NOTE: THIS ONSCREEN VERSION OF THE PLATE IS NOT REPRESENTATIVE OF THE RESOLUTION OF THE MAP PLATE

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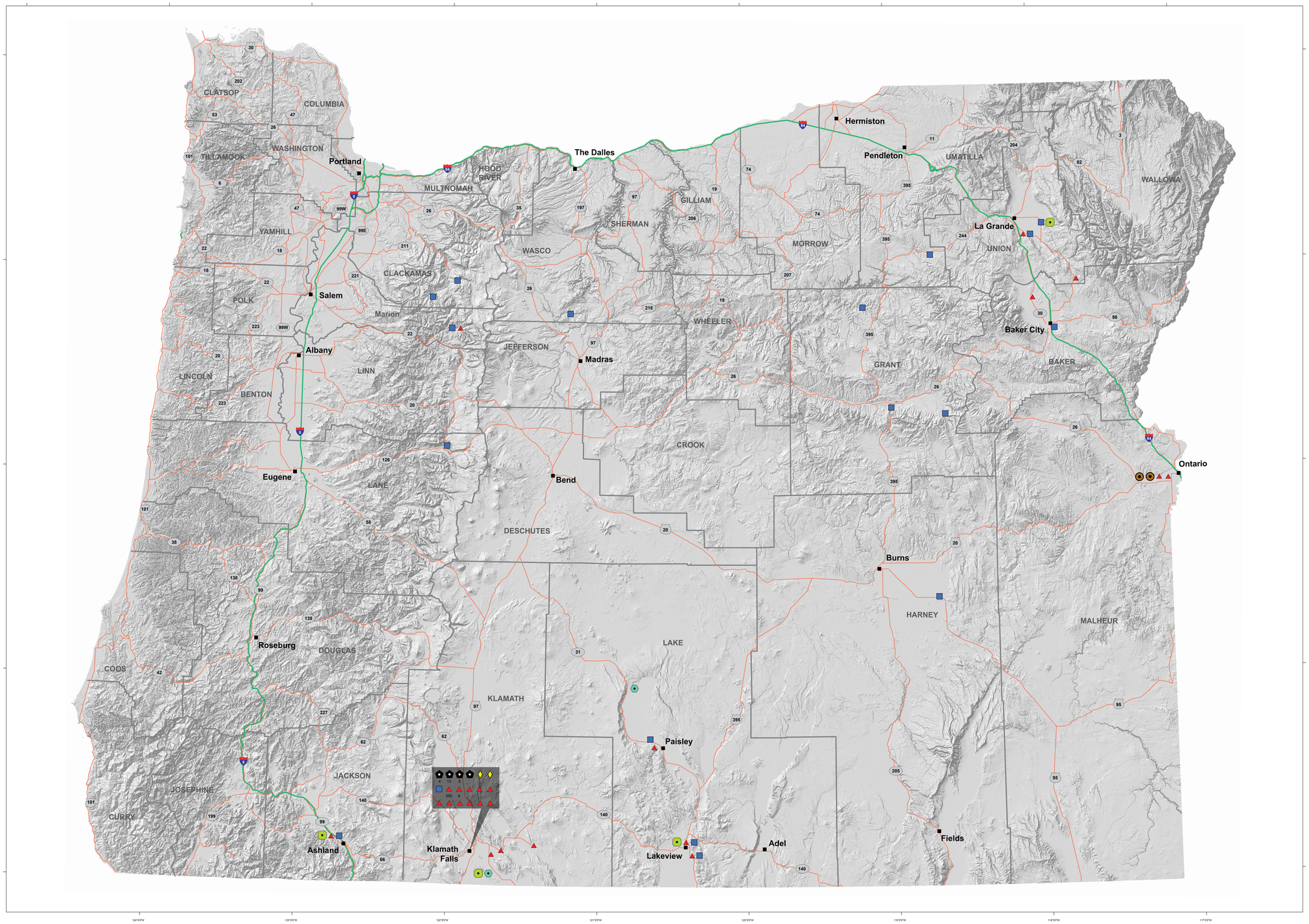
Location Map of Oregon Geothermal Direct-Use Sites (OGDU-1)

2013



DIGITAL DATA SERIES

Oregon Geothermal Direct-Use Sites (OGDU-1)

By Cullen B. Jones and Clark A. Niewendorp

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PLATE 1

NOTICE

This map cannot serve as a substitute for site-specific investigations by qualified practitioners. Site-specific data may give results that differ from those shown on the map. This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

INTRODUCTION

The Oregon Department of Geology and Mineral Industries (DOGAMI) received American Recovery and Reinvestment Act of 2008 funding to compile all DOGAMI geothermal information and make it available to the public and industry. The Oregon Geothermal Direct-Use Sites (OGDU-1) publication is part of that work. OGDU-1 is DOGAMI's geospatial database that currently stores and manages Oregon's geothermal Direct-Use information. Please read the OGDU-1 shapefile metadata.

This map shows the locations of known direct-use geothermal applications of the following type:

- Animal aquaculture: heat used to promote aqueous animal growth; fish farming
- Aquaculture: heat used to promote plant growth; greenhouses
- District heating: multiple direct-use applications applied to a local city/town area
- Industrial uses: heat used to dehydrate agriculture/food for commercial purposes.
- Resort/pool: heat used to heat water for swimming or bathing
- Snow melting: heat used to melt snow from city/town walkways or streets etc.
- Space heating: heat used to regulate indoor living or working spaces.

The shapefile stores 56 points with information regarding the type of direct-use application and its location, flow, capacity, energy use, and contact information. Each symbol on the map represents one direct-use application unless the symbol has a number directly below it. These cases represent multiple applications in one vicinity. An example is the 500 residences using space heating in Klamath Falls, Oregon. More precise and accurate location information, where available, can be found in the direct-use geothermal database.

DATA SOURCES

The attribute data for points depicted on this map were primarily collected from the following sources:

- Black, G., 1994, Low-temperature geothermal data base for Oregon: Oregon Department of Geology and Mineral Industries, Technical Report to Oregon Institute of Technology, Geo-Heat Center, 11 p.
- Chiasson, A., 2011, The economic, environmental, and social benefits of geothermal use in Oregon, Geo-Heat Center Quarterly Bulletin, v. 30, no. 3.

Free access to data used in OGDU-1 can be obtained via DOGAMI's website, http://www.oregongeology.org/sub/gtilo/download_data.htm, and via the National Geothermal Data System at http://geothermaldata.org/. Please contact the Nature of the Northwest Information Center to purchase OGDU-1 on CD-ROM.

Understand that these data are provided "as is" without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of these data for a specific application. In no event will the Oregon Department of Geology and Mineral Industries be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or inability to use the data.

MAP SYMBOLS

Direct-Use Geothermal Application

- Animal aquaculture
- Aquaculture
- District heating
- Industrial use
- Resort/pool
- Snow melting
- Space heating
- Interstate freeway
- U.S. highway
- State highway
- City/town
- County boundary

Projected Coordinate System:
NAD 1983 HARN Oregon Statewide Lambert Feet International
Projection: Lambert Conformal Conic
False Easting: 1312335.95800525
False Northing: 0.00000000
Central Meridian: -120.50000000
Standard Parallel 1: 43.00000000
Standard Parallel 2: 45.50000000
Latitude of Origin: 41.75000000
Linear Unit: Foot

Geographic Coordinate System: GCS North American 1983 HARN
Datum: North American 1983 HARN
Prime Meridian: Greenwich
Angular Unit: Degree

SCALE 1:500,000

10 0 10 20 30 40 MILES

10 0 10 20 30 40 50 KILOMETERS

OGDU-1 compiled by Cullen B. Jones and Clark A. Niewendorp
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Compiled in 2013

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