Communities with Geothermal Resource Development Potential

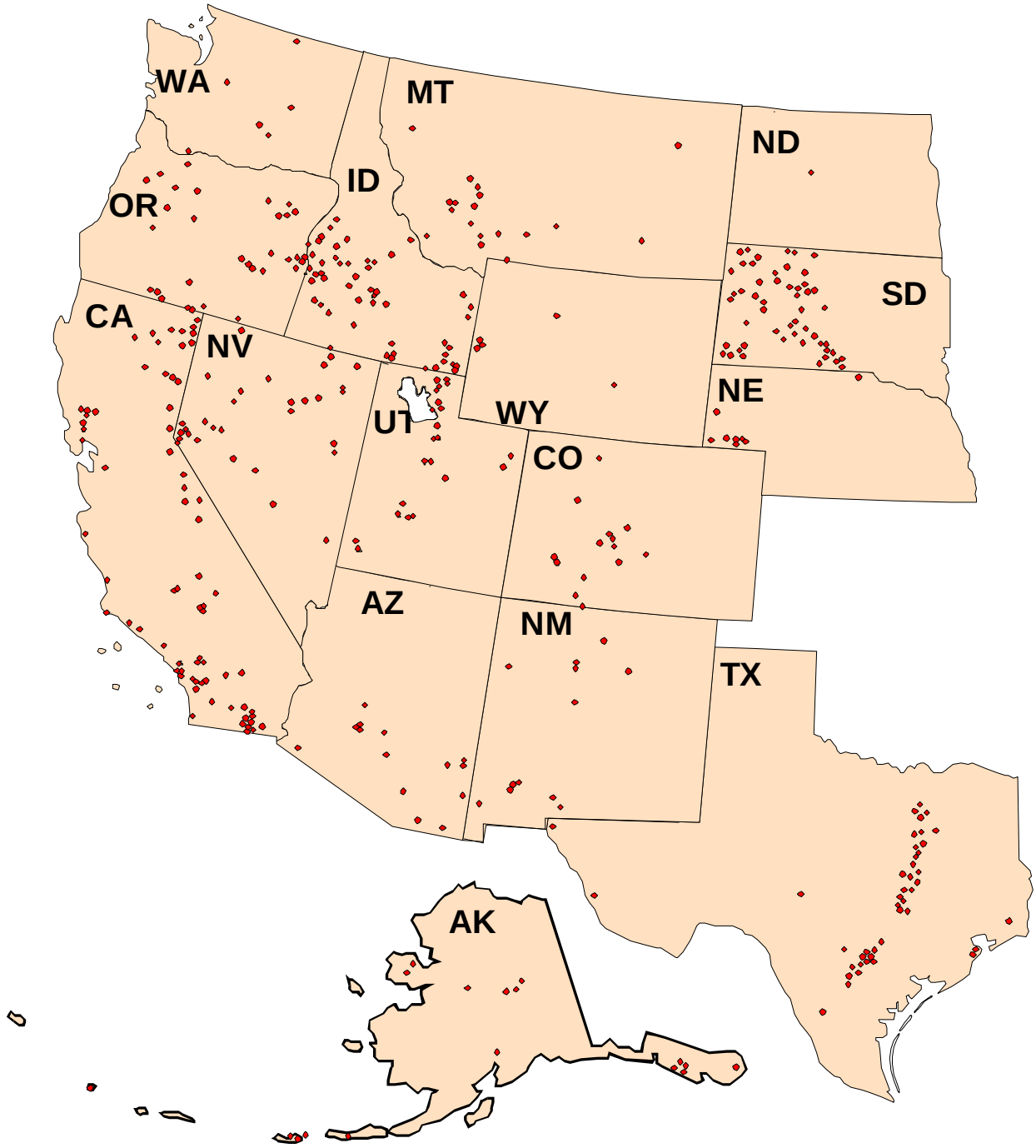

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Table of Contents

Figures

Introduction

A collocated community was defined as a community with wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. There were 404 communities identified in the sixteen western states.

However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas. The temperature criteria used to define the potential for different direct-use application is shown below.

- A temperature of 122°F and above can be used for Resort/Spa Facilities and Greenhouse and Aquaculture operations
- A temperature of 145°F and above can be used for Space and District Heating
- A temperature of 180°F and above can be used for Industrial Applications
- A temperature of 200°F and above can be used for Power Generation

Of the 404 communities identified there are 58 communities that have a potential for electric power generation, 33 additional communities with a potential for industrial applications, and 113 more with a potential for space and district heating and all of the 404 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Alaska Collocated Communities

The Alaska database was compiled from information provided by Shirley Liss and reports from the Alaska Division of Geological and Geophysical Surveys, Fairbanks, AK.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 17 communities identified in Alaska with a temperature at or above 122°F (50°C). The communities are listed below and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are three communities that have a potential for electric power generation, one additional community with a potential for industrial applications, and seven more with a potential for space and district heating and all of the 17 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Adak
Temp 154°F
Depth
Flow listed as 8 gpm
2 wells or springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Akutan
Temp 209°F
Depth
Flow listed as 159 gpm
7 wells or springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Baranof
Temp 124°F
Depth
Flow listed as 79 gpm
2 wells or springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Bell Island Hot Springs
Temp 196°F
Depth
Flow listed as 106 gpm
2 wells or springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Chena Hot Springs
Temp 145°F
Depth
Flow listed as 225 gpm
3 wells or springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Circle Hot Springs
Temp 136°F
Depth
Flow listed as 407 gpm
2 wells or springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Goddard
Temp 151°F
Depth
Flow listed as 26 gpm
1 well or spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Makushin
Temp 207°F
Depth
Flow listed as 90 gpm
8 wells or springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Manley Hot Springs
Temp 140°F
Depth
Flow listed as 375 gpm
4 wells or springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Melozi Springs
Temp 131°F
Depth
Flow not listed
1 well or spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Morzhovoi
Temp 144°F
Depth
Flow listed as 59 gpm
1 well or spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Nancy
Temp 169°F
Depth 2,073 ft
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Portage
Temp 176°F
Depth
Flow listed as 24 gpm
1 well or spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Pilgrim Springs
Temp 205°F
Depth 164 ft
Flow listed as 305 gpm
6 wells or springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Serpentine Hot Springs
Temp 167°F
Depth
Flow listed as 137 gpm
2 wells or springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Sitka
Temp 153°F
Depth
No flow listed
1 well or spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Unalaska
Temp 122°F
Depth 56 ft
Flow listed as 48 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Arizona Collocated Communities

The well and spring information came from the original database compiled for the report "Geothermal Resource Database - Arizona" by James C. Witcher from Southwest Technology Development Institute, Las Cruces, NM. Witcher (1995a) noted that almost all of Arizona wells and springs found in Arizona at elevations below 1,524 m mean-sea level (5,000 feet) exceed 20°C. Accordingly, the new database is restricted to thermal wells and springs exceeding 30°C, except of a few sites at higher elevations. Witcher (1995a) also noted that most thermal well occurrences are located along the trend of lower heat flow, where many irrigation wells tap deep-seated aquifers that are overlain by thermally-insulating, low thermal-conductivity sediments in highly-developed agricultural areas. He notes that in Arizona the thermal fluids are more valued for irrigation of field crops, municipal water supply and industrial uses than for the heat carried by the waters. Recommendations include establishing a strong in-state advocate for direct-use geothermal applications.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 14 communities identified in Arizona with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There is one community with a potential for industrial applications, and four more with a potential for space and district heating and all of the 14 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Cochise County

McNeal

Temp 129°F
Depth 4,209 ft
Flow listed at 100 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

San Simon

Temp 134°F
Depth 6,667 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Sierra Vista

Temp 154°F
Depth
No flow listed
6 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Graham County

Pima / Glenbar

Temp 138°F
Depth 3,766 ft
Flow listed at 1,000 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Greenlee County

Clifton

Temp 160°F
Depth
No flow listed
2 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Guthrie

Temp 183°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Maricopa County

Avondale

Temp 122°F
Depth 1,499 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Litchfield Park

Temp 133°F
Depth 2,320 ft
No flow listed
3 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Mesa

Temp 130°F
Depth 1,001 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Perryville

Temp 167°F
Depth 919 ft
Flow listed as 1,600 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Pima County

Tucson

Temp 126°F
Depth 2,500 ft
Flow listed as 1,860 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Pinal County

Coolidge
Temp 161°F
Depth 2,566 ft
Flow listed as 5,085 gpm
8 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Yauapai County

Morristown
Temp 132°F
Depth
Flow listed as 340 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Yuma County

Wellton/Roll
Temp 140°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

California Collocated Communities

The well and spring information came from the original database compiled for the report "California Low-Temperature Geothermal Resources Update - 1993" by Les Youngs, Department of Conservation, Division of Mines and Geology, Sacramento, CA. Youngs estimates that there may be 58 distinct low-temperature resource areas, and an additional 194 "singular" thermal occurrences. These resources occur in volcanic terranes in northern California, in the Basin and Range Province in the northeastern part of the state, within the Long Valley caldera, and along faults in the sedimentary basins in southern California. Young recommended seven areas for comprehensive resource studies and a technical study for one area.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 70 communities identified in California with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are 26 communities that have a potential for electric power generation, seven additional communities with a potential for industrial applications, and 11 more with a potential for space and district heating and all of the 70 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Alpine County

Markleeville

Temp 149°F
Depth
Flow listed as 230 gpm
2 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Colusa County

Wilbur Springs

Temp 347°F
Depth 8,898 ft
Flow listed as 87 gpm
3 springs and 2 wells
There is one well listed at 347°F with a depth of 8,898 ft. This was an exploration well. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation. The next highest temperature is 156°F. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Contra Costa County

Byron

Temp 124°F
Depth 246 ft
Flow listed as 159 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Imperial County

Bombay Beach

Temp 190°F
Depth 659 ft
Flow listed as 703 gpm
11 wells

With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Brawley

Temp 280°F
Depth 8,350 ft
Flow listed as 132 gpm
5 wells
There is one well listed at 280°F with a depth of 8,350 ft. This could be a power plant well. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation. The next highest temperature is 126°F. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Calexico, Heber and El Centro

Temp 334°F
Depth 5,023 ft
Flow listed as 2,245 gpm
2 wells
These are power plant wells and very deep. No other wells listed in the area. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Calipatria

Temp 680°F
Depth 5,023 ft
Flow listed as 1,823 gpm
7 wells
These are power plant wells and very deep. No other wells listed in the area. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Glamis

Temp 160°F
Depth 679 ft
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Holtville

Temp 399°F
Depth 6,000 ft
Flow listed as 634 gpm
5 wells
Four of these wells are probably exploration wells and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation. The last well has a temp of 181°F with a depth of 1,407 ft. With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Niland

Temp 658°F
Depth 4,396 ft
Flow listed as 4,755 gpm
5 wells
All of these wells are probably exploration wells and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation. The shallowest well is 1,696 ft with a temp of 221°F.

Salton City

Temp 138°F
Depth 1,982 ft
No flow listed
2 wells

With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Westmorland
Temp 133°F
Depth 1,240 ft
Flow listed as 42 gpm
3 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Inyo County
Bishop
Temp 136°F
Depth
Flow 528 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Coso Junction
Temp 207°F
Depth 6,496 ft
Flow 2,008 gpm
3 springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Kern County
Johannesburg and Randsburg
Temp 205°F
Depth 774 ft
No flow listed
1 well
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lake Isabella
Temp 129°F
Depth
Flow listed as 110 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Miracle Hot Springs
Temp 122°F
Depth
Flow listed as 13 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lake County
Clear Lake and Lower Lake
Temp 369°F
Depth 7,824 ft
Flow listed as 113 gpm
2 springs 4 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation. There are 3 wells located in the Lake County Ag Park that has an average temperature of 140°F and a depth of 900 ft. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Kelseyville
Temp 147°F
Depth 591 ft
Flow listed as 502 gpm
3 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Middletown / Cobb
Temp 212°F
Depth
Flow listed as 18 gpm
3 springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lassen County
Bieber
Temp 194°F
Depth
Flow listed as 57 gpm
2 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Litchfield
Temp 175°F
Depth 1,424 ft
Flow listed as 1,045 gpm
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Susanville
Temp 174°F
Depth 928 ft
Flow listed as 1,359 gpm
6 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Wendel
Temperature 225°F
Depth 1,096 ft
Flow listed as 2,184 gpm
2 wells 2 springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Los Angeles County
Los Angeles / Encino
Temp 132°F
Depth
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Modoc County

Alturas
Temp 187°F
Depth 2,939 ft
Flow listed as 80 gpm
2 wells
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Canby
Temp 241°F
Depth 3,396 ft
Flow listed as 330 gpm
2 wells 1 spring
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Cedarville
Temp 208°F
Depth 637 ft
Flow listed as 852 gpm
4 springs 3 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Day
Temp 164°F
Depth
Flow listed as 79 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Eagleville
Temp 133°F
Depth
Flow listed as 132 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Fort Bidwell
Temp 127°F
Depth 78 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lake City
Temp 320°F
Depth 4,948 ft
Flow listed as 362 gpm
1 well 1 spring
The well was an exploration well and is quite deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Likely
Temp 171°F
Depth
Flow listed as 3 gpm
1 spring

With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Mono County

Benton

Temp 135°F
Depth
Flow listed as 211 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Bridgeport

Temp 180°F
Depth 984 ft
Flow listed as 119 gpm
2 springs 1 well
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lee Vining

Temp 187°F
Depth 4,002 ft
Flow listed as 71 gpm
3 wells 2 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Mammoth Lakes

Temp 351°F
Depth 1,598 ft
Flow listed as 4,172 gpm
4 wells 5 springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Monterey County

Tassajara Hot Springs

Temp 140°F
Depth
Flow listed as 50 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Napa County

Calistoga

Temp 280°F
Depth 800 ft
Flow listed as 1,175 gpm
35 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Orange County

Costa Mesa, Huntington Beach and Newport Beach

Temp 218°F
Depth 9,111 ft
No flow listed
1 well
This well is probably an exploration well and very deep With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Yorda Linda
Temp 163°F
Depth
Flow not listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Placer County

Drakesbad
Temp 264°F
Depth 1,270 ft
Flow listed as 237 gpm
9 springs 1 well
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Riverside County

Desert Hot Springs
Temp 199°F
Depth 492 ft
Flow 13 gpm
3 wells
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Hemet and Temecula
Temp 129°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lake Elsinore, Widomar and Winchester
Temp 129°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

San Bernardino County

Colton
Temp 136°F
Depth 850 ft
No flow listed
3 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Highland
Temp 129°F
Depth 932 ft
Flow listed as 4,993 gpm
4 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Red Mountain
Temp 205°F
Depth 774 ft
No flow listed

1 well
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

San Bernardino
Temp 138°F
Depth 548 ft
Flow listed as 160 gpm
6 springs 3 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Trona
Temp 136°F
Depth 600 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Twentynine Palms
Temp 145°F
Depth 400 ft
No flow listed
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

San Diego County
San Diego
Temp 163°F
Depth 6,085 ft
No flow listed
2 wells
These are oil wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Warner Springs
Temp 133°F
Depth
Flow listed as 132 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

San Luis Obispo County
San Luis Obispo
Temp 131°F
Depth 1,998 ft
Flow listed as 50 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Santa Barbara County
Gaviota
Temp 154°F
Depth
No flow listed
1 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Montecito
Temp 133°F
Depth
Flow listed as 201 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Shasta County
Big Bend
Temp 180°F
Depth 820 ft
Flow listed as 127 gpm
2 springs 1 well
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Sierra County
Loyalton
Temp 201°F
Depth 1,099 ft
Flow listed as 40 gpm
4 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Sonoma County
Boyes Hot springs / Sonoma
Temp 128°F
Depth 1,299 ft
Flow listed as 200 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Ventura County
Ojai / Meiners Oaks
Temp 124°F
Depth
Flow listed as 57 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Colorado Collocated Communities

The well and spring information came from the original database compiled for the report "1992-1993 Low-Temperature Geothermal Assessment Program, Colorado" Open File Report 95-1 by James A. Cappa and H. Thomas Hemborg, Colorado Geological Survey, Denver, CO. Cappa and Hemborg (1995) identified 93 geothermal areas, each generally less than 8 km^2 in size. The great majority of the geothermal areas occur west of the Front Range within the Rocky Mountain Province. Recommended R&D activities include the compilation of oil and water-well data, geological and geophysical studies, thermal gradient drilling, water sampling and fluid geochemistry for six areas.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 15 communities identified in Colorado with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There is one community with a potential for industrial applications, and 5 more with a potential for space and district heating and all of the 15 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Archuleta County

Chromo

Temp 140°F
Depth 1,709 ft
Flow listed as 93 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Pagosa Springs

Temp 135°F
Depth 499 ft
Flow listed as 370 gpm
2 wells 1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Chaffee County

Buena Vista

Temp 129°F
Depth
Flow listed as 450 gpm
3 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Mt Princeton Hot springs / Nathrop

Temp 181°F
Depth 180 ft
Flow listed as 40 gpm
3 wells 4 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Poncha Springs

Temp 158°F
Depth
Flow listed as 228 gpm
5 springs

With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Fremont County

Florence / Portland
Temp 131°F
Depth
Flow 87 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Garfield County

Glenwood Springs
Temp 124°F
Depth
Flow listed as 1,625 gpm
5 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Gunnison County

Waunita Hot Springs / White Pine
Temp 158°F
Depth
Flow 196 gpm
4 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Mineral County

Wagon Wheel Gap / Creede
Temp 131°F
Depth
Flow listed as 32 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Ouray County

Ouray
Temp 153°F
Depth
Flow listed as 77 gpm
3 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Ridgeway
Temp 122°F
Depth
Flow listed as 396 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Park County

Hartsel
Temp 126°F
Depth
Flow listed as 54 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Routt County

Steamboat Springs / Mad Creek

Temp 147^{o}F
Depth
Flow listed as 75 gpm
4 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Saguache County

Mineral Hot Springs / Villa Grove

Temp 140^{o}F
Depth
Flow listed as 113 gpm
1 well 3 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Idaho Collocated Communities

The well and spring information came from the original database compiled for the report "Overview of Geothermal Investigations in Idaho, 1989 to 1993" by William J. Dansart, John D. Kauffman and Leland L. Mink, University of Idaho, Moscow, ID. Geothermal resource areas occur throughout the state, except the northernmost panhandle. The geologic setting of the hydrothermal occurrences varies greatly, including fault and fracture-controlled resources of the Idaho batholith, fault-controlled reservoirs of the northern Basin and Range Province, the Island Park-Yellowstone caldera complex, and the extensive volcanic reservoirs of the Snake River Plain. Dansart, et al. recommended site-specific studies for nine geothermal resource areas, conceptual and numerical models (2 areas), geologic, geophysical, drilling and feasibility studies (7 areas).

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 51 communities identified in Idaho with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are three communities that have a potential for electric power generation, three additional communities with a potential for industrial applications, and 22 more with a potential for space and district heating and all of the 51 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Ada County

Boise

Temp 174°F
Depth 1,283 ft
No flow listed
18 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Eagle

Temp 142°F
Depth 341 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Star

Temp 346°F
Depth 14,010 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Adams County

New Meadows

Temp 160°F
Depth
No flow listed
3 wells 4 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Starkey / Fruitvale
Temp 131°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Bear Lake County

Dingle
Temp 133°F
Depth 39 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lanark / Ovid
Temp124°F
Depth 95 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Wardboro / Montpelier
Temp 165°F
Depth 11,483 ft
No flow listed
1 well
This could have been an exploration well and it is very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Blaine County

Carey
Temp 126°F
Depth
Flow not listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Gimlet / Hailey
Temp 122°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Hailey
Temp 163°F
Depth
No flow listed
2 wells 1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Ketchum
Temp 159°F
Depth
Flow listed as 0.5 gpm
3 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Magic City
Temp 166°F
Depth
Flow not listed
1 well 1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Boise County

Crouch
Temp 183°F
Depth 190 ft
No flow listed
24 wells 1 spring
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Garden Valley
Temp 178°F
Depth
No flow listed
7 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lowman
Temp 149°F
Depth
No flow listed
4 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Bonneville County

Swan Valley
Temp 284°F
Depth 16,177 ft
No flow listed
2 wells
Both of these wells were probably exploration wells and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Camas County

Corral
Temp 163°F
Depth 59 ft
No flow listed
1 well 6 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Canyon County

Bowmont
Temp 124°F
Depth 318 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Caldwell
Temp 152°F
Depth 2,132 ft
No flow listed
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Caribou County

Bancroft
Temp 129°F
Depth 208 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Soda Springs
Temp 124°F
Depth 62 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Thatcher
Temp 122°F
Depth 66 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Cassia County

Albion
Temp 140°F
Depth 446 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Almo
Temp 140°F
Depth
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Bridge
Temp 294°F
Depth 4,987 ft
Flow listed as 143 gpm
8 wells
Looks like several exploration wells. The only other well with a depth and temperature has a temp of 198oF and a depth of 414 ft. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Malta / Keogh
Temp 171°F
Depth
No flow listed
2 wells

With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Custer County

Challis
Temp 122°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Obsidian
Temp 122°F
Depth
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Stanley
Temp 136°F
Depth
No flow listed
3 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Sunbeam
Temp 170°F
Depth
No flow listed
4 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Elmore County

Atlanta
Temp 140°F
Depth
No flow listed
3 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Pine
Temp 140°F
Depth
No flow listed
4 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Franklin County

Cleveland / Perry
Temp 131°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Preston
Temp 180°F
Depth
No flow listed

1 well 2 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Fremont County

Newdale
Temp 189°F
Depth
No flow listed
3 wells
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Gem County

Sweet
Temp 151°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lemhi County

Tendoy
Temp 146°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Onieda County

Woodruff
Temp 145°F
Depth
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Owyhee County

Bruneau
Temp 122°F
Depth
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Grand View
Temp 183°F
Depth 2,520 ft
No flow listed
13 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Murphy Hot Springs
Temp 126°F
Depth
No flow listed

1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Oreana
Temp 167°F
Depth 2,835 ft
No flow listed
3 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Payette County

Payette
Temp 135°F
Depth 2,775 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Teton County

Bates
Temp 158°F
Depth 6,572 ft
No flow listed
1 well
The well looks like this was an exploration well. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Twin Falls County

Buhl
Temp 162°F
Depth 591 ft
No flow listed
18 wells 4 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Valley County

Alpha
Temp 145°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Warm Lake / Knox
Temp 138°F
Depth
No flow listed
4 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Washington County

Cambridge
Temp 158°F
Depth
No flow listed
2 springs

With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Midvale

Temp 124^{o}F
Depth
Flow listed as 206 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Weiser

Temp 171^{o}F
Depth 312 ft
No flow listed
8 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Montana Collocated Resources

The well and spring information came from the original database compiled for the report "Geothermal Resources of Montana" by John Metesh of the Montana Bureau of Mines and Geology, Butte, MT. Thermal wells and springs occur throughout all areas of Montana but mainly in the western third of the state (the Northern Rocky Mountains). Metesh identified five geothermal resources collocated with communities and recommended them as priority study areas needing geophysical exploration and deep drilling (1 area), detailed temperature, fluid chemistry and a feasibility study (1 area), deep drilling and a feasibility study (1 area), and resource studies (2 areas).

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 18 communities identified in Montana with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are two communities that have a potential for electric power generation, one additional community with a potential for industrial applications, and six more with a potential for space and district heating and all of the 18 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Beaverhead County

Jackson

Temp 140°F
Depth
Flow listed as 264 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Deer Lodge County

Raderburg

Temp 171°F
Depth
Flow listed as 159 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Warm Springs / Anaconda

Temp 174°F
Depth
Flow listed as 19 gpm
2 wells 1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Gallatin County

Bozeman

Temp 138°F
Depth 541 ft
Flow listed as 342 gpm
3 wells 2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Jefferson County

Alhambra

Temp 134°F
Depth
Flow listed as 129 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Boulder

Temp 165°F
Depth 125 ft
Flow listed as 110 gpm
3 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Whitehall

Temp 122°F
Depth
Flow listed as 40 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lewis and Clark County

Helena

Temp 150°F
Depth
Flow listed as 60 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Marysville

Temp 206°F
Depth 6,791 ft
No flow listed
1 well
This could be an exploration well. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Madison County

Ennis

Temp 189°F
Depth 1,220 ft
Flow listed as 8 gpm
2 wells 1 spring
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Norris

Temp 122°F
Depth
Flow listed as 112 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Park County

Corwin Springs

Temp 149°F
Depth

Flow listed as 132 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Springdale
Temp 140°F
Depth
Flow listed as 1321 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Roosevelt County
Wolf Point
Temp 124°F
Depth 105 ft
Flow listed as 26 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Rosebud County
Colstrip
Temp 205°F
Depth 1,221 ft
Flow listed as 5 gpm
1 well
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Sanders County
Hot Springs
Temp 125°F
Depth
Flow listed as 456 gpm
3 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Silver Bow County
Crackerville / Anaconda
Temp 143°F
Depth
Flow listed as 250 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Stillwater County
Rapelje
Temp 156°F
Depth
Flow listed as 291 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Nebraska Collocated Resources

The wells and springs database was compiled from the following publications: "An Inventory of Geothermal Resources in Nebraska - Final Report" by Willaim Gosnold and Duane A. Eversoll, June 30, 1983, Under Contract No. AS07-79ET27205, the University of Nebraska, Lincoln, Nebraska and "Geothermal Resources of Nebraska, 1982". NOAA map, scale 1:500,000.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are nine communities identified in Nebraska with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are four communities that have a potential for industrial applications, and four more with a potential for space and district heating and all of the nine communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Cheyenne County

Brownson, Huntsman, Ordiville, and Sidney

Temp 185°F
Depth 4,954 ft
No flow listed
2 wells
These were probably exploration wells. With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lodgepole

Temp 158°F
Depth 3,763 ft
No flow listed
1 well
This was probably an exploration well. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Potter

Temp 158°F
Depth 5,840 ft
No flow listed
2 wells
These were probably exploration wells. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Keya Paha County

Burton

Temp 126°F
Depth 1,772 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Kimball County

Kimball

Temp 158°F
Depth

No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Scottsbluff County

Gering

Temp 176^{o}F
Depth
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Nevada Collocated Resources

The well and spring information came from the original database compiled for the report "Nevada Low Temperature Geothermal Resource Assessment: 1994" by Larry J. Garside, Nevada Bureau of Mines and Geology, University of Nevada, Reno. Essentially all of Nevada lies within the Basin and Range Province, an area of crustal extension which has remained geologically active since the mid-Miocene. In east-central and southern Nevada, the low- to moderate-temperature resources may be related to regional groundwater circulation in fractured carbonate-rock aquifers. Recommended studies to expedite geothermal utilization include data compilation, geological and geophysical surveys, water chemistry, and feasibility studies.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 30 communities identified in Nevada with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are six communities that have a potential for electric power generation, five additional communities with a potential for industrial applications, and 10 more with a potential for space and district heating and all of the 30 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Carson City County

Carson City
Temp 122°F
Depth
Flow listed as 75 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Stewart
Temp 122°F
Depth
Flow listed as 350 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Churchhill County

Fallon
Temp 201°F
Depth 187 ft
No flow listed
1 well
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Stillwater
Temp 205°F
Depth 66 ft
No flow listed
2 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Douglas County

Minden / Genoa
Temp 145°F

Depth
Flow listed as 35 gpm
2 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Elko County

Carlin
Temp 174°F
Depth
Flow listed as 300 gpm
2 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Cobre / Oasis
Temp 170°F
Depth 4,603 ft
No flow listed
1 well
This is probably an exploration well. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Contact
Temp 140°F
Depth
Flow listed as 5 gpm
1 well 2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Elko
Temp 176°F
Depth 853 ft
Flow listed as 20 gpm
1 well 1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Rowland
Temp 171°F
Depth
Flow listed as 30 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Wells
Temp 142°F
Depth
Flow listed as 10 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Wild Horse
Temp 129°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Eureka County

Beowawe

Temp 208°F
Depth
Flow listed as 103 gpm
3 springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Crescent Valley

Temp 140°F
Depth
Flow listed as 33 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Humboldt County

Denio

Temp 181°F
Depth
Flow listed as 1,000 gpm
2 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Golconda

Temp 165°F
Depth 259 ft
Flow listed as 198 gpm
1 well 1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lincoln County

Caliente

Temp 153°F
Depth 89 ft
Flow listed as 1,400 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lyon County

Hazen

Temp 187°F
Depth
No flow listed
2 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Wabuska

Temp 207°F
Depth 489 ft
Flow listed as 1,514 gpm
1 well 1 spring
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Nye County

Carvers

Temp 195°F
Depth 801 ft
Flow listed as 1,145 gpm
1 well 1 spring
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Gabbs

Temp 129°F
Depth 276 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Warm Springs

Temp 145°F
Depth
Flow listed as 45 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Pershing County

Humboldt

Temp 324°F
Depth 1,854 ft
No flow listed
2 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lovelock / Colado

Temp 140°F
Depth
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Story County

Virginia City

Temp 170°F
Depth 2,999 ft
No flow listed
1 well
This could be an exploration well. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Washoe County

Gerlach

Temp 193°F
Depth
Flow listed as 130 gpm
3 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Reno
Temp 190°F
Depth 328 ft
No flow listed
107 wells
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Steamboat
Temp 235°F
Depth 371 ft
Flow listed as 13 gpm
1 well 1 spring
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

White Pine County
Cherry Creek
Temp 142°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Warm Springs
Temp 174°F
Depth
Flow listed as 625 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

New Mexico Collocated Communities

The well and spring information came from the original database compiled for the report "A Geothermal Resource Data Base New Mexico" by James C. Witcher, Southwest Technology Development Institute, Las Cruces, NM. Almost all of the thermal occurrences are located in the western half of the state, within the Colorado Plateau, Basin and Range, and Rocky Mountains physiographic provinces. Witcher has identified eight resource areas with near-term utilization potential which need site-specific geologic, drilling, reservoir testing, and feasibility studies.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 12 communities identified in New Mexico with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There is one community that has a potential for electric power generation, four have a potential for space and district heating and all of the 12 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Dona Ana County

Las Cruces

Temp 157°F
Depth 2,572 ft
Flow listed as 3 gpm
9 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Radium Springs

Temp 170°F
Depth 121 ft
No flow listed
8 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Grant County

Faywood

Temp 127°F
Depth
Flow listed as 3 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Hurley

Temp 144°F
Depth 522 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

San Juan / Sherman

Temp 138°F
Depth
Flow listed as 3 gpm
8 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Hidalgo County

Cotton City
Temp 225°F
Depth 440 ft
Flow listed as 200 gpm
13 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

McKinley County

Fort Wingate
Temp 131°F
Depth 1,942 ft
Flow listed as 23 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Rio Arriba County

Ojo Caliente / Gallegos
Temp 132°F
Depth 89 ft
No flow listed
1 well 1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

San Miguel County

Las Vegas
Temp 131°F
Depth
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Sandoval County

Jemez Pueblo / San Ysidro
Temp 136°F
Depth 240 ft
Flow listed as 150 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Jemez Springs
Temp 164°F
Depth
Flow listed as 52 gpm
5 springs 1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Valencia County

Valencia
Temp 176°F
Depth 722 ft
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

North Dakota Collocated Community

The wells and springs database was compiled from information from the Well Inventory Retrieval System from the North Dakota State Water Commission Website <www.swc.state.nd.us>. The files included Site Inventory, Water Chemistry, Water Levels, and Lithology.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There is 1 community identified in North Dakota with a temperature at or above 122°F (50°C). The community is listed below by county and the information included for that community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

This community has a potential for resort/spa facilities and greenhouse and aquaculture applications.

McLean County

Turtle Lake
Temp 129°F
Depth
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Oregon Collocated Communities

A 1994 Oregon Department of Geology and Mineral Industries (DOGAMI) report entitled "Low-Temperature Geothermal Database for Oregon" by G. Black compiled a database of thermal wells and springs. These thermal wells and springs may represent more than 200 resources areas. The study concluded that the entire state east of the Cascade Range, except for the crest of the Wallowa Mountains, was favorable for the discovery at shallow depth (<3000 ft (<1000 m)) for thermal water sufficient temperature for direct-use applications.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 32 communities identified in Oregon with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are nine communities that have a potential for electric power generation, six additional communities with a potential for industrial applications, and seven more with a potential for space and district heating and all of the 32 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Baker County

Haines

Temp 134°F
Depth 125 ft
Flow listed as 304 gpm
2 wells 1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Sumpter / Bourne

Temp 134°F
Depth 345 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Clackamas County

Government Camp

Temp 250°F
Depth 4,678 ft
Flow listed as 110 gpm
3 wells
These are probably exploration wells. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Crooke County

Powell Butte

Temp 135°F
Depth 1,512 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Harney County

Burns

Temp 160°F
Depth 2,283 ft

No flow listed
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Crane
Temp 180°F
Depth 164 ft
Flow listed as 185 gpm
2 well 1 spring
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Fields
Temp 206°F
Depth
Flow listed as 5 gpm
3 springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Harney
Temp 161°F
Depth 941 ft
Flow listed as 264 ft
2 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lawen
Temp 136°F
Depth 1,834 ft
Flow listed as 9 gpm
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Klamath County

Bonanza
Temp 201°F
Depth 230 ft
No flow listed
2 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lorella
Temp 142°F
Depth
Flow listed as 40 gpm
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Klamath Falls
Temp 221°F
Depth 656 ft
Flow listed as 2,213 gpm
Over 550 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lake County

Adel
Temp 250°F
Depth 643 ft
Flow listed as 16 gpm
3 wells 1 spring
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lakeview
Temp 235°F
Depth 607 ft
Flow listed as 1,727 gpm
32 wells 4 springs
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

New Pine Creek
Temp 192°F
Depth 560 ft
Flow listed as 3,963 gpm
4 wells
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Paisley / Summer Lake
Temp 231°F
Depth 689 ft
Flow listed as 20 gpm
5 wells 1 spring
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Lane County

McCredie Springs
Temp 163°F
Depth
Flow listed as 20 gpm
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

McKenzie Bridge
Temp 192°F
Depth 426 ft
Flow listed as 104 gpm
2 wells 3 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Linn County

Jefferson
Temp 136°F
Depth 4,915 ft
No flow listed
1 well
This was probably an exploration well. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Malheur County

Adrain
Temp 174°F
Depth 1,345 ft
Flow listed as 16 gpm
4 wells 3 springs
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Beulah
Temp 140°F
Depth
Flow listed as 13 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Harper / Little Valley
Temp 158°F
Depth 410 ft
Flow listed as 145 gpm
2 wells 1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Nyssa
Temp 183°F
Depth 1,568 ft
No flow listed
1 well
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Ontario
Temp 334°F
Depth 10,052 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Riverside
Temp 145°F
Depth
Flow listed as 59 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Vale
Temp 239°F
Depth 266 ft
Flow listed as 770 gpm
32 wells 1 spring
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Marion County

Breitenbush Hot Spring / Idanha
Temp 192°F
Depth 1,017 ft

Flow listed as 900 gpm
6 wells 1 spring
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Silverton / Scott Mills
Temp 162°F
Depth 7,805 ft
No flow listed
1 well
This is probably an exploration well. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Umatilla County
Lehman Springs
Temp 142°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Union County
Pondosa / Medical Springs
Temp 142°F
Depth
Flow listed as 53 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Union / Cove
Temp 185°F
Depth
Flow listed as 1,626 gpm
2 wells 2 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Wasco County
Kehneeta
Temp 133°F
Depth
No flow listed
3 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

South Dakota Collocated Communities

The well and Spring database was compiled from the references - South Dakota Database (Report of Investigations No. 110- Geothermal Potentials in South Dakota) by Robert A. Schoon and Duncan J. McGregor South Dakota Geological Survey - Department of Natural Resouce Development, Vermillion, South Dakota – 1974 and NOAA webpage - http://www.ngdc.noaa.gov/cgi-bin/seg/globsys/springret? springs.men+MAIN_- MENU+South

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 58 communities identified in South Dakota with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are two communities that have a potential for electric power generation, two additional communities with a potential for industrial applications, and 16 more with a potential for space and district heating and all of the 58 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Butte County

Newell and Nisland

Temp 138°F
Depth 5,759 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Corson County

Athboy and Morristown

Temp 149°F
Depth 6,642 ft
No flow listed
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Custer

Temp 150°F
Depth 7,134 ft
No flow listed
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

McIntosh

Temp 161°F
Depth 7,470 ft
No flow listed
1 well
This well is probably and exploration well and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Sherman

Temp 130°F
Depth 5,820 ft

No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Dewey County

Bear Creek
Temp 156°F
Depth 5,373 ft
No flow listed
8 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Eagle Butte and North Eagle Butte
Temp 128°F
Depth 4,322 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lantry
Temp 150°F
Depth 5,140 ft
No flow listed
4 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Fall River County

Cottonwood and Provo
Temp 138°F
Depth 3,846 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Edgemont
Temp 138°F
Depth 3,249 ft
No flow listed
6 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Limestone
Temp 130°F
Depth 4,110 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Oelrich
Temp 124°F
Depth 4,065 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Smithwick
Temp 124°F

Depth 3,704 ft
No flow listed
3 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Haakon County

Cherry Creek
Temp 125°F
Depth 3,542 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Elbon
Temp 147°F
Depth 5,040 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Grindstone
Temp 135°F
Depth 5,485 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lucerne
Temp 122°F
Depth 4,500 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Midland
Temp 136°F
Depth 2,800 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Ottumwa
Temp 142°F
Depth 4,260 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Harding County

Buffalo
Temp 129°F
Depth 4,843 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Gustave
Temp 127°F

Depth 3,863 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Karienen
Temp 211°F
Depth 9,293 ft
No flow listed
3 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Ladner
Temp 196°F
Depth 7,471 ft
No flow listed
6 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Ralph
Temp 139°F
Depth 5,352 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Reva
Temp 195°F
Depth 8,817 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Sky Ranch
Temp 169°F
Depth 7,896 ft
No flow listed
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Jackson County

Indian Creek
Temp 138°F
Depth 3,882 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Kodoka
Temp 130°F
Depth 3,145 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Philip Junction
Temp 146°F
Depth 4,780 ft
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Jones County

Murdo
Temp 140°F
Depth 2,280 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Okaton
Temp 137°F
Depth 3,728 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Westover
Temp 142°F
Depth 2,944 ft
No flow listed
4 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lawrence County

Spearfish
Temp 122°F
Depth 6,800 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Meade County

Enning
Temp 149°F
Depth 6,542 ft
No flow listed
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Fairpoint
Temp 127°F
Depth 4,686 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Red Owl
Temp 168°F
Depth 6,250 ft
No flow listed
1 well

This well is probably an exploration well and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Mellette County

Badnation

Temp 130°F
Depth 2,170 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

White River

Temp 149°F
Depth 2,600 ft
No flow listed
3 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Zickrick

Temp 122°F
Depth 1,700 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Pennington County

Caputa

Temp 122°F
Depth 2,809 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Conata

Temp 158°F
Depth 3,751 ft
No flow listed
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Perkins County

Cedar Canyon / Imogene

Temp 142°F
Depth 5,330 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Chance

Temp 185°F
Depth 8,318 ft
No flow listed
1 well
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Usta
Temp 159°F
Depth 6,618 ft
No flow listed
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Stanley County

Bunker
Temp 132°F
Depth 4,012 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Mission Ridger
Temp 122°F
Depth 4,000 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Todd County

Rosebud
Temp 154°F
Depth 2,500 ft
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Tripp County

Carter
Temp 130°F
Depth 2,865 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Ideal
Temp 127°F
Depth 1,365 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Keyapaha
Temp 128°F
Depth 3,010 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Ziebach County

Chase
Temp 144°F
Depth 5,320 ft
No flow listed
1 well

This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Red Elm

Temp 152°F
Depth 5,945 ft
No flow listed
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Texas Collocated Communities

The well and spring database was compiled from the following references listed - Integration of Geothermal Data along the Balcones/Ouachita Trend, Central Texas, 1983, Woodruff, Gever, Snyder, and Wuerch and Geothermal Resources of Texas, 1982. NOAA map

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 43 communities identified in Texas with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are two communities that have a potential for electric power generation, 11 additional communities with a potential for space and district heating and all of the 43 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Atascosa County

Campbellton

Temp 147°F
Depth 4,133 ft
Flow listed as 290 gpm
3 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Fashing

Temp 155°F
Depth 4,334 ft
No flow listed
4 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Bell County

Rogers

Temp 127°F
Depth 3,584 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Bexar County

Somerset

Temp 132°F
Depth 4,518 ft
Flow listed as 250 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Brazoria County

Liverpool and Peterson Landing

Temp 301°F
Depth 16,500 ft
No flow listed

1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Burleson County

Birch Creek
Temp 132°F
Depth 3,839 ft
Flow listed as 100 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Concho County

Eden
Temp 130°F
Depth 4,095 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Dallas County

Balch Springs and Mesquite
Temp 135°F
Depth 4,084 ft
Flow listed as 139 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Dallas and Garland
Temp 124°F
Depth 3,689 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

El Paso County

Ft Bliss Military Base
Temp 136°F
Depth 450 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Fall County

Lott
Temp 135°F
Depth 3,305 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Marlin
Temp 156°F
Depth 3,531 ft
No flow listed
3 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

McClanahan
Temp 148°F
Depth 3,708 ft
No flow listed
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Otto
Temp 142°F
Depth 3,840 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Perry
Temp 142°F
Depth 3,708 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Rosebud and Zipperlandville
Temp 153°F
Depth 3,692 ft
Flow listed as 825 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Gonzales County
Smiley
Temp 130°F
Depth 2,967 ft
Flow listed as 351 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Hardin County
Batson
Temp 125°F
Depth
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Hill County
Brandon and Mortens
Temp 135°F
Depth 2,652 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Hubbard
Temp 134°F
Depth 3,555 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Karnes County

Deweesville
Temp 140°F
Depth 3,807 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Falls City
Temp 148°F
Depth 3,564 ft
Flow listed as 925 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Gillet
Temp 124°F
Depth 2,650 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Pawelekville
Temp 138°F
Depth 4,711 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Coy City
Temp 177°F
Depth 6,003 ft
No flow listed
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Karnes City
Temp 162°F
Depth 3,750 ft
No flow listed
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Live Oak County

Esseville
Temp 150°F
Depth 4,842 ft
Flow listed as 200 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

McLennan County

Axtell
Temp 131°F
Depth 3,082 ft

No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Elk
Temp 130°F
Depth 2,993 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Riesel
Temp 145°F
Depth 3,323 ft
No flow listed
2 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

McMullen County
Cross
Temp 124°F
Depth 3,998 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Tilden
Temp 149°F
Depth 4,588 ft
Flow listed as 1850 gpm
4 wells
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Milam County
Buckholts
Temp 129°F
Depth 3,448 ft
Flow listed as 274 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Thorndale and Demold
Temp 126°F
Depth 2,231 ft
Flow listed as 20 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Navarro County
Corsiana
Temp 138°F
Depth 2,983 ft
No flow listed
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Presidio County

Cleveland Breaks
Temp 124°F
Depth 138 ft
Flow listed as 12 gpm
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Webb County

Olton
Temp 122°F
Depth 2,200 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Utah Collocated Communities

The well and spring information came from the original database compiled for the report "Low-Temperature Geothermal Water in Utah: A Compilation of Data for Thermal Wells and Springs Through 1993" - Open File Report 311, Utah Geological Survey by Robert E. Blackett. Utah comprises parts of three major physiographic provinces, the Colorado Plateaus, the Middle Rocky Mountains and the Basin and Range. Hydrothermal resources with temperatures greater than 50°C occur in each province, and in the Transition Zone between the Basin and Range and Colorado Plateaus in central Utah.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 23 communities identified in Utah with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are four communities that have a potential for electric power generation, two additional communities with a potential for industrial applications, and four more with a potential for space and district heating and all of the 23 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Box Elder County

Bear River City

Temp 225°F
Depth 11,004 ft
Flow listed as 6 gpm
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Corinne

Temp 165°F
Depth 502 ft
Flow listed as 40 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Honeyville

Temp 131°F
Depth
Flow listed as 951 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Plymouth

Temp 126°F
Depth
Flow listed as 1,598 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Cache County

Logan

Temp 131°F
Depth 180 ft
Flow listed as 19 gpm

1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Newton / Trenton
Temp 124°F
Depth 5,207 ft
Flow listed as 75 gpm
2 wells
These wells are probably exploration wells and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Davis County
Clinton
Temp 138°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Iron County
Beryl
Temp 300°F
Depth 12,297 ft
Flow listed as 1,000 gpm
2 wells
One of these wells is probably an exploration well. With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Newcastle
Temp 207°F
Depth 499 ft
Flow listed as 1,506 gpm
3 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Juab County
Eureka
Temp 130°F
Depth
Flow listed as 2,695 gpm
1 mine
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Millard County
Cove Fort / Sulphurdale
Temp 352°F
Depth 3,921 ft
No flow listed
3 wells
With this temperature there is a possibility of a power production, industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Meadow / Hatton
Temp 153°F
Depth 89 ft
Flow listed as 4 gpm
1 spring 1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Salt Lake County

Bluffdale

Temp 185°F
Depth 738 ft
Flow listed as 1,100 gpm
6 wells
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Riverton / Alpine

Temp 174°F
Depth 410 ft
Flow listed as 150 gpm
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Salt Lake City / Sandy

Temp 131°F
Depth
Flow listed as 230 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

San Pete County

Fairview

Temp 131°F
Depth 9,107 ft
Flow listed as 293 gpm
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Sevier County

Joseph

Temp 145°F
Depth
Flow listed as 32 gpm
1 spring
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Monroe / Austin

Temp 180°F
Depth
Flow listed as 300 gpm
2 springs
With this temperature there is a possibility of an industrial application, space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Uintah County

Jensen

Temp 132°F
Depth 4,130 ft
Flow listed as 4 gpm
2 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Ouray
Temp 135°F
Depth 5,614 ft
No flow listed
1 well
This well is probably an exploration well and very deep. With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Utah County
Goshen
Temp 142°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Weber County
North Ogden
Temp 137°F
Depth
Flow listed as 32 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Ogden
Temp 134°F
Depth
Flow listed as 5 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Washington Collocated Communities

The well and spring information came from the original database compiled for the report "Low-Temperature Geothermal Resources of Washington" by J. Eric Schuster and R. Gordon Bloomquist, Washington Division of Geology and Earth Resources, Olympia, WA. Most of the thermal springs occur in the Cascade Range, associated with stratovolcanoes. In contrast 97% of the thermal wells are located in the Columbia Basin of southeastern Washington. These thermal wells are strongly associated with the Columbia River Basalt Group and the Columbia Basin.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 6 communities identified in Washington with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

There are two communities that have a potential for space and district heating and all of the 6 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Benton County

Hanford Works
Temp 140°F
Depth 4,344 ft
No flow listed
1 well
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Grant County

Mattawa
Temp 164°F
Depth 5,003 ft
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

King County

Hyak
Temp 122°F
Depth
Flow listed as 92 gpm
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lincoln County

Irby
Temp 150°F
Depth 4,406 ft
No flow listed
1 well
With this temperature there is a possibility of space or district heating, resort/spa facility, greenhouse and aquaculture operation.

Okanogan County

Oroville
Temp 122°F

Depth
No flow listed
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Skamania County

Home Valley

Temp 122°F
Depth
No flow listed
1 spring
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Wyoming Collocated Communities

The well and spring was compiled from the original GEOTHERM database which was sent to our office by Henry Heasler, University of Wyoming, Special Data and Visualization Center, Laramie, WY.

The above mentioned database was further searched and compiled to include only those wells and springs with a temperature of 122°F (50°C) and above and located within 5 miles (8 km) of a community. The purpose of this compilation was to identify and encourage those communities to develop their geothermal resources. Historically, most of the communities that were identified have experienced some development of their geothermal resources. However, depending on the characteristics of the resource, the potential exists for increased geothermal development for applications such as space- and district heating industrial, greenhouse and aquaculture operations, resort/spa facilities and possible electric power generation in some areas.

There are 5 communities identified in Wyoming with a temperature at or above 122°F (50°C). The communities are listed below by county and the information included for each community is: highest reported temperature, total flow, number of wells and/or springs and what potential applications could be utilized at the given temperature.

All of the 17 communities have a potential for resort/spa facilities and greenhouse and aquaculture applications.

Hot Springs County

Thermopolis

Temp 133°F
Depth 741
Flow listed as 8,236 gpm
10 springs 5 wells
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

Lincoln County

Auburn, Grover and Turnerville

Temp 144°F
Depth
Flow listed as 37 gpm
3 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

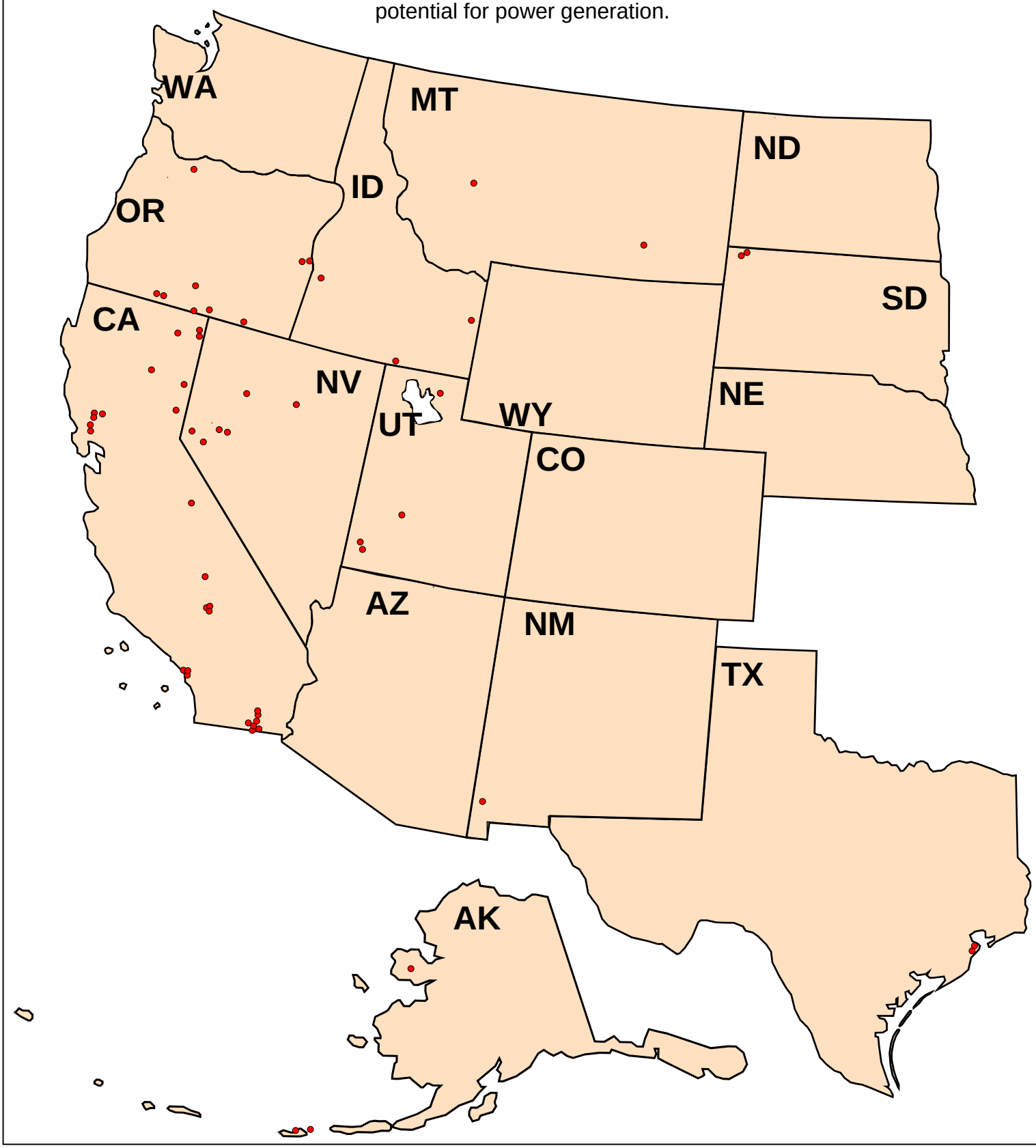
Natrona County

Alcova

Temp 138°F
Depth
Flow listed as 100 gpm
2 springs
With this temperature there is a possibility of resort/spa facility, greenhouse and aquaculture operation.

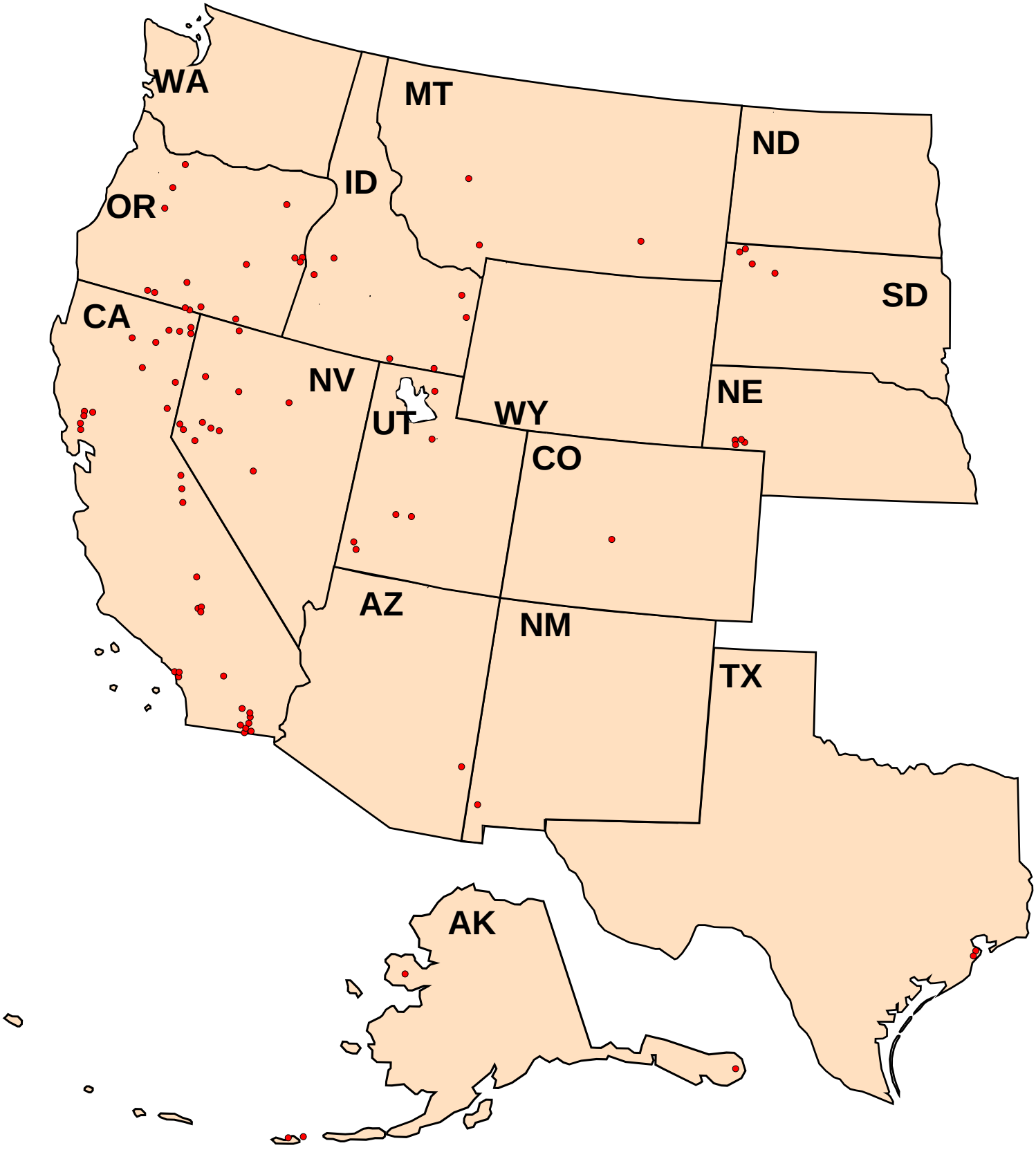
Communities with Geothermal Resource Development Potential

The geothermal resources (wells and springs) shown on this map have a temperature greater than or equal to 50°C (122°F) and are located within 8 km (5 miles) of a community. These locations have the possiblity for the following direct-use applications - industrial applications, space or district heating, resort/spa facility, greenhouse and aquaculture applications. These locations also have the potential for power generation.



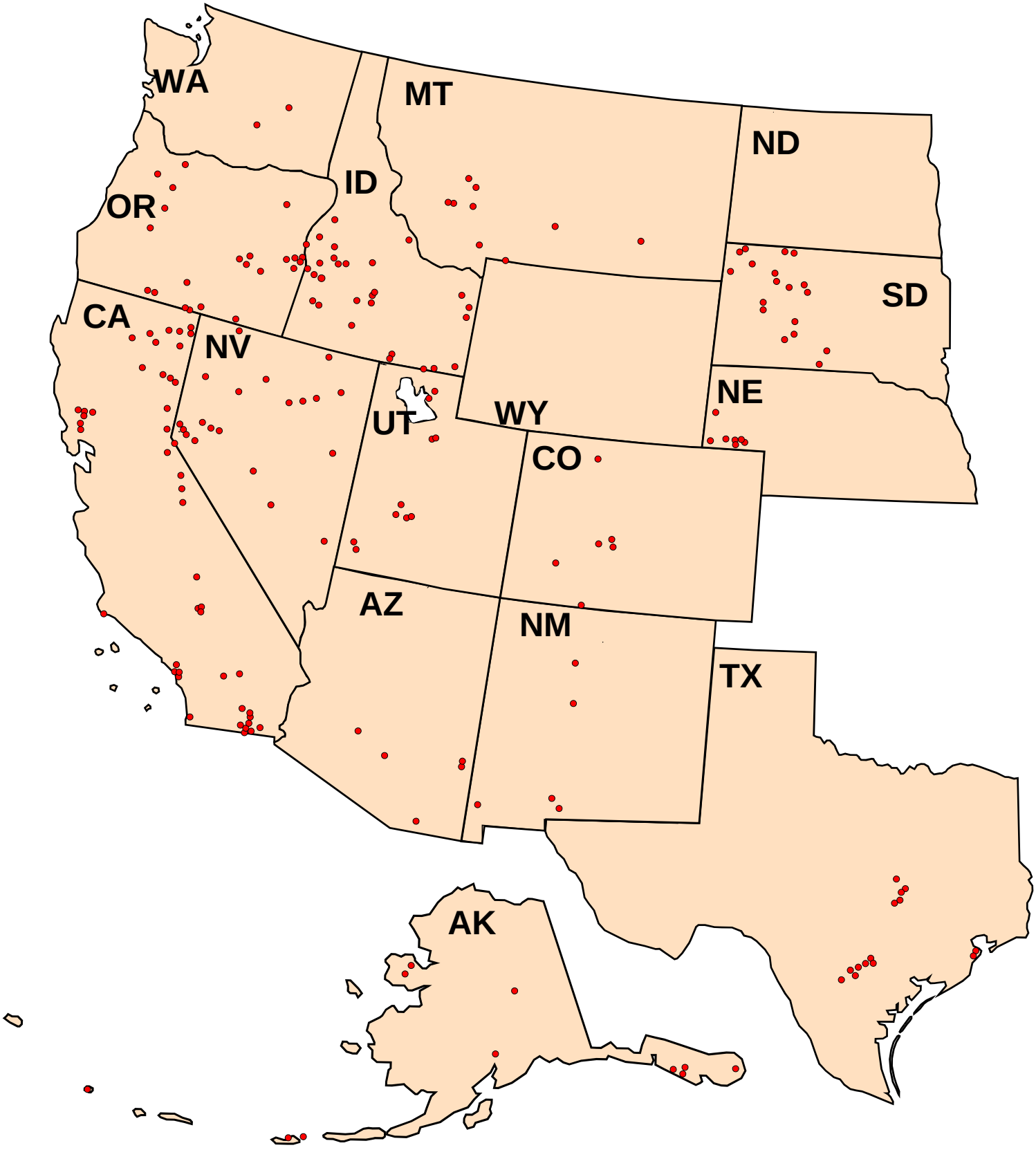
Communities with Geothermal Resource Development Potential

The geothermal resources (wells and springs) shown on this map have a temperature greater than or equal to 50°C (122°F) and are located within 8 km (5 miles) of a community. These locations have the possiblity for the following direct-use applications - industrial applications, space or district heating, resort/spa facility, greenhouse and aquaculture applications.



Communities with Geothermal Resource Development Potential

The geothermal resources (wells and springs) shown on this map have a temperature greater than or equal to 50°C (122°F) and are located within 8 km (5 miles) of a community. These locations have the possiblity for the following direct-use applications - space or district heating, resort/spa facility, greenhouse and aquaculture applications.



Communities with Geothermal Resource Development Potential

The geothermal resources (wells and springs) shown on this map have a temperature greater than or equal to 50°C (122°F) and are located within 8 km (5 miles) of a community. These locations have the possiblity for the following direct-use applications - resort/spa facility, greenhouse and aquaculture applications.