

1290071  
6600671

AREA	Systems in Park (790#)	Energy (Quads)	40 mile radius (790#)	Energy (Quads)	Reference
John D. Rockefeller (cont)			#116	.69 <sup>±</sup> .27	
			#215A	4.6 <sup>±</sup> 1.0	
			#215	1240 <sup>±</sup> 410	

TEXAS

Big Bend Natl Park	#34 (Big Bend #2)	<1	-	<1	790 Table 13
	#35 (Hot Spr)	<1			
	#36 (Rio Grande)	<1			

ARKANSAS

Hot Springs Natl Park	#26 (Hot Spr)	<1	#27	<1	790 Table 13
-----------------------	---------------	----	-----	----	--------------

TOTAL		39,977		38,267	
-------	--	--------	--	--------	--

AREA	Systems in Park (790#)	Energy (Quads)	40 mile radius (790#)	Energy (Quads)	Reference
WYOMING					
Grand Teton Natl Park	-	-	#216 (Huckleberry H. S.)	1.06 <sup>+</sup> -.30	USGS Circ 790
			#217 (Granite H.S.)	.70 <sup>+</sup> -.21	"
			#117 (Newdale)	20 <sup>+</sup> -8	"
			#116 (Ashton H. S.)	.69 <sup>+</sup> -.27	"
			#215A(Mud Volcano)	4.6 <sup>+</sup> -1.0	"
			#215 (Yellowstone Caldera)	1240 <sup>+</sup> -410	"
			WY 1	36,100	"
		ID 1	16,850		
Yellowstone Natl Park	#215 (Yellowstone Caldera)	1240 <sup>+</sup> -410			
	#215A(Mud Volcano)	4.6 <sup>+</sup> -1.0			
	WY 1	36,100	#216 (Huckleberry H. S.)	1.06 <sup>+</sup> -.30	USGS Circ 790
			#116 (Ashton H. S.)	.69 <sup>+</sup> -.27	
			#117 (Newdale)	20 <sup>+</sup> -8	
			ID 1	16,850	
John D. Rockefeller Memorial Pkwy	#216 (Huckleberry H.S.)	1.06 <sup>+</sup> -.30	WY 1	36,100	USGS Circ. 790
			ID 1	16,850	
			#217	.70 <sup>+</sup> -.21	
			#117	20 <sup>+</sup> -8	

## PARK

In Park

Energy  
(Quads)40 mile radius  
(790 #)Energy  
(Quads)

References

## NEVADA

Lake Mead Nat.  
Recreation Area

-

-

Warm wells in  
Boulder City

&lt;1

NBM &amp; G Bull. 91

## WASHINGTON

Mount Ranier  
Natl Park#214  
(Ohanapecosh  
H. S.)1.00<sup>+</sup>.29

WA 4

&gt;35

USGS Circ 790

Olympic Natl Park

.4

USGS Circ 726

## IDAHO

Bruneau River Area  
(possible Wild and  
Scenic River)100  
(portion of  
Bruneau-Grad-  
view)#102 (Bruncan-  
Gradview)450<sup>+</sup>110

USGS Circ 790

AREA	In Park	Energy (Quads)	40 miles	Energy (Quads)	References
CALIFORNIA					
Lassen Volcanic National Park,	#040 (Lassen)	42 <sup>+</sup> 15	#42 (Susanville)	3.2 <sup>+</sup> .9	USGS Circ 790
			#36 (W. Valley Res)	1.15 <sup>+</sup> .32	
			#38 (Kelly H.S.)	.93 <sup>+</sup> .27	
Sequoia National Park	=	-	#56 (Long Valley)	78 <sup>+</sup> 21	USGS 790
			#57 (Coso)	25 <sup>+</sup> 7	"
HAWAII					
Haleakala National Park		.4 (est.)	-		
Hawaii Volcanoes Natl. Park	H1 #83 (Steaming Flats)	96 1.33 <sup>+</sup> .46			USGS - Circ 790
			#84 (Kamaili)	6.7 <sup>+</sup> 3.1	
			#85 (Kapoho)	1.3 <sup>+</sup> .52	
NEW MEXICO					
Valles caldera (possible natl monument)	#171 (Valles Caldera)	87 <sup>+</sup> 39			USGS Circ 790
			173 (Spence Spr)	.79 <sup>+</sup> .26	
			172 (Jemez Spr)	.81 <sup>+</sup> .24	

AREA	In Park (790 #)	Energy (Quads)	40 mile radius (790 # )	Energy (Quads)	Reference
Yukon Charley	-	-	#15 Circle	1.02 <sup>±</sup> .29	USGS 790
Wrangell-St. Elias	AK 84	840			USGS OFR 78-925
	AK 86	120			"
	AK 87	190			"
Gates of Arctic	#010(Reed River H.S.)	.92 <sup>±</sup> .26			USGS 790
Glacier Bay			#22 (Terakei Inlet)	1.03 <sup>±</sup> .29	790
			#23 (Hooniah H.S.)	1.01 <sup>±</sup> .29	"
			#24 (Fish Bay)	.93 <sup>±</sup> .31	"
			AK 88	602	Edgecumbe - USGS OFR 78-925
Bering Land Bridge	#2 (Serpentine)	1.05 <sup>±</sup> .31			USGS 790
	#3 (Pilgrim H.S.)	1.04 <sup>±</sup> .30			"
			#4 (Lava Ck)	.79 <sup>±</sup> .24	"


## ALASKA

AREA	790 NUMBERS AND ENERGY			REFERENCE		
	In Park	Energy (Quads)	40 mile radius		Energy (Quads)	
Katmai	AK 64				USGS Circ. 790	
	65					
	66	120				
	67					
	68					
	69	50			estimate-near Katmai	
	70	(50)			"	
	71	(50)			"	
	72	(50)			"	
	73	(50)			"	
	74	(50)			"	
	75	38			USGS Circ. 790	
	76	(38)			estimate-near Kaguyak	
	77	(38)			"	
			78	(38)	estimate-active, near Kaguyak	
				(71)	estimate-near #63	
			62	71	estimate-near #63	
			89	(71)	USGS Circ. 790	
					estimate-near #63	
Aniakchak	AK 60	540			USGS Circ. 790	
				59	50	"
				58	481	"
				63	71	"
Lake Clark	AK 80	38			USGS Circ. 790	
						estimates based on nearest
	AK 79	38			system w/data	
				AK 90	38	
			AK 93	38		
Mt. McKinley	-	-	-	-	no available data	
Denali	-	-	-	-	no available data	

STATE	AREA NAME	IDENTIFIED THERMAL FEATURES	USE POTENTIAL	COMMENT
Alaska	Bering Land Bridge Nat'l Monument	Hot springs, recent lava fields and maars	Minor direct heat	50 mile radius could prohibit development of Serpentine Springs area (132°). Resource information sparse. Exact location of Nat'l Monument unknown.
Alaska	Gates of the Arctic Nat'l monument	Hot springs	Unknown	Not yet a Nat'l Monument, location unknown.
Alaska	Yukon-Charley National Monument	Hot springs	"	"
Alaska	Katmai Nat'l Monument	Active volcanoes, steam vents, hot springs	Electric potential	Sparsely populated, remote area.
Alaska	Aniakchak Nat'l Monument	Hot springs, steam vents active under cones	Electric potential	Sparsely populated, remote area.
Alaska	Wrangell - St. Elias Nat'l Monument	Hot springs, active volcano w/steam vents	Electric potential (?)	Very remote area
Alaska	Glacier Bay Nat'l Monument	Hot Springs	Moderate direct heat potential	Within 50 miles of Hooniah Hot Springs, near Fish Bay Hot Springs, Juneau area. Reservoir temperatures up to 127°C.
Alaska	Denali Nat'l Monument	Hot springs	Minor direct heat	Needs additional resource assessment.
Alaska	Mount McKinley Nat'l park	Gas emissions along Denali fault.	Minor direct heat	Needs additional resource assessment.
Alaska	Lake Clark Nat'l Monument	Active volcanoes, steam vents	Moderate direct heat	Needs additional resource assessment.
Arkansas	Hot Springs NP	47 hot springs in park, avg T=64°C; other springs and thermal features in area.	Good direct heat potential	Part of Ouachita structural belt, good discovery and development potential in similar geologic settings along trend.

STATE	AREA NAME	IDENTIFIED THERMAL FEATURES	USE POTENTIAL	COMMENT
California	Lassen	Vapor dominated system (Circ. 790), T 237°C; active volcano, several fumaroles.	Good potential for electric and direct heat, near many small population centers.	Good discovery potential in area adjacent to park - for both electric and direct heat utilization. 50 mile radius could affect Susanville projects, Alturus district. Overall restriction w/in 50 miles could have major impact. USGS assessment in area ongoing.
California	Sequoia	Springs	Long Valley (T=227°C) is w/in 50 mi N - excellent development potential, industry interest, Mammoth district heating project. Other active volcanos w/in 50 mi - Coso area is w/in 50 mi S (T=220°C). All of these are active volcanic systems, and are geologically distinct from the granites @ Sequoia NP.	
Hawaii	Haleakala NP	Active volcano, rift system	Island is well populated	50 mi radius would eliminate geothermal development on island (as well as a favorable area w/user interest on Hawaii island).
Hawaii	Hawaii Volcano NP	Active volcano and rift systems	Hilo is close; other small towns.	50 mi radius would rule out development over most of island. Many favorable geothermal sites on island.
Idaho	Bruneau River	Numerous hot springs	Major direct heat (Mtn. Home, Bruneau-Grandview).	Margin of western Snake River Plain - Circ. 790 favorable area. 50 mile radius could prohibit development in this portion of the Snake River Plain, especially Bruneau-Grandview Mtn. Home areas.



STATE	AREA NAME	IDENTIFIED THERMAL FEATURES	USE POTENTIAL	COMMENT
Nevada	Lake Mead NRA	Springs 28-63°C	Direct heat in Boulder City, other small towns.	Within 50 mi radius is Las Vegas. Discovery potential good along Basin & Range faults.
New Mexico	Bandelier NM 	Volcanic terrain, hot springs in vicinity, but none in Bandelier NM.	Good electric potential.	DOE funding 50 mw demonstration plant in area. Mostly private land in geothermally favorable area. HDR experiments w/in 50 mi. Excellent exploration and discovery potential.
Texas	Big Bend NP	Springs in part 36-41°C, other in area to 32°C.	Direct heat potential may exist @ Boquillas.	Stratigraphic control, sparsely populated area; w/in 50 mi radius of Trans Pecos (Circ. 790) region.
Washington	Mt. Rainier NP	Active volcano, hot springs, etc.	Major metropolitan areas w/in 50 mi of park.	Area w/in 50 mi has other active volcanos, KGRA, excellent discovery potential outside nat'l park.
Washington	Olympic NP	Two springs, 26-56°C vents.	Minor direct heat potential.	Topography might inhibit development, low heat flow area.
Wyoming	Grand Teton NP	Hot springs in park, Ashton, Newdale, Huckleberry springs in area, also Granite HS.	Springs are in remote portion of park, small population centers in area.	50 mi radius includes towns of Jackson, Snake Plain PON projects, Rexberg, Island Park, thermally attractive drilling targets in geologically distinct overthrust belt.
Wyoming	J.D. Rockefeller MP	Huckleberry HS, Flagg Ranch HS.	Direct heat potential, geothermometry to 133°C.	Between Grand Teton and Yellowstone NP; see Grand Teton for comments. Adjacent to proposed RARE II area outside Yellowstone Caldera.
Wyoming	Yellowstone NP	Many	None	50 mi radius may prohibit direct heat utilization in W. Yellowstone. Needs to be studied in detail. May also prohibit development in NE Idaho (see Grand Teton NP comments).