

35-2 of 3

Table — Areas favorable for development of low-temperature (<90°) geothermal resources in western United States, including Alaska and Hawaii.

Area Number	Area Name	Wells Number	Considered Range of Depths (m)	Number	Temperature Range of Springs (°C)	Representative Temperature Gradients (°C km <sup>-1</sup> )	Estimated Reservoir Temperature (°C)	Total Dissolved Solids (mg l <sup>-1</sup> )	Source of Heat	REMARKS	References
NEVADA											
1	Vya area	0	—	7	23-28				Deep circulation in fault zones		Garside and Schilling (1975)
2	Boy-Baltazor Hot Springs	2		30-90	4	30-90	152-165	200-600	Deep circulation in fault zones	Area includes Boy-Baltazor KGRA. Heat flow 1.5-2.5 HFU (Sass and others, 1976)	Mariner and others (1974)
3	McDemmitt area	3	135-182	48-60	0	High (convective)		Low		Wells at Corduroy Mercury Mine. Heat flow 1.5-2.5 HFU (Sass and others, 1976)	Mariner and others (1974)
4	Jackpot area	1	38	48°	4	25-64	94	<300	Deep circulation in fault zones	Heat flow > 2.5 HFU (Sass and others, 1976)	MARINER and others (1974)
5	Smoke Creek and Black Rock Deserts				28	21-95	>30	1,500-4,000	Deep circulation possible magnetic solids at depth	Shallow system occurs in Lake Lahontan. Sediments of low permeability. Heat flow > 2.5 HFU (Sass and others, 1976)	Mariner and others (1974)
6	Winemucca-Golconda area	—	—	—	6	28-58	115		Deep circulation in fault zones	Area includes 8 KGRA's Double Hot Springs, Flycatcher, and Snake. Heat flow > 2.0 HFU (Sass and others, 1976)	MARINER and others (1974)
7	Wells area				4	38-51	178	1,000-2,000	Deep circulation in fault zones	Heat flow > 2.5 HFU (Sass and others, 1976)	MARINER and others (1974)
8	Elko-Carlin area				6	37-96	104-128	500-2000	Deep circulation in fault zones	Heat flow > 2.5 HFU (Sass and others, 1976). Area includes Elko Hot Springs KGRA.	Mariner and others (1974)
9	Pyramid Lake area	1		44	3	45-95	138	<1000-5,000	Deep circulation in fault zones	Heat flow 1.5-2.5 HFU (Sass and others, 1976)	MARINER and others (1974)
10	Carson Desert - Brady's Hot Springs - Hazen	3	<300	88-100	2	88, 90	175	2,000-11,500	Deep circulation possible	* Conductive thermal gradient in Carson Sink. High conductive gradient elsewhere. Heat flow probably > 2.5 HFU. Area includes Brady's Well, Hazen, Stillwater-Soda Lake, and Salt Lake. Includes Dixie Valley KGRA.	Mariner and others (1974)
11	Buffalo Valley - Dixie Valley		<300	20-25	10	48-95	145-156	700-2,000	Deep circulation in fault zones	Heat flows > 2.5 HFU (Sass and others, 1976). Includes Dixie Valley KGRA.	MARINER and others (1974)
12	Crescent Valley - Brownie	1	<300	74°	7	51-98		1,100-1,300	Deep circulation in fault zones	Heat flows probably > 3 HFU. Includes Brownie, Hot Springs, and Dixie KGRA's.	Mariner and others (1974)

