal activity at Cascade Range volcanoes [abstract].
- Friedman, J. D.; Frank, D. G.; Kieffer, H. H.; Sawatzky, D. L., 1981, Thermal infrared surveys of the May 18 crater, subsequent lava domes, and associated volcanic deposits.
- Friedman, J. D.; Olhoeft, G. R.; Johnson, G. R.; Frank, D. G., 1984, Thermal energy yield of Mt. St. Helens [abstract].
- Friedman, J. D.; Realmuto, V. J.; Frank, D. G., 1991, Comparison of thermal features of Cordilleran volcanoes using airborne sensing systems, with special reference to Mount St. Helens, WA [abstract].
- Ginsberg, I. W., 1982, Thermal infrared imagery of the Cascade Range volcanics.
- Grose, L. T., 1975, Geothermal energy—Geology, exploration, and developments; Part 1.
- Hammond, P. E.; Korosec, M. A., 1983, Progress report on the time-space-composition model for the Quaternary volcanics of the south Cascades, Washington.
- Hawley, D. L.; Brewster, S. B., Jr., 1982, A thermal infrared survey of selected sites in the Cascade mountain range of California, Oregon and Washington, surveyed July 1981.
- Hildreth, Wes; Fierstein, Judy, 1985, Mount Adams—Eruptive history of an andesite-dacite stratovolcano at the focus of a fundamentally basaltic volcanic field.

- Hildreth, Wes; Fierstein, Judy, 1990, Geologic map and geothermal assessment of the Mount Adams volcanic field. Cascade Range of southern Washington.
- Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, M. E., 2003, Groundwater flow, heat transport, and water table position within volcanic edifices— Implications for volcanic processes in the Cascade Range.
- Kieffer, H. H.; Frank, D. G., 1980, Thermal infrared observations of Mt. St. Helens, March–May 1980 [abstract].
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D., 1980, Thermal infrared observations of Mt. St. Helens [abstract].
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D.; Sawatzky, D. L., 1984, Aerial infrared surveys at Mount St. Helens, Washington [abstract].
- Kieffer, H. H.; Friedman, J. D.; Frank, D. G., 1984, Thermal-infrared surveys, Cascades volcanoes [abstract].
- Korosec, M. A.; Schuster, J. E., 1980, Pre-eruption geothermal assessment activities at Mount St. Helens, Washington [abstract].
- Lange, I. M.; Avent, J. C., 1973, Ground-based thermal infrared surveys as an aid in predicting volcanic eruptions in the Cascade Range.
- Lange, I. M.; Avent, J. C., 1975, Ground-based thermal infrared surveys of Mount Rainier volcano, Washington.
- MacLeod, N. S.; Swanson, D. A., 1985, Volcanism in the Cascade Range.
- Malone, S. D., 1976, Deformation of Mount Baker volcano by hydrothermal heating [abstract].
- Malone, S. D., 1979, Gravity changes accompanying increased heat emission at Mount Baker, Washington.
- Malone, S. D.; Frank, D. G., 1975, Increased heat emission from Mount Baker, Washington.
- Moxham, R. M., 1970, Thermal features at volcanoes in the Cascade Range, as observed by aerial infrared surveys.
- Moxham, R. M.; Boynton, G. R.; Cote, C. E., 1973, Satellite telemetry of fumarole temperatures, Mount Rainier, Washington.
- Moxham, R. M.; Crandell, D. R.; Marlatt, W. E., 1965, Thermal features at Mount Rainier, Washington, as revealed by infrared surveys.
- Muffler, L. J. P., 1987, Geothermal studies of the U.S. Geological Survey in the Cascade Range.
- Nitsan, U., 1976, The effect of increased geothermal heat flux on the flow of Mt. Baker glaciers [abstract].
- Priest, G. R., 1985, Continental scientific drilling—The Cascades as a target.
- Priest, G. R., 1987, Geothermal resource potential of Cascade volcanic arc [abstract].
- Priest, G. R., 1987, Investigation of the thermal regime and geologic history of the Cascade volcanic arc—First phase of a program for scientific drilling in the Cascade Range.
- Priest, G. R.; Blackwell, D. D., 1984, Understanding thermal energy and dynamic processes in subduction-related volcanic arcs.
- Rosenfeld, C. L., 1976, Operational aerial surveillance of the Sherman Crater area, Mt. Baker, Washington [abstract].
- Ryan, M. P.; Banks, N. G.; Hoblitt, R. P.; Blevins, J. Y. K., 1990, The in-situ thermal transport properties and the thermal structure of Mount St. Helens eruptive units.
- St. Lawrence, William; Qamar, Anthony; Moore, Johnnie; Kendrick, George, 1980, A comparison of thermal observations of Mount St. Helens before and during the first week of the initial 1980 eruption.
- Schuster, J. E.; Blackwell, D. D.; Hammond, P. E.; Huntting, M. T., 1978, Heat flow studies in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Shafer, D. S., 1980, Evaluation and implications of the thermal activity of Mt. Baker, Washington from aerial photographs and infrared images.
- Smith, R. L.; Shaw, H. R., 1975, Igneous-related geothermal systems.
- Vice, D. H., 1976, Black Diamond geothermal prospect, King Co., Washington.
- Vice, D. H.; Gold, D. P., 1990, Some changes in the thermal and hydrologic regime in the area around Mt. St. Helens from 1977 to 1981 [abstract].
- GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS – COLUMBIA BASIN**
- Benson, L. V., 1978, Secondary minerals, oxidation potentials, pressure and temperature gradients in the Pasco Basin of Washington State.
- Daneš, Z. F., 1981, Geophysical studies on Columbia River basalt province.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Murphy, P. J.; Johnpeer, G. D., 1981, An assessment of geothermal resource potential Pasco Basin and vicinity, Washington.
- Smith, R. N., 1980, Heat flow of the western Snake River plain.
- Steele, J. L., 1975, A heat flow study in the Turtle Lake quadrangle, Washington.
- Stoffel, K. L.; Korosec, M. A., 1984, Low temperature geothermal resources of the Columbia Basin, eastern Washington.
- Walkey, Clifton, 1984, Geochemistry and structural setting of a geothermal spring located north of the Washington–Oregon border proximate to the Snake River.
- GEOPHYSICS – MAGNETIC SURVEYS**
- Booker, J. R., 1981, Geomagnetic sounding in the Cascade Range of Washington State as a geothermal exploration technique [abstract].
- Finn, C. A., 1985, Gravity and magnetic studies in the Cascade Range.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Geothermal Resources Council, 1979, Geophysical exploration methods for geothermal resources—Technical Training Course no. 1, June 4–6, 1979, Pacific Grove, California.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.
- Goldstein, N. E., 1984, Fracture detection and mapping for geothermal reservoir definition—An assessment of current technology, research, and research needs.
- Heiken, Grant; Goff, F. E.; Cremer, Glenda, editors, 1982, Hot dry rock geothermal resource 1980.
- McEuen, R. B.; Rigby, F. A.; Bowen, R. G., 1979, Geothermal resources potential of the Lacamas fault region, Camas, Washington, U.S.A.
- Stanley, W. D., 1982, A regional magnetotelluric survey of the Cascade Range region, northwestern United States.
- Stanley, W. D., 1983, Regional and local geoelectrical structures in the Cascades and their role in geothermal and volcano hazard assessment [abstract].

Stanley, W. D., 1984, Tectonic study of Cascade Range and Columbia plateau in Washington State based upon magnetotelluric soundings.

Swanson, D. A.; Wright, T. L.; Zietz, Isidore, 1979, Aeromagnetic map and geologic interpretations of the west-central Columbia plateau, Washington and adjacent Oregon.

U.S. Geological Survey, 1977, Aeromagnetic map of part of northern Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Indian Heaven area, Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Adams area, Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Margaret area, Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. St. Helens area, Washington.

Geophysics – Magnetotelluric surveys, see GEOPHYSICS – ELECTROMAGNETIC SURVEYS

GEOPHYSICS – SEISMIC SURVEYS

Crosson, R. S.; Mayers, I. R., 1972, Report on geothermal ground noise measurements in Washington State.

Crosson, R. S.; Mayers, I. R., 1973, Spectral variability in seismic noise measurements and implications for geothermal exploration [abstract].

Dehlinger, Peter; Chiburis, E. F.; Collver, M. M., 1965, Local travel-time curves and their geologic implications for the Pacific Northwest states.

Geothermal Resources Council, 1979, Geophysical exploration methods for geothermal resources—Technical Training Course no. 1, June 4–6, 1979, Pacific Grove, California.

Heiken, Grant; Goff, F. E.; Cremer, Glenda, editors, 1982, Hot dry rock geothermal resource 1980.

Iyer, H. M., 1985, Characteristics of Cascades magmatic systems determined from teleseismic-residual studies.

Johnson, S. H.; Couch, R. W., 1970, Crustal structure in the north Cascade mountains of Washington and British Columbia from seismic refraction measurements.

Geothermal energy – Laws and regulations, see LAW AND LEGISLATION – LEASES AND PERMITS

GEOTHERMAL ENGINEERING [GENERAL WORKS]

see also

AGRIBUSINESS

AQUACULTURE

ELECTRIC POWER

EQUIPMENT AND MATERIALS

HEATING

INDUSTRIAL AND PROCESS

APPLICATIONS

Allen, Eliot, and Associates, Inc., [no date], Geothermal end-use assessment guide for communities; Draft.

Allen, Eliot, and Associates, Inc., 1981, Inventory of Washington industries with geothermal direct-use potential.

Barbier, Enrico, editor, 1978, Proceedings of the ENEL-ERDA workshop on geothermal resource assessment and reservoir engineering, held at Larderello, Italy, 12–16 September 1977.

Bloomquist, R. G.; Basescu, Neil; Higbee, C. V.; Justus, Debra; Simpson, Stewart, 1980, Washington—A guide to geothermal energy development.

Brown and Caldwell, 1981, Geothermal direct use feasibility study for City of Othello, Washington.

Building Operating Management, 1997, Mining Manhattan for cool air.

Culver, Gene, 1989, Direct use injection wells.

Culver, Gene, 1991, Direct use reservoir models—How we think they work.

Davidson, Marie, 1976, Geothermal energy in the Pacific Northwest.

Dickson, M. H.; Fanelli, Mario, editors, Geothermal energy—Utilization and technology.

Duffield, W. A.; Sass, J. H., 2003, Geothermal energy—Clean power from the Earth's heat.

EG&G Idaho, Inc., 1980, Rules of thumb for geothermal direct applications—Resource rules, industrial uses, space heating, economics, conversion factors.

Farhar, B. C.; Heimiller, D. M., 2003, Opportunities for near-term geothermal development on public lands in the western United States.

Geo-Heat Center, 2004, Geothermal direct-use case studies II.

Geothermal Resources Council, 1977, Geothermal—State of the art.

Geothermal Resources Council, 1978, Direct utilization of geothermal energy—A symposium.

Geothermal Resources Council, 1978, Geothermal energy—A novelty becomes resource.

Geothermal Resources Council, 1979, Expanding the geothermal frontier.

Geothermal Resources Council, 1980, Geothermal—Energy for the eighties.

Geothermal Resources Council, 1981, Geothermal energy—The international success story.

Geothermal Resources Council, 1982, Geothermal energy—Turn on the power!.

Geothermal Resources Council, 1983, Geothermal resources—Energy on tap!

Geothermal Resources Council, 1984, Geothermal energy—Bet on it!

Geothermal Resources Council, 1985, 1985 international symposium on geothermal energy.

Geothermal Resources Council, 1986, Geothermal energy—A milestone year.

Geothermal Resources Council, 1987, Building for the future.

Geothermal Resources Council, 1988, New horizons.

Geothermal Resources Council, 1989, The Geysers—Three decades of achievement—A window on the future.

Geothermal Resources Council, 1990, 1990 international symposium on geothermal energy.

Geothermal Resources Council, 1991, Transactions.

Geothermal Resources Council, 1992, 20th anniversary.

Grant, M. A.; Donaldson, I. G.; Bixley, P. F., 1982, Geothermal reservoir engineering.

Lienau, P. J.; Lund, J. W., 1974, Multipurpose use of geothermal energy; Proceedings of the international conference on geothermal energy for industrial, agricultural and commercial-residential uses.

Lippmann, M. J., editor, 1988, Proceedings of the technical review on advances in geothermal reservoir technology—Research in progress.

Lund, J. W., 1998, Geothermal direct use engineering and design guidebook; 3rd ed.

Lund, J. W.; Boyd, Tonya, 1999, Small geothermal power project examples.

Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.

Lyons, Kim, 2003, Washington—A regulatory guide to geothermal direct use development.

- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century.
- Morck, O. C.; Pedersen, Thomas, editors, 1989, IEA district heating—Advanced district heating production technologies.
- Piatti, Alberto; Piemonte, Carlo; Szego, Edoardo, 1992, Planning of geothermal district heating systems.
- Rafferty, Kevin, 2001, Well pumps and piping.
- Rafferty, Kevin, 2004, Direct-use temperature requirement—A few rules of thumb.
- Refrigeration Service & Contracting, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.
- Scherer, C. R.; Golabi, Kamal, 1978, Geothermal reservoir management.
- U.S. Department of Energy, 1993, Geothermal energy—The environmentally responsible energy technology for the Nineties; Project summaries, Geothermal Program Review XI.
- U.S. Department of Energy, 1995, Geothermal progress monitor—Report no. 17.
- Vimmerstedt, Laura, 1999, Opportunities for small geothermal power projects.
- Wahl, E. F., 1977, Geothermal energy utilization.
- Warfel, M. R., 1995, Application of groundwater-source heat pumps for heating and cooling in Washington State [abstract]. *In* Washington Department of Ecology, Abstracts from the 1st symposium on the hydrogeology of Washington State.
- Wohletz, Kenneth; Heiken, Grant, 1992, Volcanology and geothermal energy.
- GEOTHERMAL ENGINEERING – COMPUTER PROGRAMS**
- Allen, Eliot, and Associates, Inc., 1983, HEATPLAN user manual—HEATPLAN version 1.0.
- Bloomster, C. H., 1975, Economic analysis of geothermal energy costs.
- Davis, A. E.; Enderlin, W. I.; Blahnik, D. E.; Jacobson, J. J.; Weakley, S. A., 1980, Assessment of geothermal energy as a power source for U.S. aluminum reduction plants.
- Rafferty, Kevin, 1992, HEATOOLS.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.
- Simpson, S. J.; Bloomquist, R. G., editors, 1987, District heating development guide HEATPLAN 3.0 user manual; A computer approach to district heating favorability analysis, volume 2.
- Washington State Energy Office, 1987?, District heating and cooling.
- GEOTHERMAL ENGINEERING – ECONOMIC ASPECTS**
- Allen, Eliot, and Associates, Inc., 1981, Institutional & financial guide to geothermal district heating.
- Allen, Eliot, and Associates, Inc., 1982, Guide to financing small-scale geothermal energy projects.
- Blair, P. D.; Cassel, T. A. V.; Edelstein, R. H., 1982, Geothermal energy—Investment decisions and commercial development.
- Bloomquist, R. G., 1986, A review and analysis of the adequacy of the U.S. legal, institutional and financial framework for geothermal development.
- Bloomquist, R. G., 2005, Geothermal energy—State policy options.
- Bloomquist, R. G.; Wonstolen, K. A., editors, 1980, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing.
- DiPippo, Ronald, 1999, Small geothermal power plants—Design, performance and economics.
- Energy Design Update, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.
- Energy Design Update, 1998, New drilling method may chop 25% off geothermal loop costs.
- Fournier, R. O., chairperson, 1976, Second United Nations symposium on the development and use of geothermal resources; Proceedings.
- Gagliano, Troy, 2003, Geothermal energy—A primer on state policies and technology.
- Geothermal Resources Council, 1975, Financial aspects of geothermal resource development—Special Short Course no. 3, 23–24 October 1975, San Francisco, California.
- Higbee, C. V., 1978, Direct use geothermal energy—What price?
- Higbee, C. V., 1982, Life-cycle cost analysis of direct-use geothermal systems—An introduction.
- Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington.
- Jhaveri, A. G.; Miller, J. A., 1981, Geothermal resources in the Yakima area—Potential low temperature utilization.
- JM Energy Consultants, Inc., 1978, Financing geothermal resource development in the Pacific region states.
- Long, Gregg; McClain, David, 1983, Economic constraints to the development of geothermal power in the Cascades.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century
- U.S. Department of Energy, 1992, Geothermal energy and the utility market—The opportunities and challenges for expanding geothermal energy in a competitive supply market; Proceedings, Geothermal program review X, March 24–26, 1992, San Francisco, CA.
- Watzlaf, G. R.; Ackman, T. E., 2007, Flooded underground coal mine—A significant source of inexpensive geothermal energy.
- GEOTHERMAL ENGINEERING – ENVIRONMENTAL ASPECTS**
- Allen, Eliot, and Associates, Inc., 1985, Environmental assessment of geothermal district heating and cooling. Phase 1 in North Bonneville, Washington.
- Anderson, D. N.; Bowen, R. G., 1974, Proceedings—Workshop on environmental aspects of geothermal resources development.
- Culver, Gene, 1991, Vertical pump turbine oil environmental evaluation.
- DiPippo, Ronald, 2008, Geothermal power plants—Principles, applications, case studies and environmental impact; 2nd ed.
- Hartley, R. P., 1978, Pollution control guidance for geothermal energy development.
- Hinman, G. W.; Robertson, Jeremy, 1979, Comparison of geothermal energy with coal, oil, and natural gas for selected uses; Final report.
- Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century.

GEOTHERMAL ENGINEERING – HANDBOOKS, MANUALS, ETC.

- Allen, Eliot, and Associates, Inc., [no date], Geothermal end-use assessment guide for communities; Draft.
- Anderson, D. N.; Lund, J. W., editors, 1979, Direct utilization of geothermal energy—A layman's guide.
- Anderson, D. N.; Lund, J. W., editors, 1979, Direct utilization of geothermal energy—A technical handbook.
- Beer, Christine; Hederman, W. F., Jr.; Allman, D. W., 1984, Resource development—System design, construction and operation for geothermal direct use applications.
- Dickson, M. H.; Fanelli, Mario, editors, 1990, Small geothermal resources—A guide to development and utilization.
- EG&G Idaho, Inc.; Lawrence Berkeley Laboratory, 1982, Low-to-moderate temperature hydrothermal reservoir engineering handbook.
- Leffel, C. S., Jr.; Eisenberg, R. A., 1977, Geothermal handbook.
- Lienau, P. J.; Lunis, B. C., editors, 1989, Geothermal direct use engineering and design guidebook.
- Lund, J. W., 1998, Geothermal direct use engineering and design guidebook; 3rd ed.
- Geothermal ice caves, see VOLCANISM – GEOTHERMAL ICE CAVES**
- Geothermal power plants, see ELECTRIC POWER – GEOTHERMAL POWER PLANTS**
- ## GEOTHERMAL RESOURCES [GENERAL WORKS AND SUMMARIES]
- Note:* For more detailed works, *see* **EXPLORATION AND EVALUATION**
- Anderson, D. N.; Axtell, L. H., compilers and editors, 1972, Compendium of first day papers presented at the first conference of the Geothermal Resources Council, El Centro, California, February, 1972.
- Armstead, H. C. H., 1978, Geothermal energy—Its past, present and future contributions to the energy needs of man.
- Bloomquist, R. G., 2007, Geothermal in a world of energy.
- Bloomquist, R. G.; O'Brien, R. G.; Spurr, Mark, 1999, Geothermal district energy at collocated sites.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, Low-enthalpy geothermal resources for power generation.
- Chen, Allan, 1983, Geothermal powerhouse.
- Cremer, G. M., 1981, Pacific Northwest region.
- Davidson, Marie, 1976, Geothermal energy in the Pacific Northwest.
- Dickson, M. H.; Fanelli, Mario, editors, Geothermal energy—Utilization and technology.
- Duffield, W. A.; Sass, J. H., 2003, Geothermal energy—Clean power from the Earth's heat.
- Edwards, L. M.; Chilingar, G. V.; Rieke, H. H., III; Fertl, W. H., editors, 1982, Handbook of geothermal energy.
- Eichelberger, L., 1980, Cascade Range, Washington and Oregon—General case.
- Farhar, B. C.; Heimiller, D. M., 2003, Opportunities for near-term geothermal development on public lands in the western United States.
- Geothermal Resources Council, 2008, Oregon/Washington geothermal lease sale.
- Green, B. D.; Nix, R. G., 2006, Geothermal—The energy under our feet—Geothermal resource estimates for the United States.
- King County, 1980, Report of the King County Energy Planning Project Dec. 1980; volume 2—Geothermal energy section.
- Korosec, M. A., 1983, Geothermal resource targets—Progress and proposals.
- Korosec, M. A., 1984, Summary of geothermal exploration activity in the State of Washington from 1978 to 1983.
- Kruger, Paul; Otte, Carol, editors, 1973, Geothermal energy—Resources, production, stimulation.
- Laney, Patrick; Brizzee, Julie, 2003, Washington geothermal resources.
- Livingston, V. E., Jr., 1972, Geothermal energy in Washington.
- Livingston, V. E., Jr., 1974, Geothermal energy [abstract].
- Lund, J. W., 1998, Geothermal direct use engineering and design guidebook; 3rd ed.
- Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources.
- McFarland, C. R., 1980, Metallic and nonmetallic mineral exploration wrap-up, 1979.
- Resource Planning Associates, Inc., 1977, Western energy resources and the environment—Geothermal energy.
- Schuster, J. E., 1973, Geothermal energy in Washington.
- Schuster, J. E., 1975, Geothermal activities in Washington.
- Schuster, J. E.; Bloomquist, R. G., 1994, Low-temperature geothermal resources of Washington.
- Schuster, J. E.; Bloomquist, R. G., 1995, Low-temperature geothermal resources of Washington [abstract].
- Schuster, J. E.; Korosec, M. A., 1980, Geothermal resource assessment in Washington.
- Sidle, W. C., 1981, A geologic overview of the Cascade Range.
- Thorsen, G. W., 1971, Prospects for geothermal energy in Washington.
- U.S. Forest Service, 1988, Earth's heat—Geothermal energy on the national forests of the Pacific Northwest.
- U.S. Geological Survey, 1995, Aerial infrared surveys in the investigation of geothermal and volcanic heat sources.
- Vice, D. H., 1980, The Pigeon Springs geothermal prospect, Cowlitz Co., Washington.
- Vice, D. H., 1980, The Summit Creek geothermal prospect.
- Vonheeder, E. R., 1978, Nonmetallic and industrial minerals and energy exploration.
- Wahl, E. F., 1977, Geothermal energy utilization.
- Washington Department of Natural Resources, 1971, Papers presented at the First Northwest Conference on geothermal power.
- Watzlaf, G. R.; Ackman, T. E., 2007, Flooded underground coal mines—A significant source of inexpensive geothermal energy.
- Welch, J. R., 1977, The mineral industry of Washington.
- White, D. E.; Williams, D. L., editors, 1985, Assessment of geothermal resources of the United States—1975.
- Youngquist, Walter, 1980, Pacific Northwest geothermal—Review and outlook.
- Youngquist, Walter, 1981, Geothermal potential of the Cascades.
- ## GEOTHERMAL RESOURCES – COMPUTER PROGRAMS
- Blackett, R. E., 1986, Assessment of geothermal related data bases.
- Bliss, J. D., 1983, Washington State—Basic data for thermal springs and wells as recorded in GEOTHERM.
- Korosec, M. A.; Phillips, W. M., 1982, WELLTHERM—Temperature, depth, and geothermal gradient data for wells in Washington State.

**GEOTHERMAL RESOURCES –
ECONOMIC ASPECTS**

- Blaydes & Associates, 2007, California geothermal energy collaborative—Expanding California's confirmed geothermal resources bases—Geothermal permitting guide.
- Bloomquist, R. G., 1995, Drafting a geothermal project for funding.
- Green, B. D.; Nix, R. G., 2006, Geothermal—The energy under our feet—Geothermal resource estimates for the United States.
- Reif, Thomas, 2008, Profitability analysis and risk management of geothermal projects.

**GEOTHERMAL RESOURCES –
GUIDEBOOKS**

- Battocletti, Liz, 2003, Geothermal small business workbook.
- Hammond, P. E., compiler, 1974, Brief outline to volcanic stratigraphy and guide to geology of southern Cascade Range, Washington and northern Cascade Range, Oregon—Guidebook for geothermal field trip, June 24–29, 1974.

**GEOTHERMAL RESOURCES – ORAL
HISTORY, MYTHS, AND LEGENDS**

- Cataldi, Raffaele; Hodgson, S. F.; Lund, J. W., editors, 1999, Stories from a heated earth—Our geothermal heritage.
- Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources

**GEOTHERMAL RESOURCES –
SUSTAINABILITY**

- Rybach, Ladislaus, 2007, Geothermal sustainability

**GIFFORD PINCHOT NATIONAL
FOREST**

- Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.
- U.S. Forest Service, 1978, Geothermal leasing and development, Gifford Pinchot National Forest; Draft environmental analysis report.
- U.S. Forest Service, 1978, Geothermal leasing and development on part of the Gifford Pinchot National Forest; Draft environmental statement.
- U.S. Forest Service, 1978, Gifford Pinchot National Forest—Final environmental impact statement, Upper Cispus Planning Unit, land management plan.
- U.S. Forest Service, 1979, Geothermal leasing and development on part of the Gifford Pinchot National Forest, Skamania County, Washington.

GLACIER PEAK AREA

- Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.
- Crowder, D. F.; Tabor, R. W.; Ford, A. B., 1966, Geologic map of the Glacier Peak quadrangle, Snohomish and Chelan Counties, Washington.
- Ford, A. B., 1957, Petrology of the Sulphur Mountain area, Glacier Peak quadrangle, Washington.
- Ford, A. B., 1959, Geology and petrology of the Glacier Peak quadrangle, northern Cascades, Washington.
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.
- Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.
- Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.
- Waldron, R. L., 1986, Hydrothermal alteration of the Gamma Ridge rocks, on Glacier Peak, and their relation to hot spring activity.

**Goat Rocks area, see WHITE PASS
AREA****GOLDENDALE, WASH.
(Klickitat Co.)**

- Luzier, J. E., 1969, Ground-water occurrence in the Goldendale area, Klickitat County, Washington.

Goose Egg Mountain, see YAKIMA CO.**GRANDVIEW, WASH. (YAKIMA CO.)**

- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Grandview, Washington—A study of district heating favorabilities.
- Creager, Kurt, 1984, Geothermal development and resource management in the Yakima Valley; A guidebook for local governments.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.

GRANT CO.*see also* **COLUMBIA BASIN**

- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Moses Lake, Washington—A study of district heating favorabilities.
- Bloomquist, R. G., 1983, Ephrata attracts national attention—Governor dedicates innovative geothermal system.
- Bloomquist, R. G., 1983, Water source heat pumps for district heating.
- Fornes, A. O., 1981, Direct-use geothermal district heating project in the U.S.—A summary.
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- Lienau, P. J., 1986, Status of direct heat projects in western states.
- Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.
- Oregon Institute of Technology Geo-Heat Center, 1979, Heating facilities for the city schools, Ephrata, Washington, November 1979.
- Rafferty, Kevin; Knipe, Ed, 1985, Some considerations for large water source heat pumps.
- Ryan, G. P., 1980, Heating facilities for the city schools—Ephrata, Washington.
- Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.
- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- Washington State Energy Office, 1987?, District heating and cooling.
- Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.
- Gravity surveys, see GEOPHYSICS – GRAVITY SURVEYS**
- Greenhouses, see AGRIBUSINESS**

GREEN RIVER SODA SPRINGS (COWLITZ CO.)

see also **THERMAL AND MINERAL
WATERS**

Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington.

Ground water, *see* **HYDROLOGY THERMAL AND MINERAL WATERS WATER WELLS WELL LOGS**

HARRAH, WASH. (YAKIMA CO.)

Rafferty, Kevin, 1984, Feasibility study for Harrah Elementary School, Harrah, Washington, June 1984.

Heat exchangers, *see* **EQUIPMENT AND MATERIALS – HEAT EXCHANGERS AND CONVECTORS**

Heat flow, *see* **GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS**

Heat pumps, *see* **EQUIPMENT AND MATERIALS – HEAT PUMPS**

HEATING

Note: Includes works on district and space heating of buildings.

see also

EQUIPMENT AND MATERIALS GEOHERMAL ENGINEERING

For other direct heating applications,
see also

AGRICULTURE AQUACULTURE INDUSTRIAL AND PROCESS APPLICATIONS

Allen, Eliot, and Associates, Inc., 1981, Guide to a community heat plan—A geothermal energy application.

Allen, Eliot, and Associates, Inc., 1981, Institutional & financial guide to geothermal district heating.

Batdorf, J. A.; Simmons, G. M., 1984, Optimization of design and control strategies for geothermal space heating systems.

Bloomquist, R. G., editor, 1981, Proceedings of the geothermal symposium—Low temperature utilization, heat pump applications, district heating, September 24, 1980.

Bloomquist, R. G., 1999, Commercial geothermal heat pumps.

Bloomquist, R. G.; Nimmons, J. T.; Rafferty, Kevin, 1988, District heating development guide—Legal, institutional, and marketing issues, v. 1.

Bodvarsson, Gunnar; Reistad, G. M., 1979, Performance and feasibility of forced geoheat recovery for low temperature applications.

Creager, Kurt, 1984, Geothermal development and resource management in the Yakima Valley; A guidebook for local governments.

Culver, Gene, 1976, Optimization of geothermal home heating systems.

Dickson, M. H.; Fanelli, Mario, editors, 1990, Small geothermal resources—A guide to development and utilization.

Ellis, P. F., II, 1985, Companion study guide to short course on geothermal corrosion and mitigation in low temperature geothermal heating systems.

Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VII, Geothermal space heating; Draft.

Lienau, P. J.; Culver, Gene, 1986?, Geothermal technology transfer for direct heat applications; Final report.

Lienau, P. J.; Culver, Gene; Rafferty, Kevin, 1990?, Direct use R&D assistance; Final report, January 1988–September 1990.

Lienau, P. J.; Lund, J. W., 1974, Multipurpose use of geothermal energy; Proceedings of the international conference on geothermal energy for industrial, agricultural and commercial-residential uses.

Lund, J. W., 1978, Geothermal energy utilization for the homeowner.

Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources.

Lunis, B. C., 1985, Geothermal district heating—Basics to success.

Morck, O. C.; Pedersen, Thomas, editors, 1989, IEA district heating—Advanced district heating production technologies.

National Center for Appropriate Technology, 1988, Using the earth to heat and cool homes.

National Research Council, 1985, District heating and cooling in the United States—Prospects and issues.

Piatti, Alberto; Piemonte, Carlo; Szego, Edoardo, 1992, Planning of geothermal district heating systems.

Rafferty, Kevin, 1990, A tale of two heat pumps.

Swisher, Ron; Wright, G. A., 1990, Inhibition of corrosion at the air–water interface in geothermal downhole heat exchangers.

United Nations Symposium on the Development and Use of Geothermal Resources, (2nd, San Francisco, 1975), 1976, Proceedings.

United Nations Symposium on the Development and Utilization of Geothermal Resources (1st, Pisa, 1970), 1971, Proceedings.

Warfel, M. R., 1995, Application of groundwater-source heat pumps for heating and cooling in Washington State [abstract].

Washington State Energy Office, 1989, Designing new buildings for district heating.

HEATING – CASE HISTORIES

Allen, E. M., 1982, The effects of urban land-use policies on geothermal district heating feasibilities in U.S. cities.

Allen, Eliot, and Associates, Inc., [no date], Geothermal end-use assessment guide for communities; Draft.

Allen, Eliot, and Associates, Inc., 1985, Environmental assessment of geothermal district heating and cooling, Phase 1 in North Bonneville, Washington.

Battocletti, Liz, 2003, Geothermal small business workbook.

Bloomquist, R. G., 1983, Ephrata attracts national attention—Governor dedicates innovative geothermal system.

Bloomquist, R. G., 1983, Water source heat pumps for district heating.

Bundy, Don, 1981, North Bonneville sits on hot-water bonanza.

Energy Design Update, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.

Fornes, A. O., 1981, Direct-use geothermal district heating project in the U.S.—A summary.

Geo-Heat Center, 2004, Geothermal direct-use case studies II.

Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.

Lienau, P. J., 1986, Status of direct heat projects in western states

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.

- Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, 1987, Geothermal pipeline—Washington—Clark College uses 50° F for district heating.
- Refrigeration Service & Contracting, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.
- Ryan, G. P., 1980, Heating facilities for the city schools—Ephrata, Washington.
- Washington State Energy Office, 1987?, District heating and cooling.
- Washington State Energy Office, 1989, Building conversion to district heating.
- HEATING – ECONOMIC ASPECTS**
- Allen, Eliot, and Associates, Inc., 1982, Institutional and financial guide to geothermal district heating.
- Bloomquist, R. G.; Nimmons, J. T.; Rafferty, Kevin, 1988, District heating development guide—Legal, institutional, and marketing issues, v. 1.
- Chiasson, Andrew, 2005, Aquaculture and geothermal heat pump systems.
- Fisher, Kevin, 1985, Marketing geothermal district heating.
- Fjarvarmebyran i Vasteras AB, 1986, IEA district heating—Cost analysis of district heating networks.
- Rafferty, Kevin, 2003, The economics of connecting small buildings to geothermal district heating systems.
- Rafferty, Kevin, 2003, Industrial processes and the potential for geothermal applications.
- HEATING – FEASIBILITY STUDIES**
- Allen, Eliot, and Associates, Inc., 1981, community heat plan addendum—Yakima, Washington heat atlas demonstration.
- Allen, Eliot, and Associates, Inc., 1983, HEATPLAN user manual—HEATPLAN version 1.0.
- Allen, Eliot, and Associates, Inc., 1984, Heat plan for North Bonneville, Washington.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Cheney, Washington—A study of district heating favorabilities.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Grandview, Washington—A study of district heating favorabilities.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Moses Lake, Washington—A study of district heating favorabilities.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Richland, Washington—A study of district heating favorabilities.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Sunnyside, Washington—A study of district heating favorabilities.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for West Richland, Washington—A study of district heating favorabilities.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Yakima, Washington—A study of district heating favorabilities.
- Allen, Eliot, and Associates, Inc.; Engineering Resources, Ltd., 1984, Feasibility study of geothermal district heating and cooling in Sunnyside, Washington.
- Chiasson, Andrew, 2005, Aquaculture and geothermal heat pump systems.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.
- Ingebritsen, S. E.; Mariner, R. H.; Evans, W. C.; Hurwitz, S.; Schmidt, M. E., 2003, Hydrothermal discharge from volcanic areas in the western United States [abstract].
- Oregon Institute of Technology Geo-Heat Center, 1979, Heating facilities for the city schools, Ephrata, Washington, November 1979.
- Oregon Institute of Technology Geo-Heat Center, 1981, Sol Duc Hot Springs feasibility study (Washington), December, 1981.
- Oregon Institute of Technology Geo-Heat Center, 1982, Feasibility study for Adams County Fire Station, Othello, Washington.
- Oregon Institute of Technology Geo-Heat Center, 1982, Geothermal heating facilities for Carson Elementary School and Wind River Middle School.
- Oregon Institute of Technology Geo-Heat Utilization Center, 1980, A. C. Davis High School, Yakima, Washington.
- Rafferty, Kevin, 1984, Feasibility study for Harrah Elementary School, Harrah, Washington, June 1984.
- Reif, Thomas, 2008, Profitability analysis and risk management of geothermal projects.
- Riley Engineering, Inc., 1984, Geothermal water source, heat pump feasibility study, Washington State Penitentiary, Walla Walla, Washington.
- Sackville-West Cortner; Gerard, Thomas J., and Associates, Inc., 1984, Geothermal heat pump study for Parke Creek Group Home.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.
- Simpson, S. J.; Bloomquist, R. G., editors, 1987, District heating development guide HEATPLAN 3.0 user manual; A computer approach to district heating favorability analysis, volume 2.
- Vitro Engineering Corporation, 1981, Geothermally assisted heat pump system feasibility study, Yakima Regional Post Office, Yakima, Washington.
- HEATING – HANDBOOKS, MANUALS, ETC.**
- Allen, Eliot, and Associates, Inc., 1981, Institutional & financial guide to geothermal district heating.
- Allen, Eliot, and Associates, Inc., 1982, Guide to a geothermal heat plan—A geothermal energy application.
- Lienau, P. J., 1981, Geothermal district heating analysis guide.
- Rafferty, Kevin, 2001, Small geothermal systems—A guide for the do-it-yourselfer.
- Heating – Legal aspects, see LAW AND LEGISLATION**
- HEATING – RESIDENTIAL**
see also POPULAR WORKS
- Energy Design Update, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation.
- Rafferty, Kevin, 2001, Small geothermal systems—A guide for the do-it-yourselfer.
- Hot springs, see**
- GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS**
- THERMAL AND MINERAL WATERS**
- HYDROLOGY – CHEMICAL ANALYSIS [STATEWIDE AND GENERAL WORKS]**
- Ellis, A. J.; Mahon, W. A. J., 1977, Chemistry and geothermal systems.
- Korosec, M. A., 1980, Thermal and mineral spring investigations, 1978–1979 (surveys and analyses).
- Korosec, M. A., 1982, Table of chemical analyses for thermal and mineral spring and well waters collected in 1980 and 1981.

- Korosec, M. A., 1983, Surveys and geochemical analyses of thermal and mineral springs in Washington, 1980–1981.
- Korosec, M. A., 1984, Chemical analyses for thermal and mineral springs examined in 1982–1983.
- Mariner, R. H.; Presser, T. S.; Evans, W. C., 1982, Chemical and isotopic composition of water from thermal and mineral springs of Washington.
- Nehring, N. L.; Bowen, P. A.; Truesdell, A. H., 1977, Techniques for the conversion to carbon dioxide of oxygen from dissolved sulfate in thermal waters.
- Nehring, N. L.; Mariner, R. H.; White, L. D.; Huebner, M. A.; Roberts, E. D.; Harmon, Karen; Bowen, P. A.; Tanner, Lane, 1979, Sulfate geothermometry of thermal waters in the western United States.
- Nehring, N. L.; Roberts, E. D.; Kaczanowski, G., 1979, Geothermometry applied to hot springs in western United States [abstract].
- Reed, M. J.; Mariner, R. H.; Brook, C. A.; Sorey, M. L., 1983, Selected data for low-temperature (less than 90° C) geothermal systems in the United States—Reference data for U.S. Geological Survey Circular 892.
- Watson, J. C., 1978, Sampling and analysis methods for geothermal fluids and gases.
- HYDROLOGY – CHEMICAL ANALYSIS – CASCADE RANGE**
- Britton, J. M.; Forster, C.; Fairbank, B. D., 1984, Report on Mt. Baker geothermal project, Whatcom County, Washington; 1984 exploration program (Phase IIb).
- Church, S. E.; Barnes, D. J., 1984, Indian Heaven Roadless Area, Washington.
- Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.
- Dethier, D. P.; Frank, D. G.; Pevear, D. R., 1981, Preliminary chemical analysis of thermal waters at Mount St. Helens, Washington [abstract].
- Forcella, L. S., 1982, Geochemistry of thermal and mineral waters in the Cascade mountains of western North America.
- Frank, D. G., 1975, Subglacial transfer of geothermal fluids in Boulder Glacier, Washington [abstract].
- Frank, D. G., 1980, Hydrothermal alteration at Mount Baker, Washington [abstract].
- Frank, D. G.; Krimmel, R. M., 1980, Progress report on chemical monitoring of the subglacial stream draining Sherman Crater, Mount Baker, Washington [abstract].
- Fretwell, M. O., 1976, Water quality sampling and analysis activities related to Mount Baker's recent volcanic activity.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.
- Hearn, P. P.; Steinkampf, W. C.; Bortleson, G. C.; Drost, B. W., 1985, Geochemical controls on dissolved sodium in basalt aquifers of the Columbia plateau, Washington.
- Mariner, R. H., 1985, Geochemical features of Cascades hydrothermal systems.
- Mariner, R. H.; Presser, T. S.; Evans, W. C., 1993, Geothermometry and water-rock interaction in selected thermal systems in the Cascade Range and Modoc Plateau, western United States.
- Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1989, Discharge rates of thermal fluids in the Cascade Range of Oregon and Washington and their relationship to the geologic environment.
- Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1990, Discharge rates of fluid and heat by thermal springs of the Cascade Range, Washington, Oregon, and northern California.
- Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.
- Shevenell, Lisa, 1990, Chemical and isotopic investigation of the new hydrothermal system at Mount St. Helens, Washington.
- Shevenell, Lisa, 1991, Tritium in the thermal waters discharging in Loowit Canyon, Mount St. Helens, Washington, U.S.A.
- Shevenell, Lisa; Goff, F. E., 1990, Condensation of magmatic volatiles into the hot spring waters of Loowit Canyon, Mt. St. Helens, Washington [abstract].
- Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.
- Thompson, J. M., 1990, Chemical data from thermal and nonthermal springs in Mount St. Helens National Monument, Washington.
- Thompson, J. M.; White, L. D.; Casadevall, T. J.; Maley, C. A.; Keith, T. E. C., 1985, Hot springs depositing travertine at Mount St. Helens [abstract].
- Vice, D. H., 2008, Geothermal exploration in the central Washington Cascades by Burlington Northern.
- Vice, D. H.; Gold, D. P., 1990, Some changes in the thermal and hydrologic regime in the area around Mt. St. Helens from 1977 to 1981 [abstract].
- Zimbelman, D. R.; Rye, R. O., 1996, Dynamics of hydrothermal systems in an active stratovolcano—Mount Rainier, Washington [abstract].
- HYDROLOGY – CHEMICAL ANALYSIS – COLUMBIA BASIN**
- Biggane, J. H., 1981, The low temperature geothermal resources of the Yakima region—A preliminary report.
- Bortleson, G. C.; Cox, S. E., 1986, Occurrence of dissolved sodium in ground waters in basalts underlying the Columbia plateau, Washington.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Luzier, J. E., 1969, Ground-water occurrence in the Goldendale area, Klickitat County, Washington.
- Newcomb, R. C., 1965, Geology and ground-water resources of the Walla Walla River basin, Washington—Oregon.
- Newcomb, R. C., 1972, Quality of the ground water in basalt of the Columbia River group, Washington, Oregon, and Idaho.
- Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State.
- Schuster, J. E.; Bloomquist, R. G., 1994, Low-temperature geothermal resources of Washington.
- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- HYDROLOGY – CHEMICAL ANALYSIS – HANDBOOKS, MANUALS, ETC.**
- Kindle, C. H.; Pool, K. H.; Ludwick, J. D.; Robertson, D. E., 1984, Compendium of selected methods for sampling and analysis at geothermal facilities.

Kindle, C. H.; Woodruff, E. M., 1981, Techniques for geothermal liquid sampling and analysis.

Lienau, P. J., 1992, Data acquisition for low-temperature geothermal well tests and long-term monitoring.

Owen, L. B.; Michels, D. E., 1984, Geochemical engineering reference manual.

HYDROLOGY – CHEMICAL ANALYSIS – PUGET LOWLAND

Griffin, W. C.; Sceva, J. E.; Swenson, H. A.; Mundorff, M. J., 1962, Water resources of the Tacoma area, Washington.

HYDROLOGY – DIRECTORIES

Brackett, Michael, 1992, Water resource data source book.

HYDROLOGY – GEOPHYSICS

see also WELL LOGS

Biggane, J. H., 1983, Geophysical logs from water wells in the Yakima area, Washington.

Robinette, M. S.; Robinette, M. J.; Brown, J. C., 1977, Geophysical investigations of Washington's ground-water resources; annual report 1975/1976.

Stoffel, K. L.; Widness, S. E., compilers, 1983, Fluid-temperature logs for selected wells in eastern Washington.

Stoffel, K. L.; Widness, S. E., compilers, 1983, Geophysical logs of selected wells in eastern Washington.

Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.

Hydrology – Ground water, *see* THERMAL AND MINERAL WATERS

HYDROTHERMAL VENTS AND PLUMES (OCEAN)

Thomson, R. E.; Davis, E. E.; Burd, B. J., 1995, Hydrothermal venting and geothermal heating in Cascadia Basin.

Ice caves, *see* VOLCANISM – GEOTHERMAL ICE CAVES

INDIAN HEAVEN AREA

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.

Church, S. E.; Barnes, D. J., 1984, Indian Heaven Roadless Area, Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Indian Heaven area, Washington.

INDUSTRIAL AND PROCESS APPLICATIONS

see also **GEOTHERMAL ENGINEERING [GENERAL WORKS]**

Allen, Eliot, and Associates, Inc., [no date], Geothermal end-use assessment guide for communities; Draft.

Allen, Eliot, and Associates, Inc., 1981, Inventory of Washington industries with geothermal direct-use potential.

Blaydes & Associates, 2007, California geothermal energy collaborative—Expanding California's confirmed geothermal resources bases—Geothermal permitting guide.

Bloomquist, R. G., 1999, Commercial geothermal heat pumps.

Dickson, M. H.; Fanelli, Mario, editors, 1990, Small geothermal resources—A guide to development and utilization.

DiPippo, Ronald, 2008, Geothermal power plants—Principles, applications, case studies and environmental impact; 2nd ed.

Lienau, P. J.; Lund, J. W., 1974, Multipurpose use of geothermal energy; Proceedings of the international conference on geothermal energy for industrial, agricultural and commercial-residential uses.

Lund, J. W., 2003, Examples of industrial uses of geothermal energy in the United States.

Lyons, Kim, 2003, Washington—A regulatory guide to geothermal direct use development.

Rafferty, Kevin, 1983, Absorption refrigeration—Cooling with hot water. United Nations Symposium on the Development and Use of Geothermal Resources, (2nd, San Francisco, 1975), 1976, Proceedings.

Rafferty, Kevin, 2003, Industrial processes and the potential for geothermal applications.

U.S. Department of Energy, 1995, Geothermal progress monitor—Report no. 17.

Wehlage, E. F., 1981, Conserving electric power by geothermal refrigeration...cooling and freezing.

Witcher, J. C., 1980, Geothermal space heating/cooling.

Institutional aspects, *see* LAW AND LEGISLATION

KELSO, WASH. (COWLITZ CO.)

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

KENNEDY HOT SPRING (SNOHOMISH CO.)

see also **THERMAL AND MINERAL WATERS**

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.

Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.

Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.

KING CO.

see also **CASCADE RANGE**

Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal electricity generation; Draft.

King County, 1980, Report of the King County Energy Planning Project Dec. 1980; volume 2—Geothermal energy section.

Landes, Henry, 1905, Preliminary report on the underground waters of Washington.

Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.

Vice, D. H., 1976, Black Diamond geothermal prospect, King Co., Washington.

Vice, D. H., 1980, Geothermal potential in Washington.

Washington State Energy Office, 1987?, District heating and cooling.

Washington State Energy Office, 1989, Building conversion to district heating.

KITTITAS CO.

see also **CASCADE RANGE**

Harper, Robert, 1982, Geothermal studies suggest energy prospects.

Konicek, D. L., 1974, Geophysical survey in south-central Washington.

- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.
- Sackville-West Cortner; Gerard, Thomas J., and Associates, Inc., 1984, Geothermal heat pump study for Parke Creek Group Home.
- Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.

KLICKITAT CO.

see also COLUMBIA BASIN

- Barnett, D. B., 1986, The 1985 geothermal gradient drilling project for the State of Washington.
- Barnett, D. B.; Korosec, M. A., 1986, Geothermal exploratory drilling by the State of Washington in 1985.
- Brown, J. C., 1979, Geology and water resources of Klickitat County.
- Cline, D. R., 1976, Reconnaissance of the water resources of the upper Klickitat River basin, Yakima Indian Reservation, Washington.
- Konicek, D. L., 1975, Geophysical survey in south-central Washington.
- Korosec, M. A., compiler, 1987, Geologic map of the Hood River quadrangle, Washington and Oregon.
- Landes, Henry, 1905, Preliminary report on the underground waters of Washington.
- Luzier, J. E., 1969, Ground-water occurrence in the Goldendale area, Klickitat County, Washington.
- McEuen, R. B.; Birkhahn, P. C.; Pinckney, C. J., 1975, Predictive regionalization of geothermal potential [abstract].
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.
- Sheppard, R. A., 1967, Geology of the Simcoe Mountains volcanic area, Washington.
- Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.
- Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington.
- LAW AND LEGISLATION**
- Note:* Includes legal, institutional, and regulatory aspects.
- Allen, Eliot, and Associates, Inc., 1981, Institutional & financial guide to geothermal district heating.
- Battocletti, Liz, 2003, Geothermal small business workbook. energy policy in Washington—An overview.
- Bloomquist, R. G., 1985, A review and analysis of the adequacy of the legal and institutional framework for geothermal development in Washington State.
- Bloomquist, R. G., 1986, A review and analysis of the adequacy of the U.S. legal, institutional and financial framework for geothermal development.
- Bloomquist, R. G., 1989, Regulatory and commercial aspects.
- Bloomquist, R. G., 2005, Geothermal energy—State policy options.
- Bloomquist, R. G.; Basescu, Neil; Higbee, C. V.; Justus, Debra; Simpson, Stewart, 1980, Washington—A guide to geothermal energy development.
- Bloomquist, R. G.; Nimmons, J. T.; Rafferty, Kevin, 1988, District heating development guide—Legal, institutional, and marketing issues, v. 1.
- Bloomquist, R. G.; Wonstolen, K. A., editors, 1980, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing.
- Fournier, R. O., chairperson, 1976, Second United Nations symposium on the development and use of geothermal resources; Proceedings.
- Gagliano, Troy, 2003, Geothermal energy—A primer on state policies and technology.
- Geothermal Resources Council, 1974, Geothermal regulations—Papers presented in conjunction with Special Short Course no. 2, 23–24 May 1974, South San Francisco, California.
- Geothermal Resources Council, 1976, Proceedings—State-Federal geothermal regulatory interface workshop, 17–19 November 1976, Asilomar, California.
- Godwin, L. H.; Haigler, L. B.; Rioux, R. L.; White, D. E.; Muffler, L. J. P.; Wayland, R. G., 1971, Classification of public lands valuable for geothermal steam and associated geothermal resources.
- JM Energy Consultants, Inc., 1978, Financing geothermal resource development in the Pacific region states.
- JM Energy Consultants, Inc., 1978, The legal and institutional problems facing geothermal development in Oregon and Washington.
- Lindsey, M. K.; Supton, Paul, 1975, Geothermal energy—Legal problems of resource development.
- Lyons, Kim, 2003, Washington—A regulatory guide to geothermal direct use development.
- Nimmons, J. T., 1980, State public utility regulation of geothermal direct heat supplies.
- Sacarto, D. M., 1976, State policies for geothermal development; Uncovering a major resource.
- SRI International; Freeman and Associates; Intasa; Leitner, Philip, 1980, Small power production and cogeneration facilities—Eligibility, rates and exemptions for qualifying and utility-owned geothermal small power production facilities; Western regional draft supplemental environmental impact statement.
- Stone, R. T., 1971, Implementing the Federal Geothermal Steam Act of 1970.
- U.S. Department of Energy, 1980, Resource assessment/commercialization planning meeting, Salt Lake City, Utah, 1980.
- U.S. Department of the Interior, 1973, Final environmental statement for the geothermal leasing program.
- U.S. Geological Survey, 1975, Geothermal steam act of 1970, Public Law 91-581, 91st Congress, S.368, December 24, 1970, (84 Stat. 1566), (30 U.S.C. 1001-1025).
- White, Tom, editor, 1985, Geothermal Resources Council, Pacific Northwest Section fall meeting, September 24–25, 1985, Portland, Oregon, parts I and II; Summary report [preliminary].
- Wonstolen, K. A., 1980, Geothermal legislative policy concerns.
- Wonstolen, K. A., 1986, Geothermal heating—Penetration of utility monopolies.

LAW AND LEGISLATION – HANDBOOKS, MANUALS, ETC.

- Bloomquist, R. G.; Simpson, S. J., 1986, Geothermal energy development in Washington State—A guide to the federal, state, and local regulatory process.
- Creager, Kurt, 1984, Geothermal development and resource management in the Yakima Valley; A guidebook for local governments.
- National Conference of State Legislatures, 1980, Geothermal guidebook prepared for the Western Interstate Energy Board.

LAW AND LEGISLATION – LEASES AND PERMITS

- Battocletti, Liz, 2005, An introduction to geothermal permitting.

- Blaydes & Associates, 2007, California geothermal energy collaborative—Expanding California's confirmed geothermal resources bases—Geothermal permitting guide.
- Bloomquist, R. G., 1981, Washington State geothermal leasing status, January 1981.
- Bloomquist, R. G., 1983, Geothermal resources in the Cascades—Accessible/developable—The institutional setting.
- Bloomquist, R. G., 1991, Geothermal—A regulatory guide to leasing, permitting, and licensing in Idaho, Montana, Oregon, and Washington.
- Bloomquist, R. G., 2005, Geothermal energy—State policy options.
- Bloomquist, R. G.; Simpson, S. J., 1986, Geothermal energy development in Washington State—A guide to the federal, state, and local regulatory process.
- Deshaye, Joyce, 1992, A regulatory guide to leasing, permitting, and licensing in Idaho, Montana, Oregon, and Washington.
- Geothermal Resources Council, 2008, Oregon/Washington geothermal lease sale.
- Schuster, J. E., 1974, Geothermal lease applications.
- U.S. Bureau of Land Management; U.S. Forest Service, 2008, Draft programmatic environmental impact statement (PEIS) for geothermal leasing in the western United States.
- U.S. Forest Service, 1978, Geothermal leasing and development, Gifford Pinchot National Forest; Draft environmental analysis report.
- U.S. Forest Service, 1979, Geothermal leasing and development on part of the Gifford Pinchot National Forest, Skamania County, Washington.
- Leases, see LAW AND LEGISLATION – LEASES AND PERMITS**
- LESTER HOT SPRINGS (KING CO.)**
see also THERMAL AND MINERAL WATERS
- Vice, D. H., 1980, Geothermal potential in Washington.
- LEWIS CO.**
see also CASCADE RANGE
- Banks, N. G.; Bennett, C. A.; Schmidt, J. M., 1978, Maps of photo lineaments and geomorphic features in the Spirit Lake quadrangle, Washington.
- Barnett, D. B., 1986, The 1985 geothermal gradient drilling project for the State of Washington.
- Barnett, D. B., 1989, Geothermal drilling by the State of Washington in 1988.
- Barnett, D. B.; Korosec, M. A., 1986, Geothermal exploratory drilling by the State of Washington in 1985.
- Barnett, D. B.; Korosec, M. A., 1989, Results of the 1988 geothermal gradient test drilling project for the State of Washington.
- Booker, J. R., 1981, Geomagnetic sounding in the Cascade Range of Washington State as a geothermal exploration technique [abstract].
- Brook, C. A.; Mariner, R. H.; Mabey, D. R.; Swanson, J. R.; Guffanti, Marianne; Muffler, L. J. P., 1979, Hydrothermal convection systems with reservoir temperatures $\geq 90^\circ$ C.
- Clayton, G. A., 1982, Pliocene and Pleistocene volcanism in the White Pass area, south Cascade Range Washington, and its implications for models of subductions beneath the southern Washington Cascades [abstract].
- Clayton, G. A., 1983, Geology of the White Pass area, south-central Cascade Range, Washington.
- Clayton, G. A., 1983, Pliocene and Pleistocene volcanic history of the White Pass–Tumac Plateau region, Washington.
- Ellingson, J. A., 1968, Late Cenozoic volcanic geology of the White Pass–Goat Rocks area, Cascade mountains, Washington.
- Ellingson, J. A., 1969, Geology of the Goat Rocks volcano, southern Cascade mountains, Washington [abstract].
- Ellingson, J. A., 1972, The rocks and structure of the White Pass area, Washington.
- Fiske, R. S.; Hopson, C. A.; Waters, A. C., 1963, Geology of Mount Rainier National Park, Washington.
- Hammond, P. E., 1975, Preliminary geologic map and cross-sections with emphasis on Quaternary volcanic rocks, southern Cascade mountains, Washington.
- Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington.
- Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington.
- Korosec, M. A.; Barnett, D. B., 1989, Geothermal resource exploration target area defined by Division drilling projects.
- Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.
- Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.
- Schasse, H. W., compiler, 1987, Geologic map of the Mount Rainier quadrangle, Washington.
- Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.
- Thompson, J. M., 1990, Chemical data from thermal and nonthermal springs in Mount St. Helens National Monument, Washington.
- U.S. Forest Service, 1978, Gifford Pinchot National Forest—Final environmental impact statement, Upper Cispus Planning Unit, land management plan.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Margaret area, Washington.
- Youngquist, Walter, 1976, Pacific Northwest geothermal—Review and outlook.
- LINCOLN CO.**
see also COLUMBIA BASIN
- Steele, J. L., 1975, A heat flow study in the Turtle Lake quadrangle, Washington.
- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.
- Widness, S. E., 1983, Low temperature geothermal resource evaluation of the Moses Lake–Ritzville–Connell area, Washington.
- LONGVIEW, WASH. (COWLITZ CO.)**
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.
- LOOWIT HOT SPRINGS (SKAMANIA CO.)**
see also THERMAL AND MINERAL WATERS
- Ingebritsen, S. E.; Mariner, R. H.; Evans, W. C.; Hurwitz, S.; Schmidt, M. E., 2003, Hydrothermal discharge from volcanic areas in the western United States [abstract].
- Shevenell, Lisa, 1991, Tritium in the thermal waters discharging in Loowit Canyon, Mount St. Helens, Washington. U.S.A.
- Shevenell, Lisa; Goff, F. E., 1995, Evolution of hydrothermal waters at Mount St. Helens, Washington, USA.
- Magnetic surveys, see GEOPHYSICS – MAGNETIC SURVEYS**

Magnetotelluric surveys, see**GEOPHYSICS –
ELECTROMAGNETIC SURVEYS****MAPS – GEOLOGIC**

Note: Under MAPS – GEOLOGIC – [COUNTY] is a selected list of geologic maps. For a complete list of all geologic maps, *see* the indexes and web pages published by the Washington Division of Geology and Earth Resources listed immediately below:

Index to geologic and geophysical mapping of Washington, Part I—Published and open-filed reports, 1899 to 2003.

[http://www.dnr.wa.gov/Publications/ger_map_index_part1_published_ofr.pdf]

Index to geologic and geophysical mapping of Washington, Part II—Theses, 1901 to 2001. [http://www.dnr.wa.gov/Publications/ger_map_index_part2_thesis.pdf]

Geologic mapping at 1:100,000 scale. [http://www.dnr.wa.gov/ResearchScience/Topics/GeologicHazardsMapping/Pages/geol_mapping_100k.aspx]

Published and in-preparation geologic mapping of 7.5-minute topographic quadrangles in Washington State [http://www.dnr.wa.gov/Publications/ger_24k_mapping_status.pdf]

**Maps – Geologic – Adams Co., see
MAPS – GEOLOGIC – SOUTHEAST
QUADRANT****MAPS – GEOLOGIC – ASOTIN CO.***see also* **MAPS – GEOLOGIC –
SOUTHEAST QUADRANT**

Hooper, P. R.; Gillespie, B. A., 1996, Geologic map of the Pomeroy area, southeastern Washington.

**Maps – Geologic – Benton Co., see
MAPS – GEOLOGIC – SOUTHEAST
QUADRANT****MAPS – GEOLOGIC – CASCADE
RANGE**

Hammond, P. E., 1980, Reconnaissance geologic map and cross sections of the southern Washington Cascade Range, latitude 45°30'–47°15' N., longitude 120°45'–122°22.5' W

Smith, J. G., 1989, Geologic map of upper Eocene to Holocene volcanic and related rocks in the Cascade Range, Washington.

MAPS – GEOLOGIC – CHELAN CO.

see also

**MAPS – GEOLOGIC –NORTHEAST
QUADRANT****MAPS – GEOLOGIC –
NORTHWEST QUADRANT**

Crowder, D. F.; Tabor, R. W.; Ford, A. B., 1966, Geologic map of the Glacier Peak quadrangle, Snohomish and Chelan Counties, Washington.

Dragovich, J. D.; Norman, D. K., compilers, 1995, Geologic map of the west half of the Twisp 1:100,000 quadrangle, Washington.

Dragovich, J. D.; Norman, D. K.; Haugerud, R. A.; Miller, R. B., 1997, Geologic map and bedrock history of the Gilbert 7.5-minute quadrangle, Chelan and Okanogan Counties, Washington; Geochronology, by W. C. McClelland and P. Renne.

Schasse, H. W., compiler, 1987, Geologic map of the Mount Rainier quadrangle, Washington.

Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.

MAPS – GEOLOGIC – CLALLAM CO.*see also* **MAPS – GEOLOGIC –
NORTHWEST QUADRANT**

Gerstel, W. J.; Lingley, W. S., Jr., compilers, 2000, Geologic map of the Forks 1:100,000 quadrangle, Washington.

Gerstel, W. J.; Lingley, W. S., Jr., 2003, Geologic map of the Mount Olympus 1:100,000 quadrangle, Washington.

Polenz, Michael; Wegmann, K. W.; Schasse, H. W., 2004, Geologic map of the Elwha and Angeles Point 7.5-minute quadrangles, Clallam County, Washington.

Schasse, H. W., 2003, Geologic map of the Washington portion of the Cape Flattery 1:100,000 quadrangle.

Schasse, H. W., 2003, Geologic map of the Washington portion of the Port Angeles 1:100,000 quadrangle.

Schasse, H. W.; Logan, R. L., 1998, Geologic map of the Sequim 7.5-minute quadrangle, Clallam County, Washington.

Schasse, H. W.; Polenz, Michael, 2002, Geologic map of the Morse Creek 7.5-minute quadrangle, Clallam County, Washington.

Schasse, H. W.; Wegmann, K. W., 2000, Geologic map of the Carlsborg 7.5-minute quadrangle, Clallam County, Washington.

Schasse, H. W.; Wegmann, K. W.; Polenz, Michael, 2004, Geologic map of the Port Angeles and Ediz Hook 7.5-minute quadrangles, Clallam County, Washington.

MAPS – GEOLOGIC – CLARK CO.*see also* **MAPS – GEOLOGIC –
SOUTHWEST QUADRANT**

Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.

Phillips, W. M., compiler, 1987, Geologic map of the Vancouver quadrangle, Washington.

MAPS – GEOLOGIC – COLUMBIA CO.*see also* **MAPS – GEOLOGIC –
SOUTHEAST QUADRANT**

Hooper, P. R.; Gillespie, B. A., 1996, Geologic map of the Pomeroy area, southeastern Washington.

MAPS – GEOLOGIC – COWLITZ CO.*see also* **MAPS – GEOLOGIC –
SOUTHWEST QUADRANT**

Crandell, D. R.; Mullineaux, D. R., 1978, Potential hazards from future eruptions of Mount St. Helens volcano, Washington.

Lipman, P. W.; Mullineaux, D. R., editors, 1981, The 1980 eruptions of Mount St. Helens, Washington.

Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.

Phillips, W. M., compiler, 1987, Geologic map of the Vancouver quadrangle, Washington.

Vice, D. H., 1980, The Pigeon Springs geothermal prospect, Cowlitz Co., Washington.

**Maps – Geologic – Douglas Co., see
MAPS – GEOLOGIC –
NORTHEAST QUADRANT****Maps – Geologic – Ferry Co., see MAPS –
GEOLOGIC – NORTHEAST
QUADRANT****Maps – Geologic – Franklin Co., see
MAPS – GEOLOGIC – SOUTHEAST
QUADRANT****MAPS – GEOLOGIC – GARFIELD CO.***see also* **MAPS – GEOLOGIC –
SOUTHEAST QUADRANT**

Hooper, P. R.; Gillespie, B. A., 1996, Geologic map of the Pomeroy area, southeastern Washington.

Maps – Geologic – Grant Co., see**MAPS – GEOLOGIC –NORTHEAST QUADRANT****MAPS – GEOLOGIC – SOUTHEAST QUADRANT****MAPS – GEOLOGIC – GRAYS HARBOR CO.***see also***MAPS – GEOLOGIC – NORTHWEST QUADRANT****MAPS – GEOLOGIC – SOUTHWEST QUADRANT**

Gerstel, W. J.; Lingley, W. S., Jr., compilers, 2000, Geologic map of the Forks 1:100,000 quadrangle, Washington.

Gerstel, W. J.; Lingley, W. S., Jr., 2003, Geologic map of the Mount Olympus 1:100,000 quadrangle, Washington.

Lingley, W. S., Jr.; Logan, R. L.; Walsh, T. J.; Gerstel, W. J.; Schasse, H. W., 1996, Reconnaissance geology of the Matheny Ridge–Higley Peak areas, Olympic Peninsula, Washington.

Logan, R. L., 2003, Geologic map of the Copalis Beach 1:100,000 quadrangle, Washington.

Logan, R. L., 2003, Geologic map of the Shelton 1:100,000 quadrangle, Washington.

MAPS – GEOLOGIC – ISLAND CO.*see also* **MAPS – GEOLOGIC – NORTHWEST QUADRANT**

Dragovich, J. D.; Gilbertson, L. A.; Norman, D. K.; Anderson, Garth; Petro, G. T., 2002, Geologic map of the Utsalady and Conway 7.5-minute quadrangles, Skagit, Snohomish, and Island Counties, Washington.

Dragovich, J. D.; Petro, G. T.; Thorsen, G. W.; Larson, S. L.; Foster, G. R.; Norman, D. K., 2005, Geologic map of the Oak Harbor, Crescent Harbor, and part of the Smith Island 7.5-minute quadrangles, Island County, Washington.

Dragovich, J. D.; Troost, M. L.; Norman, D. K.; Anderson, Garth; Cass, Jason; Gilbertson, L. A.; McKay, D. T., Jr., 2000, Geologic map of the Anacortes South and La Conner 7.5-minute quadrangles, Skagit and Island Counties, Washington.

Polenz, Michael; Schasse, H. W.; Kalk, M. L.; Petersen, B. B., 2009, Geologic map of the Camano 7.5-minute quadrangle, Island County, Washington.

Polenz, Michael; Schasse, H. W.; Petersen, B. B., 2006, Geologic map of the Freeland and northern part of the Hansville 7.5-minute quadrangles, Island County, Washington.

Polenz, Michael; Slaughter, S. L.; Dragovich, J. D.; Thorsen, G. W., 2005, Geologic map of the Ebey's Landing National Historical Reserve, Island County, Washington.

Polenz, Michael; Slaughter, S. L.; Thorsen, G. W., 2005, Geologic map of the Coupeville and part of the Port Townsend North 7.5-minute quadrangles, Island County, Washington.

Schasse, H. W.; Kalk, M. L.; Petersen, B. B.; Polenz, Michael, 2009, Geologic map of the Langley and western part of the Tulalip 7.5-minute quadrangles, Island County, Washington.

Schasse, H. W.; Kalk, M. L.; Polenz, Michael, 2009, Geologic map of the Juniper Beach 7.5-minute quadrangle, Island County, Washington.

MAPS – GEOLOGIC – JEFFERSON CO.*see also* **MAPS – GEOLOGIC – NORTHWEST QUADRANT**

Gerstel, W. J.; Lingley, W. S., Jr., compilers, 2000, Geologic map of the Forks 1:100,000 quadrangle, Washington.

Gerstel, W. J.; Lingley, W. S., Jr., 2003, Geologic map of the Mount Olympus 1:100,000 quadrangle, Washington.

Lingley, W. S., Jr.; Logan, R. L.; Walsh, T. J.; Gerstel, W. J.; Schasse, H. W., 1996, Reconnaissance geology of the Matheny Ridge–Higley Peak areas, Olympic Peninsula, Washington.

Schasse, H. W.; Slaughter, S. L., 2005, Geologic map of the Port Townsend South and part of the Port Townsend North 7.5-minute quadrangles, Jefferson County, Washington.

MAPS – GEOLOGIC – KING CO.*see also***MAPS – GEOLOGIC – NORTHWEST QUADRANT****MAPS – GEOLOGIC – SOUTHWEST QUADRANT**

Booth, D. B.; Minard, J. P., 1992, Geologic map of the Issaquah 7.5 quadrangle, King County, Washington.

Dragovich, J. D.; Anderson, M. L.; Walsh, T. J.; Johnson, B. L.; Adams, T. L., 2007, Geologic map of the Fall City 7.5-minute quadrangle, King County, Washington.

Dragovich, J. D.; Walsh, T. J.; Anderson, M. L.; Hartog, Renate; DuFrane, S. A.; Vervoot, Jeff; Williams, S. A.; Cakir, Recep; Stanton, K. D.; Wolff, F. E.; Norman, D. K.; Czajkowski, J. L., 2009, Geologic map of the North Bend 7.5-minute quadrangle, King County, Washington, with a discussion of major faults, folds, and basins in the map area.

Maps – Geologic – Kitsap Co., see
MAPS – GEOLOGIC – NORTHWEST QUADRANT**MAPS – GEOLOGIC – KITTITAS CO.***see also***MAPS – GEOLOGIC – NORTHWEST QUADRANT****MAPS – GEOLOGIC – SOUTHEAST QUADRANT****MAPS – GEOLOGIC – SOUTHWEST QUADRANT**

Cheney, E. S., 1999, Geologic map of the Easton area, Kittitas County, Washington.

MAPS – GEOLOGIC – KLICKITAT CO.*see also***MAPS – GEOLOGIC – SOUTHEAST QUADRANT****MAPS – GEOLOGIC – SOUTHWEST QUADRANT**

Korosec, M. A., compiler, 1987, Geologic map of the Hood River quadrangle, Washington and Oregon.

Sheppard, R. A., 1967, Geology of the Simcoe Mountains volcanic area, Washington.

MAPS – GEOLOGIC – LEWIS CO.*see also* **MAPS – GEOLOGIC – SOUTHWEST QUADRANT**

Banks, N. G.; Bennett, C. A.; Schmidt, J. M., 1978, Maps of photo lineaments and geomorphic features in the Spirit Lake quadrangle, Washington.

Clayton, G. A., 1983, Geology of the White Pass area, south-central Cascade Range, Washington.

Ellingson, J. A., 1968, Late Cenozoic volcanic geology of the White Pass–Goat Rocks area, Cascade mountains, Washington.

Ellingson, J. A., 1972, The rocks and structure of the White Pass area, Washington.

Fiske, R. S.; Hopson, C. A.; Waters, A. C., 1963, Geology of Mount Rainier National Park, Washington.

- Hammond, P. E., 1975, Preliminary geologic map and cross-sections with emphasis on Quaternary volcanic rocks, southern Cascade mountains, Washington.
- Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington.
- Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.
- Schasse, H. W., compiler, 1987, Geologic map of the Mount Rainier quadrangle, Washington.
- MAPS – GEOLOGIC – LINCOLN CO.**
see also **MAPS – GEOLOGIC – NORTHEAST QUADRANT**
- Derkey, R. E.; Hamilton, M. M., 2009, Geologic map of the Olsen Canyon 7.5-minute quadrangle, Lincoln and Stevens Counties, Washington.
- MAPS – GEOLOGIC – MASON CO.**
see also
MAPS – GEOLOGIC – NORTHWEST QUADRANT
MAPS – GEOLOGIC – SOUTHWEST QUADRANT
- Logan, R. L., 2003, Geologic map of the Shelton 1:100,000 quadrangle, Washington.
- Logan, R. L.; Polenz, Michael; Walsh, T. J.; Schasse, H. W., 2003, Geologic map of the Squaxin Island 7.5-minute quadrangle, Mason and Thurston Counties, Washington.
- Logan, R. L.; Walsh, T. J., 2004, Geologic map of the Summit Lake 7.5-minute quadrangle, Thurston and Mason Counties, Washington.
- Logan, R. L.; Walsh, T. J., 2007, Geologic map of the Vaughn 7.5-minute quadrangle, Pierce and Mason Counties, Washington.
- Logan, R. L.; Walsh, T. J.; Polenz, Michael, 2003, Geologic map of the Longbranch 7.5-minute quadrangle, Thurston, Pierce, and Mason Counties, Washington.
- Schasse, H. W.; Logan, R. L.; Polenz, Michael; Walsh, T. J., 2003, Geologic map of the Shelton 7.5-minute quadrangle, Mason and Thurston Counties, Washington.
- MAPS – GEOLOGIC – NORTHEAST QUADRANT**
- Stoffel, K. L.; Joseph, N. L.; Waggoner, S. Z.; Gulick, C. W.; Korosec, M. A.; Bunning, B. B., 1991, Geologic map of Washington—Northeast quadrant.
- MAPS – GEOLOGIC – NORTHWEST QUADRANT**
- Dragovich, J. D.; Logan, R. L.; Schasse, H. W.; Walsh, T. J.; Lingley, W. S., Jr.; Norman, D. K.; Gerstel, W. J.; Lapen, T. J.; Schuster, J. E.; Meyers, K. D., 2002, Geologic map of Washington—Northwest quadrant.
- MAPS – GEOLOGIC – OKANOGAN CO.**
see also
MAPS – GEOLOGIC – NORTHEAST QUADRANT
MAPS – GEOLOGIC – NORTHWEST QUADRANT
- Dragovich, J. D.; Norman, D. K., compilers, 1995, Geologic map of the west half of the Twisp 1:100,000 quadrangle, Washington.
- Dragovich, J. D.; Norman, D. K.; Haugerud, R. A.; Miller, R. B., 1997, Geologic map and bedrock history of the Gilbert 7.5-minute quadrangle, Chelan and Okanogan Counties, Washington; Geochronology, by W. C. McClelland and P. Renne.
- MAPS – GEOLOGIC – OLYMPIC MOUNTAINS AND OLYMPIC PENINSULA**
- Tabor, R. W.; Cady, W. M., 1978, Geologic map of the Olympic Peninsula, Washington.
- Maps – Geologic – Pacific Co., see**
MAPS – GEOLOGIC – SOUTHWEST QUADRANT
- Maps – Geologic – Pend Oreille Co., see**
MAPS – GEOLOGIC – NORTHEAST QUADRANT
- MAPS – GEOLOGIC – PIERCE CO.**
see also
MAPS – GEOLOGIC – NORTHWEST QUADRANT
MAPS – GEOLOGIC – SOUTHWEST QUADRANT
- Crandell, D. R., 1969, Surficial geology of Mount Rainier National Park, Washington.
- Fiske, R. S., 1960, Stratigraphy and structure of lower and middle Tertiary rocks, Mount Rainier National Park, Washington.
- Fiske, R. S.; Hopson, C. A.; Waters, A. C., 1963, Geology of Mount Rainier National Park, Washington.
- Logan, R. L.; Walsh, T. J., 2007, Geologic map of the Vaughn 7.5-minute quadrangle, Pierce and Mason Counties, Washington: Washington Division of Geology.
- Logan, R. L.; Walsh, T. J.; Polenz, Michael, 2003, Geologic map of the Longbranch 7.5-minute quadrangle, Thurston, Pierce, and Mason Counties, Washington.
- Logan, R. L.; Walsh, T. J.; Troost, K. G., 2006, Geologic map of the Fox Island 7.5-minute quadrangle, Pierce County, Washington.
- Schasse, H. W., compiler, 1987, Geologic map of the Mount Rainier quadrangle, Washington.
- Vice, D. H., 1980, The Summit Creek geothermal prospect.
- Walsh, T. J.; Logan, R. L.; Polenz, Michael, 2003, Geologic map of the McNeil Island 7.5-minute quadrangle, Pierce and Thurston Counties, Washington.
- Walsh, T. J.; Logan, R. L.; Polenz, Michael; Schasse, H. W., 2003, Geologic map of the Nisqually 7.5-minute quadrangle, Thurston and Pierce Counties, Washington.
- MAPS – GEOLOGIC – SAN JUAN CO.**
see also **MAPS – GEOLOGIC – NORTHWEST QUADRANT**
- Dethier, D. P.; White, D. P.; Brookfield, C. M., 1996, Maps of the surficial geology and depth to bedrock of False Bay, Friday Harbor, Richardson, and Shaw Island 7.5-minute quadrangles, San Juan County, Washington.
- Lapen, T. J., 2000, Geologic map of the Bellingham 1:100,000 quadrangle, Washington.
- Logan, R. L., 2003, Geologic map of the Washington portion of the Roche Harbor 1:100,000 quadrangle.
- MAPS – GEOLOGIC – SKAGIT CO.**
see also **MAPS – GEOLOGIC – NORTHWEST QUADRANT**
- Dragovich, J. D.; DeOme, A. J., 2006, Geologic map of the McMurray 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington, with a discussion of the evidence for Holocene activity on the Darrington–Devils Mountain fault zone.
- Dragovich, J. D.; Gilbertson, L. A.; Lingley, W. S., Jr.; Polenz, Michael; Glenn, Jennifer, 2002, Geologic map of the Darrington 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Gilbertson, L. A.; Lingley, W. S., Jr.; Polenz, Michael; Glenn, Jennifer, 2002, Geologic map of the Fortson 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.

- Dragovich, J. D.; Gilbertson, L. A.; Norman, D. K.; Anderson, Garth; Petro, G. T., 2002, Geologic map of the Utsalady and Conway 7.5-minute quadrangles, Skagit, Snohomish, and Island Counties, Washington.
- Dragovich, J. D.; Grisamer, C. L., 1998, Quaternary stratigraphy, cross sections, and general geohydrologic potential of the Bow and Alger 7.5-minute quadrangles, western Skagit County, Washington.
- Dragovich, J. D.; Norman, D. K.; Grisamer, C. L.; Logan, R. L.; Anderson, Garth, 1998, Geologic map and interpreted geologic history of the Bow and Alger 7.5-minute quadrangles, western Skagit County, Washington.
- Dragovich, J. D.; Norman, D. K.; Lapen, T. J.; Anderson, Garth, 1999, Geologic map of the Sedro-Woolley North and Lyman 7.5-minute quadrangles, western Skagit County, Washington.
- Dragovich, J. D.; Stanton, B. W.; Lingley, W. S., Jr.; Griesel, G. A.; Polenz, Michael, 2003, Geologic map of the Mount Higgins 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Stanton, B. W.; Lingley, W. S., Jr.; Griesel, G. A.; Polenz, Michael, 2003, Geologic map of the Mount Higgins 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Wolfe, M. W.; Stanton, B. W.; Norman, D. K., 2004, Geologic map of the Stimson Hill 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Wolfe, M. W.; Stanton, B. W.; Norman, D. K., 2004, Geologic map of the Stimson Hill 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Lapen, T. J., 2000, Geologic map of the Bellingham 1:100,000 quadrangle, Washington.
- MAPS – GEOLOGIC – SKAMANIA CO.**
see also **MAPS – GEOLOGIC – SOUTHWEST QUADRANT**
- Banks, N. G.; Bennett, C. A.; Schmidt, J. M., 1978, Maps of photo lineaments and geomorphic features in the Spirit Lake quadrangle, Washington.
- Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range.
- Crandell, D. R.; Mullineaux, D. R., 1978, Potential hazards from future eruptions of Mount St. Helens volcano, Washington.
- Harle, D. S., 1974, Geology of the Babyshoe Ridge area, southern Cascades, Washington.
- Hopkins, K. D., 1976, Geology of the south and east slopes of Mount Adams volcano, Cascade Range, Washington.
- Kent Associates, 1981, Geothermal exploration project, Phase I—Temperature gradient drilling for City of North Bonneville, Washington, June, 1981.
- Korosec, M. A., compiler, 1987, Geologic map of the Hood River quadrangle, Washington and Oregon.
- Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington.
- Lipman, P. W.; Mullineaux, D. R., editors, 1981, The 1980 eruptions of Mount St. Helens, Washington.
- Nielson, D. L.; Moran, M. R., 1980, Geologic interpretation of the geothermal potential of the North Bonneville area.
- Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.
- Phillips, W. M., compiler, 1987, Geologic map of the Vancouver quadrangle, Washington.
- Schuster, J. E.; Blackwell, D. D.; Hammond, P. E.; Huntting, M. T., 1978, Heat flow studies in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Verhoogen, Jean, 1937, Mount St. Helens—A recent Cascade volcano.
- Wise, W. S., 1961, The geology and mineralogy of the Wind River area, Washington, and the stability relations of celadonite.
- Wise, W. S., 1970, Cenozoic volcanism in the Cascade mountains of southern Washington.
- MAPS – GEOLOGIC – SNOHOMISH CO.**
see also **MAPS – GEOLOGIC – NORTHWEST QUADRANT**
- Crowder, D. F.; Tabor, R. W.; Ford, A. B., 1966, Geologic map of the Glacier Peak quadrangle, Snohomish and Chelan Counties, Washington.
- Dragovich, J. D.; DeOme, A. J., 2006, Geologic map of the McMurray 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington, with a discussion of the evidence for Holocene activity on the Darrington–Devils Mountain fault zone.
- Dragovich, J. D.; Gilbertson, L. A.; Lingley, W. S., Jr.; Polenz, Michael; Glenn, Jennifer, 2002, Geologic map of the Darrington 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Gilbertson, L. A.; Lingley, W. S., Jr.; Polenz, Michael; Glenn, Jennifer, 2002, Geologic map of the Fortson 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Gilbertson, L. A.; Norman, D. K.; Anderson, Garth; Petro, G. T., 2002, Geologic map of the Utsalady and Conway 7.5-minute quadrangles, Skagit, Snohomish, and Island Counties, Washington.
- Dragovich, J. D.; Norman, D. K., compilers, 1995, Geologic map of the west half of the Twisp 1:100,000 quadrangle, Washington.
- Dragovich, J. D.; Stanton, B. W.; Lingley, W. S., Jr.; Griesel, G. A.; Polenz, Michael, 2003, Geologic map of the Mount Higgins 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Stanton, B. W.; Lingley, W. S., Jr.; Griesel, G. A.; Polenz, Michael, 2003, Geologic map of the Oso 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Dragovich, J. D.; Wolfe, M. W.; Stanton, B. W.; Norman, D. K., 2004, Geologic map of the Stimson Hill 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington.
- Ford, A. B., 1957, Petrology of the Sulphur Mountain area, Glacier Peak quadrangle, Washington.
- Ford, A. B., 1959, Geology and petrology of the Glacier Peak quadrangle, northern Cascades, Washington.
- Minard, J. P., 1985, Geologic map of the Everett 7.5-minute quadrangle, Snohomish County, Washington.
- Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.
- Waldron, R. L., 1986, Hydrothermal alteration of the Gamma Ridge rocks, on Glacier Peak, and their relation to hot spring activity.
- MAPS – GEOLOGIC – SOUTHEAST QUADRANT**
- Schuster, J. E.; Gulick, C. W.; Reidel, S. P.; Fecht, K. R.; Zurenko, S. E., 1997, Geologic map of Washington—Southeast quadrant.

MAPS – GEOLOGIC – SOUTHWEST QUADRANT

Walsh, T. J.; Korosec, M. A.; Phillips, W. M.; Logan, R. L.; Schasse, H. W., 1987, Geologic map of Washington— Southwest quadrant.

MAPS – GEOLOGIC – SPOKANE CO.*see also* **MAPS – GEOLOGIC – NORTHEAST QUADRANT**

Derkey, R. E., 1997, Geologic map of the Mead 7.5-minute quadrangle, Spokane County, Washington.

Derkey, R. E.; Gerstel, W. J.; Logan, R. L., 1998, Geologic map of the Dartford 7.5-minute quadrangle, Spokane County, Washington.

Derkey, R. E.; Hamilton, M. M., 2007, Geologic map of the Four Mound Prairie 7.5-minute quadrangle, Spokane and Stevens Counties, Washington.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2003, Geologic map of the Nine Mile Falls 7.5-minute quadrangle, Spokane and Stevens Counties, Washington.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Airway Heights 7.5-minute quadrangle, Spokane County, Washington.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Greenacres 7.5-minute quadrangle, Spokane County, Washington.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Spokane Northwest 7.5-minute quadrangle, Spokane County, Washington.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Washington portions of the Liberty Lake 7.5-minute quadrangle and the south half of the Newman Lake 7.5-minute quadrangle, Spokane County.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2005, Geologic map of the Deer Park 7.5-minute quadrangle, Spokane County, Washington.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F.; Kiver, E. P., 1999, Preliminary geologic maps of the Spokane NE and SE 7.5-minute quadrangles, Spokane County, Washington.

Hamilton, M. M.; Derkey, R. E., 2005, Geologic map of the Chattaroy 7.5-minute quadrangle, Spokane County, Washington.

Hamilton, M. M.; Derkey, R. E.; Stradling, D. F., 2004, Geologic map of the Four Lakes 7.5-minute quadrangle, Spokane County, Washington.

Hamilton, M. M.; Derkey, R. E.; Stradling, D. F., 2004, Geologic map of the Spokane Southwest 7.5-minute quadrangle, Spokane County, Washington.

MAPS – GEOLOGIC – STEVENS CO.*see also* **MAPS – GEOLOGIC – NORTHEAST QUADRANT**

Derkey, R. E.; Hamilton, M. M., 2007, Geologic map of the Four Mound Prairie 7.5-minute quadrangle, Spokane and Stevens Counties, Washington.

Derkey, R. E.; Hamilton, M. M., 2009, Geologic map of the Olsen Canyon 7.5-minute quadrangle, Lincoln and Stevens Counties, Washington.

Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2003, Geologic map of the Nine Mile Falls 7.5-minute quadrangle, Spokane and Stevens Counties, Washington.

MAPS – GEOLOGIC – THURSTON CO.*see also* **MAPS – GEOLOGIC – SOUTHWEST QUADRANT**

Logan, R. L., 2003, Geologic map of the Shelton 1:100,000 quadrangle, Washington.

Logan, R. L.; Polenz, Michael; Walsh, T. J.; Schasse, H. W., 2003, Geologic map of the Squaxin Island 7.5-minute quadrangle, Mason and Thurston Counties, Washington.

Logan, R. L.; Walsh, T. J., 2004, Geologic map of the Summit Lake 7.5-minute quadrangle, Thurston and Mason Counties, Washington.

Logan, R. L.; Walsh, T. J.; Polenz, Michael, 2003, Geologic map of the Longbranch 7.5-minute quadrangle, Thurston, Pierce, and Mason Counties, Washington.

Logan, R. L.; Walsh, T. J.; Schasse, H. W.; Polenz, Michael, 2003, Geologic map of the Lacey 7.5-minute quadrangle, Thurston County, Washington.

Logan, R. L.; Walsh, T. J.; Stanton, B. W.; Sarikhan, I. Y., 2009, Geologic map of the Maytown 7.5-minute quadrangle, Thurston County, Washington.

Schasse, H. W.; Logan, R. L.; Polenz, Michael; Walsh, T. J., 2003, Geologic map of the Shelton 7.5-minute quadrangle, Mason and Thurston Counties, Washington.

Walsh, T. J.; Logan, R. L., 2005, Geologic map of the East Olympia 7.5-minute quadrangle, Thurston County, Washington.

Walsh, T. J.; Logan, R. L.; Polenz, Michael; Schasse, H. W., 2003, Geologic map of the Nisqually 7.5-minute quadrangle, Thurston and Pierce Counties, Washington.

Walsh, T. J.; Logan, R. L.; Polenz, Michael, 2003, Geologic map of the McNeil Island 7.5-minute quadrangle, Pierce and Thurston Counties, Washington.

Walsh, T. J.; Logan, R. L.; Schasse, H. W.; Polenz, Michael, 2003, Geologic map of the Tumwater 7.5-minute quadrangle, Thurston County, Washington.

Maps – Geologic – Wahkiakum Co., see MAPS – GEOLOGIC – SOUTHWEST QUADRANT**MAPS – GEOLOGIC – WALLA WALLA CO.***see also* **MAPS – GEOLOGIC – SOUTHEAST QUADRANT**

Derkey, R. E.; Stradling, D. F.; Lindsey, K. A.; Tolan, T. L., 2006, Geologic map of the College Place and Walla Walla 7.5-minute quadrangles, Walla Walla County, Washington, and Umatilla County, Oregon.

MAPS – GEOLOGIC – WHATCOM CO.*see also* **MAPS – GEOLOGIC – NORTHWEST QUADRANT**

Dragovich, J. D.; Norman, D. K.; Haugerud, R. A.; Pringle, P. T., 1997, Geologic map and interpreted geologic history of the Kendall and Deming 7.5-minute quadrangles, western Whatcom County, Washington.

Lapen, T. J., 2000, Geologic map of the Bellingham 1:100,000 quadrangle, Washington.

Logan, R. L., 2003, Geologic map of the Washington portion of the Roche Harbor 1:100,000 quadrangle.

Maps – Geologic – Whitman Co., see MAPS – GEOLOGIC – SOUTHEAST QUADRANT**MAPS – GEOLOGIC – YAKIMA CO.***see also***MAPS – GEOLOGIC – SOUTHEAST QUADRANT****MAPS – GEOLOGIC – SOUTHWEST QUADRANT**

Biggane, J. H., 1982, The low-temperature geothermal resource and stratigraphy of portions of Yakima County, Washington.

Clayton, G. A., 1983, Geology of the White Pass area, south-central Cascade Range, Washington.

Ellingson, J. A., 1968, Late Cenozoic volcanic geology of the White Pass–Goat Rocks area, Cascade mountains, Washington.

Ellingson, J. A., 1972, The rocks and structure of the White Pass area, Washington.

Hammond, P. E., 1975, Preliminary geologic map and cross-sections with emphasis on Quaternary volcanic rocks, southern Cascade mountains, Washington.

Hammond, P. E., 2005, Geologic map of the Timberwolf Mountain 7.5-minute quadrangle, Yakima County, Washington.

Hammond, P. E., 2005, Supplement to Geologic Map GM-60, geologic map of the Timberwolf Mountain 7.5-minute quadrangle, Yakima County, Washington.

Hopkins, K. D., 1976, Geology of the south and east slopes of Mount Adams volcano, Cascade Range, Washington.

Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington.

Sheppard, R. A., 1967, Geology of the Simcoe Mountains volcanic area, Washington.

Swanson, D. A., 1964, The middle and late Cenozoic volcanic rocks of the Tieton River area, south-central Washington.

Swanson, D. A., 1966, Tieton volcano, a Miocene eruptive center in the southern Cascade mountains, Washington.

Swanson, D. A., 1978, Geologic map of the Tieton River area, Yakima County, south-central Washington.

MAPS – GEOPHYSICAL

Note: This is a selected list of geophysical maps. For a complete list of all geophysical maps, *see* the indexes published by the Washington Division of Geology and Earth Resources.

Bonini, W. E.; Hughes, D. W.; Daneš, Z. F., compilers, 1974, Complete Bouguer gravity anomaly map of Washington.

Daneš, Z. F., 1979, Bouguer gravity map, Camas area, Washington and Oregon.

Daneš, Z. F., 1981, Preliminary Bouguer gravity map, southern Cascade mountains area, Washington.

Daneš, Z. F.; Phillips, W. M., 1983, Complete Bouguer gravity anomaly map, Cascade mountains, Washington.

Stricklin, C. R., 1975, Geophysical survey of the Lemei Rock–Steamboat Mountain area, Washington.

Swanson, D. A.; Wright, T. L.; Zietz, Isidore, 1979, Aeromagnetic map and geologic interpretations of the west-central Columbia plateau, Washington and adjacent Oregon.

U.S. Geological Survey, 1977, Aeromagnetic map of part of northern Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Indian Heaven area, Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Adam area, Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Margaret area, Washington.

U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. St. Helens area, Washington.

MAPS – GEOTHERMAL RESOURCES

Blackwell, D. D.; Steele, J. L.; and others, compilers, 1992, Geothermal map of North America.

Derkey, P. D.; Johnson, B. R., 1995, Digital maps of low- to moderate-temperature geothermal springs and wells in the Pacific Northwest—A contribution to the Interior Columbia River Basin Ecosystem Management Project.

Korosec, M. A.; Kaler, K. L.; Schuster, J. E.; and others, compilers, 1981, Geothermal resources of Washington.

Korosec, M. A.; McLucas, G. B., compilers, 1980, Quaternary volcanics and volcanic centers in the State of Washington.

Kron, Andrea; Heiken, Grant, 1980, Geothermal gradient map of the United States.

Kron, Andrea; Stix, John, 1982, Geothermal gradient map of the United States, exclusive of Alaska and Hawaii.

Laney, Patrick; Brizzee, Julie, 2003, Washington geothermal resources.

Nunz, G. J., 1993, The xerolithic geothermal (“hot dry rock”) energy resource of the United States—An update.

MAPS – HYDROLOGIC

Collings, M. R.; Higgins, G. T., 1973, Stream temperatures in Washington State.

MOFFETTS HOT SPRINGS (SKAMANIA CO.)

see also THERMAL AND MINERAL WATERS

Nielson, D. L.; Moran, M. R., 1980, Geologic interpretation of the geothermal potential of the North Bonneville area.

MOSES LAKE, WASH. AND VICINITY

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Moses Lake. Washington—A study of district heating favorabilities.

Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.

Widness, S. E., 1983, Low temperature geothermal resource evaluation of the Moses Lake–Ritzville–Connell area, Washington.

MOUNT ADAMS (YAKIMA CO.)

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

Ciancanelli, E. V., 1987, Geology and geothermal resource potential of Mt. Adams volcano, Washington.

Fowler, C. S., 1935, The origin of the sulfur deposits of Mount Adams.

Geyer, J. D.; Kellerman, L. M.; Bloomquist, R. G., 1989, Assessment of geothermal resources for electric power generation in the Pacific Northwest; Draft issue paper.

Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.

Hildreth, Wes; Fierstein, Judy, 1985, Mount Adams—Eruptive history of an andesite-dacite stratovolcano at the focus of a fundamentally basaltic volcanic field.

Hildreth, Wes; Fierstein, Judy, 1990, Geologic map and geothermal assessment of the Mount Adams volcanic field, Cascade Range of southern Washington.

Hildreth, Wes; Fierstein, Judy; Miller, M. S., 1983, Mineral and geothermal resource potential of the Mount Adams Wilderness and contiguous roadless areas, Skamania and Yakima Counties, Washington.

Hopkins, K. D., 1976, Geology of the south and east slopes of Mount Adams volcano, Cascade Range, Washington.

Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington.

Lesser, J. A., 1992, Economic impacts of geothermal development, Skamania County, Washington.

Phillips, K. N., 1942, Fumaroles of Mount St. Helens and Mount Adams.

Sheppard, R. A., 1967, Petrology of a late Quaternary potassium-rich andesite from Mount Adams, Washington.

- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Adams area, Washington.
- MOUNT BAKER (WHATCOM CO.)**
- Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.
- Bockheim, J. G.; Ballard, T. M., 1975, Hydrothermal soils of the crater of Mount Baker, Washington.
- Britton, J. M.; Forster, C.; Fairbank, B. D., 1984, Report on Mt. Baker geothermal project, Whatcom County, Washington; 1984 exploration program (Phase IIB).
- Coombs, H. A., 1939, Mount Baker, a Cascade volcano.
- Easterbrook, D. J., 1975, Mount Baker eruptions.
- Easterbrook, D. J., 1976, Pleistocene and Recent volcanic activity of Mt. Baker, Washington [abstract].
- Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal electricity generation; Draft.
- Frank, D. G., 1975, Subglacial transfer of geothermal fluids in Boulder Glacier, Washington [abstract].
- Frank, D. G., 1980, Hydrothermal alteration at Mount Baker, Washington [abstract].
- Frank, D. G.; Krimmel, R. M., 1978, Mount Baker thermal activity continues—Visual observations, April 1976 to August 1977 [abstract].
- Frank, D. G.; Krimmel, R. M., 1980, Progress report on chemical monitoring of the subglacial stream draining Sherman Crater, Mount Baker, Washington [abstract].
- Frank, D. G.; Meier, M. F.; Swanson, D. A.; and others, 1977, Assessment of increased thermal activity at Mount Baker, Washington, March 1975–March 1976.
- Frank, D. G.; Post, A. S., 1976, Documentation of thermal changes by photographs of snow and ice features at Mount Baker, Washington [abstract].
- Frank, D. G.; Post, A. S., 1976, Hydrothermal activity at Mount Baker, Washington [abstract].
- Frank, D. G.; Post, A. S.; Friedman, J. D., 1975, Recurrent geothermally induced debris avalanches on Boulder Glacier, Mount Baker, Washington.
- Fretwell, M. O., 1976, Water quality sampling and analysis activities related to Mount Baker's recent volcanic activity.
- Friedman, J. D., 1972, Aerial thermal surveillance of volcanoes of the Cascade Range, Washington, Oregon, and northern California [abstract].
- Friedman, J. D., 1974, Thermal surveillance of Cascade Range volcanoes [abstract].
- Friedman, J. D.; Frank, D. G., 1974, Thermal activity at Mount Baker volcano, Washington [abstract].
- Friedman, J. D.; Frank, D. G., 1980, Infrared surveys, radiant flux, and total heat discharge at Mount Baker volcano, Washington, between 1970 and 1975.
- Geyer, J. D.; Kellerman, L. M.; Bloomquist, R. G., 1989, Assessment of geothermal resources for electric power generation in the Pacific Northwest; Draft issue paper.
- Hardee, H. C., 1985, Shallow magma targets in the western U.S.
- Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.
- Hyde, J. H.; Crandell, D. R., 1975, Origin and age of postglacial deposits and assessment of potential hazards from future eruptions of Mount Baker, Washington.
- Hyde, J. H.; Crandell, D. R., 1978, Postglacial volcanic deposits at Mount Baker, Washington, and potential hazards from future eruptions.
- Kiver, E. P., 1976, Washington's geothermal ice caves.
- Kiver, E. P., 1978, Geothermal ice caves and fumaroles, Mount Baker volcano, 1974–77 [abstract].
- Kiver, E. P., 1978, Mount Baker's changing fumaroles.
- Kiver, E. P.; Steele, W. K., 1975, Geothermally produced ice caves, Mount Baker, Washington [abstract].
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Whatcom County, Washington.
- Malone, S. D., 1976, Deformation of Mount Baker volcano by hydrothermal heating [abstract].
- Malone, S. D., 1979, Gravity changes accompanying increased heat emission at Mount Baker, Washington.
- Malone, S. D.; Frank, D. G., 1975, Increased heat emission from Mount Baker, Washington.
- McLane, J. E.; Finkelman, R. B.; Larson, R. R., 1976, Mineralogical examination of particulate matter from the fumaroles of Sherman Crater, Mt. Baker, Washington [abstract].
- Nitsan, U., 1976, The effect of increased geothermal heat flux on the flow of Mt. Baker glaciers [abstract].
- Radke, L. F.; Hobbs, P. V.; Stith, J. L., 1976, Airborne measurements of gases and aerosols from volcanic vents on Mt. Baker.
- Rosenfeld, C. L., 1976, Operational aerial surveillance of the Sherman Crater area, Mt. Baker, Washington [abstract].
- Sato, Motoaki; Malone, S. D.; Moxham, R. M.; McLane, J. E., 1976, Monitoring of fumarolic gas at Sherman Crater, Mt. Baker, Washington [abstract].
- Shafer, D. S., 1980, Evaluation and implications of the thermal activity of Mt. Baker, Washington from aerial photographs and infrared images.
- Spinney, P. J., 1984, Seattle City Light geothermal exploration studies.
- Stavert, L. W., 1971, A geochemical reconnaissance investigation of Mount Baker andesite.
- MOUNT BAKER–SNOQUALMIE NATIONAL FOREST**
- Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.
- Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.
- U.S. Forest Service, 1982, Geothermal resources seminar, Mt. Baker–Snoqualmie National Forest, June 24, 1982.
- U.S. Forest Service, 1988, Earth's heat—Geothermal energy on the national forests of the Pacific Northwest.
- MOUNT RAINIER (PIERCE CO.)**
- Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.
- Condie, K. C.; Swenson, D. H., 1974, Compositional variation in three Cascade stratovolcanoes—Jefferson, Rainier, and Shasta.
- Coombs, H. A., 1936, The geology of Mount Rainier National Park.
- Crandell, D. R., 1969, The geologic story of Mount Rainier—A look at the geologic past of one of America's most scenic volcanoes.

- Crandell, D. R., 1969, Surficial geology of Mount Rainier National Park, Washington.
- Crandell, D. R., 1971, Postglacial lahars from Mount Rainier volcano, Washington.
- Crandell, D. R., 1973, Map showing potential hazards from future eruptions of Mount Rainier, Washington.
- Crandell, D. R.; Mullineaux, D. R.; Miller, R. D.; Rubin, Meyer, 1962, Pyroclastic deposits of recent age at Mount Rainier, Washington.
- Crandell, D. R.; Waldron, H. H., 1956, A Recent volcanic mudflow of exceptional dimensions from Mt. Rainier, Washington.
- Cullen, J. M., 1978, Impact of a major eruption of Mount Rainier on public service delivery systems in the Puyallup Valley, Washington.
- Daneš, Z. F., 1964, Gravity survey of Mount Rainier, Washington [abstract].
- Fiske, R. S., 1960, Stratigraphy and structure of lower and middle Tertiary rocks, Mount Rainier National Park, Washington.
- Fiske, R. S.; Hopson, C. A.; Waters, A. C., 1963, Geology of Mount Rainier National Park, Washington.
- Frank, D. G., 1985, Hydrothermal processes at Mount Rainier, Washington.
- Frank, D. G., 2000, Hydrothermal indicators in streams and springs at Mount Rainier [abstract].
- Frank, D. G.; Realmuto, V. J., 1995, Leakage from the active hydrothermal system at Mount Rainier, Washington [abstract].
- Friedman, J. D., 1972, Aerial thermal surveillance of volcanoes of the Cascade Range, Washington, Oregon, and northern California [abstract].
- Friedman, J. D., 1974, Thermal surveillance of Cascade Range volcanoes [abstract].
- Hardee, H. C., 1985, Shallow magma targets in the western U.S.
- Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.
- Hopson, C. A.; Waters, A. C.; Bender, V. R.; Rubin, Meyer, 1962, The latest eruptions from Mount Rainier volcano.
- Kiver, E. P., 1976, Washington's geothermal ice caves.
- Kiver, E. P.; Snavelly, J.; Snavelly, D. F., 1977, Hydrogen sulfide fumes at the summit of Mount Rainier volcano, Washington.
- Lange, I. M.; Avent, J. C., 1973, Ground-based thermal infrared surveys as an aid in predicting volcanic eruptions in the Cascade Range.
- Lange, I. M.; Avent, J. C., 1975, Ground-based thermal infrared surveys of Mount Rainier volcano, Washington.
- Moxham, R. M.; Boynton, G. R.; Cote, C. E., 1973, Satellite telemetry of fumarole temperatures, Mount Rainier, Washington.
- Moxham, R. M.; Crandell, D. R.; Marlatt, W. E., 1965, Thermal features at Mount Rainier, Washington, as revealed by infrared surveys.
- Mullineaux, D. R.; Sigafos, R. S.; Hendricks, E. L., 1969, A historic eruption of Mount Rainier, Washington.
- Schasse, H. W., compiler, 1987, Geologic map of the Mount Rainier quadrangle, Washington.
- Swenson, D. H., 1973, Geochemistry of three Cascade volcanoes.
- Unger, J. D.; Decker, R. W., 1970, The microearthquake activity of Mount Rainier, Washington.
- Unger, J. D.; Mills, K. F., 1972, Microearthquakes at Mt. Rainier, 1969.
- Vice, D. H., 1978, Data from the U.S. Geological Survey—Thermal IR imagery of the Rainier corridor in Washington, [Letter to C. W. Jordan].
- Vice, D. H., 1980, The Summit Creek geothermal prospect.
- Weaver, C. S., 1976, Seismic events on Cascade volcanoes
- Zimelman, D. R.; Rye, R. O., 1996, Dynamics of hydrothermal systems in an active stratovolcano—Mount Rainier, Washington [abstract].
- MOUNT ST. HELENS (SKAMANIA CO.) [GENERAL WORKS]**
- Note:* General works section does not include heat flow and thermal surveys or thermal and mineral waters. They are subdivided below.
- Beeson, M. H., 1981, Hydrothermal alteration in the Cascades.
- Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.
- Braile, L. W., 1970, The isostatic condition and crustal structure of Mount Saint Helens as determined from gravity data.
- Clement, W. V., 1985, Airborne video thermal infrared—Detection of geothermal areas on Mount St. Helens, Washington.
- Crandell, D. R., 1981, Volcanic hazards.
- Crandell, D. R.; Mullineaux, D. R., 1973, Pine Creek volcanic assemblage at Mount St. Helens, Washington.
- Crandell, D. R.; Mullineaux, D. R., 1978, Potential hazards from future eruptions of Mount St. Helens volcano, Washington.
- Crandell, D. R.; Mullineaux, D. R.; Rubin, Meyer, 1975, Mount St. Helens volcano—Recent and future behavior.
- Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal electricity generation; Draft.
- Fraser, D. C., 1983, Airborne electromagnetic surveys of the Cascade Range, western United States; with a preface by D. B. Hoover.
- Hardee, H. C., 1985, Shallow magma targets in the western U.S.
- Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.
- Holmes, Jenny; Waugh, Kathleen, 1983, Targeting geothermal exploration sites in the Mount St. Helens area using soil mercury surveys
- Hopson, C. A., 1971, Eruptive sequence at Mount St. Helens, Washington [abstract].
- Hyde, J. H., 1970, Geologic setting of Merrill Lake and evaluation of volcanic hazards in the Kalama River valley near Mount St. Helens, Washington.
- Hyde, J. H., 1973, Late Quaternary volcanic stratigraphy, south flank of Mount St. Helens, Washington.
- Hyde, J. H., 1975, Upper Pleistocene pyroclastic-flow deposits and lahars south of Mount St. Helens volcano, Washington.
- Ingebritsen, S. E.; Mariner, R. H.; Evans, W. C.; Hurwitz, S.; Schmidt, M. E., 2003, Hydrothermal discharge from volcanic areas in the western United States [abstract].
- Korosec, M. A., 1982, Geothermal implications of the Mount St. Helens volcano [abstract].
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal assessment of Mount St. Helens, Washington, 1979.
- Lipman, P. W.; Mullineaux, D. R., editors, 1981, The 1980 eruptions of Mount St. Helens, Washington.
- Mullineaux, D. R.; Crandell, D. R., 1962, Recent lahars from Mount St. Helens, Washington.

- Mullineaux, D. R.; Hyde, J. H.; Rubin, Meyer, 1972, Preliminary assessment of upper Pleistocene and Holocene pumiceous tephra from Mount St. Helens, southern Washington [abstract].
- Phillips, K. N., 1942, Fumaroles of Mount St. Helens and Mount Adams.
- Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.
- Schuster, J. E., 1981, A geothermal exploration philosophy for Mount St. Helens, (and other Cascade volcanoes?).
- Shevenell, Lisa; Goff, F. E., 1995, Evolution of hydrothermal waters at Mount St. Helens, Washington, USA.
- Thompson, J. M.; White, L. D.; Casadevall, T. J.; Maley, C. A.; Keith, T. E. C., 1985, Hot springs depositing travertine at Mount St. Helens [abstract].
- Unger, J. D.; Mills, K. F., 1973, Earthquakes near Mount St. Helens, Washington.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. St. Helens area, Washington.
- Verhoogen, Jean, 1937, Mount St. Helens—A recent Cascade volcano.
- Weaver, C. S., 1976, Seismic events on Cascade volcanoes
- Youngquist, Walter, 1980, Pacific Northwest geothermal—Review and outlook.
- MOUNT ST. HELENS – HEAT FLOW AND THERMAL SURVEYS**
- Blackwell, D. D.; Steele, J. L.; Schuster, J. E.; Korosec, M. A., 1980, The regional thermal setting of the Mt. St. Helens volcano [abstract].
- Dethier, D. P.; Frank, D. G.; Pevear, D. R., 1981, Preliminary chemical analysis of thermal waters at Mount St. Helens, Washington [abstract].
- Friedman, J. D., 1972, Aerial thermal surveillance of volcanoes of the Cascade Range, Washington, Oregon, and northern California [abstract].
- Friedman, J. D., 1982, Thermal energy at Mount St Helens [abstract].
- Friedman, J. D.; Frank, D. G., 1977, Thermal surveillance of active volcanoes using the LANDSAT-1 data collection system; Part III, Heat discharge from Mount St. Helens, Washington.
- Friedman, J. D.; Frank, D. G., 1981, Aerial infrared mapping of thermal activity at Cascade Range volcanoes [abstract].
- Friedman, J. D.; Frank, D. G.; Kieffer, H. H.; Sawatzky, D. L., 1981, Thermal infrared surveys of the May 18 crater, subsequent lava domes, and associated volcanic deposits.
- Friedman, J. D.; Olhoeft, G. R.; Johnson, G. R.; Frank, D. G., 1984, Thermal energy yield of Mt. St. Helens [abstract].
- Friedman, J. D.; Realmuto, V. J.; Frank, D. G., 1991, Comparison of thermal features of Cordilleran volcanoes using airborne sensing systems, with special reference to Mount St. Helens, WA [abstract].
- Ginsberg, I. W., 1982, Thermal infrared imagery of the Cascade Range volcanics.
- Kieffer, H. H.; Frank, D. G., 1980, Thermal infrared observations of Mt. St. Helens, March–May 1980 [abstract].
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D., 1980, Thermal infrared observations of Mt. St. Helens [abstract].
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D.; Sawatzky, D. L., 1984, Aerial infrared surveys at Mount St. Helens, Washington [abstract].
- Kieffer, H. H.; Friedman, J. D.; Frank, D. G., 1984, Thermal-infrared surveys, Cascades volcanoes [abstract].
- Korosec, M. A.; Schuster, J. E., 1980, Pre-eruption geothermal assessment activities at Mount St. Helens, Washington [abstract].
- Ryan, M. P.; Banks, N. G.; Hoblitt, R. P.; Blevins, J. Y. K., 1990, The in-situ thermal transport properties and the thermal structure of Mount St. Helens eruptive units.
- St. Lawrence, William; Qamar, Anthony; Moore, Johnnie; Kendrick, George, 1980, A comparison of thermal observations of Mount St. Helens before and during the first week of the initial 1980 eruption.
- Vice, D. H.; Gold, D. P., 1990, Some changes in the thermal and hydrologic regime in the area around Mt. St. Helens from 1977 to 1981 [abstract].
- MOUNT ST. HELENS – THERMAL AND MINERAL WATERS**
- Barnes, Ivan; Johnston, D. A.; Evans, W. C.; Presser, T. S.; Mariner, R. H.; White, L. D., 1981, Properties of gases and waters of deep origin near Mount St. Helens.
- Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.
- Dethier, D. P.; Frank, D. G.; Pevear, D. R., 1981, Preliminary chemical analysis of thermal waters at Mount St. Helens, Washington [abstract].
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.
- Shevenell, Lisa, 1990, Chemical and isotopic investigation of the new hydrothermal system at Mount St. Helens, Washington.
- Shevenell, Lisa, 1991, Tritium in the thermal waters discharging in Loowit Canyon, Mount St. Helens, Washington, U.S.A.
- Shevenell, Lisa; Goff, F. E., 1990, Condensation of magmatic volatiles into the hot spring waters of Loowit Canyon, Mt. St. Helens, Washington [abstract].
- Thompson, J. M., 1990, Chemical data from thermal and nonthermal springs in Mount St. Helens National Monument, Washington.
- Thompson, J. M.; White, L. D.; Maley, C. A., 1988, Thermal springs on Mount Saint Helens [abstract].
- Moxee Valley, see YAKIMA CO.**
- NORTH BONNEVILLE, WASH. (SKAMANIA CO.)**
- Allen, Eliot, and Associates, Inc., 1984, Heat plan for North Bonneville, Washington.
- Allen, Eliot, and Associates, Inc., 1985, Environmental assessment of geothermal district heating and cooling, Phase I in North Bonneville, Washington.
- Bloomquist, R. G., 2006, Bonneville Hot Springs Resort, North Bonneville, WA.
- Bundy, Don, 1981, North Bonneville sits on hot-water bonanza.
- Daneš, Z. F., 1980, Gravity results, North Bonneville area, Washington.
- Fornes, A. O., 1981, Direct-use geothermal district heating project in the U.S.—A summary.
- Kent Associates, 1981, Geothermal exploration project, Phase I—Temperature gradient drilling for City of North Bonneville, Washington, June, 1981.
- Kent Associates, 1982, City of North Bonneville, Washington, geothermal exploration project, production test well, Phase II.
- Kent, R. C., 1982, Thermal water encountered in lava flows at North Bonneville, Washington [abstract].
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- Nielson, D. L.; Moran, M. R., 1980, Geologic interpretation of the geothermal potential of the North Bonneville area.

OHANAPECOSH HOT SPRINGS (LEWIS CO.)

see also **THERMAL AND MINERAL WATERS**

Brook, C. A.; Mariner, R. H.; Mabey, D. R.; Swanson, J. R.; Guffanti, Marianne; Muffler, L. J. P., 1979, Hydrothermal convection systems with reservoir temperatures 90° C.

Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.

OKANOGAN CO.

see also **CASCADE RANGE or COLUMBIA BASIN, as appropriate.**

Callahan, O. A., 2007, Exhumation and topographic development of the Okanogan Range, northeast North Cascades.

Callahan, O. A.; Crider, Juliet; Reiners, Peter, 2007, Constraints on mid Cenozoic topography, exhumation and tectonics within the Okanogan Range, northeast North Cascades [abstract].

Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.

U.S. Geological Survey, 1977, Aeromagnetic map of part of northern Washington.

OKANOGAN RANGE – HEAT FLOW AND THERMAL SURVEYS

Callahan, O. A., 2007, Exhumation and topographic development of the Okanogan Range, northeast North Cascades.

Callahan, O. A.; Crider, Juliet; Reiners, Peter, 2007, Constraints on mid Cenozoic topography, exhumation and tectonics within the Okanogan Range, northeast North Cascades [abstract].

OLYMPIA, WASH. (THURSTON CO.)

Washington State Energy Office, 1987?, District heating and cooling.

OLYMPIC HOT SPRINGS (CLALLAM CO.)

see also **THERMAL AND MINERAL WATERS**

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

OLYMPIC MOUNTAINS AND OLYMPIC PENINSULA

see also **CLALLAM CO.**

Bogart, L. E.; Readdy, L. A., 1987, Importance of fault mapping to mineral/geothermal exploration—Relationship to fluid migration and ore formation—Northwest Washington.

Mariner, R. H.; Brook, C. A.; Reed, M. J.; Bliss, J. D.; Rapport, A. L.; Lieb, R. J., 1983, Low-temperature geothermal resources in the western United States.

Tabor, R. W.; Cady, W. M., 1978, Geologic map of the Olympic Peninsula, Washington.

OTHELLO, WASH. (ADAMS CO.)

Brown and Caldwell, 1981, Geothermal direct use feasibility study for City of Othello, Washington.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Oregon Institute of Technology Geo-Heat Center, 1982, Feasibility study for Adams County Fire Station, Othello, Washington.

PASCO BASIN

see also

**BENTON CO.
COLUMBIA BASIN
FRANKLIN CO.
WALLA WALLA CO.**

Benson, L. V., 1978, Secondary minerals, oxidation potentials, pressure and temperature gradients in the Pasco Basin of Washington State.

Ertec Western, Inc., 1981, Revisions to, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.

Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.

Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Bibliography.

Murphy, P. J.; Johnpeer, G. D., 1981, An assessment of geothermal resource potential Pasco Basin and vicinity, Washington.

Permits, see LAW AND LEGISLATION – LEASES AND PERMITS

PIERCE CO.

Note: Materials about Mount Rainier are not listed here. They are listed under **MOUNT RAINIER.**

see also **CASCADE RANGE**

Frank, D. G., 1995, Surficial extent and conceptual model of hydrothermal system at Mount Rainier, Washington.

Frank, D. G., 2000, Hydrothermal indicators in streams and springs at Mount Rainier [abstract].

Frank, D. G.; Realmuto, V. J., 1995, Leakage from the active hydrothermal system at Mount Rainier, Washington [abstract].

Griffin, W. C.; Sceva, J. E.; Swenson, H. A.; Mundorff, M. J., 1962, Water resources of the Tacoma area, Washington.

Lienau, P. J., 1986, Status of direct heat projects in western states.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Vice, D. H., 1978, Data from the U.S. Geological Survey—Thermal IR imagery of the Rainier corridor in Washington, [Letter to C. W. Jordan].

Vice, D. H., 1980, The Summit Creek geothermal prospect.

Washington State Energy Office, 1987?, District heating and cooling.

Washington State Energy Office, 1989, Building conversion to district heating.

Pipelines, see EQUIPMENT AND MATERIALS – TRANSMISSION AND DISTRIBUTION PIPELINES

POPULAR WORKS

Berryhill, I. M., 1975, Geothermal energy—A developing resource for Washington.

Bloomquist, R. G., 1980, Utilization of Washington's geothermal energy resources

Green, B. D.; Nix, R. G., 2006, Geothermal—The energy under our feet—Geothermal resource estimates for the United States.

Harper, Robert, 1982, Geothermal studies suggest energy prospects.

Rafferty, Kevin, 2001, Small geothermal systems—A guide for the do-it-yourselfer.

Schuster, J. E., 1974, The search for hot rocks

Power plants, see ELECTRIC POWER – GEOTHERMAL POWER PLANTS

Refrigeration, see INDUSTRIAL AND PROCESS APPLICATIONS

Regulatory aspects, see LAW AND LEGISLATION

REMOTE SENSING

Clement, W. V., 1985, Airborne video thermal infrared—Detection of geothermal areas on Mount St. Helens, Washington.

Friedman, J. D., 1972, Aerial thermal surveillance of volcanoes of the Cascade Range, Washington, Oregon, and northern California [abstract].

- Friedman, J. D., 1982, Thermal energy at Mount St. Helens [abstract].
- Friedman, J. D.; Frank, D. G., 1977, Thermal surveillance of active volcanoes using the LANDSAT-1 data collection system; Part III, Heat discharge from Mount St. Helens, Washington.
- Friedman, J. D.; Frank, D. G., 1980, Infrared surveys, radiant flux, and total heat discharge at Mount Baker volcano, Washington, between 1970 and 1975.
- Friedman, J. D.; Frank, D. G., 1981, Aerial infrared mapping of thermal activity at Cascade Range volcanoes [abstract].
- Friedman, J. D.; Frank, D. G.; Kieffer, H. H.; Sawatzky, D. L., 1981, Thermal infrared surveys of the May 18 crater, subsequent lava domes, and associated volcanic deposits.
- Friedman, J. D.; Realmuto, V. J.; Frank, D. G., 1991, Comparison of thermal features of Cordilleran volcanoes using airborne sensing systems, with special reference to Mount St. Helens, WA [abstract].
- Ginsberg, I. W., 1982, Thermal infrared imagery of the Cascade Range volcanics.
- Hawley, D. L.; Brewster, S. B., Jr., 1982, A thermal infrared survey of selected sites in the Cascade mountain range of California, Oregon and Washington, surveyed July 1981.
- Kieffer, H. H.; Frank, D. G., 1980, Thermal infrared observations of Mt. St. Helens, March–May 1980 [abstract].
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D., 1980, Thermal infrared observations of Mt. St. Helens [abstract].
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D.; Sawatzky, D. L., 1984, Aerial infrared surveys at Mount St. Helens, Washington [abstract].
- Moxham, R. M., 1970, Thermal features at volcanoes in the Cascade Range, as observed by aerial infrared surveys.
- Moxham, R. M.; Boynton, G. R.; Cote, C. E., 1973, Satellite telemetry of fumarole temperatures, Mount Rainier, Washington.
- Moxham, R. M.; Crandell, D. R.; Marlatt, W. E., 1965, Thermal features at Mount Rainier, Washington, as revealed by infrared surveys.
- Rosenfeld, C. L., 1976, Operational aerial surveillance of the Sherman Crater area, Mt. Baker, Washington [abstract].
- Shafer, D. S., 1980, Evaluation and implications of the thermal activity of Mt. Baker, Washington from aerial photographs and infrared images.
- Vice, D. H.; Gold, D. P., 1990, Some changes in the thermal and hydrologic regime in the area around Mt. St. Helens from 1977 to 1981 [abstract].
- RESEARCH AND DEVELOPMENT**
see also EXPLORATION AND EVALUATION
- Armstead, H. C. H., 1973, Geothermal energy—Review of research and development.
- Atlas Corporation, 1984, Proceedings; Eighth annual geothermal conference and workshop.
- Bacon, C. R., 1980, Goals are set for research in Cascades.
- Battocletti, Liz, 2003, Geothermal small business workbook.
- Crandell, D. R., 1981, Volcanic hazards.
- Duffield, W. A.; Guffanti, Marianne, 1981, The geothermal research program of the U.S. Geological Survey.
- Farhar, B. C.; Heimiller, D. M., 2003, Opportunities for near-term geothermal development on public lands in the western United States.
- Goldstein, N. E., 1984, Fracture detection and mapping for geothermal reservoir definition—An assessment of current technology, research, and research needs.
- Guffanti, Marianne; Muffler, L. J. P., 1985, Geothermal resources of the Cascades; USGS workshop.
- Guffanti, Marianne; Muffler, L. J. P., editors, 1985, Proceedings of the workshop on geothermal resources of the Cascade Range.
- Hartley, R. P., 1978, Pollution control guidance for geothermal energy development.
- Hickel, W. J., chairman; Denton, J. C., editor, 1972, Geothermal energy—A national proposal for geothermal resources research; Final report of the Geothermal Resources Research Conference, Seattle, 1972.
- Hunting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Kunze, J. F., 1978, Research and development toward abundant and economical geothermal energy in the Northwest [abstract].
- Lienau, P. J.; Culver, Gene; Rafferty, Kevin, 1990, Direct use R&D assistance; Final report, January 1988–September 1990.
- Lippmann, M. I., editor, 1988, Proceedings of the technical review on advances in geothermal reservoir technology—Research in progress.
- Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources.
- Meridian Corporation, coordinators, 1989, DOE research and development for the geothermal marketplace; Proceedings of the geothermal program review VII, March 21–23, 1989, San Francisco, CA.
- Priest, G. R., 1985, Continental scientific drilling—The Cascades as a target.
- Priest, G. R., 1987, Investigation of the thermal regime and geologic history of the Cascade volcanic arc—First phase of a program for scientific drilling in the Cascade Range.
- Priest, G. R.; Blackwell, D. D., 1984, Understanding thermal energy and dynamic processes in subduction-related volcanic arcs
- Spinney, P. J., 1984, Seattle City Light geothermal exploration studies.
- U.S. Department of Energy, 1991, The geothermal partnership—Industry, utilities, and government meeting the challenges of the 90's; Proceedings, Geothermal program review IX, 1991, San Francisco, CA.
- U.S. Department of Energy, 1995, Geothermal progress monitor—Report no. 17.
- U.S. Geological Survey, 1980, Cascade Range could produce thermal energy as well as volcanoes.
- Varnado, S. G., editor, 1980, Geothermal drilling and completion technology development program annual progress report, October 1979–September 1980.
- Reservoir evaluation, see EXPLORATION AND EVALUATION**
- RESOURCE PLANNING [GENERAL WORKS]**
Note: Includes materials on energy planning and development to meet regional demands for heating and power consumption.
- Bates, R. G., 1973, Bert Cole—Geothermal interview.
- Beer, Christine; Hederman, W. F., Jr.; Allman, D. W., 1984, Resource development—System design, construction and operation for geothermal direct use application.

- Blaydes & Associates, 2007, California geothermal energy collaborative—Expanding California's confirmed geothermal resources bases—Geothermal permitting guide.
- Bloomquist, R. G., 1995, Drafting a geothermal project for funding.
- Brown and Caldwell, 1981, Geothermal direct use feasibility study for City of Othello, Washington.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, Low-enthalpy geothermal resources for power generation.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.
- Derkey, P. D.; Johnson, B. R., 1995, Digital maps of low- to moderate-temperature geothermal springs and wells in the Pacific Northwest—A contribution to the Interior Columbia River Basin Ecosystem Management Project.
- Farhar, B. C.; Heimiller, D. M., 2003, Opportunities for near-term geothermal development on public lands in the western United States.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century.
- U.S. Department of Energy, 1980, Resource assessment/commercialization planning meeting, Salt Lake City, Utah, 1980.
- U.S. Forest Service, 1978, Gifford Pinchot National Forest—Final environmental impact statement, Upper Cispus Planning Unit, land management plan.
- Washington Department of Natural Resources, 1971, Papers presented at the First Northwest Conference on geothermal power.
- RESOURCE PLANNING – ELECTRIC POWER**
see also ELECTRIC POWER
- Aldrich, M. J.; Laughlin, A. W.; Gambill, D. T., 1981, Geothermal resource base of the world—A revision of the Electrical Power Research Institute's estimate.
- Atlas Corporation, 1984, Proceedings; Eighth annual geothermal conference and workshop.
- Bloomquist, R. G., 1981, A program for accelerating geothermal development in the State of Washington.
- Bloomquist, R. G., compiler, 1981, A proposal for Northwest geothermal development.
- Bloomquist, R. G.; Black, G. L.; Parker, D. S.; Sifford, A.; Simpson, S. J.; Street, L. V., 1985, Evaluation and ranking of geothermal resources for electrical generation or electrical offset in Idaho, Montana, Oregon, and Washington.
- Electric Power Research Institute, 1987, Proceedings; Tenth annual geothermal conference and workshop.
- Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal electricity generation; Draft.
- GeothermEx, Inc., 1987, Considerations for a program to confirm a 100-MW geothermal resource in the Pacific Northwest; Draft.
- Geyer, J. D.; Kellerman, L. M.; Bloomquist, R. G., 1989, Assessment of geothermal resources for electric power generation in the Pacific Northwest; Draft issue paper.
- Gruetter, J. G., 1971, Electric energy market supply in the Pacific Northwest.
- Johnson, V. V., 1980, Utility perspectives on northwest geothermal resources.
- La Fleur, Joe, 1983, An exploration overview.
- Lund, J. W.; Allen, E. M.; Higbee, C. V.; Lienau, P. J.; Phillips, Wayne; Shreve, Jim, 1980, Assessment of geothermal potential within the BPA marketing area, Contract No. DE-AC79-79BP15325, July, 1980.
- Northwest Power Planning Council, 1990, Confirmation agendas for geothermal, wind and solar resources.
- Seely, D. B., 1985, Geothermal assessment in the Bonneville Power Administration service area.
- U.S. Bonneville Power Administration, 1993, Resource programs final environmental impact statement.
- U.S. Energy Information Administration, 1991, Geothermal energy in the western United States and Hawaii—Resources and projected electricity generation supplies.
- RESOURCE PLANNING – HEATING**
see also HEATING
- Allen, Eliot, and Associates, Inc., 1981, Community heat plan addendum—Yakima, Washington heat atlas demonstration.
- Allen, Eliot, and Associates, Inc., 1981, Guide to a community heat plan—A geothermal energy application.
- Allen, Eliot, and Associates, Inc., 1982, Guide to a geothermal heat plan—A geothermal energy application.
- Creager, Kurt, 1984, Geothermal development and resource management in the Yakima Valley—A guidebook for local governments.
- Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VII, Geothermal space heating; Draft.
- RICHLAND, WASH. (BENTON CO.)**
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Richland, Washington—A study of district heating favorabilities.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.
- SAINT MARTINS HOT SPRINGS (SKAMANIA CO.)**
see also THERMAL AND MINERAL WATERS
- Nielson, D. L.; Moran, M. R., 1980, Geologic interpretation of the geothermal potential of the North Bonneville area.
- SEATTLE, WASH. (KING CO.)**
- Washington State Energy Office, 1989, Building conversion to district heating.
- Seismic surveys, see GEOPHYSICS – SEISMIC SURVEYS**
- SHIPHERDS HOT SPRINGS (SKAMANIA CO.)**
see also THERMAL AND MINERAL WATERS
- Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range.
- SKAGIT CO.**
see also CASCADE RANGE
- Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.
- SKAMANIA CO.**
Note: Materials about Mount St. Helens are not listed here. They are listed under **MOUNT ST. HELENS**.
see also CASCADE RANGE
- Allen, Eliot, and Associates, Inc., 1984, Heat plan for North Bonneville, Washington.

- Allen, Eliot, and Associates, Inc., 1985, Environmental assessment of geothermal district heating and cooling, Phase I in North Bonneville, Washington.
- Banks, N. G.; Bennett, C. A.; Schmidt, J. M., 1978, Maps of photo lineaments and geomorphic features in the Spirit Lake quadrangle, Washington.
- Barnett, D. B., 1986, The 1985 geothermal gradient drilling project for the State of Washington.
- Barnett, D. B., 1989, Geothermal drilling by the State of Washington in 1988.
- Barnett, D. B.; Korosec, M. A., 1986, Geothermal exploratory drilling by the State of Washington in 1985.
- Barnett, D. B.; Korosec, M. A., 1989, Results of the 1988 geothermal gradient test drilling project for the State of Washington.
- Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range
- Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.
- Bundy, Don, 1981, North Bonneville sits on hot-water bonanza.
- Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.
- Church, S. E.; Barnes, D. J., 1984, Indian Heaven Roadless Area, Washington.
- Daneš, Z. F., 1979, Bouguer gravity map, Camas area, Washington and Oregon.
- Daneš, Z. F., 1980, Gravity results, North Bonneville area, Washington.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.
- Fornes, A. O., 1981, Direct-use geothermal district heating project in the U.S.—A summary.
- Fraser, D. C., 1983, Airborne electromagnetic surveys of the Cascade Range, western United States; with a preface by D. B. Hoover.
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.
- Hardee, H. C., 1985, Shallow magma targets in the western U.S.
- Harle, D. S., 1974, Geology of the Babyshoe Ridge area, southern Cascades, Washington.
- Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.
- Hildreth, Wes; Fierstein, Judy; Miller, M. S., 1983, Mineral and geothermal resource potential of the Mount Adams Wilderness and contiguous roadless areas, Skamania and Yakima Counties, Washington.
- Hopkins, K. D., 1976, Geology of the south and east slopes of Mount Adams volcano, Cascade Range, Washington.
- Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington.
- Kent Associates, 1981, Geothermal exploration project, Phase I—Temperature gradient drilling for City of North Bonneville, Washington, June, 1981.
- Kent Associates, 1982, City of North Bonneville, Washington, geothermal exploration project, production test well, Phase II.
- Kent, R. C., 1982, Thermal water encountered in lava flows at North Bonneville, Washington [abstract].
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington.
- Korosec, M. A., compiler, 1987, Geologic map of the Hood River quadrangle, Washington and Oregon.
- Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington.
- Korosec, M. A.; Barnett, D. B., 1989, Geothermal resource exploration target area defined by Division drilling projects.
- Landes, Henry, 1905, Preliminary report on the underground waters of Washington.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Skamania County, Washington.
- McEuen, R. B.; Birkhahn, P. C.; Pinckney, C. J., 1975, Predictive regionalization of geothermal potential [abstract].
- Nielson, D. L.; Moran, M. R., 1980, Geologic interpretation of the geothermal potential of the North Bonneville area.
- Oregon Institute of Technology Geo-Heat Center, 1982, Geothermal heating facilities for Carson Elementary School and Wind River Middle School.
- Phillips, W. M., compiler, 1987, Geologic map of the Vancouver quadrangle, Washington.
- Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon.
- Schuster, J. E.; Blackwell, D. D.; Hammond, P. E.; Huntting, M. T., 1978, Heat flow studies in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Shevenell, Lisa; Goff, F. E., 1995, Evolution of hydrothermal waters at Mount St. Helens, Washington, USA.
- Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.
- Stricklin, C. R., 1975, Geophysical survey of the Lemei Rock–Steamboat Mountain area, Washington.
- U.S. Forest Service, 1978, Geothermal leasing and development, Gifford Pinchot National Forest; Draft environmental analysis report.
- U.S. Forest Service, 1978, Geothermal leasing and development on part of the Gifford Pinchot National Forest; Draft environmental statement.
- U.S. Forest Service, 1978, Gifford Pinchot National Forest—Final environmental impact statement, Upper Cispus Planning Unit, land management plan.
- U.S. Forest Service, 1979, Geothermal leasing and development on part of the Gifford Pinchot National Forest, Skamania County, Washington.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Indian Heaven area, Washington.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Adams area, Washington.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Margaret area, Washington.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. St. Helens area, Washington.
- Wise, W. S., 1961, The geology and mineralogy of the Wind River area, Washington, and the stability relations of celadonite.
- Wise, W. S., 1970, Cenozoic volcanism in the Cascade mountains of southern Washington.
- Youngquist, Walter, 1976, Pacific Northwest geothermal—Review and outlook.

SNOHOMISH CO.*see also* **CASCADE RANGE**

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.

Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.

Crowder, D. F.; Tabor, R. W.; Ford, A. B., 1966, Geologic map of the Glacier Peak quadrangle, Snohomish and Chelan Counties, Washington.

Ford, A. B., 1957, Petrology of the Sulphur Mountain area, Glacier Peak quadrangle, Washington.

Ford, A. B., 1959, Geology and petrology of the Glacier Peak quadrangle, northern Cascades, Washington.

Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.

Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.

Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.

Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.

Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.

Waldron, R. L., 1986, Hydrothermal alteration of the Gamma Ridge rocks, on Glacier Peak, and their relation to hot spring activity.

SOILS

Bockheim, J. G.; Ballard, T. M., 1975, Hydrothermal soils of the crater of Mount Baker, Washington.

Holmes, Jenny; Waugh, Kathleen, 1983, Targeting geothermal exploration sites in the Mount St. Helens area using soil mercury surveys

SOL DUC HOT SPRINGS (CLALLAM CO.)*see also* **THERMAL AND MINERAL WATERS**

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

Bloomquist, R. G., 2003, Sol Duc Hot Springs—The resort that refused to die.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Oregon Institute of Technology Geo-Heat Center, 1981, Sol Duc Hot Springs feasibility study (Washington), December, 1981.

Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States.

Space heating, see HEATING**SPOKANE CO.***see also* **COLUMBIA BASIN**

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Cheney, Washington—A study of district heating favorabilities.

Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.

Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.

STANDARDS

American Society for Testing and Materials, 1992, 1992 annual book of ASTM standards, section 12—Nuclear, solar, and geothermal energy.

Steamboat Mountain area, see SKAMANIA CO.**STEVENS CO.**

Steele, J. L., 1975, A heat flow study in the Turtle Lake quadrangle, Washington.

SULPHUR HOT SPRINGS (SNOHOMISH CO.)*see also* **THERMAL AND MINERAL WATERS**

Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.

Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.

Sulphur Mountain area, see SNOHOMISH CO.**SUMMIT CREEK SODA SPRING (LEWIS CO.)***see also* **THERMAL AND MINERAL WATERS**

Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.

SUNNYSIDE, WASH. (YAKIMA CO.)

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Sunnyside, Washington—A study of district heating favorabilities.

Allen, Eliot, and Associates, Inc.; Engineering Resources, Ltd., 1984, Feasibility study of geothermal district heating and cooling in Sunnyside, Washington.

Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.

TACOMA, WASH. (PIERCE CO.)

Griffin, W. C.; Sceva, J. E.; Swenson, H. A.; Mundorff, M. J., 1962, Water resources of the Tacoma area, Washington.

Lienau, P. J., 1986, Status of direct heat projects in western states.

Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.

Washington State Energy Office, 1987?, District heating and cooling.

Washington State Energy Office, 1989, Building conversion to district heating.

THERMAL AND MINERAL WATERS

Note: Works in this section include data on water with temperatures $\geq 20^{\circ}\text{C}$.

*see also***BAKER HOT SPRING****CARSON HOT SPRINGS****GAMMA HOT SPRING****GREEN RIVER SODA SPRINGS****KENNEDY HOT SPRING****LESTER HOT SPRINGS****LOOWIT HOT SPRINGS****MOFFETTS HOT SPRINGS****MOUNT SAINT HELENS –****THERMAL AND MINERAL WATERS****OHANAPECOSH HOT SPRINGS****OLYMPIC HOT SPRINGS****SAINT MARTINS HOT SPRINGS****SHIPHERDS HOT SPRINGS****SOL DUC HOT SPRINGS****SULPHUR HOT SPRINGS****SUMMIT CREEK SODA SPRING****WATER WELLS****WELL LOGS****THERMAL AND MINERAL WATERS [STATEWIDE AND GENERAL WORKS]**

Berry, G. W.; Grim, P. J.; Ikelman, J. A., compilers, 1980, Thermal springs list for the United States—National Oceanic and Atmospheric Administration key to geophysical records documentation no. 12.

- Blackwell, D. D., 1980, Heat flow and geothermal gradient measurements in Washington to 1979, and temperature-depth data collected during 1979.
- Bliss, J. D., 1983, Washington State—Basic data for thermal springs and wells as recorded in GEOTHERM.
- Bloomquist, R. G., 2006, Bonneville Hot Springs Resort, North Bonneville, WA.
- Bogart, L. E.; Readdy, L. A., 1987, Importance of fault mapping to mineral/geothermal exploration—Relationship to fluid migration and ore formation—Northwest Washington.
- Campbell, K. V.; Miers, J. H.; Nichols, B. M.; Oliphant, Jerrelyn; Pytlak, Shirley; Race, R. W.; Shaw, G. H.; Gresens, R. L., 1970, A survey of thermal springs in Washington State.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, Low-enthalpy geothermal resources for power generation.
- Collings, M. R.; Higgins, G. T., 1973, Stream temperatures in Washington State.
- Derkey, P. D.; Johnson, B. R., 1995, Digital maps of low- to moderate-temperature geothermal springs and wells in the Pacific Northwest—A contribution to the Interior Columbia River Basin Ecosystem Management Project.
- Frank, D. G., 1995, Surficial extent and conceptual model of hydrothermal system at Mount Rainier, Washington.
- Frank, D. G., 2000, Hydrothermal indicators in streams and springs at Mount Rainier [abstract].
- Frank, D. G.; Realmuto, V. J., 1995, Leakage from the active hydrothermal system at Mount Rainier, Washington [abstract].
- Korosec, M. A., 1980, Table of thermal and mineral spring locations in Washington.
- Korosec, M. A., 1980, Thermal and mineral spring investigations, 1978–1979 (surveys and analyses).
- Korosec, M. A., 1980, Well temperature information and locations in the State of Washington.
- Korosec, M. A., 1982, Table of chemical analyses for thermal and mineral spring and well waters collected in 1980 and 1981.
- Korosec, M. A., 1983, Surveys and geochemical analyses of thermal and mineral springs in Washington, 1980–1981.
- Korosec, M. A., 1984, Chemical analyses for thermal and mineral springs examined in 1982–1983.
- Korosec, M. A.; Kaler, K. L., 1980, Well temperature information and locations in the State of Washington.
- Korosec, M. A.; Phillips, W. M., 1982, WELLTHERM—Temperature, depth, and geothermal gradient data for wells in Washington State.
- Korosec, M. A.; Schuster, J. E.; and others, 1980, The 1979–1980 geothermal resource assessment program in Washington.
- Landes, Henry, 1905, Preliminary report on the underground waters of Washington.
- Laney, Patrick; Brizzee, Julie, 2003, Washington geothermal resources.
- Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.
- Mariner, R. H.; Brook, C. A.; Reed, M. J.; Bliss, J. D.; Rapport, A. L.; Lieb, R. J., 1983, Low-temperature geothermal resources in the western United States.
- Mariner, R. H.; Presser, T. S.; Evans, W. C., 1982, Chemical and isotopic composition of water from thermal and mineral springs of Washington.
- Nehring, N. L.; Bowen, P. A.; Truesdell, A. H., 1977, Techniques for the conversion to carbon dioxide of oxygen from dissolved sulfate in thermal waters.
- Nehring, N. L.; Mariner, R. H.; White, L. D.; Huebner, M. A.; Roberts, E. D.; Harmon, Karen; Bowen, P. A.; Tanner, Lane, 1979, Sulfate geothermometry of thermal waters in the western United States.
- Nehring, N. L.; Roberts, E. D.; Kaczanowski, G., 1979, Geothermometry applied to hot springs in western United States [abstract].
- Panichi, C.; La Ruffa, G., 2001, Stable isotope geochemistry of fumaroles—An insight into volcanic surveillance.
- Reed, M. J., editor, 1983, Assessment of low-temperature geothermal resources of the United States—1982.
- Reed, M. J.; Mariner, R. H.; Brook, C. A.; Sorey, M. L., 1983, Selected data for low-temperature (less than 90° C) geothermal systems in the United States—Reference data for U.S. Geological Survey Circular 892.
- Russell, R. H., 1973, Geothermal energy potential of Washington State
- Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States.
- Schuster, J. E., 1974, Geothermal energy potential of Washington.
- Schuster, J. E.; Bloomquist, R. G., 1995, Low-temperature geothermal resources of Washington [abstract].
- spinics.net, 2005, Hot springs of the United States—Washington.
- Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.
- Valentine, G. M., 1960, Mineral waters.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- Warfel, M. R., 1995, Application of groundwater-source heat pumps for heating and cooling in Washington State [abstract].
- Waring, G. A., 1965, Thermal springs of the United States and other countries of the world—A summary; revised by R. R. Blankenship and Ray Bental.

THERMAL AND MINERAL WATERS – CASCADE RANGE

- Barnes, Ivan; Johnston, D. A.; Evans, W. C.; Presser, T. S.; Mariner, R. H.; White, L. D., 1981, Properties of gases and waters of deep origin near Mount St. Helens.
- Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range
- Blackwell, D. D.; Priest, G. R., 1996, Comment on “Rates and patterns of groundwater flow in the Cascade Range volcanic arc and the effect on subsurface temperatures” by S. E. Ingebritsen, D. R. Sherrod, and R. H. Mariner.
- Britton, J. M.; Forster, C.; Fairbank, B. D., 1984, Report on Mt. Baker geothermal project, Whatcom County, Washington; 1984 exploration program (Phase IIb).
- Brook, C. A.; Mariner, R. H.; Mabey, D. R.; Swanson, J. R.; Guffanti, Marianne; Muffler, L. J. P., 1979, Hydrothermal convection systems with reservoir temperatures 90° C.
- Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington.
- Church, S. E.; Barnes, D. J., 1984, Indian Heaven Roadless Area, Washington.
- Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.

- Dethier, D. P.; Frank, D. G.; Pevear, D. R., 1981, Preliminary chemical analysis of thermal waters at Mount St. Helens, Washington [abstract].
- Forcella, L. S., 1982, Geochemistry of thermal and mineral waters in the Cascade mountains of western North America.
- Frank, D. G., 1985, Hydrothermal processes at Mount Rainier, Washington.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.
- Grose, L. T., 1975, Geothermal energy—Geology, exploration, and developments; Part I.
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range.
- Hammond, P. E., compiler, 1974, Brief outline to volcanic stratigraphy and guide to geology of southern Cascade Range, Washington and northern Cascade Range, Oregon—Guidebook for geothermal field trip, June 24–29, 1974.
- Hildreth, Wes; Fierstein, Judy, 1990, Geologic map and geothermal assessment of the Mount Adams volcanic field, Cascade Range of southern Washington.
- Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, M. E., 2003, Groundwater flow, heat transport, and water table position within volcanic edifices—Implications for volcanic processes in the Cascade Range.
- Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, Mark, 2003, Water-table elevation within volcanic edifices along the Cascade Range—Insights from numerical simulations [abstract].
- Kent, R. C., 1982, Thermal water encountered in lava flows at North Bonneville, Washington [abstract].
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.
- Mariner, R. H.; Evans, W. C.; Presser, T. S.; White, L. D., 2003, Excess nitrogen in selected thermal and mineral springs of the Cascade Range in northern California, Oregon, and Washington—Sedimentary or volcanic in origin?
- Mariner, R. H.; Presser, T. S.; Evans, W. C., 1993, Geothermometry and water–rock interaction in selected thermal systems in the Cascade Range and Modoc Plateau, western United States.
- Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1989, Discharge rates of thermal fluids in the Cascade Range of Oregon and Washington and their relationship to the geologic environment.
- Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1990, Discharge rates of fluid and heat by thermal springs of the Cascade Range, Washington, Oregon, and northern California.
- Nielson, D. L.; Moran, M. R., 1980, Geologic interpretation of the geothermal potential of the North Bonneville area.
- Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.
- Shevenell, Lisa, 1990, Chemical and isotopic investigation of the new hydrothermal system at Mount St. Helens, Washington.
- Shevenell, Lisa, 1991, Tritium in the thermal waters discharging in Loowit Canyon, Mount St. Helens, Washington, U.S.A.
- Shevenell, Lisa; Goff, F. E., 1990, Condensation of magmatic volatiles into the hot spring waters of Loowit Canyon, Mt. St. Helens, Washington [abstract].
- Shevenell, Lisa; Goff, F. E., 1995, Evolution of hydrothermal waters at Mount St. Helens, Washington, USA.
- Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of Late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington.
- Thompson, J. M., 1990, Chemical data from thermal and nonthermal springs in Mount St. Helens National Monument, Washington.
- Thompson, J. M.; White, L. D.; Maley, C. A., 1988, Thermal springs on Mount Saint Helens [abstract].
- Waldron, R. L., 1986, Hydrothermal alteration of the Gamma Ridge rocks, on Glacier Peak, and their relation to hot spring activity.
- THERMAL AND MINERAL WATERS – COLUMBIA BASIN**
- Biggane, J. H., 1981, The low temperature geothermal resources of the Yakima region—A preliminary report.
- Biggane, J. H.; Washington Division of Geology and Earth Resources staff, 1983, Geohydrologic studies of the Yakima valley area, Washington.
- Bortleson, G. C.; Cox, S. E., 1986, Occurrence of dissolved sodium in ground waters in basalts underlying the Columbia plateau, Washington.
- Brown, J. C., 1979, Geology and water resources of Klickitat County.
- Brown, J. C., 1980, Stratigraphy and ground-water hydrology of selected areas, Columbia plateau, Washington.
- Cline, D. R., 1976, Reconnaissance of the water resources of the upper Klickitat River basin, Yakima Indian Reservation, Washington.
- Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature.
- Ertec Western, Inc., 1981, Revisions to, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Foxworthy, B. L., 1962, Geology and ground-water resources of the Ahtanum Valley, Yakima County, Washington.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Hearn, P. P.; Steinkampf, W. C.; Bortleson, G. C.; Drost, B. W., 1985, Geochemical controls on dissolved sodium in basalt aquifers of the Columbia plateau, Washington.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1983, The low temperature geothermal resources of eastern Washington.
- Newcomb, R. C., 1965, Geology and ground-water resources of the Walla Walla River basin, Washington–Oregon.
- Newcomb, R. C., 1972, Quality of the ground water in basalt of the Columbia River group, Washington, Oregon, and Idaho.
- Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State.
- Robinette, M. S.; Robinette, M. J.; Brown, J. C., 1977, Geophysical investigations of Washington's ground-water resources; Annual report 1975/1976.
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.
- Schuster, J. E.; Bloomquist, R. G., 1994, Low-temperature geothermal resources of Washington.
- Smith, G. O., 1901, Geology and water resources of a portion of Yakima County, Washington.
- Stoffel, K. L.; Korosec, M. A., 1984, Low temperature geothermal resources of the Columbia Basin, eastern Washington.

- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.
- Walkey, Clifton, 1984, Geochemistry and structural setting of a geothermal spring located north of the Washington–Oregon border proximate to the Snake River.
- Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington.
- Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.
- THERMAL AND MINERAL WATERS – OLYMPIC MOUNTAINS AND OLYMPIC PENINSULA**
- Bloomquist, R. G., 2003, Sol Duc Hot Springs—The resort that refused to die.
- Oregon Institute of Technology Geo-Heat Center, 1981, Sol Duc Hot Springs feasibility study (Washington), December, 1981.
- THERMAL AND MINERAL WATERS – PUGET LOWLAND**
- Griffin, W. C.; Sceva, J. E.; Swenson, H. A.; Mundorff, M. J., 1962, Water resources of the Tacoma area, Washington.
- THERMAL AND MINERAL WATERS – SOUTHWESTERN WASHINGTON**
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal investigations in the Camas area, Washington, 1979.
- Vice, D. H., 1980, The Pigeon Springs geothermal prospect, Cowlitz Co., Washington.
- Thermal surveys, see GEOPHYSICS – HEAT FLOW AND THERMAL SURVEYS**
- THURSTON CO.**
- Washington State Energy Office, 1987?, District heating and cooling.
- Tieton volcano, see YAKIMA CO.**
- Tumac Mountain and Tumac plateau, see WHITE PASS AREA**
- VANCOUVER, WASH. (CLARK CO.)**
- Lienau, P. J., 1986, Status of direct heat projects in western states.
- Lienau, P. J.; Culver, Gene; Lund, I. W., 1988, Geothermal direct use developments in the United States, August 1988.
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.
- Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, 1987, Geothermal pipeline—Washington—Clark College uses 50° F for district heating.
- VOLCANISM [GENERAL WORKS]**
- Note:* Works on specific volcanoes and volcanic areas are not included here.
- see also*
- GLACIER PEAK AREA
INDIAN HEAVEN AREA
MOUNT ADAMS
MOUNT BAKER
MOUNT RAINIER
MOUNT ST. HELENS
WHITE PASS AREA**
- see also*
- CASCADE RANGE**
- Grose, L. T., 1975, Geothermal energy—Geology, exploration, and developments; Part I.
- Hammond, P. E., compiler, 1974, Brief outline to volcanic stratigraphy and guide to geology of southern Cascade Range, Washington and northern Cascade Range, Oregon—Guidebook for geothermal field trip, June 24–29, 1974.
- Hammond, P. E.; Bentley, R. D.; Brown, J. C.; Ellingson, J. A.; Swanson, D. A., 1977, Volcanic stratigraphy and structure of the southern Cascade Range, Washington—Field trip no. 4.
- Hammond, P. E.; Korosec, M. A., 1983, Progress report on the time-space-composition model for the Quaternary volcanics of the south Cascades, Washington.
- Hammond, P. E.; Pedersen, S. A.; Hopkins, K. D.; Aiken, Dan; Harle, D. S.; Daneš, Z. F.; Konicek, D. L.; Stricklin, C. R., 1976, Geology and gravimetry of the Quaternary basaltic volcanic field, southern Cascade Range, Washington.
- Hawley, D. L.; Brewster, S. B., Jr., 1982, A thermal infrared survey of selected sites in the Cascade mountain range of California, Oregon and Washington, surveyed July 1981.
- Hazard Monthly, 1980, Geothermal energy from Cascade volcanoes.
- Heiken, Grant; Goff, F. E.; Cremer, Glenda, editors, 1982, Hot dry rock geothermal resource 1980.
- Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, M. E., 2003, Groundwater flow, heat transport, and water table position within volcanic edifices—Implications for volcanic processes in the Cascade Range.
- Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, Mark, 2003, Water-table elevation within volcanic edifices along the Cascade Range—Insights from numerical simulations [abstract].
- Ingebritsen, S. E.; Mariner, R. H.; Evans, W. C.; Hurwitz, S.; Schmidt, M. E., 2003, Hydrothermal discharge from volcanic areas in the western United States [abstract].
- Iyer, H. M., 1985, Characteristics of Cascades magmatic systems determined from teleseismic-residual studies.
- Korosec, M. A.; McLucas, G. B., compilers, 1980, Quaternary volcanics and volcanic centers in the State of Washington.
- MacLeod, N. S.; Swanson, D. A., 1985, Volcanism in the Cascade Range.
- Mariner, R. H.; Evans, W. C.; Presser, T. S.; White, L. D., 2003, Excess nitrogen in selected thermal and mineral springs of the Cascade Range in northern California, Oregon, and Washington—Sedimentary or volcanic in origin?
- Moxham, R. M., 1970, Thermal features at volcanoes in the Cascade Range, as observed by aerial infrared surveys.
- Muffler, L. J. P., 1987, Geothermal studies of the U.S. Geological Survey in the Cascade Range.
- Muffler, L. J. P.; Bacon, C. R.; Duffield, W. A., 1982, Geothermal systems of the Cascade Range.
- Priest, G. R., 1987, Geothermal resource potential of Cascade volcanic arc [abstract].
- Smith, J. G., 1987, New compilation geologic map of the Cascade Range in Washington.
- Smith, R. L.; Shaw, H. R., 1975, Igneous related geothermal systems.
- U.S. Geological Survey, 1995, Aerial infrared surveys in the investigation of geothermal and volcanic heat sources.
- Wise, W. S., 1970, Cenozoic volcanism in the Cascade mountains of southern Washington.
- Wohletz, Kenneth; Heiken, Grant, 1992, Volcanology and geothermal energy.
- Zimbelman, D. R.; Rye, R. O., 1996, Dynamics of hydrothermal systems in an active stratovolcano—Mount Rainier, Washington [abstract].
- VOLCANISM – FUMARoles**
- Fowler, C. S., 1935, The origin of the sulfur deposits of Mount Adams.
- Frank, D. G., 1995, Surficial extent and conceptual model of hydrothermal system at Mount Rainier, Washington.

- Frank, D. G.; Realmuto, V. J., 1995, Leakage from the active hydrothermal system at Mount Rainier, Washington [abstract].
- Kiver, E. P., 1978, Geothermal ice caves and fumaroles, Mount Baker volcano, 1974–77 [abstract].
- Kiver, E. P., 1978, Mount Baker's changing fumaroles.
- Kiver, E. P.; Snavelly, J.; Snavelly, D. F., 1977, Hydrogen sulfide fumes at the summit of Mount Rainier volcano, Washington.
- McLane, J. E.; Finkelman, R. B.; Larson, R. R., 1976, Mineralogical examination of particulate matter from the fumaroles of Sherman Crater, Mt. Baker, Washington [abstract].
- Panichi, C.; La Ruffa, G., 2001, Stable isotope geochemistry of fumaroles—An insight into volcanic surveillance.
- Phillips, K. N., 1942, Fumaroles of Mount St. Helens and Mount Adams.
- Radke, L. F.; Hobbs, P. V.; Stith, J. L., 1976, Airborne measurements of gases and aerosols from volcanic vents on Mt. Baker.
- Sato, Motoaki; Malone, S. D.; Moxham, R. M.; McLane, J. E., 1976, Monitoring of fumarolic gas at Sherman Crater, Mt. Baker, Washington [abstract].
- VOLCANISM – GEOLOGIC HAZARDS**
- Crandell, D. R., 1971, Postglacial lahars from Mount Rainier volcano, Washington.
- Crandell, D. R., 1973, Map showing potential hazards from future eruptions of Mount Rainier, Washington.
- Crandell, D. R., 1976, Preliminary assessment of volcanic hazards from future volcanic eruptions in Washington.
- Crandell, D. R.; Mullineaux, D. R., 1978, Potential hazards from future eruptions of Mount St. Helens volcano, Washington.
- Crandell, D. R.; Mullineaux, D. R.; Rubin, Meyer, 1975, Mount St. Helens volcano—Recent and future behavior.
- Crandell, D. R.; Waldron, H. H., 1956, A Recent volcanic mudflow of exceptional dimensions from Mt. Rainier, Washington.
- Cullen, J. M., 1978, Impact of a major eruption of Mount Rainier on public service delivery systems in the Puyallup Valley, Washington.
- Hyde, J. H., 1970, Geologic setting of Merrill Lake and evaluation of volcanic hazards in the Kalama River valley near Mount St. Helens, Washington.
- Hyde, J. H.; Crandell, D. R., 1975, Origin and age of postglacial deposits and assessment of potential hazards from future eruptions of Mount Baker, Washington.
- Hyde, J. H.; Crandell, D. R., 1978, Postglacial volcanic deposits at Mount Baker, Washington, and potential hazards from future eruptions.
- VOLCANISM – GEOTHERMAL ICE CAVES**
- Kiver, E. P., 1976, Washington's geothermal ice caves.
- Kiver, E. P., 1978, Geothermal ice caves and fumaroles, Mount Baker volcano, 1974–77 [abstract].
- Kiver, E. P.; Steele, W. K., 1975, Geothermally produced ice caves, Mount Baker, Washington [abstract].
- WALLA WALLA CO.**
- see also*
- COLUMBIA BASIN
PASCO BASIN**
- Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.
- Newcomb, R. C., 1965, Geology and ground-water resources of the Walla Walla River basin, Washington–Oregon.
- Riley Engineering, Inc., 1984, Geothermal water source, heat pump feasibility study, Washington State Penitentiary, Walla Walla, Washington.
- Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- WALLA WALLA, WASH.
(WALLA WALLA CO.)**
- Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.
- Riley Engineering, Inc., 1984, Geothermal water source, heat pump feasibility study, Washington State Penitentiary, Walla Walla, Washington.
- Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States.
- WATER WELLS**
- see also*
- THERMAL AND MINERAL
WATERS
WELL LOGS**
- Biggane, J. H., 1983, Geophysical logs from water wells in the Yakima area, Washington.
- Biggane, J. H.; Washington Division of Geology and Earth Resources staff, 1983, Geohydrologic studies of the Yakima valley area, Washington.
- Brown, J. C., 1979, Geology and water resources of Klickitat County.
- Brown, J. C., 1980, Stratigraphy and ground-water hydrology of selected areas, Columbia plateau, Washington.
- Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature.
- Derkey, P. D.; Johnson, B. R., 1995, Digital maps of low- to moderate-temperature geothermal springs and wells in the Pacific Northwest—A contribution to the Interior Columbia River Basin Ecosystem Management Project.
- Griffin, W. C.; Sceva, J. E.; Swenson, H. A.; Mundorff, M. J., 1962, Water resources of the Tacoma area, Washington.
- Korosec, M. A., 1980, Well temperature information and locations in the State of Washington.
- Korosec, M. A., 1982, Table of chemical analyses for thermal and mineral spring and well waters collected in 1980 and 1981.
- Korosec, M. A., 1983, Surveys and geochemical analyses of thermal and mineral springs in Washington, 1980–1981.

- Korosec, M. A.; Phillips, W. M., 1982, WELLTHERM—Temperature, depth, and geothermal gradient data for wells in Washington State.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1982, The low temperature geothermal resources of eastern Washington.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.
- Lienau, P. J., 1992, Data acquisition for low-temperature geothermal well tests and long-term monitoring.
- Luzier, J. E., 1969, Ground-water occurrence in the Goldendale area, Klickitat County, Washington.
- Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State.
- Robinette, M. S.; Robinette, M. J.; Brown, J. C., 1977, Geophysical investigations of Washington's ground-water resources; Annual report 1975/1976.
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.
- Schuster, J. E.; Bloomquist, R. G., 1994, Low-temperature geothermal resources of Washington.
- Schuster, J. E.; Bloomquist, R. G., 1995, Low-temperature geothermal resources of Washington [abstract].
- Stoffel, K. L.; Korosec, M. A., 1984, Low temperature geothermal resources of the Columbia Basin, eastern Washington.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- Vice, D. H., 1978, Tieton geothermal prospect.
- Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington.
- Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.
- Well drilling and construction, *see* EQUIPMENT AND MATERIALS – DRILLING**
- WELL LOGS**
- see also*
- THERMAL AND MINERAL WATERS**
- WATER WELLS**
- Biggane, J. H., 1981, The low temperature geothermal resources of the Yakima region—A preliminary report.
- Biggane, J. H., 1982, The low-temperature geothermal resource and stratigraphy of portions of Yakima County, Washington.
- Biggane, J. H., 1983, Geophysical logs from water wells in the Yakima area, Washington.
- Blackwell, D. D., 1980, Heat flow and geothermal gradient measurements in Washington to 1979, and temperature-depth data collected during 1979.
- Bortleson, G. C.; Cox, S. E., 1986, Occurrence of dissolved sodium in ground waters in basalts underlying the Columbia plateau, Washington.
- Brown, J. C., 1979, Geology and water resources of Klickitat County.
- Ertec Western, Inc., 1981, Revisions to, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Foxworthy, B. L., 1962, Geology and ground-water resources of the Ahtanum Valley, Yakima County, Washington.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State.
- Hearn, P. P.; Steinkampf, W. C.; Bortleson, G. C.; Drost, B. W., 1985, Geochemical controls on dissolved sodium in basalt aquifers of the Columbia plateau, Washington.
- Hunting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington.
- Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington.
- Kent Associates, 1981, 1981 geothermal drilling project for State of Washington, Department of Natural Resources, Division of Geology and Earth Resources.
- Korosec, M. A., 1980, Well temperature information and locations in the State of Washington.
- Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington.
- Korosec, M. A.; Barnett, D. B., 1989, Geothermal resource exploration target area defined by Division drilling projects.
- Korosec, M. A.; Kaler, K. L., 1980, Well temperature information and locations in the State of Washington.
- Korosec, M. A.; Phillips, W. M., 1982, WELLTHERM—Temperature, depth, and geothermal gradient data for wells in Washington State.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1982, The low temperature geothermal resources of eastern Washington.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1983, The low temperature geothermal resources of eastern Washington.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.
- Landes, Henry, 1905, Preliminary report on the underground waters of Washington.
- Luzier, J. E., 1969, Ground-water occurrence in the Goldendale area, Klickitat County, Washington.
- Newcomb, R. C., 1965, Geology and ground-water resources of the Walla Walla River basin, Washington–Oregon.
- Newcomb, R. C., 1972, Quality of the ground water in basalt of the Columbia River group, Washington, Oregon, and Idaho.
- Olson, H. J., 1994, Geothermal reservoir assessment based on slim hole drilling.
- Reed, M. J.; Mariner, R. H.; Brook, C. A.; Sorey, M. L., 1983, Selected data for low-temperature (less than 90° C) geothermal systems in the United States—Reference data for U.S. Geological Survey Circular 892.
- Robinette, M. S.; Robinette, M. J.; Brown, J. C., 1977, Geophysical investigations of Washington's ground-water resources; Annual report 1975/1976.
- Smith, G. O., 1901, Geology and water resources of a portion of Yakima County, Washington.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Fluid-temperature logs for selected wells in eastern Washington.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Geophysical logs of selected wells in eastern Washington.
- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.

Vice, D. H., 1976, Black Diamond geothermal prospect, King Co., Washington.

Vice, D. H., 1978, Tieton geothermal prospect.

Widness, S. E., 1983, Low temperature geothermal resource evaluation of the Moses Lake–Ritzville–Connell area, Washington.

Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington.

WENATCHEE NATIONAL FOREST

Church, S. E.; Stotelmeyer, R. B., 1984, Glacier Peak Wilderness study area, Washington.

Vice, D. H., 1978, Tieton geothermal prospect.

WEST RICHLAND, WASH. (BENTON CO.)

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for West Richland, Washington—A study of district heating favorabilities.

Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.

WHATCOM CO.

Note: Materials about Mount Baker are not listed here. They are listed under **MOUNT BAKER**.

see also **CASCADE RANGE**

Brook, C. A.; Mariner, R. H.; Mabey, D. R.; Swanson, J. R.; Guffanti, Marianne; Muffler, L. J. P., 1979, Hydrothermal convection systems with reservoir temperatures 90° C.

Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal electricity generation; Draft.

Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VII, Geothermal space heating; Draft.

Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington.

Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters.

Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.

WHITE PASS AREA

Clayton, G. A., 1980, Geology of White Pass–Tumac Mountain area, Washington.

Clayton, G. A., 1982, Pliocene and Pleistocene volcanism in the White Pass area, south Cascade Range Washington, and its implications for models of subductions beneath the southern Washington Cascades [abstract].

Clayton, G. A., 1983, Geology of the White Pass area, south-central Cascade Range, Washington.

Clayton, G. A., 1983, Pliocene and Pleistocene volcanic history of the White Pass–Tumac Plateau region, Washington.

Ellingson, J. A., 1968, Late Cenozoic volcanic geology of the White Pass–Goat Rocks area, Cascade mountains, Washington.

Ellingson, J. A., 1969, Geology of the Goat Rocks volcano, southern Cascade mountains, Washington [abstract].

Ellingson, J. A., 1972, The rocks and structure of the White Pass area, Washington.

WHITMAN CO.

see also **COLUMBIA BASIN**

Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature.

Landes, Henry, 1905, Preliminary report on the underground waters of Washington.

WIND RIVER AREA (SKAMANIA CO.)

Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range

Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.

Wise, W. S., 1961, The geology and mineralogy of the Wind River area, Washington, and the stability relations of celadonite.

YAKIMA CO.

see also **CASCADE RANGE or COLUMBIA BASIN, as appropriate.**

Allen, E. M., 1982, The effects of urban land-use policies on geothermal district heating feasibilities in U.S. cities.

Allen, Eliot, and Associates, Inc., [no date], Geothermal end-use assessment guide for communities; Draft.

Allen, Eliot, and Associates, Inc., 1981, Community heat plan addendum—Yakima, Washington heat atlas demonstration.

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Grandview, Washington—A study of district heating favorabilities.

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Sunnyside, Washington—A study of district heating favorabilities.

Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Yakima, Washington—A study of district heating favorabilities.

Allen, Eliot, and Associates, Inc.; Engineering Resources, Ltd., 1984, Feasibility study of geothermal district heating and cooling in Sunnyside, Washington.

Barnett, D. B., 1986, The 1985 geothermal gradient drilling project for the State of Washington.

Barnett, D. B.; Korosec, M. A., 1986, Geothermal exploratory drilling by the State of Washington in 1985.

Biggane, J. H., 1981, The low temperature geothermal resources of the Yakima region—A preliminary report.

Biggane, J. H., 1982, The low-temperature geothermal resource and stratigraphy of portions of Yakima County, Washington.

Biggane, J. H., 1983, Geophysical logs from water wells in the Yakima area, Washington.

Biggane, J. H.; Washington Division of Geology and Earth Resources staff, 1983, Geohydrologic studies of the Yakima valley area, Washington.

Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status.

Ciancanelli, E. V., 1987, Geology and geothermal resource potential of Mt. Adams volcano, Washington.

Clayton, G. A., 1980, Geology of White Pass–Tumac Mountain area, Washington.

Clayton, G. A., 1982, Pliocene and Pleistocene volcanism in the White Pass area, south Cascade Range Washington, and its implications for models of subductions beneath the southern Washington Cascades [abstract].

Clayton, G. A., 1983, Geology of the White Pass area, south-central Cascade Range, Washington.

- Clayton, G. A., 1983, Pliocene and Pleistocene volcanic history of the White Pass–Tumac Plateau region, Washington.
- Cline, D. R., 1976, Reconnaissance of the water resources of the upper Klickitat River basin, Yakima Indian Reservation, Washington.
- Creager, Kurt, 1984, Geothermal development and resource management in the Yakima Valley; A guidebook for local governments.
- Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses.
- Ellingson, J. A., 1968, Late Cenozoic volcanic geology of the White Pass–Goat Rocks area. Cascade mountains, Washington.
- Ellingson, J. A., 1969, Geology of the Goat Rocks volcano, southern Cascade mountains, Washington [abstract].
- Ellingson, J. A., 1972, The rocks and structure of the White Pass area, Washington.
- Fowler, C. S., 1935, The origin of the sulfur deposits of Mount Adams.
- Foxworthy, B. L., 1962, Geology and ground-water resources of the Ahtanum Valley, Yakima County, Washington.
- Geyer, J. D.; Kellerman, L. M.; Bloomquist, R. G., 1989, Assessment of geothermal resources for electric power generation in the Pacific Northwest; Draft issue paper.
- Hammond, P. E., 1975, Preliminary geologic map and cross-sections with emphasis on Quaternary volcanic rocks, southern Cascade mountains, Washington.
- Harper, Robert, 1982, Geothermal studies suggest energy prospects.
- Harris, S. L., 1980, Fire and ice—The Cascade volcanoes.
- Hildreth, Wes; Fierstein, Judy, 1985, Mount Adams—Eruptive history of an andesite-dacite stratovolcano at the focus of a fundamentally basaltic volcanic field.
- Hildreth, Wes; Fierstein, Judy, 1990, Geologic map and geothermal assessment of the Mount Adams volcanic field, Cascade Range of southern Washington.
- Hildreth, Wes; Fierstein, Judy; Miller, M. S., 1983, Mineral and geothermal resource potential of the Mount Adams Wilderness and contiguous roadless areas, Skamania and Yakima Counties, Washington.
- Hopkins, K. D., 1976, Geology of the south and east slopes of Mount Adams volcano, Cascade Range, Washington.
- Jhaveri, A. G.; Miller, J. A., 1981, Geothermal resources in the Yakima area—Potential low temperature utilization.
- Konicek, D. L., 1974, Geophysical survey in south-central Washington.
- Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington.
- Korosec, M. A.; Barnett, D. B., 1989, Geothermal resource exploration target area defined by Division drilling projects.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington.
- Landes, Henry, 1905, Preliminary report on the underground waters of Washington.
- Lienau, P. J., 1986, Status of direct heat projects in western states.
- Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990.
- Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State.
- Oregon Institute of Technology Geo-Heat Utilization Center, 1980, A. C. Davis High School, Yakima, Washington.
- Phillips, K. N., 1942, Fumaroles of Mount St. Helens and Mount Adams.
- Rafferty, Kevin, 1984, Feasibility study for Harrah Elementary School, Harrah, Washington, June 1984.
- Rafferty, Kevin; Knipe, Ed, 1985, Some considerations for large water source heat pumps.
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington.
- Schuster, J. E., 1981, Geothermal energy potential of the Yakima valley area, Washington.
- Sheppard, R. A., 1967, Geology of the Simcoe Mountains volcanic area, Washington.
- Sheppard, R. A., 1967, Petrology of a late Quaternary potassium-rich andesite from Mount Adams, Washington.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.
- Smith, G. O., 1901, Geology and water resources of a portion of Yakima County, Washington.
- Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States.
- Swanson, D. A., 1964, The middle and late Cenozoic volcanic rocks of the Tieton River area, south-central Washington.
- Swanson, D. A., 1966, Tieton volcano, a Miocene eruptive center in the southern Cascade mountains, Washington.
- Swanson, D. A., 1978, Geologic map of the Tieton River area, Yakima County, south-central Washington.
- U.S. Forest Service, 1978, Gifford Pinchot National Forest—Final environmental impact statement, Upper Cispus Planning Unit, land management plan.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Adams area, Washington.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality.
- Vice, D. H., 1978, Tieton geothermal prospect.
- Vitro Engineering Corporation, 1981, Geothermally assisted heat pump system feasibility study, Yakima Regional Post Office, Yakima, Washington.
- Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington.

YAKAMA INDIAN RESERVATION

- Cline, D. R., 1976, Reconnaissance of the water resources of the upper Klickitat River basin, Yakima Indian Reservation, Washington.
- Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington.
- Yakima Valley, see**
BENTON CO.
COLUMBIA BASIN
KITTITAS CO.
YAKIMA CO.

YAKIMA, WASH. (YAKIMA CO.)

- Allen, E. M., 1982, The effects of urban land-use policies on geothermal district heating feasibilities in U.S. cities.
- Allen, Eliot, and Associates, Inc., 1981, Community heat plan addendum—Yakima, Washington heat atlas demonstration.
- Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Yakima. Washington—A study of district heating favorabilities.
- Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature.
- Jhaveri, A. G.; Miller, J. A., 1981, Geothermal resources in the Yakima area—Potential low temperature utilization.
- Lienau, P. J., 1986, Status of direct heat projects in western states.
- Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988.
- Oregon Institute of Technology Geo-Heat Utilization Center, 1980, A. C. Davis High School, Yakima, Washington.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities.
- Vitro Engineering Corporation, 1981, Geothermally assisted heat pump system feasibility study, Yakima Regional Post Office, Yakima, Washington.

Bibliography by Author

** starred entries are NOT held by the Washington Geology Library*

- Ackman, T. E., *see* Watzlaf, G. R. [and others], 2007.
- Adams, T. L., *see* Dragovich, J. D. [and others], 2007.
- Aiken, Dan, *see* Hammond, P. E. [and others], 1976.
- Aldrich, M. J.; Laughlin, A. W.; Gambill, D. T., 1981, Geothermal resource base of the world—A revision of the Electrical Power Research Institute's estimate: Los Alamos Scientific Laboratory LA-8801-MS, 59 p.
- *Allen, E. M., 1982, The effects of urban land-use policies on geothermal district heating feasibilities in U.S. cities: Eliot Allen and Associates, Inc. (Salem, Ore.), 22 p.
- Allen, E. M., *see also*
Lund, J. W. [and others], 1980.
Simpson, S. J. [and others], 1985.
- *Allen, Eliot, and Associates, Inc., [no date], Geothermal end-use assessment guide for communities; Draft: Eliot Allen and Associates, Inc. [under contract to] Washington State Energy Office, 1 v.
- *Allen, Eliot, and Associates, Inc., 1981, Community heat plan addendum—Yakima, Washington heat atlas demonstration: Washington State Energy Office WAOENG-81-20, 47 p.
- *Allen, Eliot, and Associates, Inc., 1981, Guide to a community heat plan—A geothermal energy application: Eliot Allen and Associates, Inc. [under contract to] Washington State Energy Office, 114 p.
- *Allen, Eliot, and Associates, Inc., 1981, Institutional and financial guide to geothermal district heating: Eliot Allen and Associates, Inc. [under contract to] U.S. Department of Energy and EG&G Idaho, Inc., 49 p.
- *Allen, Eliot, and Associates, Inc., 1981, Inventory of Washington industries with geothermal direct-use potential: Eliot Allen and Associates, Inc. [under contract to] Washington State Energy Office, 20 p.
- *Allen, Eliot, and Associates, Inc., 1982, Guide to a geothermal heat plan—A geothermal energy application: Washington State Energy Office Serial No. 3, WAOENG-82-04, 35 p.
- *Allen, Eliot, and Associates, Inc., 1982, Guide to financing small-scale geothermal energy projects: Oregon Department of Energy, 28 p.
- *Allen, Eliot, and Associates, Inc., 1982, Institutional and financial guide to geothermal district heating: Washington State Energy Office Serial No. 2, WAOENG 82-03, 27 p.
- *Allen, Eliot, and Associates, Inc., 1983, HEATPLAN user manual—HEATPLAN version 1.0: Washington State Energy Office WAOENG-84-18, 152 p.
- *Allen, Eliot, and Associates, Inc., 1984, Heat plan for North Bonneville, Washington: Washington State Energy Office WAOENG-84-70, 144 p.
- *Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Cheney, Washington—A study of district heating favorabilities: Washington State Energy Office WAOENG-84-76, 51 p.
- *Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Grandview, Washington—A study of district heating favorabilities: Washington State Energy Office WAOENG-84-73, 56 p.
- *Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Moses Lake, Washington—A study of district heating favorabilities: Washington State Energy Office WAOENG-84-77, 55 p.
- *Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Richland, Washington—A study of district heating favorabilities: Washington State Energy Office WAOENG-84-74, 56 p.
- *Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Sunnyside, Washington—A study of district heating favorabilities: Washington State Energy Office WAOENG-84-71, 54 p.
- *Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for West Richland, Washington—A study of district heating favorabilities: Washington State Energy Office WAOENG-84-75, 49 p.
- *Allen, Eliot, and Associates, Inc., 1984, HEATPLAN for Yakima, Washington—A study of district heating favorabilities: Washington State Energy Office WAOENG-84-72, 63 p.
- *Allen, Eliot, and Associates, Inc., 1985, Environmental assessment of geothermal district heating and cooling, Phase 1 in North Bonneville, Washington: Eliot Allen and Associates, Inc. (Salem, Ore.), 128 p.
- *Allen, Eliot, and Associates, Inc.; Engineering Resources, Ltd., 1984, Feasibility study of geothermal district heating and cooling in Sunnyside, Washington: Washington State Energy Office WAOENG-85-22, 1 v.
- Allman, D. W., *see* Beer, Christine [and others], 1984.
- *American Society for Testing and Materials, 1992, 1992 annual book of ASTM standards, section 12—Nuclear, solar, and geothermal energy: American Society for Testing and Materials, 930 p.
- Anderson, D. N.; Axtell, L. H., compilers and editors, 1972, Compendium of first day papers presented at the first conference of the Geothermal Resources Council, El Centro, California, February, 1972: Geothermal Resources Council, 77 p.
- Anderson, D. N.; Bowen, R. G., 1974, Proceedings—Workshop on environmental aspects of geothermal resources development: California Division of Oil and Gas; Oregon Department of Geology and Mineral Industries, 123 p.
- *Anderson, D. N.; Lund, J. W., editors, 1979, Direct utilization of geothermal energy—A layman's guide: Geothermal Resources Council Special Report 8, 97 p.
- *Anderson, D. N.; Lund, J. W., editors, 1979, Direct utilization of geothermal energy—A technical handbook: Geothermal Resources Council Special Report 7, 1 v.
- Anderson, Garth, *see* Dragovich, J. D. [and others], 1998, 1999, 2000, 2002.
- Anderson, M. L., *see* Dragovich, J. D. [and others], 2007, 2009.
- *Armstead, H. C. H., 1973, Geothermal energy—Review of research and development: UNESCO, 186 p.
- Armstead, H. C. H., 1978, Geothermal energy—Its past, present and future contributions to the energy needs of man: John Wiley and Sons, 357 p.
- *Atlas Corporation, 1984, Proceedings—Eighth annual geothermal conference and workshop: Electric Power Research Institute EPRI AP-3686, 1 v.
- *Austin, A. L.; House, P. A., 1978, New concepts for converting the energy in low- to medium-temperature liquids, with emphasis on geothermal applications: Lawrence Livermore Laboratory UCRL-52583, 13 p.
- Bacon, C. R., 1980, Goals are set for research in Cascades: Geotimes, v. 25, no. 8, p. 16-18.
- Bacon, C. R., *see also* Muffler, L. J. P. [and others], 1982.
- Ballard, T. M., *see* Bockheim, J. G. [and others], 1975.

- Banks, N. G.; Bennett, C. A.; Schmidt, J. M., 1978, Maps of photo lineaments and geomorphic features in the Spirit Lake quadrangle, Washington: U.S. Geological Survey Open-File Report 78-505, 2 sheets, scale 1:48,000.
- Banks, N. G., *see also* Ryan, M. P. [and others], 1990.
- Barbier, Enrico, editor, 1978, Proceedings of the ENEL-ERDA workshop on geothermal resource assessment and reservoir engineering, held at Larderello, Italy, 12–16 September 1977: Pergamon Press, 268 p.
- Barbier, Enrico; Fanelli, Mario, 1973, Overview of geothermal exploration and development in the world: Istituto Internazionale per le Ricerche Geotermiche (Pisa, Italy), 22 p.
- Barker, L. M.; Green, S. J.; Maurer, W. C.; DeVries, L. K., 1976, Annual report on the project to design and experimentally test an improved geothermal drill bit: Terra Tek, Inc. [under contract to] U.S. Department of Energy, Energy Research and Development Administration TID-28684, 36 p.
- Barnes, D. J., *see* Church, S. E. [and others], 1984.
- Barnes, Ivan; Johnston, D. A.; Evans, W. C.; Presser, T. S.; Mariner, R. H.; White, L. D., 1981, Properties of gases and waters of deep origin near Mount St. Helens. *In* Lipman, P. W.; Mullineaux, D. R., editors, The 1980 eruptions of Mount St. Helens, Washington: U.S. Geological Survey Professional Paper 1250, p. 233-237.
- Barnett, D. B., 1986, The 1985 geothermal gradient drilling project for the State of Washington: Washington Division of Geology and Earth Resources Open File Report 86-2, 34 p.
- Barnett, D. B., 1989, Geothermal drilling by the State of Washington in 1988: Washington Geologic Newsletter, v. 17, no. 1, p. 33-34.
- Barnett, D. B.; Korosec, M. A., 1986, Geothermal exploratory drilling by the State of Washington in 1985: Washington Geologic Newsletter, v. 14, no. 12, p. 21-28.
- Barnett, D. B.; Korosec, M. A., 1989, Geothermal research by the State of Washington [abstract]: Geological Society of America Abstracts with Programs, v. 21, no. 5, p. 54.
- Barnett, D. B.; Korosec, M. A., 1989, Results of the 1988 geothermal gradient test drilling project for the State of Washington: Washington Division of Geology and Earth Resources Open File Report 89-2, 5B p.
- Barnett, D. B., *see also* Korosec, M. A. [and others], 1989.
- Basescu, Neil, *see* Bloomquist, R. G. [and others], 1980.
- *Batdorf, J. A.; Simmons, G. M., 1984, Optimization of design and control strategies for geothermal space heating systems: U.S. Department of Energy DOE/ID/12167-T2, 89 p.
- Bates, R. G., 1973, Bert Cole—Geothermal interview: Geothermal Energy, v. 1, no. 4, p. 52-56.
- Battocletti, Liz, 2003, Geothermal small business workbook: Bob Lawrence & Associates, Inc., 123 p. [<http://www.geothermal-biz.com/GSBW.pdf>]
- Battocletti, Liz, 2005, An introduction to geothermal permitting: Bob Lawrence and Associates, Inc., 31 p.
- *Beer, Christine; Hederman, W. F., Jr.; Allman, D. W., 1984, Resource development—System design, construction and operation for geothermal direct use applications: EG&G Idaho, Inc. [under contract to] U.S. Department of Energy Idaho Operations Office DOE/ET/ 12099-4, 152 p.
- Beeson, M. H., 1981, Hydrothermal alteration in the Cascades. *In* Duffield, W. A.; Guffanti, Marianne, The geothermal research program of the U.S. Geological Survey: U.S. Geological Survey Open-File Report 81-564, p. 48-49.
- Bender, V. R., *see* Hopson, C. A. [and others], 1962.
- Bennett, C. A., *see* Banks, N. G. [and others], 1978.
- Benson, L. V., 1978, Secondary minerals, oxidation potentials, pressure and temperature gradients in the Pasco Basin of Washington State: Rockwell Hanford Operations RHO-BWI-C-34; Lawrence Berkeley Laboratory Topical Report 1, 21 p.
- Bentley, R. D., *see* Hammond, P. E. [and others], 1977.
- Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Range: Washington Division of Geology and Earth Resources Open File Report 83-5, 48 p., 2 plates.
- Berri, D. A.; Korosec, M. A., 1983, Geological and geothermal investigation of the lower Wind River valley, southwestern Washington Cascade Rang: U.S. Department of Energy Office of Scientific and Technical Information DOE/ET-27014-T9, 48 p., 2 plates.
- Berry, G. W.; Grim, P. J.; Ikelman, J. A., compilers, 1980, Thermal springs list for the United States—National Oceanic and Atmospheric Administration key to geophysical records documentation no. 12: U.S. National Oceanic and Atmospheric Administration, National Geophysical and Solar-Terrestrial Data Center, 59 p., 3 plates.
- Berryhill, I. M., 1975, Geothermal energy—A developing resource for Washington: Pacific Search, v. 10, no. 2, p. 14-15.
- Biggane, J. H., 1981, The low temperature geothermal resources of the Yakima region—A preliminary report: Washington Division of Geology and Earth Resources Open File Report 81-7, 39 p.
- Biggane, J. H., 1981, The low temperature geothermal resource of the Yakima region—A preliminary report: Washington State University College of Engineering Research Report 81/15-27, 1 v.
- Biggane, J. H., 1982, The low temperature geothermal resource and stratigraphy of portions of Yakima County, Washington: Washington Division of Geology and Earth Resources Open File Report 82-6, 128 p., 4 plates.
- Biggane, J. H., 1982, The low temperature geothermal resource and stratigraphy of portions of Yakima County, Washington: Washington State University College of Engineering Research Report 82/15-7, 126 p., 4 plates.
- Biggane, J. H., 1983, Geophysical logs from water wells in the Yakima area, Washington: U.S. Department of Energy Office of Scientific and Technical Information DOE/ET/27014-T15, 50 p.
- Biggane, J. H., 1983, Geophysical logs from water wells in the Yakima area, Washington: Washington Division of Geology and Earth Resources Open File Report 83-2, 50 p.
- Biggane, J. H.; Washington Division of Geology and Earth Resources staff, 1983, Geohydrologic studies of the Yakima valley area, Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy Technical Information Center DOE/ET/ 27014-T6, p. 252-267.

- Biggane, J. H.; Washington Division of Geology and Earth Resources staff, 1983, Geohydrologic studies of the Yakima valley area, Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 252-267.
- Birkhahn, P. C., *see* Gizienski, S. F. [and others], 1975. McEuen, R. B. [and others], 1975.
- Bixley, P. F., *see* Grant, M. A. [and others], 1982.
- Black, G. L., *see* Blackwell, D. D. [and others], 1982. Bloomquist, R. G. [and others], 1985.
- Blackett, R. E., 1986, Assessment of geothermal related data bases: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 4, p. 8-11.
- Blackwell, D. D., 1967, Heat flow determinations and crustal structure in the northwestern United States [abstract]: *American Geophysical Union Transactions*, v. 48, no. 1, p. 209-210.
- Blackwell, D. D., 1967, Terrestrial heat flow determinations in the northwestern United States: Harvard University Doctor of Philosophy thesis, 194 p.
- Blackwell, D. D., 1969, Heat-flow determinations in the northwestern United States: *Journal of Geophysical Research*, v. 74, no. 4, p. 992-1007.
- Blackwell, D. D., 1971, Heat flow: *Eos (American Geophysical Union Transactions)*, v. 52, no. 5, p. IUGG 135 – IUGG 139.
- Blackwell, D. D., 1971, Low heat flow in western Washington and the mechanics of subduction [abstract]: *Eos (American Geophysical Union Transactions)*, v. 52, no. 11, p. 924.
- Blackwell, D. D., 1971, The thermal structure of the continental crust [with discussion]. *In* Heacock, J. G., editor, The structure and physical properties of the Earth's crust: *American Geophysical Union Monograph* 14, p. 169-184.
- Blackwell, D. D., 1974, Terrestrial heat flow and its implications on the location of geothermal reservoirs in Washington. *In* Washington Division of Geology and Earth Resources, Energy resources of Washington: Washington Division of Geology and Earth Resources Information Circular 50, p. 21-33.
- Blackwell, D. D., 1978, Heat flow and energy loss in the western United States. *In* Smith, R. B.; Eaton, G. P., editors, Cenozoic tectonics and regional geophysics of the western cordillera: *Geological Society of America Memoir* 152, p. 175-208.
- Blackwell, D. D., 1980, Heat flow and geothermal gradient measurements in Washington through 1979. *In* Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. 7-40.
- Blackwell, D. D., 1980, Heat flow and geothermal gradient measurements in Washington to 1979, and temperature-depth data collected during 1979: Washington Division of Geology and Earth Resources Open File Report 80-9, 1 v.
- Blackwell, D. D., 1981, Heat flow in the Cascade Range of Oregon and Washington, U.S.A. [abstract]. *In* International Association of Volcanology and Chemistry of the Earth's Interior, IAVCEI symposium, Arc volcanism; Abstracts: *Volcanological Society of Japan*, p. 41.
- Blackwell, D. D., 1982, Heat flow and geothermal potential of the Cascade Range [abstract]. *In* Ruscetta, C. A., editor, Geothermal direct heat program; Roundup technical conference proceedings; Volume I: University of Utah Research Institute, p. 6-7.
- Blackwell, D. D.; Bowen, R. G.; Schuster, J. E., 1973, Heat flow and Cenozoic tectonic history of the northwestern United States [abstract]: *Geological Society of America Abstracts with Programs*, v. 5, no. 1, p. 12-13.
- Blackwell, D. D.; Priest, G. R., 1996, Comment on "Rates and patterns of groundwater flow in the Cascade Range volcanic arc and the effect on subsurface temperatures" by S. E. Ingebritsen, D. R. Sherrod, and R. H. Mariner: *Journal of Geophysical Research*, v. 101, no. B8, p. 17,561-17,568.
- Blackwell, D. D.; Steele, J. L., 1983, A summary of heat-flow studies in the Cascade Range: *Geothermal Resources Council Transactions*, v. 7, p. 233-236.
- Blackwell, D. D.; Steele, J. L., 1985, Heat flow of the Cascade Range. *In* Guffanti, Marianne; Muffler, L. J. P., editors, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 20-23.
- Blackwell, D. D.; Steele, J. L.; and others, compilers, 1992, Geothermal map of North America: *Geological Society of America DNAG Continent-Scale Map* 6, 4 sheets, scale 1:5,000,000.
- Blackwell, D. D.; Steele, J. L.; Carter, L. S., 1991, Heat-flow patterns of the North American continent—A discussion of the Geothermal Map of North America. *In* Slemmons, D. B.; Engdahl, E. R.; Zoback, M. D.; Blackwell, D. D., editors, *Neotectonics of North America: Geological Society of America DNAG Decade Map Volume 1*, p. 423-436.
- Blackwell, D. D.; Steele, J. L.; Kelley, S. A., 1985, Heat flow and geothermal studies in the State of Washington: Washington Division of Geology and Earth Resources Open File Report 85-6, 77 p.
- Blackwell, D. D.; Steele, J. L.; Kelley, S. A., 1990, Heat flow in the State of Washington and thermal conditions in the Cascade Range: *Journal of Geophysical Research*, v. 95, no. B12, p. 19,495-19,516.
- Blackwell, D. D.; Steele, J. L.; Priest, G. R.; Black, G. L.; Schuster, J. E.; Korosec, M. A., 1982, Heat flow, gravity and magmatism in the Cascade Range of the Pacific Northwest [abstract]: *Eos (American Geophysical Union Transactions)*, v. 63, no. 45, p. 1091.
- Blackwell, D. D.; Steele, J. L.; Schuster, J. E.; Korosec, M. A., 1980, The regional thermal setting of the Mt. St. Helens volcano [abstract]: *Eos (American Geophysical Union Transactions)*, v. 61, no. 46, p. 1134.
- Blackwell, D. D., *see also* Priest, G. R. [and other], 1984. Schuster, J. E. [and others], 1976, 1978.
- Blahnik, D. E., *see* Davis, A. E. [and others], 1980.
- *Blair, P. D.; Cassel, T. A. V.; Edelstein, R. H., 1982, Geothermal energy—Investment decisions and commercial development: John Wiley and Sons, 184 p.
- Blaydes & Associates, 2007, California Geothermal Energy Collaborative—Expanding California's confirmed geothermal resources bases—Geothermal permitting guide: Blaydes & Associates [for California Energy Commission], 37 p. [<http://www.energy.ca.gov/2007publications/CEC-500-2007-027/CEC-500-2007-027.pdf>]
- Blevins, J. Y. K., *see* Ryan, M. P. [and others], 1990.
- Bliss, J. D., 1983, Washington State—Basic data for thermal springs and wells as recorded in GEOTHERM: U.S. Geological Survey Open-File Report 83-438, 45 p.
- Bliss, J. D., *see also* Mariner, R. H. [and others], 1983.
- Bloomquist, R. G., 1979, Geothermal energy in Washington: Oregon Institute of Technology Geo-Heat Utilization Center Quarterly Bulletin, v. 4, no. 3, p. 1-5.

- Bloomquist, R. G., 1979, Geothermal energy in Washington—Site data base and development status: Oregon Institute of Technology Geo-Heat Utilization Center, 192 p.
- Bloomquist, R. G., 1979, Utilization of Washington's geothermal energy resources: Washington State Energy Office Newsletter, v. 2, no. 4, p. 8-9.
- Bloomquist, R. G., 1980, Utilization of Washington's geothermal energy resources: Washington Geologic Newsletter, v. 8, no. 1, p. 7-9.
- Bloomquist, R. G., 1980, Welcome. *In* Bloomquist, R. G.; Wonstolen, K. A., editors, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing: Washington State Energy Office WAOENG-80-16, p. 1-1 – 1-2.
- Bloomquist, R. G., 1981, Geothermal energy policy in Washington—An overview. *In* Geothermal Resources Council, Geothermal potential of the Cascade mountain range; Exploration and development: Geothermal Resources Council Special Report 10, p. 65-67.
- Bloomquist, R. G., editor, 1981, Proceedings of the geothermal symposium—Low temperature utilization, heat pump applications, district heating, September 24, 1980: Washington State Energy Office WAOENG-81-05, 1 v.
- Bloomquist, R. G., 1981, A program for accelerating geothermal development in the State of Washington. *In* Bloomquist, R. G., compiler, A proposal for Northwest geothermal development: Washington State Energy Office, Appendix I.
- Bloomquist, R. G., compiler, 1981, A proposal for Northwest geothermal development: Washington State Energy Office, 1 v.
- Bloomquist, R. G., 1981, Washington State geothermal leasing status, January 1981: Washington Division of Geology and Earth Resources Open File Report 80-10, 5 sheets.
- Bloomquist, R. G., 1983, Ephrata attracts national attention—Governor dedicates innovative geothermal system: Washington State Energy Office Newsletter, v. 6, no. 2, p. 1.
- Bloomquist, R. G., 1983, Geothermal resources in the Cascades—Accessible/developable—The institutional setting: Geothermal Resources Council Transactions, v. 7, p. 237-242.
- *Bloomquist, R. G., 1983, Water source heat pumps for district heating. *In* Proceedings; Heat pumps for heating and cooling of residential and light commercial buildings: U.S. Bonneville Power Administration, [7 p.].
- Bloomquist, R. G., 1985, A review and analysis of the adequacy of the legal and institutional framework for geothermal development in Washington State: Washington State Energy Office WAOENG-85-47, 48 p.
- *Bloomquist, R. G., 1986, A review and analysis of the adequacy of the U.S. legal, institutional and financial framework for geothermal development: Geothermics, v. 15, no. 1, p. 87-132.
- Bloomquist, R. G., 1989, Regulatory and commercial aspects. *In* Lienau, P. J.; Lunis, B. C., editors, Geothermal direct use engineering and design guidebook: Oregon Institute of Technology Geo-Heat Center, p. 361-392.
- Bloomquist, R. G., 1991, Geothermal—A regulatory guide to leasing, permitting, and licensing in Idaho, Montana, Oregon, and Washington: U.S. Bonneville Power Administration DOE/BP00425-2, 275 p.
- *Bloomquist, R. G., 1995, Drafting a geothermal project for funding: CNR, International Institute for Geothermal Research, International School of Geothermics, 193 p.
- Bloomquist, R. G., 1999, Commercial geothermal heat pumps: Washington State University Cooperative Extension Energy Program, [10 p.]. [http://www.energy.wsu.edu/documents/renewables/geo_heat_pumps.pdf]
- Bloomquist, R. G., 1999, Geothermal heat pumps—Four plus decades of experience: Geo-Heat Center Bulletin, v. 20, no. 4, p. 13-18. [<http://geoheat.oit.edu/bulletin/bull20-4/art3.pdf>]
- Bloomquist, R. G., 2003, Sol Duc Hot Springs—The resort that refused to die: Geo-Heat Center Quarterly Bulletin, v. 24, no. 1, p. 14-16. [<http://geoheat.oit.edu/bulletin/bull24-1/art4.pdf>]
- *Bloomquist, R. G., 2005, Geothermal energy—State policy options: National Conference of State Legislators, 1 portfolio.
- Bloomquist, R. G., 2006, Bonneville Hot Springs Resort, North Bonneville, WA: Geo-Heat Center Quarterly Bulletin, v. 27, no. 4, p. 4-6. [<http://geoheat.oit.edu/bulletin/bull27-4/art2.pdf>]
- *Bloomquist, R. G., 2007, Geothermal in a world of energy: Washington State University Extension Energy Program WSUEEP 07-025, 6 p.
- Bloomquist, R. G.; Basescu, Neil; Higbee, C. V.; Justus, Debra; Simpson, Stewart, 1980, Washington—A guide to geothermal energy development: Oregon Institute of Technology Geo-Heat Utilization Center, 128 p.
- Bloomquist, R. G.; Black, G. L.; Parker, D. S.; Sifford, A.; Simpson, S. J.; Street, L. V., 1985, Evaluation and ranking of geothermal resources for electrical generation or electrical offset in Idaho, Montana, Oregon, and Washington: Washington State Energy Office WAOENG-85-02; U.S. Bonneville Power Administration DOE/BP-13609, 3 v.
- *Bloomquist, R. G.; Geyer, J. D.; Sifford, A., 1987, Evaluation and ranking of geothermal resources for electrical generation or electrical offset in Idaho, Montana, Oregon and Washington; PURPA influence on contemporary geothermal plants—Case studies 1986: Washington State Energy Office [under contract to] U.S. Bonneville Power Administration DOE/BP-13609-4, 34 p.
- *Bloomquist, R. G.; Geyer, J. D.; Sifford, B. A., III, 1989, Innovative design of new geothermal generating plants—Appendices: U.S. Bonneville Power Administration DOE/BP-13609-5, 176 p.
- *Bloomquist, R. G.; Geyer, J. D.; Sifford, B. A., III, 1989, Innovative design of new geothermal generating plants—Supplement: U.S. Bonneville Power Administration DOE/BP-13609-5, 40 p.
- *Bloomquist, R. G.; Nimmons, J. T.; Rafferty, Kevin, 1988, District heating development guide—Legal, institutional, and marketing issues, v. 1: Washington State Energy Office WAOENG-87-1711 (Rev.); U.S. Department of Energy DOE/ID/12527-3, 268 p.
- *Bloomquist, R. G.; O'Brien, R. G.; Spurr, Mark, 1999, Geothermal district energy at collocated sites: Washington State University Cooperative Extension Energy Program, 1 v.
- Bloomquist, R. G.; Simpson, S. J., 1986, Geothermal energy development in Washington State—A guide to the federal, state, and local regulatory process: Washington State Energy Office WAOENG-85-48, 121 p., 4 plates.
- Bloomquist, R. G.; Wonstolen, K. A., editors, 1980, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing: Washington State Energy Office WAOENG-80-16, 130 p.
- Bloomquist, R. G., *see also* Geyer, J. D. [and others], 1989. Schuster, J. E. [and other], 1994. Simpson, S. J. [and others], 1987.
- *Bloomster, C. H., 1975, Economic analysis of geothermal energy costs: Battelle Pacific Northwest Laboratories BNWL-SA-5596, 26 p.

- Bockheim, J. G.; Ballard, T. M., 1975, Hydrothermal soils of the crater of Mount Baker, Washington: Soil Science Society of America 40th Annual Meeting Proceedings, v. 39, no. 5, p. 997-1001.
- Bodvarsson, Gunnar; Reistad, G. M., 1979, Performance and feasibility of forced geoheat recovery for low temperature applications: Geothermal Resources Council Transactions, v. 3, p. 61-64.
- Bogart, L. E.; Readdy, L. A., 1987, Importance of fault mapping to mineral/geothermal exploration—Relationship to fluid migration and ore formation—Northwest Washington. *In* Thematic Conference on Remote Sensing for Exploration Geology, 5th, Proceedings: Environmental Research Institute of Michigan, v. 1, p. 395-404.
- Bonini, W. E., 1965, Gravity surveys in the northwestern United States: Eos (American Geophysical Union Transactions), v. 46, no. 3, p. 563-569.
- Bonini, W. E.; Hughes, D. W.; Daneš, Z. F., compilers, 1974, Complete Bouguer gravity anomaly map of Washington: Washington Division of Geology and Earth Resources Geologic Map GM-11, 1 sheet, scale 1:500,000.
- Booker, J. R., 1981, Geomagnetic sounding in the Cascade Range of Washington State as a geothermal exploration technique [abstract]. *In* Duffield, W. A.; Guffanti, Marianne, The geothermal research program of the U.S. Geological Survey: U.S. Geological Survey Open-File Report 81-564, p. 82.
- Booth, D. B.; Minard, J. P., 1992, Geologic map of the Issaquah 7.5 quadrangle, King County, Washington: U.S. Geological Survey Miscellaneous Field Studies Map MF-2206, 1 sheet, scale 1:24,000.
- Bortleson, G. C.; Cox, S. E., 1986, Occurrence of dissolved sodium in ground waters in basalts underlying the Columbia plateau, Washington: U.S. Geological Survey Water Resources Investigations Report 85-4005, 24 p., 5 plates.
- Bortleson, G. C., *see also* Hearn, P. P. [and others], 1985.
- Bowen, P. A., *see* Nehring, N. L. [and others], 1977, 1979.
- Bowen, R. G., *see* Anderson, D. N. [and others], 1974. Blackwell, D. D. [and others], 1973.
- Boyd, Tonya, *see* Lund, J. W. [and other], 1999. McEuen, R. B. [and others], 1979.
- Boynton, G. R., *see* Moxham, R. M. [and others], 1973.
- Brackett, Michael, 1992, Water resource data source book: Washington Department of Ecology Publication 9286, 214 p.
- Braile, L. W., 1970, The isostatic condition and crustal structure of Mount Saint Helens as determined from gravity data: University of Washington Master of Science thesis, 37 p.
- Braud, H. J., 1992, Groundcoupled heat pump applications and case studies: Oregon Institute of Technology GeoHeat Center Quarterly Bulletin, v. 14, no. 1, p. 7-12.
- Braud, H. J.; Oliver, James; Klimkowski, Henry, 1988, Earthsource heat exchanger for heat pumps: Oregon Institute of Technology GeoHeat Center Quarterly Bulletin, v. 11, no. 1, p. 12-15.
- Brewster, S. B., Jr., *see* Hawley, D. L. [and others], 1982.
- *Britton, J. M.; Forster, C.; Fairbank, B. D., 1984, Report on Mt. Baker geothermal project, Whatcom County, Washington; 1984 exploration program (Phase Ib): Nevin Sadlier-Brown Goodbrand Ltd. [under contract to] Seattle City Light, 60 p., 4 plates.
- Brizzee, Julie, *see* Laney, Patrick [and other], 2003.
- Brook, C. A.; Mariner, R. H.; Mabey, D. R.; Swanson, J. R.; Guffanti, Marianne; Muffler, L. J. P., 1979, Hydrothermal convection systems with reservoir temperatures 90° C. *In* Muffler, L. J. P., editor, Assessment of geothermal resources of the United States—1978: U.S. Geological Survey Circular 790, p. 1885.
- Brook, C. A., *see also* Burkhardt, H. E. [and others], 1980. Mariner, R. H. [and others], 1983. Reed, M. J. [and others], 1983.
- Brookfield, C. M., *see* Dethier, D. P. [and others], 1996.
- *Brown, H., 1998, New condensers for geothermal power: CADDET Renewable Energy Newsletter, issue 3/98, 13 p.
- Brown, J. C., 1979, Geology and water resources of Klickitat County: Washington Department of Ecology Water-Supply Bulletin 50, 413 p., 8 plates.
- Brown, J. C., 1980, Stratigraphy and groundwater hydrology of selected areas, Columbia plateau, Washington: Washington State University College of Engineering Research Report 80/15-39, 52 p., 1 plate.
- Brown, J. C., *see also* Hammond, P. E. [and others], 1977. Robinette, M. S. [and others], 1977.
- Brown and Caldwell, 1981, Geothermal direct use feasibility study for City of Othello, Washington: Brown and Caldwell, 1 v.
- *Building Operating Management, 1997, Mining Manhattan for cool air: Building Operating Management, v. 44, no. 11, 20 p.
- Bundschuh, Jochen, *see* Chandrasekharam, D. [and other], 2008.
- Bundy, Don, 1981, North Bonneville sits on hot-water bonanza: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 6, no. 3, p. 11-12.
- Bunning, B. B., *see* Stoffel, K. L. [and others], 1991.
- Burd, B. J., *see* Thomson, R. E. [and others], 1995.
- Burkhardt, H. E.; Brook, C. A.; Smith, F. W., 1980, Selected administrative, land, and resource data for known geothermal resources areas in Arizona, California, Idaho, Nevada, Oregon, and Washington: U.S. Geological Survey Open-File Report 80-1290, 29 p.
- Cady, W. M., *see* Tabor, R. W. [and others], 1978.
- Cakir, Recep, *see* Dragovich, J. D. [and others], 2009.
- Callahan, O. A., 2007, Exhumation and topographic development of the Okanogan Range, northeast North Cascades: Western Washington University Master of Science thesis, 196 p.
- Callahan, O. A.; Crider, Juliet; Reiners, Peter, 2007, Constraints on mid Cenozoic topography, exhumation and tectonics within the Okanogan Range, northeast North Cascades [abstract]: Geological Society of America Abstracts with Programs, v. 39, no. 4, p. 70.
- Campbell, K. V.; Miers, J. H.; Nichols, B. M.; Oliphant, Jerrelyn; Pytlak, Shirley; Race, R. W.; Shaw, G. H.; Gresens, R. L., 1970, A survey of thermal springs in Washington State: Northwest Science, v. 44, no. 1, p. 1-11.
- Cantwell, Thomas; Nelson, P.; Webb, J.; Orange, A. S., 1965, Deep resistivity measurements in the Pacific Northwest: Journal of Geophysical Research, v. 70, no. 8, p. 1931-1937.
- Cantwell, Thomas; Orange, A. S., 1965, Further deep resistivity measurements in the Pacific Northwest: Journal of Geophysical Research, v. 70, no. 16, p. 4068-4072.
- Carter, L. S., *see* Blackwell, D. D. [and others], 1991.
- Casadevall, T. J., *see* Thompson, J. M. [and others], 1985.
- Cass, Jason, *see* Dragovich, J. D. [and others], 2000.

- Cassel, T. A. V., *see* Blair, P. D. [and others], 1982.
- Cataldi, Raffaele; Hodgson, S. F.; Lund, J. W., editors, 1999, *Stories from a heated earth—Our geothermal heritage*: Geothermal Resources Council, 569 p.
- Chandrasekharam, D.; Bundschuh, Jochen, 2008, *Low-enthalpy geothermal resources for power generation*: CRC Press/Balkema, 149 p.
- Chen, Allan, 1983, *Geothermal powerhouse*: Science News, v. 123, no. 12, p. 186-189.
- Cheney, E. S., 1999, *Geologic map of the Easton area, Kittitas County, Washington*: Washington Division of Geology and Earth Resources Open File Report 99-4, 11 p., 1 sheet, scale 1:31,680.
- Chiasson, Andrew, 2005, *Aquaculture and geothermal heat pump systems*: Geo-Heat Center Bulletin, v. 26, no. 1, p. 6-12. [<http://geoheat.oit.edu/pdf/tp116.pdf>]
- Chiburis, E. F., *see* Dehlinger, Peter [and others], 1965.
- Chilingar, G. V., *see* Edwards, L. M. [and others], 1982.
- *Chupka, Mark; Howarth, David, 1992, *Renewable electric generation—An assessment of air pollution prevention potential*; Final report: U.S. Incorporated [under contract to] U.S. Environmental Protection Agency EPA/400/R92/005, 1 v.
- Church, S. E.; Barnes, D. J., 1984, *Indian Heaven Roadless Area, Washington*. In Marsh, S. P.; Kropschot, S. J.; Dickinson, R. G., editors, *Wilderness mineral potential—Assessment of mineral-resource potential in U.S. Forest Service lands studied 1964–1984*: U.S. Geological Survey Professional Paper 1300, p. 1066-1068.
- Church, S. E.; Stotelmeyer, R. B., 1984, *Glacier Peak Wilderness study area, Washington*. In Marsh, S. P.; Kropschot, S. J.; Dickinson, R. G., editors, *Wilderness mineral potential—Assessment of mineral-resource potential in U.S. Forest Service lands studied 1964–1984*: U.S. Geological Survey Professional Paper 1300, p. 1055-1058.
- Ciancanelli, E. V., 1987, *Geology and geothermal resource potential of Mt. Adams volcano, Washington*. In *Proceedings—Tenth annual geothermal conference and workshop: Electric Power Research Institute EPRI AP-5059SR*, p. 12-45 – 12-59.
- Cioppi, D., *see* Sommaruga, C. [and others], 1986.
- Clayton, G. A., 1980, *Geology of the White Pass–Tumac Mountain area, Washington*. In Korosec, M. A.; Schuster, J. E.; and others, *The 1979–1980 geothermal resource assessment program in Washington*: Washington Division of Geology and Earth Resources Open File Report 81-3, p. 100-116, 1 plate, scale 1:24,000.
- Clayton, G. A., 1980, *Geology of White Pass–Tumac Mountain area, Washington*: Washington Division of Geology and Earth Resources Open File Report 80-8, 1 sheet, scale 1:24,000.
- Clayton, G. A., 1982, *Pliocene and Pleistocene volcanism in the White Pass area, south Cascade Range Washington, and its implications for models of subductions beneath the southern Washington Cascades* [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 8, p. 175.
- Clayton, G. A., 1983, *Geology of the White Pass area, south-central Cascade Range, Washington*: University of Washington Master of Science thesis, 212 p., 1 plate, scale 1:24,000.
- Clayton, G. A., 1983, *Pliocene and Pleistocene volcanic history of the White Pass–Tumac Plateau region, Washington*. In Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, *The 1980–1982 geothermal resource assessment program in Washington*: U.S. Department of Energy Technical Information Center DOE/ET/27014-T6, p. 192-251.
- Clayton, G. A., 1983, *Pliocene and Pleistocene volcanic history of the White Pass–Tumac Plateau region, Washington*. In Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, *The 1980–1982 geothermal resource assessment program in Washington*: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 192-251.
- Clement, W. V., 1985, *Airborne video thermal infrared—Detection of geothermal areas on Mount St. Helens, Washington*: International Symposium on Remote Sensing of Environment, 19th, Proceedings, v. 2, p. 791-798.
- Cline, D. R., 1976, *Reconnaissance of the water resources of the upper Klickitat River basin, Yakima Indian Reservation, Washington*: U.S. Geological Survey Open-File Report 75-518, 54 p.
- Collings, M. R.; Higgins, G. T., 1973, *Stream temperatures in Washington State*: U.S. Geological Survey Hydrologic Investigations Atlas HA-385, 2 sheets, scale 1:1,000,000.
- Collver, M. M., *see* Dehlinger, Peter [and others], 1965.
- Condie, K. C.; Swenson, D. H., 1974, *Compositional variation in three Cascade stratovolcanoes—Jefferson, Rainier, and Shasta*: Bulletin Volcanologique, v. 37, no. 2, p. 205-230.
- Coombs, H. A., 1936, *The geology of Mount Rainier National Park*: University of Washington Publications in Geology, v. 3, no. 2, p. 131-212, 1 plate.
- Coombs, H. A., 1939, *Mt. Baker, a Cascade volcano*: Geological Society of America Bulletin, v. 50, no. 10, p. 1493-1509.
- Cote, C. E., *see* Moxham, R. M. [and others], 1973.
- Couch, R. W., *see* Johnson, S. H. [and others], 1970.
- Cox, S. E., *see* Bortleson, G. C. [and others], 1986.
- Crandell, D. R., 1969, *The geologic story of Mount Rainier—A look at the geologic past of one of America's most scenic volcanoes*: U.S. Geological Survey Bulletin 1292, 43 p.
- Crandell, D. R., 1969, *Surficial geology of Mount Rainier National Park, Washington*: U.S. Geological Survey Bulletin 1288, 41 p., 1 plate.
- Crandell, D. R., 1971, *Postglacial lahars from Mount Rainier volcano, Washington*: U.S. Geological Survey Professional Paper 677, 75 p., 3 plates.
- Crandell, D. R., 1973, *Map showing potential hazards from future eruptions of Mount Rainier, Washington*: U.S. Geological Survey Miscellaneous Investigations series Map 1-836, 1 sheet, scale 1:250,000.
- Crandell, D. R., 1976, *Preliminary assessment of volcanic hazards from future volcanic eruptions in Washington*: U.S. Geological Survey Miscellaneous Field Studies Map MF-774, 1 sheet, scale 1:1,000,000.
- Crandell, D. R., 1981, *Volcanic hazards*. In Duffield, W. A.; Guffanti, Marianne, *The geothermal research program of the U.S. Geological Survey*: U.S. Geological Survey Open-File Report 81-564, p. 35-36.
- Crandell, D. R.; Mullineaux, D. R., 1973, *Pine Creek volcanic assemblage at Mount St. Helens, Washington*: U.S. Geological Survey Bulletin 1383-A, 23 p.
- Crandell, D. R.; Mullineaux, D. R., 1978, *Potential hazards from future eruptions of Mount St. Helens volcano, Washington*: U.S. Geological Survey Bulletin 1383-C, 26 p., 2 plates.

- Crandell, D. R.; Mullineaux, D. R.; Miller, R. D.; Rubin, Meyer, 1962, Pyroclastic deposits of recent age at Mount Rainier, Washington. *In* Geological Survey Research 1962—Short papers in geology, hydrology, and topography, Articles 120–179: U.S. Geological Survey Professional Paper 450-D, p. 64–68.
- Crandell, D. R.; Mullineaux, D. R.; Rubin, Meyer, 1975, Mount St. Helens volcano—Recent and future behavior: *Science*, v. 187, no. 4175, p. 438–441.
- Crandell, D. R.; Waldron, H. H., 1956, A recent volcanic mudflow of exceptional dimensions from Mt. Rainier, Washington: *American Journal of Science*, v. 254, no. 6, p. 349–362.
- Crandell, D. R., *see also*
Hyde, J. H. [and others], 1975, 1978. Moxham, R. M. [and others], 1965. Mullineaux, D. R. [and others], 1962.
- *Creager, Kurt, 1984, Geothermal development and resource management in the Yakima Valley; A guidebook for local governments: Yakima Valley Conference of Governments [for] City of Grandview, 1 v.
- *Cremer, G. M., 1981, Pacific Northwest region. *In* Cremer, G. M., compiler and editor, Hot dry rock geothermal energy development program, annual report fiscal year 1980: Los Alamos National Laboratory LA-8855-HDR, p. 42–44.
- Cremer, Glenda, *see* Heiken, Grant [and others], 1982.
- Crider, Juliet, *see* Callahan, O. A. [and others], 2007.
- Crosby, J. W., III, 1971, Geothermal exploration. *In* Washington Department of Natural Resources, Papers presented at the First Northwest Conference on Geothermal Power: Washington Department of Natural Resources, 20 p.
- Crosson, R. S.; Mayers, I. R., 1972, Report on geothermal ground noise measurements in Washington State: Washington Division of Mines and Geology Open File Report 72-1, 52 p.
- *Crosson, R. S.; Mayers, I. R., 1972, Spectral variability in seismic noise measurements and implications for geothermal exploration [abstract]: Society of Exploration Geophysicists, 42nd Annual International Meeting, p. 37–38.
- Crosson, R. S.; Mayers, I. R., 1973, Spectral variability in seismic noise measurements and implications for geothermal exploration [abstract]: *Geophysics*, v. 38, no. 1, p. 168.
- Crowder, D. F.; Tabor, R. W.; Ford, A. B., 1966, Geologic map of the Glacier Peak quadrangle, Snohomish and Chelan Counties, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-473, 1 sheet, scale 1:62,500.
- Crowder, D. F., *see also* Tabor, R. W. [and others], 1969.
- Cullen, J. M., 1978, Impact of a major eruption of Mount Rainier on public service delivery systems in the Puyallup Valley, Washington: University of Washington Master of Urban Planning thesis, 203 p.
- Culver, Gene, 1976, Optimization of geothermal home heating systems: Oregon Institute of Technology Geo-Heat Utilization Center, 46 p.
- Culver, Gene, 1989, Direct use injection wells: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 11, no. 4, p. 1–5.
- Culver, Gene, 1989, Downhole heat exchangers: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 11, no. 3, p. 1–4.
- *Culver, Gene, 1990, DHE: Oregon Institute of Technology Geo-Heat Center, 58 p.
- Culver, Gene, 1991, Direct use reservoir models—How we think they work: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 13, no. 1, p. 1–7.
- *Culver, Gene, 1991, Vertical pump turbine oil environmental evaluation: Oregon Institute of Technology Geo-Heat Center, 1 v. [<http://geoheat.oit.edu/pdf/tp68.pdf>]
- *Culver, Gene; Reistad, G. M., 1978, Evaluation and design of downhole heat exchangers for direct application, Final report: Oregon Institute of Technology Geo-Heat Center, 112 p.
- Culver, Gene, *see also*
Lienau, P. J. [and others], 1986?, 1988, 1990?
Lund, J. W. [and others], 1991.
- Czajkowski, J. L., *see* Dragovich, J. D. [and others], 2009.
- Daneš, Z. F., 1964, Gravity survey of Mount Rainier, Washington [abstract]: *Eos (American Geophysical Union Transactions)*, v. 45, no. 4, p. 640.
- Daneš, Z. F., 1969, Gravity results in western Washington: *Eos (American Geophysical Union Transactions)*, v. 50, no. 10, p. 548–550.
- Daneš, Z. F., 1979, Bouguer gravity map, Camas area, Washington and Oregon: Washington Division of Geology and Earth Resources Open File Report 79-6, 1 sheet, scale 1:62,500.
- Daneš, Z. F., 1980, Gravity results, North Bonneville area, Washington: [Privately published by the author], 10 p., 3 plates.
- Daneš, Z. F., 1980, Regional gravity survey of the southern Cascades, Washington. *In* Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. 93–99.
- Daneš, Z. F., 1981, Geophysical studies on Columbia River basalt province. *In* Subbarao, K. V.; Sukheswala, R. N., editors, Deccan volcanism and related basalt provinces in other parts of the world: Geological Society of India Memoir 3, p. 165–183.
- Daneš, Z. F., 1981, Preliminary Bouguer gravity map, southern Cascade mountains area, Washington: Washington Division of Geology and Earth Resources Open File Report 81-4, 1 sheet, scale 1:250,000.
- Daneš, Z. F.; Phillips, W. M., 1983, Complete Bouguer gravity anomaly map, Cascade mountains, Washington: Washington Division of Geology and Earth Resources Geophysical Map GM-27, 2 sheets, scale 1:250,000.
- Daneš, Z. F., *see also*
Bonini, W. E. [and others], 1974. Hammond, P. E. [and others], 1976.
- Darton, N. H., 1920, Geothermal data of the United States including many original determinations of underground temperature: U.S. Geological Survey Bulletin 701, 97 p.
- *Dassow, J. A.; Steinberg, M. A., 1973, The technological basis for development of aquaculture to produce low-cost food fish: *Marine Fisheries Review*, v. 35, no. 11, p. 6–13.
- Davidson, Marie, 1976, Geothermal energy in the Pacific Northwest: U.S. Federal Energy Administration (Seattle, Wash.), Northwest Federal Regional Council, 32 p.
- Davis, A. E.; Enderlin, W. I.; Blahnik, D. E.; Jacobson, J. J.; Weakley, S. A., 1980, Assessment of geothermal energy as a power source for U.S. aluminum reduction plants. *In* Bloomquist, R. G.; Wonstolen, K. A., editors, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing: Washington State Energy Office WAOENG-80-16, p. V1-1 – V1-6.
- Davis, E. E., *see* Thomson, R. E. [and others], 1995.
- DeBerry, D. W.; Ellis, P. F.; Thomas, C. C., 1978, Materials selection guidelines for geothermal power systems; First edition: U.S. Department of Energy Division of Geothermal Energy ALO-3904-1, 1 v.
- Decker, R. W., *see* Unger, J. D. [and others], 1970.

- Dehlinger, Peter; Chiburis, E. F.; Collver, M. M., 1965, Local travel-time curves and their geologic implications for the Pacific Northwest states: *Seismological Society of America Bulletin*, v. 55, no. 3, p. 587-607.
- Dellinger, Mark; Higbee, C. V.; Justus, Debra; Rafferty, Kevin; Rivenes, Roger, 1982, Geothermal energy in the northwest—Site specific development analyses: Oregon Institute of Technology Geo-Heat Center, 188 p.
- Denton, J. C., editor, *see* Hickel, W. J., chairman [and others], 1972.
- DeOme, A. J., *see* Dragovich, J. D. [and other], 2006.
- Derkey, P. D.; Johnson, B. R., 1995, Digital maps of low- to moderate-temperature geothermal springs and wells in the Pacific Northwest—A contribution to the Interior Columbia River Basin Ecosystem Management Project: U.S. Geological Survey Open-File Report 95-689, 11 p., 3 plates. [<http://pubs.usgs.gov/of/1995/of95-689/>]
- Derkey, R. E., 1997, Geologic map of the Mead 7.5-minute quadrangle, Spokane County, Washington: Washington Division of Geology and Earth Resources Open File Report 97-3, 9 p., 2 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr97-3_geol_map_mead_24k.zip]
- Derkey, R. E.; Gerstel, W. J.; Logan, R. L., 1998, Geologic map of the Dartford 7.5-minute quadrangle, Spokane County, Washington: Washington Division of Geology and Earth Resources Open File Report 98-6, 9 p., 1 plate, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr98-6_geol_map_dartford_24k.zip]
- Derkey, R. E.; Hamilton, M. M., 2007, Geologic map of the Four Mound Prairie 7.5-minute quadrangle, Spokane and Stevens Counties, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-66, 1 plate, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm66_geol_map_fourmoundprairie_24k.pdf]
- Derkey, R. E.; Hamilton, M. M., 2009, Geologic map of the Olsen Canyon 7.5-minute quadrangle, Lincoln and Stevens Counties, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-71, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm71_geol_map_olsencanyon_24k.pdf]
- Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2003, Geologic map of the Nine Mile Falls 7.5-minute quadrangle, Spokane and Stevens Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-8, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-8_geol_map_ninemilefalls_24k.pdf]
- Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Airway Heights 7.5-minute quadrangle, Spokane County, Washington: Washington Division of Geology and Earth Resources Open File Report 2004-1, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-1_geol_map_airwayheights_24k.pdf]
- Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Spokane Northwest 7.5-minute quadrangle, Spokane County, Washington: Washington Division of Geology and Earth Resources Open File Report 2004-3, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-3_geol_map_spokanenw_24k.pdf]
- Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Greenacres 7.5-minute quadrangle, Spokane County, Washington: Washington Division of Geology and Earth Resources Open File Report 2004-11, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-11_geol_map_greenacres_24k.pdf]
- Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2004, Geologic map of the Washington portions of the Liberty Lake 7.5-minute quadrangle and the south half of the Newman Lake 7.5-minute quadrangle, Spokane County: Washington Division of Geology and Earth Resources Open File Report 2004-12, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-12_geol_map_libertylk_newmanlk_24k.pdf]
- Derkey, R. E.; Hamilton, M. M.; Stradling, D. F., 2005, Geologic map of the Deer Park 7.5-minute quadrangle, Spokane County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-54, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm54_geol_map_deerpark_24k.pdf]
- Derkey, R. E.; Hamilton, M. M.; Stradling, D. F.; Kiver, E. P., 1999, Preliminary geologic maps of the Spokane NE and SE 7.5-minute quadrangles, Spokane County, Washington: Washington Division of Geology and Earth Resources Open File Report 99-6, 3 sheets, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr99-6_geol_map_spokanene_spokanese_24k.zip]
- Derkey, R. E.; Stradling, D. F.; Lindsey, K. A.; Tolan, T. L., 2006, Geologic map of the College Place and Walla Walla 7.5-minute quadrangles, Walla Walla County, Washington, and Umatilla County, Oregon: Washington Division of Geology and Earth Resources Geologic Map GM-62, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm62_geol_map_collegeplace_wallawalla_24k.pdf]
- Derkey, R. E., *see also* Hamilton, M. M. [and others], 2004. Hamilton, M. M. [and other], 2005.
- *Deshaye, Joyce, 1992, A regulatory guide to leasing, permitting, and licensing in Idaho, Montana, Oregon, and Washington: U.S. Bonneville Power Administration DOE/BP-2017, 229 p.
- Dethier, D. P.; Frank, D. G.; Pevear, D. R., 1981, Preliminary chemical analysis of thermal waters at Mount St. Helens, Washington [abstract]: *Eos (American Geophysical Union Transactions)*, v. 62, no. 5, p. 62.
- Dethier, D. P.; White, D. P.; Brookfield, C. M., 1996, Maps of the surficial geology and depth to bedrock of False Bay, Friday Harbor, Richardson, and Shaw Island 7.5-minute quadrangles, San Juan County, Washington: Washington Division of Geology and Earth Resources Open File Report 96-7, 7 p., 2 plates, scale 1:24,000.
- DeVries, L. K., *see* Barker, L. M. [and others], 1976.
- Dickson, M. H.; Fanelli, Mario, editors, 2005, Geothermal energy—Utilization and technology: Earthscan, 205 p.
- Dickson, M. H.; Fanelli, Mario, editors, 1990, Small geothermal resources—A guide to development and utilization: United Nations Institute for Training and Research UNITAR/UNDP Centre on Small Energy Resources (Rome, Italy), 274 p.
- DiPippo, Ronald, 1980, Geothermal energy as a source of electricity—A worldwide survey of the design and operation of geothermal power plants: U.S. Department of Energy DOE/RA/28320-1, 370 p.

- *DiPippo, Ronald, 1999, Small geothermal power plants—Design, performance and economics: Geo-Heat Center Quarterly Bulletin, v. 20, no. 2, p. 1-8. [<http://geoheat.oit.edu/bulletin/bull20-2/art1.pdf>]
- DiPippo, Ronald, 2008, Geothermal power plants—Principles, applications, case studies and environmental impact; 2nd ed.: Elsevier Ltd., 493 p.
- *DiPippo, Ronald; Ellis, P. F., II, 1990, Geothermal information series, Part 2—Geothermal power cycle selection guidelines: Draft final report, EPRI project RP3034-1: Radian Corporation [under contract to] Electric Power Research Institute, 1 v.
- DiPippo, Ronald, *see also* Kestin, Joseph [and others], 1980.
- Donaldson, I. G., *see* Grant, M. A. [and others], 1982.
- *Doyle, P. T.; Silvester, L. F., 1986?, Analysis of field performance data on shell-and-tube heat exchangers in geothermal service: Lawrence Berkeley Laboratory LBL-14160 Revised, 36 p.
- Dragovich, J. D.; Anderson, M. L.; Walsh, T. J.; Johnson, B. L.; Adams, T. L., 2007, Geologic map of the Fall City 7.5-minute quadrangle, King County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-67, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm67_geol_map_fallcity_24k.zip]
- Dragovich, J. D.; DeOme, A. J., 2006, Geologic map of the McMurray 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington, with a discussion of the evidence for Holocene activity on the Darrington–Devils Mountain fault zone: Washington Division of Geology and Earth Resources Geologic Map GM-61, 1 sheet, scale 1:30,000, with 18 p. text. [http://www.dnr.wa.gov/Publications/ger_gm61_geol_map_mcmurray_24k.zip]
- Dragovich, J. D.; Gilbertson, L. A.; Lingley, W. S., Jr.; Polenz, Michael; Glenn, Jennifer, 2002, Geologic map of the Darrington 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2002-7, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2002-7_geol_map_darrington_24k.pdf]
- Dragovich, J. D.; Gilbertson, L. A.; Lingley, W. S., Jr.; Polenz, Michael; Glenn, Jennifer, 2002, Geologic map of the Fortson 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2002-6, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2002-6_geol_map_fortson_24k.pdf]
- Dragovich, J. D.; Gilbertson, L. A.; Norman, D. K.; Anderson, Garth; Petro, G. T., 2002, Geologic map of the Utsalady and Conway 7.5-minute quadrangles, Skagit, Snohomish, and Island Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2002-5, 34 p., 2 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2002-5_geol_map_utsalady_conway_24k.zip]
- Dragovich, J. D.; Grisamer, C. L., 1998, Quaternary stratigraphy, cross sections, and general geohydrologic potential of the Bow and Alger 7.5-minute quadrangles, western Skagit County, Washington: Washington Division of Geology and Earth Resources Open File Report 98-8, 29 p., 6 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr98-8_quat_strat_bow_alger.zip]
- Dragovich, J. D.; Logan, R. L.; Schasse, H. W.; Walsh, T. J.; Lingley, W. S., Jr.; Norman, D. K.; Gerstel, W. J.; Lapen, T. J.; Schuster, J. E.; Meyers, K. D., 2002, Geologic map of Washington—Northwest quadrant: Washington Division of Geology and Earth Resources Geologic Map GM-50, 3 sheets, scale 1:250,000, with 72 p. text.
- Dragovich, J. D.; Norman, D. K., compilers, 1995, Geologic map of the west half of the Twisp 1:100,000 quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 95-3, 63 p., 1 plate, scale 1:100,000.
- Dragovich, J. D.; Norman, D. K.; Grisamer, C. L.; Logan, R. L.; Anderson, Garth, 1998, Geologic map and interpreted geologic history of the Bow and Alger 7.5-minute quadrangles, western Skagit County, Washington: Washington Division of Geology and Earth Resources Open File Report 98-5, 80 p., 3 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr98-5_geol_map_bow_alger_24k.zip]
- Dragovich, J. D.; Norman, D. K.; Haugerud, R. A.; Miller, R. B., 1997, Geologic map and bedrock history of the Gilbert 7.5-minute quadrangle, Chelan and Okanogan Counties, Washington; Geochronology, by W. C. McClelland and P. Renne: Washington Division of Geology and Earth Resources Geologic Map GM-46, 1 sheet, scale 1:24,000, with 67 p. text.
- Dragovich, J. D.; Norman, D. K.; Haugerud, R. A.; Pringle, P. T., 1997, Geologic map and interpreted geologic history of the Kendall and Deming 7.5-minute quadrangles, western Whatcom County, Washington: Washington Division of Geology and Earth Resources Open File Report 97-2, 39 p., 3 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr97-2_geol_map_kendall_deming_24k.zip]
- Dragovich, J. D.; Norman, D. K.; Lapen, T. J.; Anderson, Garth, 1999, Geologic map of the Sedro-Woolley North and Lyman 7.5-minute quadrangles, western Skagit County, Washington: Washington Division of Geology and Earth Resources Open File Report 99-3, 37 p., 4 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr99-3_geol_map_sedrowoolley_lyman_24k.zip]
- Dragovich, J. D.; Petro, G. T.; Thorsen, G. W.; Larson, S. L.; Foster, G. R.; Norman, D. K., 2005, Geologic map of the Oak Harbor, Crescent Harbor, and part of the Smith Island 7.5-minute quadrangles, Island County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-59, 2 sheets, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm59_geol_map_oakharbor_crescentharbor_24k.zip]
- Dragovich, J. D.; Stanton, B. W.; Lingley, W. S., Jr.; Griesel, G. A.; Polenz, Michael, 2003, Geologic map of the Mount Higgins 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-12, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-12_geol_map_mount_higgins_24k.pdf]
- Dragovich, J. D.; Stanton, B. W.; Lingley, W. S., Jr.; Griesel, G. A.; Polenz, Michael, 2003, Geologic map of the Oso 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-11, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-11_geol_map_oso_24k.pdf]

- Dragovich, J. D.; Troost, M. L.; Norman, D. K.; Anderson, Garth; Cass, Jason; Gilbertson, L. A.; McKay, D. T., Jr., 2000, Geologic map of the Anacortes South and La Conner 7.5-minute quadrangles, Skagit and Island Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2000-6, 4 sheets, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2000-6_geol_map_anacortess_laconner_24k.zip]
- Dragovich, J. D.; Walsh, T. J.; Anderson, M. L.; Hartog, Renate; DuFrane, S. A.; Vervoot, Jeff; Williams, S. A.; Cakir, Recep; Stanton, K. D.; Wolff, F. E.; Norman, D. K.; Czajkowski, J. L., 2009, Geologic map of the North Bend 7.5-minute quadrangle, King County, Washington, with a discussion of major faults, folds, and basins in the map area: Washington Division of Geology and Earth Resources Geologic Map GM-73, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm73_geol_map_northbend_24k.zip]
- Dragovich, J. D.; Wolfe, M. W.; Stanton, B. W.; Norman, D. K., 2004, Geologic map of the Stimson Hill 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2004-9, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-9_geol_map_stimsonhill_24k.pdf]
- Dragovich, J. D., *see also* Polenz, Michael [and others], 2005.
- Drost, B. W., *see* Hearn, P. P. [and others], 1985.
- Duffield, W. A., 1983, Geologic framework for geothermal energy in the Cascade Range: Geothermal Resources Council Transactions, v. 7, p. 243-246.
- Duffield, W. A.; Guffanti, Marianne, 1981, The geothermal research program of the U.S. Geological Survey: U.S. Geological Survey Open-File Report 81-564, 108 p.
- Duffield, W. A.; Sass, J. H., 2003, Geothermal energy—Clean power from the Earth's heat: U.S. Geological Survey Circular 1249, 36 p. [<http://pubs.usgs.gov/circ/2004/c1249/>]
- Duffield, W. A., *see also* Muffler, L. J. P. [and others], 1982.
- DuFrane, S. A., *see* Dragovich, J. D. [and others], 2009.
- *EG&G Idaho, Inc., 1980, Rules of thumb for geothermal direct applications—Resource rules, industrial uses, space heating, economics, conversion factors: EG&G Idaho, Inc. [under contract to] U.S. Department of Energy, 10 p.
- EG&G Idaho, Inc., 1981, Case studies of low-to-moderate temperature hydrothermal energy development: Lawrence Berkeley Laboratory; Idaho National Engineering Laboratory IDO-10098, 116 p.
- *EG&G Idaho, Inc.; Lawrence Berkeley Laboratory, 1982, Low-to-moderate temperature hydrothermal reservoir engineering handbook: U.S. Department of Energy Idaho Operations Office IDO-10099, 2 v.
- Easterbrook, D. J., 1975, Mount Baker eruptions: *Geology*, v. 3, no. 12, p. 679-682.
- Easterbrook, D. J., 1976, Pleistocene and Recent volcanic activity of Mt. Baker, Washington [abstract]: *Geological Society of America Abstracts with Programs*, v. 8, no. 6, p. 849.
- Edelstein, R. H., *see* Blair, P. D. [and others], 1982.
- Edwards, L. M.; Chilingar, G. V.; Rieke, H. H., III; Fertl, W. H., editors, 1982, Handbook of geothermal energy: Gulf Publishing Co., 613 p.
- *Eichelberger, L., 1980, Cascade Range, Washington and Oregon—General case. *In* Cremer, G. M.; Duffield, R. B.; Smith, M. C.; Wilson M. G., compilers and editors, Hot dry rock geothermal energy development program, annual report fiscal year 1979: Los Alamos Scientific Laboratory LA-8280-HDR, p. 191-192.
- Eisenberg, R. A., *see* Leffel, C. S., Jr. [and others], 1977.
- *Electric Power Research Institute, 1987, Proceedings; Tenth annual geothermal conference and workshop: Electric Power Research Institute, 1 v.
- Ellingson, J. A., 1968, Late Cenozoic volcanic geology of the White Pass—Goat Rocks area, Cascade mountains, Washington: Washington State University Doctor of Philosophy thesis, 112 p.
- Ellingson, J. A., 1969, Geology of the Goat Rocks volcano, southern Cascade mountains, Washington [abstract]: *Geological Society of America Abstracts with Programs* for 1969, Part 3, p. 15.
- Ellingson, J. A., 1972, The rocks and structure of the White Pass area, Washington: *Northwest Science*, v. 46, no. 1, p. 8-24.
- Ellingson, J. A., *see also* Hammond, P. E. [and others], 1977.
- *Ellis, A. J.; Mahon, W. A. J., 1977, Chemistry and geothermal systems: Academic Press, 392 p.
- Ellis, P. F., *see* DeBerry, D. W. [and others], 1978.
- *Ellis, P. F., II, 1985, Companion study guide to short course on geothermal corrosion and mitigation in low temperature geothermal heating systems: Oregon Institute of Technology Geo-Heat Center, 25 p.
- Ellis, P. F., II, *see also* DiPippo, Ronald [and others], 1990.
- Enderlin, W. I., *see* Davis, A. E. [and others], 1980.
- *Energy Design Update, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation: *Energy Design Update*, v. 17, no. 9, 7 p.
- *Energy Design Update, 1998, New drilling method may chop 25% off geothermal loop costs: *Energy Design Update*, v. 18, no. 6, 3 p.
- *Energy Design Update, 2001, New heat pump will tap Btus in municipal water: *Energy Design Update*, v. 21, no. 3, p. 6.
- Engineering Resources, Ltd., *see* Allen, Eliot, and Associates, Inc. [and others], 1984.
- Ertec Western, Inc., 1981, Revisions to, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report: Ertec Western, Inc. [under contract to] Rockwell Hanford Operations, 1 v.
- Evans, W. C., *see* Barnes, Ivan [and others], 1981. Ingebritsen, S. E [and others], 2003. Mariner, R. H. [and others], 1982, 1989, 1990, 1993, 2003.
- *Fahys-Smith, Virginia; Wonstolen, K. A., 1981, Guidebook to water source heat pumps; A review of system technology, cost effectiveness, and state policy concerns: National Conference of State Legislatures (Denver, Colo.), 22 p.
- Fairbank, B. D., *see* Britton, J. M. [and others], 1984.
- Fanelli, Mario, *see* Barbier, Enrico [and others], 1973. Dickson, M. H. [and other], 1990.
- Farhar, B. C.; Heimiller, D. M., 2003, Opportunities for near-term geothermal development on public lands in the western United States: U.S. Department of Energy, National Renewable Energy Laboratory, 1 DVD. [<http://www.nrel.gov/gocs/fy03osti/33105CD.zip>]
- Fassbender, L. L., 1979, Geothermal electric power in the Pacific Northwest: Geothermal Resources Council Transactions, v. 3, p. 197-199.
- Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VI, Geothermal generation; Draft: Battelle Pacific Northwest Laboratories, 55 p.

- Fassbender, L. L., 1982, Assessment of electric power conservation and supply resources in the Pacific Northwest; Volume VII, Geothermal space heating; Draft: Battelle Pacific Northwest Laboratories, 35 p.
- Fecht, K. R., *see* Schuster, J. E. [and others], 1997.
- Fertl, W. H., *see* Edwards, L. M. [and others], 1982.
- Fierstein, Judy, *see* Hildreth, Wes [and others], 1983, 1985, 1990.
- Finkelman, R. B., *see* McLane, J. E. [and others], 1976.
- Finn, C. A., 1985, Gravity and magnetic studies in the Cascade Range. *In* Guffanti, Marianne; Muffler, L. J. P., editors, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 56-58.
- Finn, C. A.; Williams, D. L., 1983, Gravity studies in the Cascade Range: Geothermal Resources Council Transactions, v. 7, p. 247-251.
- Fisher, Kevin, 1985, Marketing geothermal district heating: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 1, p. 6-7.
- Fiske, R. S., 1960, Stratigraphy and structure of lower and middle Tertiary rocks, Mount Rainier National Park, Washington: Johns Hopkins University Doctor of Philosophy thesis. 163 p., 1 plate, scale 1:62,500.
- Fiske, R. S.; Hopson, C. A.; Waters, A. C., 1963, Geology of Mount Rainier National Park, Washington: U.S. Geological Survey Professional Paper 444, 93 p., 1 plate.
- *Fjärrvarmebyran i Vasteras AB, 1986, IEA district heating—Cost analysis of district heating networks: National Energy Administration (Stockholm, Sweden), 17 p.
- Forcella, L. S., 1982, Geochemistry of thermal and mineral waters in the Cascade mountains of western North America: Ground Water, v. 20, no. 1, p. 39-47.
- Ford, A. B., 1957, Petrology of the Sulphur Mountain area, Glacier Peak quadrangle, Washington: University of Washington Master of Science thesis, 103 p., 2 plates.
- Ford, A. B., 1959, Geology and petrology of the Glacier Peak quadrangle, northern Cascades, Washington: University of Washington Doctor of Philosophy thesis, 2 v., 374 p., 3 plates.
- Ford, A. B., *see also* Crowder, D. F. [and others], 1966.
- Fornes, A. O., 1981, Direct-use geothermal district heating project in the U.S.—A summary: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 6, no. 3, p. 3-6.
- Forster, C., *see* Britton, J. M. [and others], 1984.
- Foster, G. R., *see* Dragovich, J. D. [and others], 2005.
- Fournier, R. O., chairperson, 1976, Second United Nations symposium on the development and use of geothermal resources; Proceedings: U.S. Government Printing Office, 3 v.
- Fournier, R. O., 1989, Maximum depths of earthquakes as an aid in evaluating convective and conductive heat fluxes from the Cascade province and adjacent regions. *In* Muffler, L. J. P.; Weaver, C. S.; Blackwell, D. D., editors, Proceedings of workshop XLIV—Geological, geophysical, and tectonic setting of the Cascade Range: U.S. Geological Survey Open-File Report 89-178, p. 171-198.
- Fournier, R. O.; Truesdell, A. H., 1974, Geochemical indicators of subsurface temperature—Part 2, Estimation of temperature and fraction of hot water mixed with cold water: U.S. Geological Survey Journal of Research, v. 2, no. 3, p. 263-270.
- Fournier, R. O.; White, D. E.; Truesdell, A. H., 1974, Geochemical indicators of subsurface temperature—Part 1, Basic assumptions: U.S. Geological Survey Journal of Research, v. 2, no. 3, p. 259-262.
- Fowler, C. S., 1935, The origin of the sulfur deposits of Mount Adams: State College of Washington Master of Science thesis, 23 p.
- Foxworthy, B. L., 1962, Geology and groundwater resources of the Ahtanum Valley, Yakima County, Washington: U.S. Geological Survey Water-Supply Paper 1598, 100 p., 3 plates.
- Frank, D. G., 1975, Subglacial transfer of geothermal fluids in Boulder Glacier, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 56, no. 8, p. 532.
- Frank, D. G., 1980, Hydrothermal alteration at Mount Baker, Washington [abstract]: U.S. Geological Survey Professional Paper 1175, p. 198.
- Frank, D. G., 1985, Hydrothermal processes at Mount Rainier, Washington: University of Washington Doctor of Philosophy thesis, 195 p.
- Frank, D. G., 1986, Hydrothermal processes at Mount Rainier, Washington [abstract]: Dissertation Abstracts International, v. 46, no. 7, Section B, p. 2236-B.
- Frank, D. G., 1995, Surficial extent and conceptual model of hydrothermal system at Mount Rainier, Washington: Journal of Volcanology and Geothermal Research, v. 65, no. 1-2, p. 51-80.
- Frank, D. G., 2000, Hydrothermal indicators in streams and springs at Mount Rainier [abstract]: Washington Geology, v. 28, no. 1/2, p. 24. [http://www.dnr.wa.gov/Publications/ger_washington_geology_2000_v28_nol1-2.pdf]
- Frank, D. G.; Krimmel, R. M., 1978, Mount Baker thermal activity continues—Visual observations, April 1976 to August 1977 [abstract]: Eos (American Geophysical Union Transactions), v. 59, no. 4, p. 236.
- Frank, D. G.; Krimmel, R. M., 1980, Progress report on chemical monitoring of the subglacial stream draining Sherman Crater, Mount Baker, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 61, no. 6, p. 69.
- Frank, D. G.; Meier, M. F.; Swanson, D. A.; and others, 1977, Assessment of increased thermal activity at Mount Baker, Washington, March 1975–March 1976: U.S. Geological Survey Professional Paper 1022-A, 49 p.
- Frank, D. G.; Post, A. S., 1976, Documentation of thermal changes by photographs of snow and ice features at Mount Baker, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 57, no. 2, p. 87.
- Frank, D. G.; Post, A. S., 1976, Hydrothermal activity at Mount Baker, Washington [abstract]: U.S. Geological Survey Professional Paper 1000, p. 170-171.
- Frank, D. G.; Post, A. S.; Friedman, J. D., 1975, Recurrent geothermally induced debris avalanches on Boulder Glacier, Mount Baker, Washington: U.S. Geological Survey Journal of Research, v. 3, no. 1, p. 77-87.
- Frank, D. G.; Realmuto, V. J., 1995, Leakage from the active hydrothermal system at Mount Rainier, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 76, no. 46, Supplement, p. F644-F645.
- Frank, D. G., *see also* Dethier, D. P. [and others], 1981. Friedman, J. D. [and other], 1975. Friedman, J. D. [and others], 1974, 1977, 1980, 1981, 1984, 1991. Kieffer, H. H. [and other], 1980. Kieffer, H. H. [and others], 1980, 1984. Malone, S. D. [and others], 1975.

- Fraser, D. C., 1983, Airborne electromagnetic surveys of the Cascade Range, western United States; with a preface by D. B. Hoover: U.S. Geological Survey Open-File Report 83-92, 64 p., 30 plates.
- Freeman and Associates, *see* SRI International [and others], 1980.
- Fretwell, M. O., 1976, Water quality sampling and analysis activities related to Mount Baker's recent volcanic activity: *Eos* (American Geophysical Union Transactions), v. 57, no. 2, p. 89.
- Friedman, J. D., 1972, Aerial thermal surveillance of volcanoes of the Cascade Range, Washington, Oregon, and northern California [abstract]: *Eos* (American Geophysical Union Transactions), v. 53, no. 4, p. 533.
- Friedman, J. D., 1974, Thermal surveillance of Cascade Range volcanoes [abstract]: U.S. Geological Survey Professional Paper 900, p. 225.
- Friedman, J. D., 1982, Thermal energy at Mount St. Helens [abstract]: U.S. Geological Survey Professional Paper 1275, p. 262-263.
- Friedman, J. D.; Frank, D. G., 1974, Thermal activity at Mount Baker volcano, Washington [abstract]: *Eos* (American Geophysical Union Transactions), v. 55, no. 4, p. 488.
- Friedman, J. D.; Frank, D. G., 1977, Thermal surveillance of active volcanoes using the LANDSAT-1 data collection system; Part III, Heat discharge from Mount St. Helens, Washington: U.S. Geological Survey Open-File Report 77-541, 30 p.
- Friedman, J. D.; Frank, D. G., 1980, Infrared surveys, radiant flux, and total heat discharge at Mount Baker volcano, Washington, between 1970 and 1975: U.S. Geological Survey Professional Paper 1022-D, 33 p.
- Friedman, J. D.; Frank, D. G., 1981, Aerial infrared mapping of thermal activity at Cascade Range volcanoes [abstract]: *Eos* (American Geophysical Union Transactions), v. 62, no. 5, p. 62.
- Friedman, J. D.; Frank, D. G.; Kieffer, H. H.; Sawatzky, D. L., 1981, Thermal infrared surveys of the May 18 crater, subsequent lava domes, and associated volcanic deposits. *In* Lipman, P. W.; Mullineaux, D. R., editors, *The 1980 eruptions of Mount St. Helens*, Washington: U.S. Geological Survey Professional Paper 1250, p. 279-293.
- Friedman, J. D.; Olhoeft, G. R.; Johnson, G. R.; Frank, D. G., 1984, Thermal energy yield of Mt. St. Helens [abstract]: U.S. Geological Survey Professional Paper 1375, p. 263.
- Friedman, J. D.; Realmuto, V. J.; Frank, D. G., 1991, Comparison of thermal features of Cordilleran volcanoes using airborne sensing systems, with special reference to Mount St. Helens, WA [abstract]: Geological Society of America Abstracts with Programs, v. 23, no. 2, p. 26.
- Friedman, J. D.; Realmuto, V. J.; Frank, D. G., 1991, Comparison of thermal features of Cordilleran volcanoes using airborne sensing systems, with special reference to Mount St. Helens, WA [abstract]: *Seismological Research Letters*, v. 62, no. 1, p. 26.
- Friedman, J. D., *see also* Frank, D. G. [and others], 1975. Kieffer, H. H. [and others], 1980, 1984.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume I—Narrative report: Rockwell Hanford Operations RSD BWI-TI-001, 1 v., 8 plates.
- Fugro, Inc., 1980, Assessment of volcanic and geothermal activity in the Pasco Basin and vicinity; Volume II—Bibliography: Rockwell Hanford Operations RSD-BWI-TI-001, 1 v.
- *Gagliano, Troy, 2003, Geothermal energy—A primer on state policies and technology: National Conference of State Legislators, 12 p., 1 map.
- Gambill, D. T., *see* Aldrich, M. J. [and others], 1981.
- Geo-Heat Center, 2004, Geothermal direct-use case studies II: *Geo-Heat Center Quarterly Bulletin*, v. 25, no. 1, 22 p. [<http://geoheat.oit.edu/bulletin/bull25-1/bull25-1-all.pdf>]
- Geo-Heat Center, 2004, Washington geothermal publications list for Geopowering the West: *Geo-Heat Center*, 6 p.
- *Geothermal Resources Council, 1974, Geothermal regulations—Papers presented in conjunction with Special Short Course no. 2, 23–24 May 1974, South San Francisco, California: Geothermal Resources Council Special Study Guide 2, 1 v.
- Geothermal Resources Council, 1975, Financial aspects of geothermal resource development—Special Short Course no. 3, 23–24 October 1975, San Francisco, California: Geothermal Resources Council Special Study Guide 3, 138 p.
- Geothermal Resources Council, 1976, Proceedings—State–Federal geothermal regulatory interface workshop, 17–19 November 1976, Asilomar, California: Geothermal Resources Council; California Energy Resources Conservation and Development Commission, 79 p.
- Geothermal Resources Council, 1977, Geothermal—State of the art: Geothermal Resources Council Transactions, v. 1, 310 p.
- *Geothermal Resources Council, 1978, Direct utilization of geothermal energy—A symposium: Geothermal Resources Council [under contract to] U.S. Department of Energy CONF-780133, 145 p.
- Geothermal Resources Council, 1978, Geothermal energy—A novelty becomes resource: *Geothermal Resources Council Transactions*, v. 2, 2 v.
- Geothermal Resources Council, 1979, Expanding the geothermal frontier: *Geothermal Resources Council Transactions*, v. 3, 808 p.
- Geothermal Resources Council, 1979, Geophysical exploration methods for geothermal resources—Technical Training Course no. 1, June 4–6, 1979, Pacific Grove, California: Geothermal Resources Council Technical Training Course 1, 1 v.
- *Geothermal Resources Council, 1980, Basic geology for the exploration of geothermal resources, July 21–23, 1980, Klamath Falls, Oregon: Geothermal Resources Council Technical Training Course 5, 1 v.
- *Geothermal Resources Council, 1980, Geochemical fundamentals for geothermal exploration and reservoir evaluation, presented November 5–7, 1980, Reno, Nevada: Geothermal Resources Council Technical Training Course 6, 1 v.
- Geothermal Resources Council, 1980, Geothermal—Energy for the eighties: *Geothermal Resources Council Transactions*, v. 4, 834 p.
- *Geothermal Resources Council, 1981, Geothermal energy—The international success story: *Geothermal Resources Council Transactions*, v. 5, 749 p.
- Geothermal Resources Council, 1981, Geothermal potential of the Cascade mountain range—Exploration and development: *Geothermal Resources Council Special Report 10*, 79 p.
- Geothermal Resources Council, 1981, Symposium on the geothermal potential of the Cascade mountain range, 19–22 May 1981, Portland, Oregon; Program with abstracts: *Geothermal Resources Council*, 16 p.
- Geothermal Resources Council, 1982, Geothermal energy—Turn on the power!: *Geothermal Resources Council Transactions*, v. 6, 546 p.
- Geothermal Resources Council, 1983, Geothermal resources—Energy on tap!: *Geothermal Resources Council Transactions*, v. 7, 627 p.

- *Geothermal Resources Council, 1984, Geothermal energy—Bet on it!: Geothermal Resources Council Transactions, v. 8, 537 p.
- *Geothermal Resources Council, 1985, 1985 international symposium on geothermal energy: Geothermal Resources Council Transactions, v. 9, 2 v., 1166 p.
- *Geothermal Resources Council, 1986, Geothermal energy—A milestone year: Geothermal Resources Council Transactions, v. 10, 499 p.
- *Geothermal Resources Council, 1987, Building for the future: Geothermal Resources Council Transactions, v. 11, 641 p.
- Geothermal Resources Council, 1988, New horizons: Geothermal Resources Council Transactions, v. 12, 499 p.
- *Geothermal Resources Council, 1989, The Geysers—Three decades of achievement—A window on the future: Geothermal Resources Council Transactions, v. 13, 684 p.
- *Geothermal Resources Council, 1990, 1990 international symposium on geothermal energy: Geothermal Resources Council Transactions, v. 14, 2 v., 1704 p.
- *Geothermal Resources Council, 1991, Transactions: Geothermal Resources Council Transactions, v. 15, 500 p.
- *Geothermal Resources Council, 1992, 20th anniversary: Geothermal Resources Council Transactions, v. 16, 668 p.
- Geothermal Resources Council, 2008, Oregon/Washington geothermal lease sale: Geothermal Bulletin, v. 37, no. 1, p. 12.
- *GeothermEx, Inc., 1987, Considerations for a program to confirm a 100-MW geothermal resource in the Pacific Northwest; Draft: GeothermEx, Inc. (Richmond, Calif.), 1 v., 3 plates.
- Gerard, Thomas J., and Associates, Inc., *see* Sackville-West Cortner [and others], 1984.
- Gerstel, W. J.; Lingley, W. S., Jr., compilers, 2000, Geologic map of the Forks 1:100,000 quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 2000-4, 36 p., 2 plates, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2000-4_geol_map_forks_100k.zip]
- Gerstel, W. J.; Lingley, W. S., Jr., 2003, Geologic map of the Mount Olympus 1:100,000 quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-4, 1 sheet, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-4_geol_map_mountolympus_100k.pdf]
- Gerstel, W. J., *see also*
Derkey, R. E. [and others], 1998.
Dragovich, J. D. [and others], 2002.
Lingley, W. S., Jr. [and others], 1996.
- Geyer, J. D.; Kellerman, L. M.; Bloomquist, R. G., 1989, Assessment of geothermal resources for electric power generation in the Pacific Northwest; Draft issue paper: Northwest Power Planning Council Staff Issue Paper 89-36, 45 p.
- Geyer, J. D., *see also* Bloomquist, R. G. [and others], 1987, 1989.
- Gilbertson, L. A., *see* Dragovich, J. D. [and others], 2000, 2002.
- Gillespie, B. A., *see* Hooper, P. R. [and other], 1996.
- Ginsberg, I. W., 1982, Thermal infrared imagery of the Cascade Range volcanics. *In* Martin, R. C.; Davis, J. F., Status of volcanic prediction and emergency response capabilities in volcanic hazard zones of California: California Division of Mines and Geology Special Publication 63, p. 131-136.
- Gizienski, S. F.; McEuen, R. B.; Birkhahn, P. C., 1975, Regional evaluation of the geothermal resource potential in central Washington State: Woodward-Gizienski and Associates, 113 p.
- Glenn, Jennifer, *see* Dragovich, J. D. [and others], 2002.
- Godwin, L. H.; Haigler, L. B.; Rioux, R. L.; White, D. E.; Muffler, L. J. P.; Wayland, R. G., 1971, Classification of public lands valuable for geothermal steam and associated geothermal resources: U.S. Geological Survey Circular 647, 18 p.
- Goff, F. E., *see*
Heiken, Grant [and others], 1982.
Shevenell, Lisa [and others], 1990.
Shevenell, Lisa [and other], 1995.
- Golabi, Kamal, *see* Scherer, C. R. [and others], 1978.
- Gold, D. P., *see* Vice, D. H. [and others], 1990.
- *Goldstein, N. E., 1984, Fracture detection and mapping for geothermal reservoir definition—An assessment of current technology, research, and research needs: Lawrence Berkeley Laboratory Earth Sciences Division LBL-18146, 41 p.
- Gosnold, W. D., *see* Morgan, Paul [and others], 1989.
- *Grant, M. A.; Donaldson, I. G.; Bixley, P. F., 1982, Geothermal reservoir engineering: Academic Press, 369 p.
- Green, B. D.; Nix, R. G., 2006, Geothermal—The energy under our feet—Geothermal resource estimates for the United States: U.S. National Renewable Energy Laboratory Technical Report NREL/TP-840-40665, 17 p. [<http://www1.eere.energy.gov/geothermal/pdfs/40665.pdf>]
- Green, S. J., *see* Barker, L. M. [and others], 1976.
- Greene, G. W., *see* Sass, J. H. [and others], 1968, 1971.
- Gresens, R. L., *see* Campbell, K. V. [and others], 1970.
- Griesel, G. A., *see* Dragovich, J. D. [and others], 2003.
- Griffin, W. C.; Sceva, J. E.; Swenson, H. A.; Mundorff, M. J., 1962, Water resources of the Tacoma area, Washington: U.S. Geological Survey Water-Supply Paper 1499-B, 101 p., 4 plates.
- Grim, P. J., *see* Berry, G. W. [and others], 1980.
- Grisamer, C. L., *see*
Dragovich, J. D. [and other], 1998.
Dragovich, J. D. [and others], 1998.
- Grose, L. T., 1971, Geothermal energy—Geology, exploration, and developments; Part 1: Colorado School of Mines Mineral Industries Bulletin, v. 14, no. 6, p. 1-14.
- Grose, L. T., 1975, Geothermal energy—Geology, exploration, and developments; Part I. *In* Betz, Frederick, Jr., editor, Environmental geology: Dowden, Hutchinson and Ross Benchmark Papers in Geology, v. 25, p. 130-143.
- Gruetter, J. G., 1971, Electric energy market supply in the Pacific Northwest. *In* Washington Department of Natural Resources, Papers presented at the First Northwest Conference on Geothermal Power: Washington Department of Natural Resources, 16 p.
- Guffanti, Marianne, 1985, Previous estimates by the U.S. Geological Survey of geothermal resources of the Cascade Range. *In* Guffanti, Marianne; Muffler, L. J. P., editors, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 10-13.
- Guffanti, Marianne; Muffler, L. J. P., 1985, Geothermal resources of the Cascades; USGS workshop: Eos (American Geophysical Union Transactions), v. 66, no. 43, p. 722-723.
- Guffanti, Marianne; Muffler, L. J. P., editors, 1985, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, 85 p.
- Guffanti, Marianne; Nathenson, Manuel, 1980, Preliminary map of temperature gradients in the conterminous United States: Geothermal Resources Council Transactions, v. 4, p. 53-56.

- Guffanti, Marianne, *see also*
 Brook, C. A. [and others], 1979.
 Duffield, W. A. [and others], 1981.
 Muffler, L. J. P. [and other], 1989.
 Nathanson, Manuel [and others], 1983,
 1988.
- Gulick, C. W., *see*
 Schuster, J. E. [and others], 1997.
 Stoffel, K. L. [and others], 1991.
- Haigler, L. B., *see* Godwin, L. H. [and
 others], 1971.
- Hamilton, M. M.; Derkey, R. E., 2005,
 Geologic map of the Chattaroy 7.5-
 minute quadrangle, Spokane County,
 Washington: Washington Division of
 Geology and Earth Resources Geologic
 Map GM-55, 1 sheet, scale 1:24,000.
[\[http://www.dnr.wa.gov/Publications/
 ger_gm55_geol_map_chattaroy_
 24k.pdf\]](http://www.dnr.wa.gov/Publications/ger_gm55_geol_map_chattaroy_24k.pdf)
- Hamilton, M. M.; Derkey, R. E.; Stradling,
 D. F., 2004, Geologic map of the Four
 Lakes 7.5-minute quadrangle, Spokane
 County, Washington: Washington
 Division of Geology and Earth
 Resources Open File Report 2004-2, 1
 sheet, scale 1:24,000. [\[http://www.dnr.
 wa.gov/Publications/ger_ofr2004-2_
 geol_map_fourlakes_24k.pdf\]](http://www.dnr.wa.gov/Publications/ger_ofr2004-2_geol_map_fourlakes_24k.pdf)
- Hamilton, M. M.; Derkey, R. E.; Stradling,
 D. F., 2004, Geologic map of the
 Spokane Southwest 7.5-minute
 quadrangle, Spokane County,
 Washington: Washington Division of
 Geology and Earth Resources Open File
 Report 2004-4, 1 sheet, scale 1:24,000.
[\[http://www.dnr.wa.gov/Publications/
 ger_ofr2004-4_geol_map_spokanesw_
 24k.pdf\]](http://www.dnr.wa.gov/Publications/ger_ofr2004-4_geol_map_spokanesw_24k.pdf)
- Hamilton, M. M., *see also*
 Derkey, R. E. [and others], 1999,
 2003, 2004, 2005.
 Derkey, R. E. [and other], 2007, 2009.
- Hammond, P. E., compiler, 1974, Brief
 outline to volcanic stratigraphy and
 guide to geology of southern Cascade
 Range, Washington and northern
 Cascade Range, Oregon—Guidebook for
 geothermal field trip, June 24–29, 1974:
 [Privately published by the author],
 47 p.
- Hammond, P. E., 1975, Preliminary
 geologic map and cross-sections with
 emphasis on Quaternary volcanic rocks,
 southern Cascade mountains,
 Washington: Washington Division of
 Geology and Earth Resources Open File
 Report 75-13, 1 sheet, scale 1:125,000.
- Hammond, P. E., 1980, Reconnaissance
 geologic map and cross sections of the
 southern Washington Cascade Range,
 latitude 45°30'–47°15' N., longitude
 120°45'–122°22.5' W.: Portland State
 University Department of Earth
 Sciences, 31 p., 2 sheets, scale
 1:125,000.
- Hammond, P. E., 2005, Geologic map of the
 Timberwolf Mountain 7.5-minute
 quadrangle, Yakima County,
 Washington: Washington Division of
 Geology and Earth Resources Geologic
 Map GM-60, 1 sheet, scale 1:24,000.
[\[http://www.dnr.wa.gov/Publications/
 ger_gm60_geol_map_timberwolf
 mountain_24k.pdf\]](http://www.dnr.wa.gov/Publications/ger_gm60_geol_map_timberwolf_mountain_24k.pdf)
- Hammond, P. E., 2005, Supplement to
 Geologic Map GM-60, geologic map of
 the Timberwolf Mountain 7.5-minute
 quadrangle, Yakima County,
 Washington: Washington Division of
 Geology and Earth Resources Open File
 Report 2005-5, 1 CD or 1 DVD.
[\[http://www.dnr.wa.gov/Publications/
 ger_ofr2005-5_timberwolfmountain_
 supplement.zip\]](http://www.dnr.wa.gov/Publications/ger_ofr2005-5_timberwolfmountain_supplement.zip)
- Hammond, P. E.; Bentley, R. D.; Brown, J.
 C.; Ellingson, J. A.; Swanson, D. A.,
 1977, Volcanic stratigraphy and
 structure of the southern Cascade Range,
 Washington—Field trip no. 4:
 Geological Society of America Annual
 Meeting, 90th, Seattle, 1 v.
- Hammond, P. E.; Korosec, M. A., 1983,
 Progress report on the time-space-
 composition model for the Quaternary
 volcanics of the south Cascades,
 Washington. *In* Korosec, M. A.; Phillips,
 W. M.; Schuster, J. E.; and others, The
 1980–1982 geothermal resource
 assessment program in Washington: U.S.
 Department of Energy DOE/ET/ 27014-
 T6, p. 180-191.
- Hammond, P. E.; Korosec, M. A., 1983,
 Progress report on the time-space-
 composition model for the Quaternary
 volcanics of the south Cascades,
 Washington. *In* Korosec, M. A.; Phillips,
 W. M.; Schuster, J. E.; and others, The
 1980–1982 geothermal resources
 program in Washington: Washington
 Division of Geology and Earth
 Resources Open File Report 83-7,
 p. 180-191.
- Hammond, P. E.; Pedersen, S. A.; Hopkins,
 K. D.; Aiken, Dan; Harle, D. S.; Daneš,
 Z. F.; Konicek, D. L.; Stricklin, C. R.,
 1976, Geology and gravimetry of the
 Quaternary basaltic volcanic field,
 southern Cascade Range, Washington.
In Fourier, R. O., chairperson, United
 Nations Symposium on the Development
 and Use of Geothermal Resources, 2nd,
 Proceedings: U.S. Government Printing
 Office, v. 1, p. 397-406.
- Hammond, P. E., *see also* Schuster, J. E.
 [and others], 1976, 1978.
- Hardee, H. C., 1985, Shallow magma targets
 in the western U.S.: Geothermal
 Resources Council Transactions, v. 9,
 pt. 1, p. 447-450.
- Harle, D. S., 1974, Geology of the Babyshoe
 Ridge area, southern Cascades,
 Washington: Oregon State University
 Master of Science thesis, 71 p., 1 plate.
- Harle, D. S., *see also* Hammond, P. E. [and
 others], 1976.
- Harmon, Karen, *see* Nehring, N. L. [and
 others], 1979.
- Harper, Robert, 1982, Geothermal studies
 suggest energy prospects: Totem, v. 24,
 no. 4, p. 15-17.
- Harris, S. L., 1980, Fire and ice—The
 Cascade volcanoes: The Mountaineers
 (Seattle, Wash.), 316 p.
- Hartley, R. P., 1978, Pollution control
 guidance for geothermal energy
 development: U.S. Environmental
 Protection Agency EPA-600/7-78-101,
 134 p.
- Hartog, Renate, *see* Dragovich, J. D. [and
 others], 2009.
- Haugerud, R. A., *see* Dragovich, J. D. [and
 others], 1997.
- Hawley, D. L.; Brewster, S. B., Jr., 1982, A
 thermal infrared survey of selected sites
 in the Cascade mountain range of
 California, Oregon and Washington,
 surveyed July 1981. *In* Cardwell, F. S.;
 and others, editors, 1982 ACSSM-ASP
 fall convention: American Congress of
 Surveying and Mapping, Fall Technical
 Meeting 1981, Technical Papers, p. 195-
 201.
- Hazard Monthly, 1980, Geothermal energy
 from Cascade volcanoes: Hazard
 Monthly, v. 1, no. 2, p. 11.
- Hearn, P. P.; Steinkampf, W. C.; Bortleson,
 G. C.; Drost, B. W., 1985, Geochemical
 controls on dissolved sodium in basalt
 aquifers of the Columbia plateau,
 Washington: U.S. Geological Survey
 Water-Resources Investigations Report
 84-4304, 38 p., 1 plate.
- Hederman, W. F., Jr., *see* Beer, Christine
 [and others], 1984.
- Heiken, Grant; Goff, F. E.; Cremer, Glenda,
 editors, 1982, Hot dry rock geothermal
 resource 1980: Los Alamos National
 Laboratory LA-9295-HDR, 113 p.
- Heiken, Grant, *see also*
 Kron, Andrea [and others], 1980.
 Wohletz, Kenneth [and others], 1992.
- Heimiller, D. M., *see* Farhar, B. C. [and
 other], 2003.
- Hendricks, E. L., *see* Mullineaux, D. R.
 [and others], 1969.
- Hickel, W. J., chairman; Denton, J. C.,
 editor, 1972, Geothermal energy—A
 national proposal for geothermal
 resources research; Final report of the
 Geothermal Resources Research
 Conference, Seattle, 1972: University of
 Alaska, 95 p.
- Higbee, C. V., 1978, Direct use geothermal
 energy—What price?: Oregon Institute
 of Technology Geo-Heat Utilization
 Center Quarterly Bulletin, v. 4, no. 1,
 p. 10-12.

- Higbee, C. V., 1982, Life-cycle cost analysis of direct-use geothermal systems—An introduction: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 7, no. 1, p. 19-21.
- *Higbee, C. V.; Ryan, G. P., 1981, Greenhouse heating with low temperature geothermal water: Geothermal Resources Council Transactions, v. 5, p. 651-654.
- Higbee, C. V., *see also*
Bloomquist, R. G. [and others], 1980.
Dellinger, Mark [and others], 1982.
Lund, J. W. [and others], 1980.
- Higgins, G. T., *see* Collings, M. R. [and others], 1973.
- Hildreth, Wes; Fierstein, Judy, 1985, Mount Adams—Eruptive history of an andesite-dacite stratovolcano at the focus of a fundamentally basaltic volcanic field. *In* Guffanti, Marianne; Muffler, L. J. P., editors, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 44-50.
- Hildreth, Wes; Fierstein, Judy, 1990, Geologic map and geothermal assessment of the Mount Adams volcanic field, Cascade Range of southern Washington: Geothermal Resources Council Transactions, v. 14, pt. 2, p. 1455-1456.
- Hildreth, Wes; Fierstein, Judy; Miller, M. S., 1983, Mineral and geothermal resource potential of the Mount Adams Wilderness and contiguous roadless areas, Skamania and Yakima Counties, Washington: U.S. Geological Survey Open-File Report 83-474, 36 p.
- *Hinman, G. W.; Robertson, Jeremy, 1979, Comparison of geothermal energy with coal, oil, and natural gas for selected uses; Final report: Washington State University Environmental Research Center RLO/2221/T14-1 and 2, 1 v.
- Hobbs, P. V., *see* Radke, L. F. [and others], 1976.
- Hoblitt, R. P., *see* Ryan, M. P. [and others], 1990.
- *Hodges, R. E., 1988, Calibration and standardization of geophysical well-logging equipment for hydrologic applications: U.S. Geological Survey Water-Resources Investigations Report 88-4058, 25 p.
- *Hodges, R. E.; Teasdale, W. E., 1991, Considerations related to drilling methods in planning and performing borehole-geophysical logging for ground-water studies: U.S. Geological Survey Water-Resources Investigations Report 91-4090, 17 p.
- Hodgson, S. F., *see* Cataldi, Raffaele [and others], 1999.
- Holmes, Jenny; Waugh, Kathleen, 1983, Targeting geothermal exploration sites in the Mount St. Helens area using soil mercury surveys: U.S. Department of Energy DOE/ET/37014-T17, 27 p.
- Holmes, Jenny; Waugh, Kathleen, 1983, Targeting geothermal exploration sites in the Mount St. Helens area using soil mercury surveys: Washington Division of Geology and Earth Resources Open File Report 83-10, 26 p., 2 plates.
- Hook, J. W., 1984, The geothermal potential of the Cascade Range: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 8, no. 4, p. 3-4.
- Hooper, P. R.; Gillespie, B. A., 1996, Geologic map of the Pomeroy area, southeastern Washington: Washington Division of Geology and Earth Resources Open File Report 96-5, 26 p., 1 plate, scale 1:38,520.
- Hoover, D. B.; Long, C. L.; Senterfit, R. M., 1978, Some results from audiomagneto-telluric investigations in geothermal areas: Geophysics, v. 43, no. 7, p. 1501-1514.
- Hopkins, K. D., 1976, Geology of the south and east slopes of Mount Adams volcano, Cascade Range, Washington: University of Washington Doctor of Philosophy thesis, 143 p., 1 plate.
- Hopkins, K. D., *see also* Hammond, P. E. [and others], 1976.
- Hopson, C. A., 1971, Eruptive sequence at Mount St. Helens, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 3, no. 2, p. 138.
- Hopson, C. A.; Waters, A. C.; Bender, V. R.; Rubin, Meyer, 1962, The latest eruptions from Mount Rainier volcano: Journal of Geology, v. 70, no. 6, p. 635-647.
- Hopson, C. A., *see also* Fiske, R. S. [and others], 1963.
- House, P. A., *see* Austin, A. L. [and others], 1978.
- Howarth, David, *see* Chupka, Mark [and others], 1992.
- Huebner, M. A., *see* Nehring, N. L. [and others], 1979.
- Hughes, D. W., *see* Bonini, W. E. [and others], 1974.
- Hunting, M. T., 1975, Geothermal research drilling in the Steamboat Mountain-Lemei Rock area, Skamania County, Washington: [Privately published by the author], 1 v.
- Hunting, M. T., 1979, Geothermal gradient measurements and drilling operations in the Cowlitz River Valley, Mount St. Helens, and Camas areas, Washington: [Privately published by the author], 32 p.
- Hunting, M. T., *see* Schuster, J. E. [and others], 1976, 1978.
- Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, M. E., 2003, Groundwater flow, heat transport, and water table position within volcanic edifices—Implications for volcanic processes in the Cascade Range: Journal of Geophysical Research, v. 108, no. B12, 2557, doi:10.1029/2003JB002565, 2003, 19 p.
- Hurwitz, Shaul; Kipp, K. L.; Ingebritsen, S. E.; Reid, Mark, 2003, Water-table elevation within volcanic edifices along the Cascade Range—Insights from numerical simulations [abstract]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 570.
- Hurwitz, S., *see* Ingebritsen, S.E. [and others], 2003.
- Hyde, J. H., 1970, Geologic setting of Merrill Lake and evaluation of volcanic hazards in the Kalama River valley near Mount St. Helens, Washington: U.S. Geological Survey Open-File Report 70-169, 17 p.
- Hyde, J. H., 1973, Late Quaternary volcanic stratigraphy, south flank of Mount St. Helens, Washington: University of Washington Doctor of Philosophy thesis, 114 p., 1 plate.
- Hyde, J. H., 1975, Upper Pleistocene pyroclastic-flow deposits and lahars south of Mount St. Helens volcano, Washington: U.S. Geological Survey Bulletin 1383-B, 20 p.
- Hyde, J. H.; Crandell, D. R., 1975, Origin and age of postglacial deposits and assessment of potential hazards from future eruptions of Mount Baker, Washington: U.S. Geological Survey Open-File Report 75-286, 22 p., 1 plate.
- Hyde, J. H.; Crandell, D. R., 1978, Postglacial volcanic deposits at Mount Baker, Washington, and potential hazards from future eruptions: U.S. Geological Survey Professional Paper 1022-C, 17 p., 1 plate.
- Hyde, J. H., *see also* Mullineaux, D. R. [and others], 1972.
- Ibrahim, A., *see* Skokan, C. K. [and others], 1978.
- Ikelman, J. A., *see* Berry, G. W. [and others], 1980.
- Ingebritsen, S. E.; Mariner, R. H.; Evans, W. C.; Hurwitz, S.; Schmidt, M. E., 2003, Hydrothermal discharge from volcanic areas in the western United States [abstract]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 487.
- Ingebritsen, S. E., *see also* Hurwitz, Shaul [and others], 2003.
- Intasa, *see* SRI International [and others], 1980.

- Iyer, H. M., 1985, Characteristics of Cascades magmatic systems determined from teleseismic-residual studies. *In* Guffanti, Marianne; Muffler, L. J. P., editors, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 53-55.
- JM Energy Consultants, Inc., 1978, Financing geothermal resource development in the Pacific region states: U.S. Department of Energy Division of Geothermal Energy SAN-2121-1, 53 p.
- JM Energy Consultants, Inc., 1978, The legal and institutional problems facing geothermal development in Oregon and Washington: U.S. Department of Energy Division of Geothermal Energy SAN-2121-7, 34 p.
- Jacobson, J. J., *see* Davis, A. E. [and others], 1980.
- Jhaveri, A. G.; Miller, J. A., 1981, Geothermal resources in the Yakima area—Potential low temperature utilization. *In* Bloomquist, R. G., editor, Proceedings of the Geothermal Symposium—Low temperature utilization, heat pump applications, district heating: Washington State Energy Office WAOENG-81-05, p. XII 1 – XII 13.
- Johnpeer, G. D., *see* Murphy, P. J. [and others], 1981.
- Johnson, B. L., *see* Dragovich, J. D. [and others], 2007.
- Johnson, B. R., *see* Derkey, P. D. [and other], 1995.
- Johnson, G. R., *see* Friedman, J. D. [and others], 1984.
- Johnson, S. H.; Couch, R. W., 1970, Crustal structure in the north Cascade mountains of Washington and British Columbia from seismic refraction measurements: *Seismological Society of America Bulletin*, v. 60, no. 4, p. 1259-1269.
- Johnson, V. V., 1980, Utility perspectives on northwest geothermal resources. *In* Bloomquist, R. G.; Wonstolen, K. A., editors, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing: Washington State Energy Office WAOENG-80-16, 4 p.
- Johnston, D. A., *see* Barnes, Ivan [and others], 1981.
- Joseph, N. L., *see* Stoffel, K. L. [and others], 1991.
- Justus, Debra, *see* Bloomquist, R. G. [and others], 1980.
Dellinger, Mark [and others], 1982.
- Kaczanowski, G., *see* Nehring, N. L. [and others], 1979.
- Kaler, K. L., *see* Korosec, M. A. [and others], 1980, 1981.
- Kalk, M. L., *see* Schasse, H. W. [and others], 2009.
Polenz, Michael [and others], 2009.
- Keith, T. E. C., *see* Thompson, J. M. [and others], 1985.
- Kellerman, L. M., *see* Geyer, J. D. [and others], 1989.
- Kelley, S. A., *see* Blackwell, D. D. [and others], 1985, 1990.
- Kendrick, George, *see* St. Lawrence, William [and others], 1980.
- *Kent Associates, 1981, 1981 geothermal drilling project for State of Washington, Department of Natural Resources, Division of Geology and Earth Resources: Kent Associates (Lake Oswego, Ore.), 1 v.
- *Kent Associates, 1981, Geothermal exploration project, Phase I—Temperature gradient drilling for City of North Bonneville, Washington, June, 1981: Kent Associates (Lake Oswego, Ore.), 165 p., 19 plates.
- *Kent Associates, 1982, City of North Bonneville, Washington, geothermal exploration project, production test well. Phase 11: EG&G Idaho, Inc., 1 v.
- Kent, R. C., 1982, Thermal water encountered in lava flows at North Bonneville, Washington [abstract]: *Eos (American Geophysical Union Transactions)*, v. 63, no. 8, p. 174.
- Kestin, Joseph; DiPippo, Ronald; Khalifa, H. E.; Ryley, D. J., editors, 1980, Sourcebook on the production of electricity from geothermal energy: U.S. Department of Energy DOE/RA/4051-1, 997 p.
- Keys, W. S.; MacCary, L. M., 1971, Application of borehole geophysics to water-resources investigations: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 2, Chapter E1, 126 p.
- Keys, W. S., *see also* Paillet, F. L. [and others], 1986.
- Khalifa, H. E., *see* Kestin, Joseph [and others], 1980.
- Kieffer, H. H.; Frank, D. G., 1980, Thermal infrared observations of Mt. St. Helens, March–May 1980 [abstract]: *Geological Society of America Abstracts with Programs*, v. 12, no. 7, p. 462.
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D., 1980, Thermal infrared observations of Mt. St. Helens [abstract]: *Eos (American Geophysical Union Transactions)*, v. 61, no. 46, p. 1139-1140.
- Kieffer, H. H.; Frank, D. G.; Friedman, J. D.; Sawatzky, D. L., 1984, Aerial infrared surveys at Mount St. Helens, Washington [abstract]: U.S. Geological Survey Professional Paper 1375, p. 261.
- Kieffer, H. H.; Friedman, J. D.; Frank, D. G., 1984, Thermal-infrared surveys, Cascades volcanoes [abstract]: U.S. Geological Survey Professional Paper 1375, p. 216.
- Kieffer, H. H., *see also* Friedman, J. D. [and others], 1981.
- *Kindle, C. H.; Pool, K. H.; Ludwick, J. D.; Robertson, D. E., 1984, Compendium of selected methods for sampling and analysis at geothermal facilities: Battelle Pacific Northwest Laboratories PNL-4979, 1 v.
- Kindle, C. H.; Woodruff, E. M., 1981, Techniques for geothermal liquid sampling and analysis: Battelle Pacific Northwest Laboratories PNL-3801, 56 p.
- King County, 1980, Report of the King County Energy Planning Project Dec. 1980; volume 2—Geothermal energy section: King County, 7 p.
- Kipp, K. L., *see* Hurwitz, Shaul [and others], 2003.
- Kiver, E. P., 1976, Washington's geothermal ice caves: *Pacific Search*, v. 10, no. 3, p. 6-11.
- Kiver, E. P., 1978, Geothermal ice caves and fumaroles, Mount Baker volcano, 1974–77 [abstract]: *Geological Society of America Abstracts with Programs*, v. 10, no. 3, p. 112.
- Kiver, E. P., 1978, Mount Baker's changing fumaroles: *Ore Bin*, v. 40, no. 8, p. 133-145.
- Kiver, E. P.; Snively, J.; Snively, D. F., 1977, Hydrogen sulfide fumes at the summit of Mount Rainier volcano, Washington: *Northwest Science*, v. 51, no. 1, p. 31-35.
- Kiver, E. P.; Steele, W. K., 1975, Geothermally produced ice caves, Mount Baker, Washington [abstract]: *Geological Society of America Abstracts with Programs*, v. 7, no. 5, p. 617-618.
- Kiver, E. P., *see also* Derkey, R. E. [and others], 1999.
- Klimkowski, Henry, *see* Braud, H. J. [and others], 1988.
- Knipe, Ed, *see* Rafferty, Kevin [and others], 1985, 1988.
- Koenig, J. B., 1971, Geothermal exploration in the western United States. *In* United Nations Symposium on the Development and Utilization of Geothermal Resources, Proceedings, v. 2, part 1: Geothermics, Special Issue 2, p. 1-13.
- Konicek, D. L., 1974, Geophysical survey in south-central Washington: University of Puget Sound Master of Science thesis, 35 p., 8 plates.
- Konicek, D. L., 1975, Geophysical survey in south-central Washington: *Northwest Science*, v. 49, no. 2, p. 106-117.
- Konicek, D. L., *see also* Hammond, P. E. [and others], 1976.

- Korosec, M. A., 1980, Bibliography of geothermal resource information for the State of Washington. *In* Bloomquist, R. G.; Basescu, Neil; Higbee, Charles; Justus, Debra; Simpson, S. J., Washington—A guide to geothermal energy development: Oregon Institute of Technology Geo-Heat Utilization Center, 16 p.
- Korosec, M. A., 1980, Bibliography of geothermal resource information for the State of Washington. *In* Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. 132-148.
- Korosec, M. A., 1980, Bibliography of geothermal resources information for the State of Washington: Washington Division of Geology and Earth Resources Open File Report 80-4, 17 p.
- Korosec, M. A., 1980, Table of thermal and mineral spring locations in Washington: Washington Division of Geology and Earth Resources Open File Report 80-11, 6 p.
- Korosec, M. A., 1980, Thermal and mineral spring investigations, 1978–1979 (surveys and analyses). *In* Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. 41-92.
- Korosec, M. A., 1980, Well temperature information and locations in the State of Washington. *In* Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. A1-A88.
- Korosec, M. A., 1981, Geothermal implications of the Mount St. Helens volcano [abstract]. *In* Keller, S. A. C., editor; and others, Mount St. Helens—One year later; Abstracts and directory: Eastern Washington University, 2 p.
- Korosec, M. A., 1982, Geothermal implications of the Mount St. Helens volcano [abstract]. *In* Keller, S. A. C., editor, Mount St. Helens—One year later: Eastern Washington University Press, p. 238.
- Korosec, M. A., 1982, Progress report on geothermal energy programs in Washington: Washington Geologic Newsletter, v. 10, no. 3, p. 15-16.
- Korosec, M. A., 1982, Table of chemical analyses for thermal and mineral spring and well waters collected in 1980 and 1981: Washington Division of Geology and Earth Resources Open File Report 82-3, 5 p.
- Korosec, M. A., 1983, Additions to the bibliography of geothermal resource information for the State of Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resources assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 294-299.
- Korosec, M. A., 1983, Geothermal resource targets—Progress and proposals. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy DOE/ET/27014-T6, p. 268-293.
- Korosec, M. A., 1983, Geothermal resource targets—Progress and proposals. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 268-293.
- Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington: U.S. Department of Energy DOE/ET/27014-T12, 11 p.
- Korosec, M. A., 1983, The 1983 temperature gradient and heat flow drilling project for the State of Washington: Washington Division of Geology and Earth Resources Open File Report 83-12, 11 p.
- Korosec, M. A., 1983, Surveys and geochemical analyses of thermal and mineral springs in Washington, 1980–1981. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy DOE/ET/27014-T6, p. 8-67.
- Korosec, M. A., 1983, Surveys and geochemical analyses of thermal and mineral springs in Washington, 1980–1981. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 8-67.
- Korosec, M. A., 1984, Chemical analyses for thermal and mineral springs examined in 1982–1983: U.S. Department of Energy DOE/ET/27014-T18, 8 p.
- Korosec, M. A., 1984, Chemical analyses for thermal and mineral springs examined in 1982–1983: Washington Division of Geology and Earth Resources Open File Report 84-1, 8 p.
- Korosec, M. A., 1984, Summary of geothermal exploration activity in the State of Washington from 1978 to 1983: U.S. Department of Energy DOE/ET/27014-T19, 42 p.
- Korosec, M. A., 1984, Summary of geothermal exploration activity in the State of Washington from 1978 to 1983; (Final program report to the U.S. Department of Energy): Washington Division of Geology and Earth Resources Open File Report 84-2, 42 p.
- Korosec, M. A., compiler, 1987, Geologic map of the Hood River quadrangle, Washington and Oregon: Washington Division of Geology and Earth Resources Open File Report 87-6, 40 p., 1 plate, scale 1:100,000.
- Korosec, M. A., compiler, 1987, Geologic map of the Mount Adams quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 87-5, 39 p., 1 plate, scale 1:100,000.
- Korosec, M. A.; Barnett, D. B., 1989, Geothermal resource exploration target area defined by Division drilling projects: Washington Geologic Newsletter, v. 17, no. 3, p. 12-14.
- Korosec, M. A.; Kaler, K. L., 1980, Well temperature information and locations in the State of Washington: Washington Division of Geology and Earth Resources Open File Report 80-7, 89 p., 2 plates.
- Korosec, M. A.; Kaler, K. L.; Schuster, J. E.; and others, compilers, 1981, Geothermal resources of Washington: Washington Division of Geology and Earth Resources Geologic Map GM-25, 1 sheet, scale 1:500,000.
- Korosec, M. A.; McLucas, G. B., compilers, 1980, Quaternary volcanics and volcanic centers in the State of Washington: Washington Division of Geology and Earth Resources Open File Report 80-6, 2 p., 1 sheet, scale 1:500,000.
- Korosec, M. A.; Phillips, W. M., 1982, WELLTHERM—Temperature, depth, and geothermal gradient data for wells in Washington State: Washington Division of Geology and Earth Resources Open File Report 82-2, 3 p., computer printouts.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1982, The low temperature geothermal resources of eastern Washington: Washington Division of Geology and Earth Resources Open File Report 82-1, 20 p.

- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1982, The low temperature geothermal resources of eastern Washington. *In* Ruscetta, C. A., editor, Geothermal direct heat program, Roundup Technical Conference proceedings, State coupled resource assessment program: University of Utah Research Institute ESL-98; U.S. Department of Energy DOE/ID/12078-71, v. I, p. 273-291.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1983, The low temperature geothermal resources of eastern Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy DOE/ET/27014-T6, p. 159-179.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E., 1983, The low temperature geothermal resources of eastern Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 159-179.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy DOE/ET/27014-T6, 299 p.
- Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, 1983, The 1980–1982 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, 299 p.
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal assessment for the State of Washington [abstract]. *In* Pacific Northwest metals and minerals conference 1980, Abstracts: American Institute of Mining, Metallurgical and Petroleum Engineers, p. 43.
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal assessment of Mount St. Helens, Washington, 1979. *In* Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. 123-131.
- Korosec, M. A.; Schuster, J. E., 1980, Geothermal investigations in the Camas area, Washington, 1979. *In* Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. 117-122.
- Korosec, M. A.; Schuster, J. E., 1980, Pre-eruption geothermal assessment activities at Mount St. Helens, Washington [abstract]: *Eos* (American Geophysical Union Transactions), v. 61, no. 46, p. 1134.
- Korosec, M. A.; Schuster, J. E., 1983, Heatflow drilling in Washington during 1981. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy DOE/ET/27014-T6, p. 120-158.
- Korosec, M. A.; Schuster, J. E., 1983, Heatflow drilling in Washington during 1981. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 120-158.
- Korosec, M. A.; Schuster, J. E.; and others, 1980, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, 270 p.
- Korosec, M. A., *see also* Barnett, D. B. [and others], 1986, 1989.
Berri, D. A. [and others], 1983.
Blackwell, D. D. [and others], 1980, 1982.
Hammond, P. E. [and other], 1983.
Schuster, J. E. [and other], 1980, 1981.
Stoffel, K. L. [and others], 1984, 1991.
Walsh, T. J. [and others], 1987.
- Kreuter, H.; Kapp, B., 2008, The concept of hybrid power plants in geothermal applications: *Geo-Heat Center Bulletin*, v. 28, no. 4, p. 8-9. [<http://geoheat.oit.edu/bulletin/bull28-4/art3.pdf>]
- Krimmel, R. M., *see* Frank, D. G. [and others], 1978, 1980.
- Kron, Andrea; Heiken, Grant, 1980, Geothermal gradient map of the United States: *Geothermal Resources Council Transactions*, v. 4, p. 69-71.
- Kron, Andrea; Stix, John, 1982, Geothermal gradient map of the United States (exclusive of Alaska and Hawaii): *Geothermal Resources Council Transactions*, v. 6, p. 35-37.
- Kron, Andrea; Stix, John, 1982, Geothermal gradient map of the United States, exclusive of Alaska and Hawaii: U.S. National Oceanic and Atmospheric Administration, 2 sheets, scale 1:2,500,000.
- Kruger, Paul; Otte, Carol, editors, 1973, Geothermal energy—Resources, production, stimulation: Stanford University Press, 360 p.
- Kunze, J. F., 1978, Research and development toward abundant and economical geothermal energy in the Northwest [abstract]. *In* Pacific Northwest Metals and Minerals Conference, 6th, Portland, Ore., 1978; New horizons in minerals and metals: American Institute of Mining, Metallurgical and Petroleum Engineers, 1 p.
- *La Fleur, Joe, 1983, An exploration overview: *Geothermal Resources Council Transactions*, v. 7, p. 253-261.
- La Ruffa, G., *see* Panichi, C. [and other], 2001.
- Lachenbruch, A. H., *see* Sass, J. H. [and others], 1968, 1971.
- Landes, Henry, 1905, Preliminary report on the underground waters of Washington: U.S. Geological Survey Water-Supply Paper 111, 85 p.
- Laney, Patrick; Brizzee, Julie, 2003, Washington geothermal resources: Idaho National Engineering and Environmental Laboratory Publication No. INEEL/MIS-2002-1622 Rev. 1, 1 sheet, scale 1:760,320. [<http://geothermal.id.doe.gov/maps/wa.pdf>]
- Lange, I. M.; Avent, J. C., 1973, Ground-based thermal infrared surveys as an aid in predicting volcanic eruptions in the Cascade Range: *Science*, v. 182, no. 4109, p. 279-281.
- Lange, I. M.; Avent, J. C., 1975, Ground-based thermal infrared surveys of Mount Rainier volcano, Washington: *Bulletin Volcanologique*, v. 38, no. 4, p. 929-943.
- Lange, I. M.; Avent, J. C., 1975, Ground-based thermal infrared surveys of Mount Rainier volcano, Washington [abstract]: *Geological Society of America Abstracts with Programs*, v. 7, no. 5, p. 619.
- *Lannus, Arvo, 1985, Heat pump manual: Electric Power Research Institute EPRI EM-4110-SR, 115 p.
- Lapen, T. J., 2000, Geologic map of the Bellingham 1:100,000 quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 2000-5, 36 p., 2 plates, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2000-5_geol_map_bellingham_100k.zip]
- Lapen, T. J., *see also* Dragovich, J. D. [and others], 1999, 2002.
- Larson, R. R., *see* McLane, J. E. [and others], 1976.
- Larson, S. L., *see* Dragovich, J. D. [and others], 2005.
- Laughlin, A. W., *see* Aldrich, M. J. [and others], 1981.

- Lawrence Berkeley Laboratory, 1978, Proceedings, Workshop on modeling of electrical and electromagnetic methods, May 17–19, 1978: Lawrence Berkeley Laboratory LBL-7053, 203 p.
- Lawrence Berkeley Laboratory, *see also* EG&G Idaho, Inc. [and others], 1982.
- Lee, Chang-Ou, *see* Suratt, W. B. [and others], 1978.
- *Leffel, C. S., Jr.; Eisenberg, R. A., 1977, Geothermal handbook: The Johns Hopkins University Applied Physics Laboratory SR 77-1, 84 p.
- Leitner, Philip, *see* SRI International [and others], 1980.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Skamania County, Washington: U.S. Bonneville Power Administration DOE/BP-2014, 38 p.
- Lesser, J. A., 1992, Economic impacts of geothermal development, Whatcom County, Washington: U.S. Bonneville Power Administration DOE/BP-2013, 38 p.
- Lieb, R. J., *see* Mariner, R. H. [and others], 1983.
- Lienau, P. J., 1980, Heat pumps and geothermal: Oregon Institute of Technology Geo-Heat Utilization Center Quarterly Bulletin, v. 5, no. 1, p. 4-10.
- *Lienau, P. J., 1981, Geothermal district heating analysis guide: Oregon Institute of Technology Geo-Heat Center, 75 p.
- Lienau, P. J., 1986, Status of direct heat projects in western states: Geothermal Resources Council Transactions, v. 10, p. 13-17.
- Lienau, P. J., 1986, Status of direct heat projects in western states: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 4, p. 3-7.
- Lienau, P. J., 1992, Data acquisition for low temperature geothermal well tests and long-term monitoring: Oregon Institute of Technology Geo-Heat Center, 44 p. [<http://geoheat.oit.edu/pdf/tp17.pdf>]
- *Lienau, P. J.; Culver, Gene, 1986?, Geothermal technology transfer for direct heat applications; Final report: Oregon Institute of Technology Geo-Heat Center, 23 p.
- *Lienau, P. J.; Culver, Gene; Lund, J. W., 1988, Geothermal direct use developments in the United States, August 1988: Oregon Institute of Technology Geo-Heat Center [under contract to] U.S. Department of Energy Idaho Operations Office, 28 p.
- *Lienau, P. J.; Culver, Gene; Rafferty, Kevin, 1990?, Direct use R&D assistance; Final report, January 1988–September 1990: Oregon Institute of Technology Geo-Heat Center [under contract to] U.S. Department of Energy Idaho Operations Office, 51 p.
- Lienau, P. J.; Lund, J. W., 1974, Multipurpose use of geothermal, energy—Proceedings of the international conference on geothermal energy for industrial, agricultural and commercial-residential uses: Oregon Institute of Technology Geo-Heat Utilization Center, 239 p.
- Lienau, P. J.; Lunis, B. C., editors, 1989, Geothermal direct use engineering and design guidebook: Oregon Institute of Technology Geo-Heat Center, 401 p.
- Lienau, P. J., *see also* Lund, J. W. [and others], 1980, 1991.
- Lindsey, K. A., *see* Derkey, R. E. [and others], 2006.
- Lindsey, M. K.; Supton, Paul, 1975, Geothermal energy—Legal problems of resource development: Stanford Environmental Law Society, 144 p.
- Lingley, W. S., Jr.; Logan, R. L.; Walsh, T. J.; Gerstel, W. J.; Schasse, H. W., 1996, Reconnaissance geology of the Matheny Ridge–Higley Peak areas, Olympic Peninsula, Washington: Washington Division of Geology and Earth Resources [under contract to] U.S. Minerals Management Service, 31 p., 1 plate, scale 1:62,500.
- Lingley, W. S., Jr., *see also* Dragovich, J. D. [and others], 2002, 2003.
- Gerstel, W. J. [and other], 2000, 2003.
- Lipman, P. W.; Mullineaux, D. R., editors, 1981, The 1980 eruptions of Mount St. Helens, Washington: U.S. Geological Survey Professional Paper 1250, 844 p.
- *Lippmann, M. J., editor, 1988, Proceedings of the technical review on advances in geothermal reservoir technology—Research in progress: Lawrence Berkeley Laboratory Earth Sciences Division LBL-25635, 141 p.
- Livingston, V. E., Jr., 1972, Geothermal energy in Washington. *In* Anderson, D. N.; Axtell, L. H., compilers, Geothermal overviews of the western United States, 1972: Geothermal Resources Council, 17 p.
- Livingston, V. E., Jr., 1974, Geothermal energy [abstract]. *In* Pacific Northwest metals and minerals conference 1974, Abstracts: American Institute of Mining, Metallurgical and Petroleum Engineers, p. 56.
- Logan, R. L., 2003, Geologic map of the Copalis Beach 1:100,000 quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-16, 1 sheet, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-16_geol_map_copalisbeach_100k.pdf]
- Logan, R. L., 2003, Geologic map of the Shelton 1:100,000 quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-15, 1 sheet, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-15_geol_map_shelton_100k.pdf]
- Logan, R. L., 2003, Geologic map of the Washington portion of the Roche Harbor 1:100,000 quadrangle: Washington Division of Geology and Earth Resources Open File Report 2003-17, 1 sheet, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-17_geol_map_rocheharbor_100k.pdf]
- Logan, R. L.; Walsh, T. J., 2004, Geologic map of the Summit Lake 7.5-minute quadrangle, Thurston and Mason Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2004-10, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-10_geol_map_summitlake_24k.pdf]
- Logan, R. L.; Walsh, T. J., 2007, Geologic map of the Vaughn 7.5-minute quadrangle, Pierce and Mason Counties, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-65, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm65_geol_map_vaughn_24k.pdf]
- Logan, R. L.; Polenz, Michael; Walsh, T. J.; Schasse, H. W., 2003, Geologic map of the Squaxin Island 7.5-minute quadrangle, Mason and Thurston Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-23, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-23_geol_map_squaxinisland_24k.pdf]
- Logan, R. L.; Walsh, T. J.; Polenz, Michael, 2003, Geologic map of the Longbranch 7.5-minute quadrangle, Thurston, Pierce, and Mason Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-21, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-21_geol_map_longbranch_24k.pdf]

- Logan, R. L.; Walsh, T. J.; Schasse, H. W.; Polenz, Michael, 2003, Geologic map of the Lacey 7.5-minute quadrangle, Thurston County, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-9, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-9_geol_map_lacey_24k.pdf]
- Logan, R. L.; Walsh, T. J.; Stanton, B. W.; Sarikhan, I. Y., 2009, Geologic map of the Maytown 7.5-minute quadrangle, Thurston County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-72, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm72_geol_map_maytown_24k.pdf]
- Logan, R. L.; Walsh, T. J.; Troost, K. G., 2006, Geologic map of the Fox Island 7.5-minute quadrangle, Pierce County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-63, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm63_geol_map_foxisland_24k.pdf]
- Logan, R. L., *see also*
Derkey, R. E. [and others], 1998.
Dragovich, J. D. [and others], 1998, 2002.
Lingley, W. S., Jr. [and others], 1996.
Schasse, H. W. [and other], 1998, 2003.
Walsh, T. J. [and others], 1987, 2003.
Walsh, T. J. [and other], 2005.
- Long, C. L., *see* Hoover, D. B. [and others], 1978.
- Long, Gregg; McClain, David, 1983, Economic constraints to the development of geothermal power in the Cascades: Geothermal Resources Council Transactions, v. 7, p. 263-267.
- Ludwick, J. D., *see* Kindle, C. H. [and others], 1984.
- *Lund, J. W., 1978, Geothermal energy utilization for the homeowner: Oregon Institute of Technology Geo-Heat Center, 30 p. [<http://geoheat.oit.edu/pdf/tp33.pdf>]
- Lund, J. W., 1985, Agriculture and aquaculture applications of geothermal energy: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 2, p. 6-8.
- Lund, J. W., 1988, Geothermal heat pump utilization in the United States: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 11, no. 1, p. 5-7.
- Lund, J. W., 1989, Geothermal heat pumps—Trends and comparisons: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 12, no. 1, p. 1-6.
- *Lund, J. W., 1998, Geothermal direct use engineering and design guidebook; 3rd ed.: Geo-Heat Center, 454 p.
- Lund, J. W., 2003, Examples of industrial uses of geothermal energy in the United States: Geo-Heat Center Bulletin, v. 24, no. 3, p. 1-6. [<http://geoheat.oit.edu/bulletin/bull24-3/art1.pdf>]
- Lund, J. W., 2004, 100 years of geothermal power production: Geo-Heat Center Bulletin, v. 25, no. 3, p. 11-19. [<http://geoheat.oit.edu/bulletin/bull25-3/art2.pdf>]
- Lund, J. W., 2007, Characteristics, development and utilization of geothermal resources: Geo-Heat Center Bulletin, v. 28, no. 2, p. 1-9. [<http://geoheat.oit.edu/bulletin/bull28-2/art1.pdf>]
- *Lund, J. W.; Allen, E. M.; Higbee, C. V.; Lienau, P. J.; Phillips, Wayne; Shreve, Jim, 1980, Assessment of geothermal potential within the BPA marketing area, Contract No. DE-AC79-79BP15325, July, 1980: Oregon Institute of Technology Geo-Heat Utilization Center, 182 p.
- Lund, J. W.; Boyd, Tonya, 1999, Small geothermal power project examples: Geo-Heat Center Bulletin, v. 20, no. 2, p. 9-26. [<http://geoheat.oit.edu/bulletin/bull20-2/art2.pdf>]
- Lund, J. W.; Lienau, P. J.; Culver, Gene, 1991, The current status of geothermal direct use development in the United States update—1985–1990: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 13, no. 1, p. 13-22.
- Lund, J. W., *see also*
Anderson, D. N. [and other], 1979.
Cataldi, Raffaele [and others], 1999.
Lienau, P. J. [and others], 1974, 1988.
- Lunis, B. C., 1985, Geothermal district heating—Basics to success: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 1, p. 3-5.
- Lunis, B. C., *see also* Lienau, P. J. [and others], 1989.
- Luzier, J. E., 1969, Ground-water occurrence in the Goldendale area, Klickitat County, Washington: U.S. Geological Survey Hydrologic Investigations Atlas HA-313, 1 plate, scale 1:62,500.
- Lyons, Kim, 2003, Washington—A regulatory guide to geothermal direct use development: Washington State University Extension Energy Program, 16 p. [<http://www.energy.wsu.edu/documents/renewables/washington.pdf>]
- Mabey, D. R., *see* Brook, C. A. [and others], 1979.
- MacCary, L. M., *see* Keys, W. S. [and others], 1971.
- MacLeod, N. S.; Swanson, D. A., 1985, Volcanism in the Cascade Range. *In* Guffanti, Marianne; Muffler, L. J. P., editors, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 18-19.
- Mahon, W. A. J., *see* Ellis, A. J. [and others], 1977.
- Maley, C. A., *see* Thompson, J. M. [and others], 1985, 1988.
- Malone, S. D., 1976, Deformation of Mount Baker volcano by hydrothermal heating [abstract]: Eos (American Geophysical Union Transactions), v. 57, no. 12, p. 1016.
- Malone, S. D., 1979, Gravity changes accompanying increased heat emission at Mount Baker, Washington: Journal of Volcanology and Geothermal Research, v. 6, no. 3-4, p. 241-256.
- Malone, S. D.; Frank, D. G., 1975, Increased heat emission from Mount Baker, Washington: Eos (American Geophysical Union Transactions), v. 56, no. 10, p. 679-685.
- Malone, S. D., *see also* Sato, Motoaki [and others], 1976.
- Mariner, R. H., 1985, Geochemical features of Cascades hydrothermal systems. *In* Guffanti, Marianne; Muffler, L. J. P., editors, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 59-62.
- Mariner, R. H.; Brook, C. A.; Reed, M. J.; Bliss, J. D.; Rapport, A. L.; Lieb, R. J., 1983, Low-temperature geothermal resources in the western United States. *In* Reed, M. J., editor, Assessment of low-temperature geothermal resources of the United States—1982: U.S. Geological Survey Circular 892, p. 31-50.
- Mariner, R. H.; Evans, W. C.; Presser, T. S.; White, L. D., 2003, Excess nitrogen in selected thermal and mineral springs of the Cascade Range in northern California, Oregon, and Washington—Sedimentary or volcanic in origin?: Journal of Volcanology and Geothermal Research, v. 121, no. 1-2, p. 99-114.
- Mariner, R. H.; Presser, T. S.; Evans, W. C., 1982, Chemical and isotopic composition of water from thermal and mineral springs of Washington: U.S. Geological Survey Open-File Report 82-98, 18 p.
- Mariner, R. H.; Presser, T. S.; Evans, W. C., 1993, Geothermometry and water-rock interaction in selected thermal systems in the Cascade Range and Modoc Plateau, western United States: Geothermics, v. 22, no. 1, p. 1-15.

- Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1989, Discharge rates of thermal fluids in the Cascade Range of Oregon and Washington and their relationship to the geologic environment. *In* Muffler, L. J. P.; Weaver, C. S.; Blackwell, D. D., editors, Proceedings of workshop XLIV—Geological, geophysical, and tectonic setting of the Cascade Range: U.S. Geological Survey Open-File Report 89-178, p. 663-695.
- Mariner, R. H.; Presser, T. S.; Evans, W. C.; Pringle, M. K. W., 1990, Discharge rates of fluid and heat by thermal springs of the Cascade Range, Washington, Oregon, and northern California: *Journal of Geophysical Research*, v. 95, no. B12, p. 19,517-19,531.
- Mariner, R. H., *see also*
 Barnes, Ivan [and others], 1981.
 Brook, C. A. [and others], 1979.
 Ingebritsen, S. E. [and others], 2003.
 Nehring, N. L. [and others], 1979.
 Reed, M. J. [and others], 1983.
 Sorey, M. L. [and others], 1982.
- Marlatt, W. E., *see* Moxham, R. M. [and others], 1965.
- Matsubayashi, O., *see* Morita, K. [and others], 1989.
- *Maurer, W. C., 1978, Economic incentives for improved geothermal drilling motors: U.S. Department of Energy TID-28708, 32 p.
- Maurer, W. C., *see also* Barker, L. M. [and others], 1976.
- Mayers, I. R., *see* Crosson, R. S. [and others], 1972, 1973.
- McClain, David, *see* Long, Gregg [and others], 1983.
- McEuen, R. B.; Birkhahn, P. C.; Pinckney, C. J., 1975, Predictive regionalization of geothermal potential [abstract]: United Nations Symposium on the Development and Use of Geothermal Resources. 2nd, Abstracts, no. 111-64.
- McEuen, R. B.; Rigby, F. A.; Bowen, R. G., 1979, Geothermal resources potential of the Lacamas fault region, Camas, Washington, U.S.A.: *Geothermal Resources Council Transactions*, v. 3, p. 431-434.
- McEuen, R. B., *see also*
 Gizienski, S. F. [and others], 1975.
 Rigby, F. A. [and others], 1980.
- McFarland, C. R., 1980, Metallic and nonmetallic mineral exploration wrap-up, 1979: *Washington Geologic Newsletter*, v. 8, no. 1, p. 1-6.
- McKay, D. T., Jr., *see* Dragovich, J. D. [and others], 2000.
- McLane, J. E.; Finkelman, R. B.; Larson, R. R., 1976, Mineralogical examination of particulate matter from the fumaroles of Sherman Crater, Mt. Baker, Washington [abstract]: *Eos (American Geophysical Union Transactions)*, v. 57, no. 2, p. 89.
- McLane, J. E., *see also* Sato, Motoaki [and others], 1976.
- McLucas, G. B., *see* Korosec, M. A. [and others], 1980.
- Means, Paul, *see* Reistad, G. M. [and others], 1980.
- Meier, M. F., *see* Frank, D. G. [and others], 1977.
- *Meridian Corporation, coordinators, 1989, DOE research and development for the geothermal marketplace; Proceedings of the geothermal program review VII, March 21–23, 1989, San Francisco, CA: U.S. Department of Energy Geothermal Technology Division CONF-890352, 196 p.
- Meyers, K. D., *see* Dragovich, J. D. [and others], 2002.
- Michels, D. E., *see* Owen, L. B. [and others], 1984.
- Miers, J. H., *see* Campbell, K. V. [and others], 1970.
- Miles, M. J., *see* Sanders, J. W. [and others], 1974.
- Miller, J. A., *see* Jhaveri, A. G. [and others], 1981.
- Miller, M. S., *see* Hildreth, Wes [and others], 1983.
- Miller, R. B., *see* Dragovich, J. D. [and others], 1997.
- Miller, R. D., *see* Crandell, D. R. [and others], 1962.
- Mills, K. F., *see* Unger, J. D. [and others], 1972, 1973.
- *Milora, S. L.; Tester, J. W., 1976, Geothermal energy as a source of electric power—Thermodynamic and economic design criteria: The MIT Press, 186 p.
- Minard, J. P., 1985, Geologic map of the Everett 7.5-minute quadrangle, Snohomish County, Washington: U.S. Geological Survey Miscellaneous Field Studies Map MF-1748, 1 sheet, scale 1:24,000.
- Minard, J. P., *see also* Booth, D. B. [and others], 1992.
- MIT-led interdisciplinary panel, 2006, The future of geothermal energy—Impact of enhanced geothermal systems (EGS) on the United States in the 21st century: Massachusetts Institute of Technology, 1 v. [<http://geothermal.inel.gov>]
- Moore, Johnnie, *see* St. Lawrence, William [and others], 1980.
- Moran, M. R., *see* Nielson, D. L. [and others], 1980.
- *Morck, O. C.; Pedersen, Thomas, editors, 1989, IEA district heating—Advanced district heating production technologies: Netherlands Agency for Energy and the Environment (Sittard, The Netherlands), 717 p.
- Morgan, Paul; Gosnold, W. D., 1989, Heat flow and thermal regimes in the continental United States. *In* Pakiser, L. C.; Mooney, W. D., editors, Geophysical framework of the continental United States: Geological Society of America Memoir 172, p. 493-522.
- Morin, R. H., *see* Paillet, F. L. [and others], 1986.
- Morita, K.; Matsubayashi, O., 1989, Downhole coaxial heat exchanger for volcanic energy extraction: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 11, no. 3, p. 9-11.
- Moses, L. J., 1988, Mineral, hydrocarbon, and geothermal resource potential study plan: Westinghouse Hanford Company SD-BWI-SO-044, 37 p.
- Moses, T. H., Jr., *see* Sass, J. H. [and others], 1968, 1971.
- Moxham, R. M., 1970, Thermal features at volcanoes in the Cascade Range, as observed by aerial infrared surveys: *Bulletin Volcanologique*, v. 34, no. 1, p. 77-106.
- Moxham, R. M.; Boynton, G. R.; Cote, C. E., 1973, Satellite telemetry of fumarole temperatures, Mount Rainier, Washington: *Bulletin Volcanologique*, v. 36, no. 1, p. 191-199.
- Moxham, R. M.; Crandell, D. R.; Marlatt, W. E., 1965, Thermal features at Mount Rainier, Washington, as revealed by infrared surveys: U.S. Geological Survey Professional Paper 525-D, p. D93-D100.
- Moxham, R. M., *see also* Sato, Motoaki [and others], 1976.
- Muffler, L. J. P., editor, 1979, Assessment of geothermal resources of the United States—1978: U.S. Geological Survey Circular 790, 163 p.
- Muffler, L. J. P., 1987, Geothermal studies of the U.S. Geological Survey in the Cascade Range: *Geothermal Resources Council Transactions*, v. 11, p. 281-283.
- Muffler, L. J. P.; Bacon, C. R.; Duffield, W. A., 1982, Geothermal systems of the Cascade Range. *In* Pacific Geothermal Conference, Nov. 8–12, 1982, Proceedings: University of Auckland (Auckland, New Zealand) Geothermal Institute, p. 337-343.

- Muffler, L. J. P.; Guffanti, Marianne, 1989, Integration of earth-science data sets to estimate undiscovered geothermal resources of the Cascade Range. *In* Muffler, L. J. P.; Weaver, C. S.; Blackwell, D. D., editors, Proceedings of workshop XLIV—Geological, geophysical, and tectonic setting of the Cascade Range: U.S. Geological Survey Open-File Report 89-178, p. 695-703.
- Muffler, L. J. P., *see also*
 Brook, C. A. [and others], 1979.
 Godwin, L. H. [and others], 1971.
 Guffanti, Marianne [and other], 1985.
- Mullineaux, D. R.; Crandell, D. R., 1962, Recent lahars from Mount St. Helens, Washington: Geological Society of America Bulletin, v. 73, no. 7, p. 855-869.
- Mullineaux, D. R.; Hyde, J. H.; Rubin, Meyer, 1972, Preliminary assessment of upper Pleistocene and Holocene pumiceous tephra from Mount St. Helens, southern Washington [abstract]: Geological Society of America Abstracts with Programs, v. 4, no. 3, p. 204-205.
- Mullineaux, D. R.; Sigafoos, R. S.; Hendricks, E. L., 1969, A historic eruption of Mount Rainier, Washington: U.S. Geological Survey Professional Paper 650-B, p. 15-18.
- Mullineaux, D. R., *see also*
 Crandell, D. R. [and others], 1962, 1973, 1975, 1978.
 Lipman, P. W. [and others], 1981.
- Mundorff, M. J., *see* Griffin, W. C. [and others], 1962.
- Munroe, R. J., *see*
 Nathenson, Manuel [and others], 1983.
 Sass, J. H. [and others], 1968, 1971.
- Murphy, P. J.; Johnpeer, G. D., 1981, An assessment of geothermal resource potential Pasco Basin and vicinity, Washington: Rockwell Hanford Operations RHO-BW-CR-128 P, 10 p.
- Nathenson, Manuel; Guffanti, Marianne, 1988, Geothermal gradients in the conterminous United States: Journal of Geophysical Research, v. 93, no. B6, p. 6437-6450.
- Nathenson, Manuel; Guffanti, Marianne; Sass, J. H.; Munroe, R. J., 1983, Regional heat flow and temperature gradients. *In* Reed, M. J., editor, Assessment of low-temperature geothermal resources of the United States—1982: U.S. Geological Survey Circular 892, p. 9-16.
- Nathenson, Manuel, *see also*
 Guffanti, Marianne [and others], 1980.
 Sorey, M. L. [and others], 1982, 1983.
- National Center for Appropriate Technology, 1988, Using the earth to heat and cool homes: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 11, no. 1, p. 8-11.
- *National Conference of State Legislatures, 1980, Geothermal guidebook prepared for the Western Interstate Energy Board: National Conference of State Legislatures (Denver, Colo.), 43 p.
- *National Research Council, 1985, District heating and cooling in the United States—Prospects and issues: National Academy Press, 155 p.
- *Nehring, N. L.; Bowen, P. A.; Truesdell, A. H., 1977, Techniques for the conversion to carbon dioxide of oxygen from dissolved sulfate in thermal waters: Geothermics, v. 5, no. 1-4, p. 63-66.
- Nehring, N. L.; Mariner, R. H.; White, L. D.; Huebner, M. A.; Roberts, E. D.; Harmon, Karen; Bowen, P. A.; Tanner, Lane, 1979, Sulfate geothermometry of thermal waters in the western United States: U.S. Geological Survey Open-File Report 79-11 35, 11 p.
- Nehring, N. L.; Roberts, E. D.; Kaczanowski, G., 1979, Geothermometry applied to hot springs in western United States [abstract]: U.S. Geological Survey Professional Paper 1150, p. 194-195.
- Nelson, P., *see* Cantwell, Thomas [and others], 1965.
- Newcomb, R. C., 1965, Geology and groundwater resources of the Walla Walla River basin, Washington—Oregon: Washington Division of Water Resources Water-Supply Bulletin 21, 151 p., 4 plates.
- Newcomb, R. C., 1972, Quality of the ground water in basalt of the Columbia River group, Washington, Oregon, and Idaho: U.S. Geological Survey Water-Supply Paper 1999-N, 71 p., 1 plate.
- Nichols, B. M., *see* Campbell, K. V. [and others], 1970.
- Nielson, D. L.; Moran, M. R., 1980, Geologic interpretation of the geothermal potential of the North Bonneville area: University of Utah Research Institute, 18 p., 2 plates.
- Nimmons, J. T., 1980, State public utility regulation of geothermal direct heat supplies. *In* Bloomquist, R. G.; Wonstolen, K. A., editors, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing: Washington State Energy Office WAOENG-80-16, p. XV-1 – XV-6.
- Nimmons, J. T., *see also* Bloomquist, R. G. [and others], 1988.
- Nitsan, U., 1976, The effect of increased geothermal heat flux on the flow of Mt. Baker glaciers [abstract]: Eos (American Geophysical Union Transactions), v. 57, no. 2, p. 89.
- Nix, R. G., *see* Green, B. D. [and other], 2006.
- Norman, D. K., *see*
 Dragovich, J. D. [and other], 1995.
 Dragovich, J. D. [and others], 1997, 1998, 1999, 2000, 2002, 2004, 2005, 2009.
- *Northwest Power Planning Council, 1990, Confirmation agendas for geothermal, wind and solar resources: Northwest Power Planning Council Staff Issue Paper 90-5, 19 p.
- Nunz, G. J., 1993, The xerolithic geothermal (“hot dry rock”) energy resource of the United States—An update: Los Alamos National Laboratory LA-1 2606-MS, 31 p., 1 plate.
- O’Brien, R. G., *see* Bloomquist, R. G. [and others], 1999.
- Oil and Gas Journal, 1986, Northwest geothermal hunt seen heating up: Oil and Gas Journal, v. 84, no. 8, p. 102.
- Olhoeft, G. R., *see* Friedman, J. D. [and others], 1984.
- Oliphant, Jerrelyn, *see* Campbell, K. V. [and others], 1970.
- Oliver, James, *see* Braud, H. J. [and others], 1988.
- *Olson, H. J., 1982, The pricing of geothermal energy for electrical power generation: Geothermal Resources Council Bulletin, May 1982, p. 11-12.
- *Olson, H. J., 1994, Geothermal reservoir assessment based on slim hole drilling: Electric Power Research Institute [EPRI], 2 v.
- Orange, A. S., *see* Cantwell, Thomas [and others], 1965.
- Oregon Institute of Technology Geo-Heat Center, 1979, Heating facilities for the city schools, Ephrata, Washington, November 1979: Oregon Institute of Technology Geo-Heat Center, 1 v.
- Oregon Institute of Technology Geo-Heat Center, 1981, Sol Duc Hot Springs feasibility study (Washington), December, 1981: Oregon Institute of Technology Geo-Heat Center, 1 v.
- *Oregon Institute of Technology Geo-Heat Center, 1982, Feasibility study for Adams County Fire Station, Othello, Washington: Oregon Institute of Technology Geo-Heat Center, 1 v.
- *Oregon Institute of Technology Geo-Heat Center, 1982, Geothermal heating facilities for Carson Elementary School and Wind River Middle School: Oregon Institute of Technology Geo-Heat Center, 1 v.
- Oregon Institute of Technology Geo-Heat Center, 1982, Utilization of warm well water, eastern Washington State: Oregon Institute of Technology Geo-Heat Center, 15 p.

- Oregon Institute of Technology Geo-Heat Center, 1987, Geothermal pipeline—Washington—Clark College uses 50° F for district heating: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 10, no. 1, p. 19.
- *Oregon Institute of Technology Geo-Heat Utilization Center, 1980, A. C. Davis High School, Yakima, Washington: Oregon Institute of Technology Geo-Heat Utilization Center, 19 p.
- *ORMAT, Inc., [no date], Production of electrical energy from low enthalpy geothermal resources by binary power plants: United Nations Institute for Training and Research UNITAR/UNDP Centre on Small Energy Resources (Rome, Italy) UNC SER TG GP 002 0589, 104 p.
- Otte, Carol, *see* Kruger, Paul [and others], 1973.
- *Owen, L. B.; Michels, D. E., 1984, Geochemical engineering reference manual: U.S. Department of Energy DOE/SF/11520-TI, 1 v.
- Paillet, F. L.; Morin, R. H.; Keys, W. S., 1986, Borehole geophysical applications in the characterization of geothermal energy resources. *In* Carter, L. M. H., editor, USGS research on energy resources—1986; V. E. McKelvey forum on mineral and energy resources: U.S. Geological Survey Circular 974, p. 51-52.
- Panichi, C.; La Ruffa, G., 2001, Stable isotope geochemistry of fumaroles—An insight into volcanic surveillance: *Journal of Geodynamics*, v. 32, no. 4-5, p. 519-542.
- Parker, D. S., *see* Bloomquist, R. G. [and others], 1985.
- Pedersen, S. A., *see* Hammond, P. E. [and others], 1976.
- Pedersen, Thomas, *see* Morck, O. C. [and others], 1989.
- Petersen, B. B., *see* Polenz, Michael [and others], 2006, 2009.
- Petro, G. T., *see* Dragovich, J. D. [and others], 2002, 2005.
- Pevear, D. R., *see* Dethier, D. P. [and others], 1981.
- Phillips, K. N., 1942, Fumaroles of Mount St. Helens and Mount Adams: *Mazama*, v. 23, no. 12, p. 37-42.
- Phillips, W. M., 1983, Preliminary interpretation of regional gravity information from the southern Cascade mountains of Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy DOE/ET/27014-T6, p. 79-119.
- Phillips, W. M., 1983, Preliminary interpretation of regional gravity information from the southern Cascade mountains of Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 83-7, p. 79-119.
- Phillips, W. M., 1983, Progress report for the regional gravity survey of the Cascade mountain range, Washington. *In* Korosec, M. A.; Phillips, W. M.; Schuster, J. E.; and others, The 1980–1982 geothermal resource assessment program in Washington: U.S. Department of Energy DOE/ET/27014-T6, p. 68-78.
- Phillips, W. M., compiler, 1987, Geologic map of the Mount St. Helens quadrangle, Washington and Oregon: Washington Division of Geology and Earth Resources Open File Report 87-4, 59 p., 1 plate, scale 1:100,000.
- Phillips, W. M., compiler, 1987, Geologic map of the Vancouver quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 87-10, 27 p., 1 plate, scale 1:100,000.
- Phillips, W. M., *see also* Daneš, Z. F. [and others], 1983. Korosec, M. A. [and others], 1982, 1983. Walsh, T. J. [and others], 1987.
- Phillips, Wayne, *see* Lund, J. W. [and others], 1980.
- *Piatti, Alberto; Piemonte, Carlo; Szego, Edoardo, 1992, Planning of geothermal district heating systems: Kluwer Academic Publishers, 308 p.
- Piemonte, Carlo, *see* Piatti, Alberto [and others], 1992.
- Pilkington, H. D., 1978, Exploration for geothermal energy in the Pacific Northwest [abstract]. *In* Pacific Northwest Metals and Minerals Conference, 6th, Portland, Ore., 1978; New horizons in minerals and metals: American Institute of Mining, Metallurgical and Petroleum Engineers, 1 p.
- Pilkington, H. D., 1981, Geothermal exploration—Philosophy, methods, impacts, land positions and problems. *In* Geothermal Resources Council, Geothermal potential of the Cascade mountain range—Exploration and development: Geothermal Resources Council Special Report 10, p. 1-5.
- Pinckney, C. J., *see* McEuen, R. B. [and others], 1975.
- Polenz, Michael; Schasse, H. W.; Kalk, M. L.; Petersen, B. B., 2009, Geologic map of the Camano 7.5-minute quadrangle, Island County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-68, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm68_geol_map_camano_24k.pdf]
- Polenz, Michael; Schasse, H. W.; Petersen, B. B., 2006, Geologic map of the Freeland and northern part of the Hansville 7.5-minute quadrangles, Island County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-64, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm64_geol_map_freeland_hansville_24k.pdf]
- Polenz, Michael; Slaughter, S. L.; Dragovich, J. D.; Thorsen, G. W., 2005, Geologic map of the Ebey's Landing National Historical Reserve, Island County, Washington: Washington Division of Geology and Earth Resources Open File Report 2005-2, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2005-2_geol_map_ebeyslanding_24k.zip]
- Polenz, Michael; Slaughter, S. L.; Thorsen, G. W., 2005, Geologic map of the Coupeville and part of the Port Townsend North 7.5-minute quadrangles, Island County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-58, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm58_geol_map_coupeville_24k.pdf]
- Polenz, Michael; Wegmann, K. W.; Schasse, H. W., 2004, Geologic map of the Elwha and Angeles Point 7.5-minute quadrangles, Clallam County, Washington: Washington Division of Geology and Earth Resources Open File Report 2004-14, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-14_geol_map_elwha_angelespoint_24k.pdf]
- Polenz, Michael, *see also* Dragovich, J. D. [and others], 2002, 2003. Logan, R. L. [and others], 2003. Schasse, H. W. [and other], 2002. Schasse, H. W. [and others], 2003, 2004, 2009. Walsh, T. J. [and others], 2003.
- Pool, K. H., *see* Kindle, C. H. [and others], 1984.
- Post, A. S., *see* Frank, D. G. [and other], 1976.
- Post, A. S., *see* Frank, D. G. [and others], 1975.
- Powell, R. H., Jr., *see* Zimmerman, K. H. [and others], 1987.

- Pratsch, L. W., 1992, Geothermal heat pumps benefit the consumer, utility, and nation: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 14, no. 1, p. 1-6.
- Presser, T. S., *see* Barnes, Ivan [and others], 1981. Mariner, R. H. [and others], 1982, 1989, 1990, 1993, 2003.
- Prestwich, S. M., 1985, Overview on Cascades drilling status. In U.S. Department of Energy Geothermal Technology Division, Proceedings, Geothermal Program Review IV: U.S. Department of Energy CONF-8509142 (DE86004074), p. 139-140.
- Priest, G. R., 1984, Rationale for scientific drilling in the Cascade volcanic arc [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1096.
- Priest, G. R., 1985, Continental scientific drilling—The Cascades as a target: Geothermal Resources Council Bulletin, v. 14, no. 6, p. 5-12.
- Priest, G. R., 1986, A program for scientific drilling in the Cascades, northern California, Oregon, and Washington: Oregon Department of Geology and Mineral Industries, 15 p.
- Priest, G. R., 1987, Geothermal resource potential of Cascade volcanic arc [abstract]: American Association of Petroleum Geologists Bulletin, v. 71, no. 8, p. 1013.
- Priest, G. R., 1987, Investigation of the thermal regime and geologic history of the Cascade volcanic arc—First phase of a program for scientific drilling in the Cascade Range: Oregon Department of Geology and Mineral Industries Open-File Report O-86-3, 120 p., 2 plates.
- Priest, G. R.; Blackwell, D. D., 1984, Understanding thermal energy and dynamic processes in subduction-related volcanic arcs: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 8, no. 4, p. 9-11.
- Priest, G. R.; Blackwell, D. D., 1984, Understanding thermal energy and dynamic processes in subduction-related volcanic arcs—Proposed studies in the Cascades: Oregon Geology, v. 46, no. 10, p. 122-123.
- Priest, G. R., *see also* Blackwell, D. D. [and other], 1996. Blackwell, D. D. [and others], 1982.
- Pringle, M. K. W., *see* Mariner, R. H. [and others], 1989, 1990.
- Pringle, P. T., *see* Dragovich, J. D. [and others], 1997.
- Pytlak, Shirley, *see* Campbell, K. V. [and others], 1970.
- Qamar, Anthony, *see* St. Lawrence, William [and others], 1980.
- Race, R. W., *see* Campbell, K. V. [and others], 1970.
- Radke, L. F.; Hobbs, P. V.; Stith, J. L., 1976, Airborne measurements of gases and aerosols from volcanic vents on Mt. Baker: Geophysical Research Letters, v. 3, no. 2, p. 93-96.
- Rafferty, Kevin, 1983, Absorption refrigeration—Cooling with hot water: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 8, no. 1, p. 17-20.
- Rafferty, Kevin, 1984, Feasibility study for Harrah Elementary School, Harrah, Washington, June 1984: Oregon Institute of Technology Geo-Heat Center, 1 v.
- Rafferty, Kevin, 1985, Guide to greenhouse heating with geothermal energy: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 2, p. 9-19.
- Rafferty, Kevin, 1986, Pond heat loss: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 4, p. 15-17.
- Rafferty, Kevin, 1989, Geothermal district piping—A primer: Oregon Institute of Technology Geo-Heat Center, 49 p. [<http://geoheat.oit.edu/pdf/tp48.pdf>]
- Rafferty, Kevin, 1990, Geothermal greenhouse heating: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 12, no. 3, p. 14-26.
- Rafferty, Kevin, 1990, Piping materials for geothermal district heating systems (or Peter Piper picked a peck of pre-insulated piping): Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 12, no. 2, p. 12-19.
- Rafferty, Kevin, 1990, A tale of two heat pumps: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 12, no. 4, p. 5-9. [<http://geoheat.oit.edu/pdf/tp47.pdf>]
- Rafferty, Kevin, 1991, Aquaculture: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 13, no. 2, p. 8-13.
- *Rafferty, Kevin, 1992, Greenhouse heating equipment selection spread-sheet: Oregon Institute of Technology Geo-Heat Center, 1 v.
- *Rafferty, Kevin, 1992, HEATOOLS: Oregon Institute of Technology Geo-Heat Center, 1 v.
- *Rafferty, Kevin, 1993, Direct use geothermal applications for brazed plate heat exchangers: Oregon Institute of Technology Geo-Heat Center, 14 p.
- Rafferty, Kevin, 2001, Small geothermal systems—A guide for the do-it-yourselfer: Geo-Heat Center, 30 p. [<http://geoheat.oit.edu/pdf/tp105.pdf>]
- Rafferty, Kevin, 2001, Well pumps and piping: Geo-Heat Center Bulletin, v. 22, no. 3, p. 8-12. [<http://geoheat.oit.edu/bullet.htm>]
- Rafferty, Kevin, 2003, The economics of connecting small buildings to geothermal district heating systems: Geo-Heat Center Bulletin, v. 24, no. 1, p. 4-8. [<http://geoheat.oit.edu/bulletin/bull24-1/art2.pdf>]
- Rafferty, Kevin, 2003, Industrial processes and the potential for geothermal applications: Geo-Heat Center Bulletin, v. 24, no. 3, p. 7-11. [<http://geoheat.oit.edu/bulletin/bull24-3/art2.pdf>]
- *Rafferty, Kevin, 2004, Direct-use temperature requirement—A few rules of thumb: Geo-Heat Center Bulletin, v. 25, no. 2, p. 1-3. [<http://geoheat.oit.edu/bulletin/bull25-2/art1.pdf>]
- Rafferty, Kevin; Knipe, Ed, 1985, Some considerations for large water source heat pumps: Washington State Energy Office Newsletter, v. 8, no. 2, p. 1-4.
- Rafferty, Kevin; Knipe, Ed, 1988, Some considerations for large water-source heat pumps: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 11, no. 1, p. 16-19.
- Rafferty, Kevin, *see also* Bloomquist, R. G. [and others], 1988. Dellinger, Mark [and others], 1982. Lienau, P. J. [and others], 1990?
- Rapport, A. L., *see* Mariner, R. H. [and others], 1983.
- Readdy, L. A., *see* Bogart, L. E. [and others], 1987.
- Realmuto, V. J., *see* Frank, D. G. [and other], 1995. Friedman, J. D. [and others], 1991.
- Reed, M. J., editor, 1983, Assessment of low-temperature geothermal resources of the United States—1982: U.S. Geological Survey Circular 892, 73 p.
- Reed, M. J.; Mariner, R. H.; Brook, C. A.; Sorey, M. L., 1983, Selected data for low-temperature (less than 90° C) geothermal systems in the United States—Reference data for U.S. Geological Survey Circular 892: U.S. Geological Survey Open-File Report 83-250, 129 p.
- Reed, M. J., *see also* Mariner, R. H. [and others], 1983. Sorey, M. L. [and others], 1982.
- *Refrigeration Service & Contracting, 1997, Ground-coupled heat pumps sparkle in world's largest residential installation: Refrigeration Service & Contracting, v. 65, no. 6, 10 p.
- Reid, Mark, *see* Hurwitz, Shaul [and others], 2003.
- Reidel, S. P., *see* Schuster, J. E. [and others], 1997.
- Reif, Thomas, 2008, Profitability analysis and risk management of geothermal projects: Geo-Heat Center Bulletin, v. 28, no. 4, p. 1-4. [<http://geoheat.oit.edu/bulletin/bull28-4/art1.pdf>]

- Reiners, Peter, *see* Callahan, O. A. [and others], 2007.
- Reistad, G. M.; Means, Paul, 1980, Heat pumps for geothermal applications—Availability and performance; Final report: U.S. Department of Energy DOE/ ID/12020-TI, 67 p.
- Reistad, G. M., *see also* Bodvarsson, Gunnar [and others], 1979.
Culver, Gene [and others], 1978.
- *Resource Planning Associates, Inc., 1977, Western energy resources and the environment—Geothermal energy: U.S. Environmental Protection Agency EPA-60019-77-010, 103 p.
- Rieke, H. H., III, *see* Edwards, L. M. [and others], 1982.
- Rigby, F. A.; McEuen, R. B., 1980, Resistivity study of Camas, Washington—Final report. In Korosec, M. A.; Schuster, J. E.; and others, The 1979–1980 geothermal resource assessment program in Washington: Washington Division of Geology and Earth Resources Open File Report 81-3, p. C1-C28.
- Rigby, F. A., *see also* McEuen, R. B. [and others], 1979.
- Riley Engineering, Inc., 1984, Geothermal water source, heat pump feasibility study, Washington State Penitentiary, Walla Walla, Washington: Riley Engineering, Inc. [under contract to] Washington Department of General Administration [and others], 21 p.
- Rioux, R. L., *see* Godwin, L. H. [and others], 1971.
- Rivenes, Roger, *see* Dellinger, Mark [and others], 1982.
- Roberts, E. D., *see* Nehring, N. L. [and others], 1979.
- Robertson, D. E., *see* Kindle, C. H. [and others], 1984.
- Robertson, Jeremy, *see* Hinman, G. W. [and others], 1979.
- Robinette, M. J., *see* Robinette, M. S. [and others], 1977.
- Robinette, M. S.; Robinette, M. J.; Brown, J. C., 1977, Geophysical investigations of Washington's ground-water resources; Annual report 1975/1976: Washington State University College of Engineering Research Report 77/15-6, 56 p.
- Rosenfeld, C. L., 1976, Operational aerial surveillance of the Sherman Crater area, Mt. Baker, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 57, no. 2, p. 87-88.
- Rubin, Meyer, *see* Crandell, D. R. [and others], 1962, 1975.
Hopson, C. A. [and others], 1962.
Mullineaux, D. R. [and others], 1972.
- Russell, I. C., 1893, A geological reconnaissance [*sic*] in central Washington: U.S. Geological Survey Bulletin 108, 108 p.
- Russell, R. H., 1972, Geothermal energy potential of Washington State: Washington Department of Ecology Technical Report 72-7, 23 p.
- Russell, R. H., 1972, Geothermal energy potential in Washington State. In Proceedings of the Thermal Power Conference: Washington State University, p. 197-220.
- Russell, R. H., 1973, Geothermal energy potential of Washington State: Geothermal Energy, v. 1, no. 4, p. 39-48.
- Ryan, G. P., 1980, Heating facilities for the city schools—Ephrata, Washington: Geothermal Resources Council Transactions, v. 4, p. 605-608.
- Ryan, G. P., 1982, Binary generators—You'll wonder where the power went: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 7, no. 2, p. 21-23.
- Ryan, G. P., 1983, Binary generators—The go-no go decision: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 8, no. 1, p. 21-25.
- Ryan, G. P., *see also* Higbee, C. V. [and others], 1981.
- Ryan, M. P.; Banks, N. G.; Hoblitt, R. P.; Blevins, J. Y. K., 1990, The in-situ thermal transport properties and the thermal structure of Mount St. Helens eruptive units. In Ryan, M. P., editor, Magma transport and storage: John Wiley and Sons, p. 137-155.
- Rybach, Ladislaus, 2007, Geothermal sustainability: Geo-Heat Center Bulletin, v. 28, no. 3. [<http://geoheat.oit.edu/bulletin/bull28-3/art2.pdf>]
- Rye, R. O., *see* Zimbelman, D. R. [and other], 1996.
- Ryley, D. J., *see* Kestin, Joseph [and others], 1980.
- Sacarto, D. M., 1976, State policies for geothermal development; Uncovering a major resource: National Conference of State Legislatures [Denver, Colo.], 94 p.
- Sackville-West Cortner; Gerard, Thomas J., and Associates, Inc., 1984, Geothermal heat pump study for Parke Creek Group Home: Sackville-West Cortner [Spokane, Wash.], 1 v.
- St. Lawrence, William; Qamar, Anthony; Moore, Johnnie; Kendrick, George, 1980, A comparison of thermal observations of Mount St. Helens before and during the first week of the initial 1980 eruption: Science, v. 209, no. 4464, p. 1526-1527.
- Sammel, E. A., 1979, Occurrence of low-temperature geothermal waters in the United States. In Muffler, L. J. P., editor, Assessment of geothermal resources of the United States—1978: U.S. Geological Survey Circular 790, p. 86-131.
- Sanders, J. W.; Miles, M. J., 1974, Mineral content of selected geothermal waters: University of Nevada Desert Research Institute Center for Water Resources Research Project Report 26, 37 p.
- Santos, J. F., *see* Van Denburgh, A. S. [and others], 1965.
- Sarikhan, I. Y., *see* Logan, R. L. [and others], 2009.
- Sass, J. H.; Lachenbruch, A. H.; Greene, G. W.; Moses, T. H., Jr.; Munroe, R. J., 1968, Progress report on heat-flow measurements in the western United States [abstract]: Eos (American Geophysical Union Transactions), v. 49, no. 1, p. 325-326.
- Sass, J. H.; Lachenbruch, A. H.; Munroe, R. J.; Greene, G. W.; Moses, T. H., Jr., 1971, Heat flow in the western United States: Journal of Geophysical Research, v. 76, no. 26, p. 6376-6413.
- Sass, J. H.; Lachenbruch, A. H.; Munroe, R. J.; Greene, G. W.; Moses, T. H., Jr., 1971, Heat-flow map of the western United States [abstract]: U.S. Geological Survey Professional Paper 750-A, p. A109-A110.
- Sass, J. H., *see* Duffield, W. A. [and other], 2003.
Nathenson, Manuel [and others], 1983.
- Sato, Motoaki; Malone, S. D.; Moxham, R. M.; McLane, J. E., 1976, Monitoring of fumarolic gas at Sherman Crater, Mt. Baker, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 57, no. 2, p. 88-89.
- Sawatzky, D. L., *see* Friedman, J. D. [and others], 1981.
Kieffer, H. H. [and others], 1984.
- Sceva, J. E., *see* Griffin, W. C. [and others], 1962.
- Schasse, H. W., compiler, 1987, Geologic map of the Mount Rainier quadrangle, Washington: Washington Division of Geology and Earth Resources Open File Report 87-16, 43 p., 1 plate, scale 1:100,000.
- Schasse, H. W., 2003, Geologic map of the Washington portion of the Cape Flattery 1:100,000 quadrangle: Washington Division of Geology and Earth Resources Open File Report 2003-5, 1 sheet, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-5_geol_map_capeflattery_100k.pdf]

- Schasse, H. W., 2003, Geologic map of the Washington portion of the Port Angeles 1:100,000 quadrangle: Washington Division of Geology and Earth Resources Open File Report 2003-6, 1 sheet, scale 1:100,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-6_geol_map_portangeles_100k.pdf]
- Schasse, H. W.; Kalk, M. L.; Petersen, B. B.; Polenz, Michael, 2009, Geologic map of the Langley and western part of the Tulalip 7.5-minute quadrangles, Island County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-69, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm69_geol_map_langley_24k.pdf]
- Schasse, H. W.; Kalk, M. L.; Polenz, Michael, 2009, Geologic map of the Juniper Beach 7.5-minute quadrangle, Island County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-70, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm70_geol_map_juniperbeach_24k.pdf]
- Schasse, H. W.; Logan, R. L., 1998, Geologic map of the Sequim 7.5-minute quadrangle, Clallam County, Washington: Washington Division of Geology and Earth Resources Open File Report 98-7, 22 p., 2 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr98-7_geol_map_sequim_24k.zip]
- Schasse, H. W.; Logan, R. L.; Polenz, Michael; Walsh, T. J., 2003, Geologic map of the Shelton 7.5-minute quadrangle, Mason and Thurston Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-24, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-24_geol_map_shelton_24k.pdf]
- Schasse, H. W.; Polenz, Michael, 2002, Geologic map of the Morse Creek 7.5-minute quadrangle, Clallam County, Washington: Washington Division of Geology and Earth Resources Open File Report 2002-8, 18 p., 2 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2002-8_geol_map_morsecreek_24k.zip]
- Schasse, H. W.; Slaughter, S. L., 2005, Geologic map of the Port Townsend South and part of the Port Townsend North 7.5-minute quadrangles, Jefferson County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-57, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm57_geol_map_porttownsends_24k.pdf]
- Schasse, H. W.; Wegmann, K. W., 2000, Geologic map of the Carlsborg 7.5-minute quadrangle, Clallam County, Washington: Washington Division of Geology and Earth Resources Open File Report 2000-7, 27 p., 2 plates, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2000-7_geol_map_carlsborg_24k.zip]
- Schasse, H. W.; Wegmann, K. W.; Polenz, Michael, 2004, Geologic map of the Port Angeles and Ediz Hook 7.5-minute quadrangles, Clallam County, Washington: Washington Division of Geology and Earth Resources Open File Report 2004-13, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2004-13_geol_map_portangeles_edizhook_24k.pdf]
- Schasse, H. W., *see also*
 Dragovich, J. D. [and others], 2002.
 Lingley, W. S., Jr. [and others], 1996.
 Logan, R. L. [and others], 2003.
 Polenz, Michael [and others], 2004, 2006, 2009.
 Walsh, T. J. [and others], 1987, 2003.
- *Scherer, C. R.; Golabi, Kamal, 1978, Geothermal reservoir management: U.S. Department of Energy UCB/SERL-78-5, 191 p.
- Schmidt, J. M., *see* Banks, N. G. [and others], 1978.
- Schmidt, M. E., *see* Ingebritsen, S. E. [and others], 2003.
- Schuster, J. E., 1972, Geothermal exploration in Washington. *In* Proceedings of the Thermal Power Conference: Washington State University, p. 225-246.
- Schuster, J. E., 1973, Geothermal energy in Washington: Washington Geologic Newsletter, v. 1, no. 4, p. 2-4.
- Schuster, J. E., 1973, The search for hot rocks—Geothermal exploration, Northwest: Pacific Search, v. 7, no. 7, p. 8-11.
- Schuster, J. E., 1973, The search for hot rocks—Geothermal exploration, Northwest: Washington Division of Geology and Earth Resources Reprint 11, 3 p.
- Schuster, J. E., 1974, Geothermal energy potential of Washington. *In* Washington Division of Geology and Earth Resources, Energy resources of Washington: Washington Division of Geology and Earth Resources Information Circular 50, p. 5-19.
- Schuster, J. E., 1974, Geothermal lease applications: Washington Geologic Newsletter, v. 2, no. 3, p. 2-4.
- Schuster, J. E., 1974, The search for hot rocks: Rocks and Minerals, v. 49, no. 2, p. 78-81.
- Schuster, J. E., 1974, The search for hot rocks—Geothermal exploration. Northwest: Geothermal Energy, v. 2, no. 5, p. 58-60.
- Schuster, J. E., 1975, Geothermal activities in Washington: Washington Geologic Newsletter, v. 3, no. 4, p. 12-13.
- Schuster, J. E., 1976, Some developments in mineral exploration in Washington during 1975—Geothermal: Washington Geologic Newsletter, v. 4, no. 1, p. 7.
- Schuster, J. E., 1981, Geothermal energy potential of the Yakima valley area, Washington. *In* Bloomquist, R. G., editor, Proceedings of the Geothermal Symposium—Low temperature utilization, heat pump applications, district heating, September 24, 1980: Washington State Energy Office WAOENG-81-05, p. XI 1 – XI 10.
- Schuster, J. E., 1981, A geothermal exploration philosophy for Mount St. Helens, (and other Cascade volcanoes?). *In* Russetta, C. A.; Foley, Duncan, editors, Geothermal direct heat program; Glenwood Springs Technical Conference proceedings; Volume 1: University of Utah Research Institute ESL-59, p. 297-300.
- Schuster, J. E., 1981, A proposal to Bonneville Power Administration for 1981–1983 Washington State geothermal resource assessment program. *In* Bloomquist, R. G., compiler, A proposal for Northwest geothermal development: Washington State Energy Office, Appendix 11.
- Schuster, J. E.; Blackwell, D. D.; Hammond, P. E.; Huntting, M. T., 1976, Heat-flow studies in Steamboat Mountain–Lemei Rock area, Skamania County, Washington [abstract]: American Association of Petroleum Geologists Bulletin, v. 60, no. 8, p. 1410.
- Schuster, J. E.; Blackwell, D. D.; Hammond, P. E.; Huntting, M. T., 1978, Heat flow studies in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington: Washington Division of Geology and Earth Resources Information Circular 62, 56 p.
- Schuster, J. E.; Bloomquist, R. G., 1994, Low-temperature geothermal resources of Washington: Washington Division of Geology and Earth Resources Open File Report 94-11, 53 p., 2 plates. [http://www.dnr.wa.gov/Publications/ger_ofr94-11_low_temp_geothermal.zip]

- Schuster, J. E.; Bloomquist, R. G., 1995, Low-temperature geothermal resources of Washington [abstract]. *In* Washington Department of Ecology, Abstracts from the 1st symposium on the hydrogeology of Washington State: Washington Department of Ecology, p. 152-153. [<http://www.ecy.wa.gov/events/hg/PastSymposia/abstracts1995.pdf>]
- Schuster, J. E.; Gulick, C. W.; Reidel, S. P.; Fecht, K. R.; Zurenko, S. E., 1997, Geologic map of Washington—Southeast quadrant: Washington Division of Geology and Earth Resources Geologic Map GM-45, 2 sheets, scale 1:250,000, with 20 p. text.
- Schuster, J. E.; Korosec, M. A., 1980, Geothermal resource assessment in Washington. *In* U.S. Department of Energy Division of Geothermal Energy, Resource assessment/commercialization planning meeting, Salt Lake City, Utah, January 21–24, 1980: U.S. Department of Energy DGE/DGRM, p. 146-152.
- Schuster, J. E.; Korosec, M. A., 1980, The Washington State geothermal resources assessment program of the Department of Natural Resources, Division of Geology and Earth Resources. *In* Bloomquist, R. G.; Wonstolen, K. A., editors, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing: Washington State Energy Office WAOENG-80-16, 5 p.
- Schuster, J. E.; Korosec, M. A., 1981, Preliminary report on heat-flow drilling in Washington during 1981: Washington Division of Geology and Earth Resources Open File Report 81-8, 36 p.
- Schuster, J. E., *see also* Blackwell, D. D. [and others], 1973, 1980, 1982. Dragovich, J. D. [and others], 2002. Korosec, M. A. [and others], 1980, 1981, 1982, 1983.
- Seely, D. B., 1985, Geothermal assessment in the Bonneville Power Administration service area. *In* U.S. Department of Energy Geothermal Technology Division, Proceedings, Geothermal program review IV: U.S. Department of Energy CONF-8509142 (DE86004074), p. 77-80.
- Senterfit, R. M., *see* Hoover, D. B. [and others], 1978.
- Shafer, D. S., 1980, Evaluation and implications of the thermal activity of Mt. Baker, Washington from aerial photographs and infrared images: Oregon Academy of Science Proceedings, v. 16, p. 15.
- Shaw, G. H., *see* Campbell, K. V. [and others], 1970.
- Shaw, H. R., *see* Smith, R. L. [and others], 1975.
- Sheppard, R. A., 1967, Geology of the Simcoe Mountains volcanic area, Washington: Washington Division of Mines and Geology Geologic Map GM-3, 1 sheet, scale 1:250,000.
- Sheppard, R. A., 1967, Petrology of a late Quaternary potassium-rich andesite from Mount Adams, Washington: U.S. Geological Survey Professional Paper 575-C, p. 55-59.
- Shevenell, Lisa, 1990, Chemical and isotopic investigation of the new hydrothermal system at Mount St. Helens, Washington: University of Nevada, Reno Doctor of Philosophy thesis, 282 p.
- Shevenell, Lisa, 1991, Chemical and isotopic investigation of the new hydrothermal system at Mount St. Helens, Washington [abstract]: Dissertation Abstracts International, v. 51, no. 11, Section B, p. 5221-B.
- Shevenell, Lisa, 1991, Tritium in the thermal waters discharging in Loowit Canyon, Mount St. Helens, Washington, U.S.A.: Chemical Geology (Isotope Geoscience Section), v. 94, no. 2, p. 123-135.
- Shevenell, Lisa; Goff, F. E., 1990, Condensation of magmatic volatiles into the hot spring waters of Loowit Canyon, Mt. St. Helens, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 22, no. 7, p. A56.
- Shevenell, Lisa; Goff, F. E., 1995, Evolution of hydrothermal waters at Mount St. Helens, Washington, USA: Journal of Volcanology and Geothermal Research, v. 69, no. 1-2, p. 73-94.
- Shreve, Jim, *see* Lund, J. W. [and others], 1980.
- Sidle, W. C., 1981, A geologic overview of the Cascade Range: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 6, no. 1, p. 3-9.
- Sifford, A., *see* Bloomquist, R. G. [and others], 1985, 1987.
- Sifford, B. A., III, *see* Bloomquist, R. G. [and others], 1989.
- Sigafoos, R. S., *see* Mullineaux, D. R. [and others], 1969.
- Silvester, L. F., *see* Doyle, P. T. [and others], 1986.
- Simmons, G. M., *see* Batdorf, J. A. [and others], 1984.
- Simpson, S. J.; Allen, E. M., 1985, Geothermal district heating favorability studies in seven Washington cities: Geothermal Resources Council Transactions, v. 9, pt. 1, p. 63-66.
- *Simpson, S. J.; Bloomquist, R. G., editors, 1987, District heating development guide HEATPLAN 3.0 user manual; A computer approach to district heating favorability analysis, volume 2: Washington State Energy Office WAOENG-87-17J2, 65 p.
- Simpson, S. J., *see also* Bloomquist, R. G. [and others], 1985, 1986.
- Simpson, Stewart, *see* Bloomquist, R. G. [and others], 1980.
- Skokan, C. K.; Ibrahim, A., 1978, Research on the physical properties of geothermal reservoir rock; Quarterly report: U.S. Department of Energy COO-2908-4, 62 p.
- Slaughter, S. L., *see* Polenz, Michael [and others], 2005. Schasse, H. W. [and other], 2005.
- Smith, Christian, *see* Sorey, M. L. [and others], 1983.
- Smith, F. W., *see* Burkhardt, H. E. [and others], 1980.
- Smith, G. O., 1901, Geology and water resources of a portion of Yakima County, Washington: U.S. Geological Survey Water-Supply Paper 55, 68 p.
- Smith, J. G., 1987, New compilation geologic map of the Cascade Range in Washington: Geothermal Resources Council Transactions, v. 11, p. 309-314.
- Smith, J. G., 1989, Geologic map of upper Eocene to Holocene volcanic and related rocks in the Cascade Range, Washington: U.S. Geological Survey Open-File Report 89-311, 61 p., 1 plate, scale 1:500,000.
- *Smith, K. C., 1981, A layman's guide to geothermal aquaculture: Oregon Institute of Technology Geo-Heat Center, 14 p. [<http://geoheat.oit.edu/pdf/tp63.pdf>]
- Smith, R. L.; Shaw, H. R., 1975, Igneous-related geothermal systems. *In* White, D. E.; Williams, D. L., editors. Assessment of geothermal resources of the United States—1975: U.S. Geological Survey Circular 726, p. 58-83.
- Smith, R. N., 1980, Heat flow of the western Snake River plain: Washington State University Master of Science thesis, 111 p.
- Snavelly, D. F., *see* Kiver, E. P. [and others], 1977.
- Snavelly, J., *see* Kiver, E. P. [and others], 1977.
- Sommaruga, C.; Cioppi, D., 1986, Geothermal aquaculture: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 9, no. 4, p. 12-14.

- Sorey, M. L.; Nathenson, Manuel; Smith, Christian, 1983, Methods for assessing low-temperature geothermal resources. In Reed, M. J., editor, Assessment of low-temperature geothermal resources of the United States—1982: U.S. Geological Survey Circular 892, p. 17-30.
- Sorey, M. L.; Reed, M. J.; Mariner, R. H.; Nathenson, Manuel, 1982, Assessment of low-temperature geothermal resources in the United States: Geothermal Resources Council Transactions, v. 6, p. 479-482.
- Sorey, M. L., *see also* Reed, M. J. [and others], 1983.
- *spinics.net, 2005, Hot springs of the United States—Washington: spinics.net. [<http://www.spinics.net/dchs/showhs.php?sort=long&state=WA>]
- Spinney, P. J., 1984, Seattle City Light geothermal exploration studies [abstract]. In Abstracts of presentations, Eighth annual geothermal conference and workshop: Electric Power Research Institute, p. 2-10.
- Spurr, Mark, *see* Bloomquist, R. G. [and others], 1999.
- SRI International; Freeman and Associates; Intasa; Leitner, Philip, 1980, Small power production and cogeneration facilities—Eligibility, rates and exemptions for qualifying and utility-owned geothermal small power production facilities; Western regional draft supplemental environmental impact statement: U.S. Federal Energy Regulatory Commission FERC/EIS-0019DS, 1 v.
- Stanley, W. D., 1982, A regional magnetotelluric survey of the Cascade Range region, northwestern United States: U.S. Geological Survey Open-File Report 82-126, 7 sheets microfiche.
- Stanley, W. D., 1983, Regional and local geoelectrical structures in the Cascades and their role in geothermal and volcano hazard assessment [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 887.
- Stanley, W. D., 1984, Tectonic study of Cascade Range and Columbia plateau in Washington State based upon magnetotelluric soundings: Journal of Geophysical Research, v. 89, no. B6, p. 4447-4460.
- Stanton, B. W., *see* Dragovich, J. D. [and others], 2003, 2004.
Logan, R. L. [and others], 2009.
- Stanton, K. D., *see* Dragovich, J. D. [and others], 2009.
- Stavert, L. W., 1971, A geochemical reconnaissance investigation of Mount Baker andesite: Western Washington State College Master of Science thesis, 60 p., 3 plates.
- Stearns, H. T., *see* Stearns, N. D. [and others], 1937.
- Stearns, N. D.; Stearns, H. T.; Waring, G. A., 1937, Thermal springs in the United States: U.S. Geological Survey Water-Supply Paper 679-B, p. 88.
- Steele, J. L., 1975, A heat flow study in the Turtle Lake quadrangle, Washington: Southern Methodist University Master of Science thesis, 111 p.
- Steele, J. L., *see also* Blackwell, D. D. [and others], 1980, 1982, 1983, 1985, 1990, 1991, 1992.
- Steele, W. K., *see* Kiver, E. P. [and others], 1975.
- Steinberg, M. A., *see* Dassow, J. A. [and others], 1973.
- Steinkampf, W. C., *see* Hearn, P. P. [and others], 1985.
- Stith, J. L., *see* Radke, L. F. [and others], 1976.
- Stix, John, *see* Kron, Andrea [and others], 1982.
- Stoffel, K. L.; Joseph, N. L.; Waggoner, S. Z.; Gulick, C. W.; Korosec, M. A.; Bunning, B. B., 1991, Geologic map of Washington—Northeast quadrant: Washington Division of Geology and Earth Resources Geologic Map GM-39, 3 sheets, scale 1:250,000, with 36 p. text.
- Stoffel, K. L.; Korosec, M. A., 1984, Low temperature geothermal resources of the Columbia Basin, eastern Washington: Washington Geologic Newsletter, v. 12, no. 4, p. 5-11.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Fluid-temperature logs for selected wells in eastern Washington: U.S. Department of Energy Office of Scientific and Technical Information DOE/ET/27014-T14, 351 p.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Fluid-temperature logs for selected wells in eastern Washington: Washington Division of Geology and Earth Resources Open File Report 83-15, 351 p.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Geophysical logs of selected wells in eastern Washington: U.S. Department of Energy Office of Scientific and Technical Information DOE/ET/27014-T16, 81 p.
- Stoffel, K. L.; Widness, S. E., compilers, 1983, Geophysical logs of selected wells in eastern Washington: Washington Division of Geology and Earth Resources Open File Report 83-14, 81 p.
- Stone, R. T., 1971, Implementing the Federal Geothermal Steam Act of 1970. In Washington Department of Natural Resources, Papers presented at the First Northwest Conference on Geothermal Power: Washington Department of Natural Resources, 5 p.
- Stotelmeyer, R. B., *see* Church, S. E. [and others], 1984.
- Stradling, D. F., *see* Derkey, R. E. [and others], 1999, 2003, 2004, 2005, 2006.
Hamilton, M. M. [and others], 2004.
- Street, L. V., *see* Bloomquist, R. G. [and others], 1985.
- Stricklin, C. R., 1975, Geophysical survey of the Lemei Rock–Steamboat Mountain area, Washington: University of Puget Sound Master of Science thesis, 23 p., 11 plates.
- Stricklin, C. R., *see also* Hammond, P. E. [and others], 1976.
- Sundquist, C. T., 1987, The absorption power generator: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 10, no. 1, p. 16.
- Sundquist, C. T., 1989, A small absorption power generator using low grade geothermal heat: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 12, no. 1, p. 7-11.
- Supton, Paul, *see* Lindsey, M. K. [and others], 1975.
- Suratt, W. B.; Lee, Chang-Ou, 1978, Study and testing of direct contact heat exchangers for geothermal brines; Phase II, August, 1976–June, 1977: U.S. Department of Energy ORO-4893-2, 104 p.
- Swanberg, C. A., 1987, Geothermal exploration activity and developments in the Northwest [abstract]. In Northwest Petroleum Association, Symposium, program and abstracts: Northwest Petroleum Association, 1 p.
- Swanson, D. A., 1964, The middle and late Cenozoic volcanic rocks of the Tieton River area, south-central Washington: Johns Hopkins University Doctor of Philosophy thesis, 329 p., 3 plates.
- Swanson, D. A., 1966, Tieton volcano, a Miocene eruptive center in the southern Cascade mountains, Washington: Geological Society of America Bulletin, v. 77, no. 11, p. 1293-1314.
- Swanson, D. A., 1978, Geologic map of the Tieton River area, Yakima County, south-central Washington: U.S. Geological Survey Miscellaneous Field Studies Map MF-968, 1 sheet, scale 1:48,000.
- Swanson, D. A.; Wright, T. L.; Zietz, Isidore, 1979, Aeromagnetic map and geologic interpretations of the west-central Columbia plateau, Washington and adjacent Oregon: U.S. Geological Survey Geophysical Investigations Map GP-917, 1 sheet, scale 1:250,000.
- Swanson, D. A., *see also* Frank, D. G. [and others], 1977.
Hammond, P. E. [and others], 1977.
MacLeod, N. S. [and others], 1985.

- Swanson, J. R., *see* Brook, C. A. [and others], 1979.
- Swenson, D. H., 1973, Geochemistry of three Cascade volcanoes: New Mexico Institute of Mining and Technology Master of Science thesis, 101 p.
- Swenson, D. H., *see also* Condie, K. C. [and others], 1974.
- Swenson, H. A., *see* Griffin, W. C. [and others], 1962.
- Swisher, Ron; Wright, G. A., 1990, Inhibition of corrosion at the air–water interface in geothermal downhole heat exchangers: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 12, no. 4, p. 10-13.
- Szego, Edoardo, *see* Piatti, Alberto [and others], 1992.
- Tabor, R. W.; Cady, W. M., 1978, Geologic map of the Olympic Peninsula, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map 1-994, 2 sheets, scale 1:125,000.
- Tabor, R. W.; Crowder, D. F., 1969, On batholiths and volcanoes—Intrusion and eruption of late Cenozoic magmas in the Glacier Peak area, North Cascades, Washington: U.S. Geological Survey Professional Paper 604, 67 p., 1 plate.
- Tabor, R. W., *see also* Crowder, D. F. [and others], 1966.
- Tanner, Lane, *see* Nehring, N. L. [and others], 1979.
- Taylor, G. C., Jr., 1944, Factual data pertaining to wells and springs in the Columbia Basin Project area, Washington: U.S. Geological Survey unpublished report, 85 p.
- Teasdale, W. E., *see* Hodges, R. E. [and others], 1991.
- Tester, J. W., *see* Milora, S. L. [and others], 1976.
- *Thermal Power Conference, 1972, Proceedings, October 5–6, 1972: Washington State University, 257 p.
- Thomas, C. C., *see* DeBerry, D. W. [and others], 1978.
- Thompson, J. M., 1990, Chemical data from thermal and nonthermal springs in Mount St. Helens National Monument, Washington: U.S. Geological Survey Open-File Report 90-690A, 14 p.; USGS OFR 90-690B, 5.25 2D IBM diskette; USGS OFR 90-690C, 2S/2D microdisc.
- Thompson, J. M.; White, L. D.; Casadevall, T. J.; Maley, C. A.; Keith, T. E. C., 1985, Hot springs depositing travertine at Mount St. Helens [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 1154.
- Thompson, J. M.; White, L. D.; Maley, C. A., 1988, Thermal springs on Mount Saint Helens [abstract]: Eos (American Geophysical Union Transactions), v. 69, no. 44, p. 1481.
- Thomson, R. E.; Davis, E. E.; Burd, B. J., 1995, Hydrothermal venting and geothermal heating in Cascadia Basin: Journal of Geophysical Research, v. 100, no. B4, p. 6121-6141.
- Thorsen, G. W., 1971, Prospects for geothermal energy in Washington. In Washington Department of Natural Resources, Papers presented at the First Northwest Conference on Geothermal Power: Washington Department of Natural Resources, 14 p.
- Thorsen, G. W., *see also* Dragovich, J. D. [and others], 2005.
- Polenz, Michael [and others], 2005.
- Tolan, T. L., *see* Derkey, R. E. [and others], 2006.
- Troost, K. G., *see* Logan, R. L. [and others], 2006.
- Troost, M. L., *see* Dragovich, J. D. [and others], 2000.
- Truesdell, A. H., *see* Fournier, R. O. [and others], 1974.
- Nehring, N. L. [and others], 1977.
- *Unger, J. D.; Decker, R. W., 1970, The microearthquake activity of Mount Rainier, Washington: Seismological Society of America Bulletin, v. 60, no. 6, p. 2023-2035.
- Unger, J. D.; Mills, K. F., 1972, Microearthquakes at Mt. Rainier, 1969: Seismological Society of America Bulletin, v. 62, no. 4, p. 1079-1081.
- Unger, J. D.; Mills, K. F., 1973, Earthquakes near Mount St. Helens, Washington: Geological Society of America Bulletin, v. 84, no. 3, p. 1065-1067.
- *United Nations Symposium on the Development and Use of Geothermal Resources (2nd, San Francisco, 1975), 1976, Proceedings: Lawrence Berkeley Laboratory, 3 v.
- *United Nations Symposium on the Development and Utilization of Geothermal Resources, (1st, Pisa, 1970), 1971, Proceedings: Geothermics, Special Issue 2, 2 v.
- *U.S. Bonneville Power Administration, 1983, Proceedings; Heat pumps for heating and cooling of residential and light commercial buildings: U.S. Bonneville Power Administration, 1 v.
- *U.S. Bonneville Power Administration, 1993, Resource programs final environmental impact statement: U.S. Bonneville Power Administration DOE/EIS-0162, 4 v.
- U.S. Bureau of Land Management; U.S. Forest Service, 2008, Draft programmatic environmental impact statement (PEIS) for geothermal leasing in the western United States: U.S. Bureau of Land Management; U.S. Forest Service DES 08-22, 3 v. [paper copy and CD copy]
- U.S. Department of Energy, 1980, Resource assessment/commercialization planning meeting, Salt Lake City, Utah, 1980: U.S. Department of Energy DGE/DGRM, 217 p.
- *U.S. Department of Energy, 1991, The geothermal partnership—Industry, utilities, and government meeting the challenges of the 90's; Proceedings, Geothermal Program Review IX, 1991, San Francisco, CA: U.S. Department of Energy Geothermal Division CONF-913105, 234 p.
- *U.S. Department of Energy, 1992, Geothermal energy and the utility market—The opportunities and challenges for expanding geothermal energy in a competitive supply market; Proceedings, Geothermal Program Review X, March 24–26, 1992, San Francisco, CA: U.S. Department of Energy Geothermal Division CONF-920378, 227 p.
- *U.S. Department of Energy, 1993, Geothermal energy—The environmentally responsible energy technology for the Nineties; Project summaries, Geothermal Program Review XI: U.S. Department of Energy Geothermal Division, 246 p.
- U.S. Department of Energy, 1995, Geothermal progress monitor—Report no. 17: U.S. Department of Energy DOE/EE-0091, 85 p.
- U.S. Department of the Interior, 1973, Final environmental statement for the geothermal leasing program: U.S. Department of the Interior, 4 v.
- *U.S. Energy Information Administration, 1991, Geothermal energy in the western United States and Hawaii—Resources and projected electricity generation supplies: U.S. Department of Energy Energy Information Administration DOE/EIA-0544, 70 p.
- *U.S. Forest Service, 1978, Geothermal leasing and development, Gifford Pinchot National Forest; Draft environmental analysis report: U.S. Forest Service Gifford Pinchot National Forest (Vancouver, Wash.), 402 p.
- U.S. Forest Service, 1978, Geothermal leasing and development on part of the Gifford Pinchot National Forest; Draft environmental statement: U.S. Forest Service Pacific Northwest Region USDA-FS-R6-DES-(ADM)79-1, 348 p.
- *U.S. Forest Service, 1978, Gifford Pinchot National Forest—Final environmental impact statement, Upper Cispus Planning Unit, land management plan: U.S. Forest Service Pacific Northwest Region USDA-FS-R6-FES(ADM)-78-1, 225 p.

- *U.S. Forest Service, 1979, Geothermal leasing and development on part of the Gifford Pinchot National Forest, Skamania County, Washington: U.S. Forest Service USDA-FS-R6-FES-(ADM)79-1, 397 p.
- U.S. Forest Service, 1982, Geothermal resources seminar, Mt. Baker–Snoqualmie National Forest, June 24, 1982: U.S. Forest Service Pacific Northwest Region, 1 v., looseleaf.
- U.S. Forest Service, 1988, Earth's heat—Geothermal energy on the national forests of the Pacific Northwest: U.S. Forest Service, 12 p.
- U.S. Forest Service, *see also* U.S. Bureau of Land Management [and other], 2008.
- *U.S. Geological Survey, 1975, Geothermal steam act of 1970, Public Law 91-581, 91st Congress, S.368, December 24, 1970, (84 Stat. 1566), (30 U.S.C. 1001-1025): U.S. Geological Survey, 45 p.
- U.S. Geological Survey, 1977, Aeromagnetic map of part of northern Washington: U.S. Geological Survey Open-File Report 77-254, 2 sheets, scale 1:62,500.
- U.S. Geological Survey, 1980, Cascade Range could produce thermal energy as well as volcanoes: *Remote Sensing Quarterly*, v. 2, no. 3, p. 41-43.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Indian Heaven area, Washington: U.S. Geological Survey Open-File Report 81-928, 1 sheet, scale 1:62,500.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Adams area, Washington: U.S. Geological Survey Open-File Report 81-929, 1 sheet, scale 1:62,500.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. Margaret area, Washington: U.S. Geological Survey Open-File Report 81-926, 1 sheet, scale 1:62,500.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Mt. St. Helens area, Washington: U.S. Geological Survey Open-File Report 81-932, 1 sheet, scale 1:62,500.
- U.S. Geological Survey, 1995, Aerial infrared surveys in the investigation of geothermal and volcanic heat sources: U.S. Geological Survey Fact Sheet 079-95, 4 p.
- Urbanek, M. W., 1978, Development of direct contact heat exchangers for geothermal brines—Final report for eight (8) month period, October 4, 1977–June 30, 1978: Lawrence Berkeley Laboratory LBL-8558, 132 p.
- Valentine, G. M., 1960, Mineral waters. *In* Valentine, G. M., Inventory of Washington minerals—Part I, Volume 1, Nonmetallic minerals, 2d ed., rev. by M. T. Huntting: Washington Division of Mines and Geology Bulletin 37, pt. 1, v. 1, p. 64-67.
- Van Denburgh, A. S.; Santos, J. F., 1965, Ground water in Washington—Its chemical and physical quality: Washington Division of Water Resources Water-Supply Bulletin 24, 93 p.
- Van Orstrand, C. E., 1935, Normal geothermal gradient in the United States: *American Association of Petroleum Geologists Bulletin*, v. 19, no. 1, p. 78-115.
- Varnado, S. G., editor, 1980, Geothermal drilling and completion technology development program annual progress report, October 1979–September 1980: Sandia National Laboratories SAND80-2179, 524 p.
- Verhoogen, Jean, 1937, Mount St. Helens—A recent Cascade volcano: University of California Department of Geological Sciences Bulletin, v. 24, no. 9, p. 263-302.
- Vervoot, Jeff, *see* Dragovich, J. D. [and others], 2009.
- Vice, D. H., 1976, Black Diamond geothermal prospect, King Co., Washington: Unpublished report, 7 sheets.
- Vice, D. H., 1978, Data from the U.S. Geological Survey—Thermal IR imagery of the Rainier corridor in Washington, [Letter to C. W. Jordan]: [Published privately by the author], 3 p.
- Vice, D. H., 1978, Tieton geothermal prospect: [The author], 1 v.
- Vice, D. H., 1980, Geothermal potential in Washington. *In* Bloomquist, R. G.; Wonstolen, K. A., editors, Proceedings of the geothermal symposium—Potential, legal issues, economics, financing: Washington State Energy Office WAOENG-80-16, p. IV-1 – IV-7.
- Vice, D. H., 1980, The Pigeon Springs geothermal prospect, Cowlitz Co., Washington: Burlington Northern, [12 p.].
- Vice, D. H., 1980, The Summit Creek geothermal prospect: Burlington Northern, [8 p.], 1 plate, scale 1:62,500.
- Vice, D. H., 2008, Geothermal exploration in the central Washington Cascades by Burlington Northern: Unpublished report, 18 p.
- Vice, D. H.; Gold, D. P., 1990, Some changes in the thermal and hydrologic regime in the area around Mt. St. Helens from 1977 to 1981 [abstract]: *Geological Association of Canada Program with Abstracts*, v. 15, p. A-135.
- Vimmerstedt, Laura, 1999, Opportunities for small geothermal power projects: *Geo-Heat Center Bulletin*, v. 20, no. 2, p. 27-29. [<http://geoheat.oit.edu/bulletin/bull20-2/art3.pdf>]
- Vitro Engineering Corporation, 1981, Geothermally assisted heat pump system feasibility study, Yakima Regional Post Office, Yakima, Washington: Oregon Institute of Technology Geo-Heat Center, 1 v.
- Vonheeder, E. R., 1978, Nonmetallic and industrial minerals and energy exploration: *Washington Geologic Newsletter*, v. 7, no. 1, p. 5-8.
- Waggoner, S. Z., *see* Stoffel, K. L. [and others], 1991.
- Wahl, E. F., 1977, Geothermal energy utilization: John Wiley and Sons, 302 p.
- Waldron, H. H., *see* Crandell, D. R. [and others], 1956.
- Waldron, R. L., 1986, Hydrothermal alteration of the Gamma Ridge rocks, on Glacier Peak, and their relation to hot spring activity: Western Washington University Master of Science thesis, 57 p.
- Walkey, Clifton, 1984, Geochemistry and structural setting of a geothermal spring located north of the Washington–Oregon border proximate to the Snake River: Washington State University Master of Science thesis, 66 p.
- Walsh, T. J.; Korosec, M. A.; Phillips, W. M.; Logan, R. L.; Schasse, H. W., 1987, Geologic map of Washington—Southwest quadrant: Washington Division of Geology and Earth Resources Geologic Map GM-34, 2 sheets, scale 1:250,000, with 28 p. text.
- Walsh, T. J.; Logan, R. L., 2005, Geologic map of the East Olympia 7.5-minute quadrangle, Thurston County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-56, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_gm56_geol_map_eastolympia_24k.pdf]
- Walsh, T. J.; Logan, R. L.; Polenz, Michael, 2003, Geologic map of the McNeil Island 7.5-minute quadrangle, Pierce and Thurston Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-22, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-22_geol_map_mcneilisland_24k.pdf]

- Walsh, T. J.; Logan, R. L.; Polenz, Michael; Schasse, H. W., 2003, Geologic map of the Nisqually 7.5-minute quadrangle, Thurston and Pierce Counties, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-10, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-10_geol_map_nisqually_24k.pdf]
- Walsh, T. J.; Logan, R. L.; Schasse, H. W.; Polenz, Michael, 2003, Geologic map of the Tumwater 7.5-minute quadrangle, Thurston County, Washington: Washington Division of Geology and Earth Resources Open File Report 2003-25, 1 sheet, scale 1:24,000. [http://www.dnr.wa.gov/Publications/ger_ofr2003-25_geol_map_tumwater_24k.pdf]
- Walsh, T. J., *see also*
 Dragovich, J. D. [and others], 2002, 2007, 2009.
 Lingley, W. S., Jr. [and others], 1996.
 Logan, R. L. [and other], 2004, 2007.
 Logan, R. L. [and others], 2003, 2006, 2009.
 Schasse, H. W. [and others], 2003.
- Warfel, M. R., 1995, Application of groundwater-source heat pumps for heating and cooling in Washington State [abstract]. *In* Washington Department of Ecology, Abstracts from the 1st Symposium on the Hydrogeology of Washington State: Washington Department of Ecology, p. 25.
- Waring, G. A., 1965, Thermal springs of the United States and other countries of the world—A summary; revised by R. R. Blankenship and Ray Bentall: U.S. Geological Survey Professional Paper 492, 383 p.
- Waring, G. A., *see also* Stearns, N. D. [and others], 1937.
- Washington Department of Natural Resources, 1971, Papers presented at the First Northwest Conference on geothermal power: Washington Department of Natural Resources, 1 v.
- Washington Division of Geology and Earth Resources, *see also* Biggane, J. H. [and others], 1983.
- *Washington State Energy Office, 1987?, District heating and cooling: Washington State Energy Office, 4 p.
- *Washington State Energy Office, 1989, Building conversion to district heating: Washington State Energy Office, 4 p.
- Washington State Energy Office, 1989, Designing new buildings for district heating: Washington State Energy Office, 4 p.
- Waters, A. C., *see*
 Fiske, R. S. [and others], 1963.
 Hopson, C. A. [and others], 1962.
- Watson, J. C., 1978, Sampling and analysis methods for geothermal fluids and gases: Battelle Pacific Northwest Laboratories PNL-MA-572, 1 v.
- Watzlaf, G. R.; Ackman, T. E., 2007, Flooded underground coal mines—A significant source of inexpensive geothermal energy: *Reclamation Matters*, v. 3, no. 2, p. 4-7.
- Waugh, Kathleen, *see* Holmes, Jenny [and other], 1983.
- Waxing, G. A., 1913, Geology and water resources of a portion of south-central Washington: U.S. Geological Survey Water-Supply Paper 316, 46 p.
- Wayland, R. G., *see* Godwin, L. H. [and others], 1971.
- Weakley, S. A., *see* Davis, A. E. [and others], 1980.
- Weaver, C. S., 1976, Seismic events on Cascade volcanoes [abstract]: *Dissertation Abstracts International*, v. 37, no. 3, Section B, p. 1157B.
- Weaver, C. S., 1976, Seismic events on Cascade volcanoes: University of Washington Doctor of Philosophy thesis, 151 p.
- Weaver, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism—An improved first-order geothermal assessment of the Cascade Range. *In* Guffanti, Marianne; Muffler, L. J. P., editors, *Proceedings of the workshop on geothermal resources of the Cascade Range*: U.S. Geological Survey Open-File Report 85-521, p. 14-17.
- Webb, J., *see* Cantwell, Thomas [and others], 1965.
- Wegmann, K. W., *see*
 Polenz, Michael [and others], 2004.
 Schasse, H. W. [and other], 2000.
 Schasse, H. W. [and others], 2004.
- Wehlage, E. F., 1981, Conserving electric power by geothermal refrigeration, cooling and freezing: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 6, no. 2, p. 3-10.
- Welch, J. R., 1977, The mineral industry of Washington: U.S. Bureau of Mines Minerals Yearbook 1974, Volume II, p. 749-757.
- White, D. E.; Williams, D. L., editors, 1985, Assessment of geothermal resources of the United States—1975: U.S. Geological Survey Circular 726, 155 p.
- White, D. E., *see also*
 Fournier, R. O. [and others], 1974.
 Godwin, L. H. [and others], 1971.
- White, D. P., *see* Dethier, D. P. [and others], 1996.
- White, L. D., *see*
 Barnes, Ivan [and others], 1981.
 Mariner, R. H. [and others], 2003.
 Nehring, N. L. [and others], 1979.
 Thompson, J. M. [and others], 1985, 1988.
- *White, Tom, editor, 1985, Geothermal Resources Council, Pacific Northwest Section fall meeting, September 24–25, 1985, Portland, Oregon, parts I and 11; Summary report [preliminary]: William L. Gilbertson Business Communications (Portland, Ore.) for U.S. Bonneville Power Administration, 89 p.
- Widness, S. E., 1983, Low temperature geothermal resource evaluation of the Moses Lake–Ritzville–Connell area, Washington: U.S. Department of Energy Office of Scientific and Technical Information DOE/ET/27014-T8, 27 p.
- Widness, S. E., 1983, Low temperature geothermal resource evaluation of the Moses Lake–Ritzville–Connell area, Washington: Washington Division of Geology and Earth Resources Open File Report 83-11, 27 p.
- Widness, S. E., 1986, The low-temperature geothermal resource of the Moses Lake–Ritzville–Connell area, east-central Washington: Washington State University Master of Science thesis, 357 p., 2 plates.
- Widness, S. E., *see also* Stoffel, K. L. [and other], 1983.
- Williams, D. L., *see* Finn, C. A. [and others], 1983.
- Williams, S. A., *see*
 Dragovich, J. D. [and others], 2009.
 White, D. E. [and others], 1985.
- *Wilson, Alex, 2007, In the pipeline—District energy systems and green building: *Environmental Building News*, v. 16, no. 3, p. 1.
- Wise, W. S., 1961, The geology and mineralogy of the Wind River area, Washington, and the stability relations of celadonite: Johns Hopkins University Doctor of Philosophy thesis, 258 p., 2 plates, scale 1:62,500.
- Wise, W. S., 1970, Cenozoic volcanism in the Cascade mountains of southern Washington: Washington Division of Mines and Geology Bulletin 60, 45 p., 1 plate.
- Witcher, J. C., 1980, Geothermal space heating/cooling: Oregon Institute of Technology Geo-Heat Utilization Center Quarterly Bulletin, v. 5, no. 2, p. 18-20.
- Wohletz, Kenneth; Heiken, Grant, 1992, *Volcanology and geothermal energy*: University of California Press, 432 p.
- Wolfe, M. W., *see* Dragovich, J. D. [and others], 2004.
- Wolff, F. E., *see* Dragovich, J. D. [and others], 2009.

- Wonstolen, K. A., 1980, Geothermal legislative policy concerns. *In* Bloomquist, R. G.; Wonstolen, K. A., editors, Proceedings of the geothermal symposium—Potential, legal issues, economies, financing: Washington State Energy Office WAOENG-80-16, 14 p.
- Wonstolen, K. A., *see also* Bloomquist, R. G. [and others], 1980. Fahys-Smith, Virginia [and others], 1981.
- Woodruff, E. M., *see* Kindle, C. H. [and others], 1981.
- Wright, G. A., *see* Swisher, Ron [and others], 1990.
- Wright, P. M., 1991, Geochemistry: Oregon Institute of Technology Geo-Heat Center Quarterly Bulletin, v. 13, no. 1, p. 8-12.
- Wright, T. L., *see* Swanson, D. A. [and others], 1979.
- Youngquist, Walter, 1976, Geothermal energy—Northwest sleeping giant? [abstract]: Oregon Academy of Science Proceedings, v. 12, p. 61.
- Youngquist, Walter, 1976, Pacific Northwest geothermal—Review and outlook: *Geothermal Energy*, v. 4, no. 5, p. 28-31.
- Youngquist, Walter, 1977, Pacific Northwest geothermal; 1976 review, 1977 outlook: *Geothermal Energy*, v. 5, no. 6, p. 8-17.
- Youngquist, Walter, 1979, Pacific Northwest geothermal; 1978 review, 1979 outlook: *Geothermal Energy*, v. 7, no. 4, p. 11-15.
- Youngquist, Walter, 1980, Pacific Northwest geothermal—Review and outlook: *Geothermal Energy*, v. 8, no. 10-11, p. 3-11.
- Youngquist, Walter, 1981, Geothermal potential of the Cascades. *In* Geothermal Resources Council, Geothermal potential of the Cascade mountain range—Exploration and development: Geothermal Resources Council Special Report 10, p. 25-29.
- Zietz, Isidore, *see* Swanson, D. A. [and others], 1979.
- Zimbelman, D. R.; Rye, R. O., 1996, Dynamics of hydrothermal systems in an active stratovolcano—Mount Rainier, Washington [abstract]: *Geological Society of America Abstracts with Programs*, v. 28, no. 7, p. A-334.
- *Zimmerman, K. H.; Powell, R. H., Jr., editors, 1987, Heat pumps—Prospects in heat pump technology and marketing: Proceedings of the 1987 International Energy Agency heat pump conference: Lewis Publishers (Chelsea, Mich.), 573 p.
- Zurenko, S. E., *see* Schuster, J. E. [and others], 1997.

Appendix: Additional Sources of Geothermal Information

Western States Geothermal Database

This CD contains information for the following states (no. of entries): Alaska (238), Arizona (1251), California (989), Colorado (168), Idaho (1555), Montana (292), Nebraska (87), Nevada (455), New Mexico (361), North Dakota (128), Oregon (2195), South Dakota (821), Texas (1101), Utah (964), Washington (814), and Wyoming (356).

The CD may contain up to five databases for each of the western states above. The five databases are:

- 1) *Wells and Springs*—contains all the known wells and springs for that state with a temperature typically greater than 20°C.
- 2) *Chemistry*—contains the most common fluid chemistry for the wells and springs listed in the Wells and Springs database. Chemistry information was not available for Texas and Nebraska.
- 3) *Other Information*—contains additional information found in the original databases that did not fit in the above two databases.
- 4) *Direct-Use Sites*—contains known locations of existing direct-use sites for each state. The states of Arkansas, Georgia, Hawaii, New York and Virginia were also included in the database since they all have direct-use.
- 5) *Collocated Sites*—contains information on population centers located within 8 km of a known resource with a temperature of 50°C or greater.

The databases are available in three different formats for use over a wide range of spreadsheets and database programs. The three formats are listed below:

- 1) QuattroPro 8 extension *.wb3
- 2) Microsoft Excel 97 extension *.xls
- 3) Comma delimited text extension *.csv

Price: For all the western states, \$27.50; for just one state, \$12.00. To order the database CD online go to the Geo-Heat Center Store [<https://www.oit.edu/Storefront/geoheat/Store/Default.aspx>].

For further information, contact the Geo-Heat Center at 541-885-1750 or send an e-mail to geoheat@oit.edu. Please include a proper e-mail address within the text.

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Geo-Heat Center Quarterly Bulletin online

The *Geo-Heat Center Quarterly Bulletin* (<http://geoheat.oit.edu/bullet.htm>) informs the geothermal technical community and the public on progress in research and development activities of direct heat utilization of low-temperature resources. This periodical provides valuable “how to” articles on various geothermal applications and equipment. It has been published since

1975 and currently has over 2,000 subscribers. Back issues of this periodical are available upon request.

Geo-Heat Center web links

The Geo-Heat Center webpage, *Other Places of Interest*, provides valuable links to other geothermal organizations, equipment manufacturers, and laboratories (<http://geoheat.oit.edu/other.htm>).

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Metadata for Geothermal Locations in Washington State, version 1.0 (FGDC and ESRI metadata)

This dataset (http://www.dnr.wa.gov/Publications/ger_data_geothermal_locations.htm) presents information on the location, physical characteristics, and water chemistry of geothermal resources in Washington. It includes 941 thermal wells, 34 thermal springs, lakes, and fumaroles, and 238 chemical analyses. Most thermal springs occur in the Cascade Range, and many are associated with stratovolcanoes. In contrast, 97 percent of thermal wells are located in the Columbia Basin of southeastern Washington. Some 83.5 percent are located in Adams, Benton, Franklin, Grant, Walla Walla, and Yakima Counties. Yakima County, with 259 thermal wells, has the most.

U.S. Geothermal Resource (3–10 km depth)

Interactive maps, titled *U.S. Geothermal Resource (3-10 km depth)* are available online at <http://www.google.org/egs>. You may need to download *Google Earth* at <http://earth.google.com> to view the maps. Map data include Enhanced Geothermal Systems (EGS) potential and state-by-state information.

From: Geothermal Bulletin, v. 37, no. 5, p. 23.

Federal and State Lands Lease Map Data

As geothermal developers move toward using the hot fluids produced from oil and gas wells, a new map released by Petroleum GeoGraphics Corporation may be of interest. The map holds layers of oil- and gas-leasing data for federal and state lands in all of the western United States. The map layers include a full legal description, acreage, owner name, case type, interest-owner information, case disposition, action type and date, lease status, price per acre, serial number, commodity type, and lease-expiration date.

For more information, go to <http://www.Petroleumgeo.com> or call 1-877-747-0650.

From: Geothermal Bulletin, v. 37, no. 5, p. 12.

Washington State University Extension Energy Program

The WSU Energy Program provides technical assistance and policy analysis in support of the developing renewable energy industry in the state of Washington and nationwide.

The WSU Energy Program has world-class expertise in high- and low-temperature geothermal energy. Their experts have prepared a series of case studies on commercial geothermal heat pumps.

Current projects (2009) include the production of geothermal guidebooks for Western states, and a leading role in the development of state-level geothermal action plans. They are prepared to answer questions about cost, technologies, environmental impact and reliability.

Homepage: <http://www.energy.wsu.edu/>

Geothermal page: <http://www.energy.wsu.edu/projects/renewables/geothermal.cfm>

Washington State University Extension Energy Program Library

The Washington State University Extension (WSU/CE) Energy Program Library provides objective and up-to-date information and research support related to energy-efficiency, energy conservation technologies, and renewable resources to:

- WSU/CE Energy Program employees
- WSU faculty, staff, and students
- Energy professionals
- Public and private utilities
- Government agencies
- Citizens of Washington State

From: <http://www.energy.wsu.edu/library/about.cfm>

