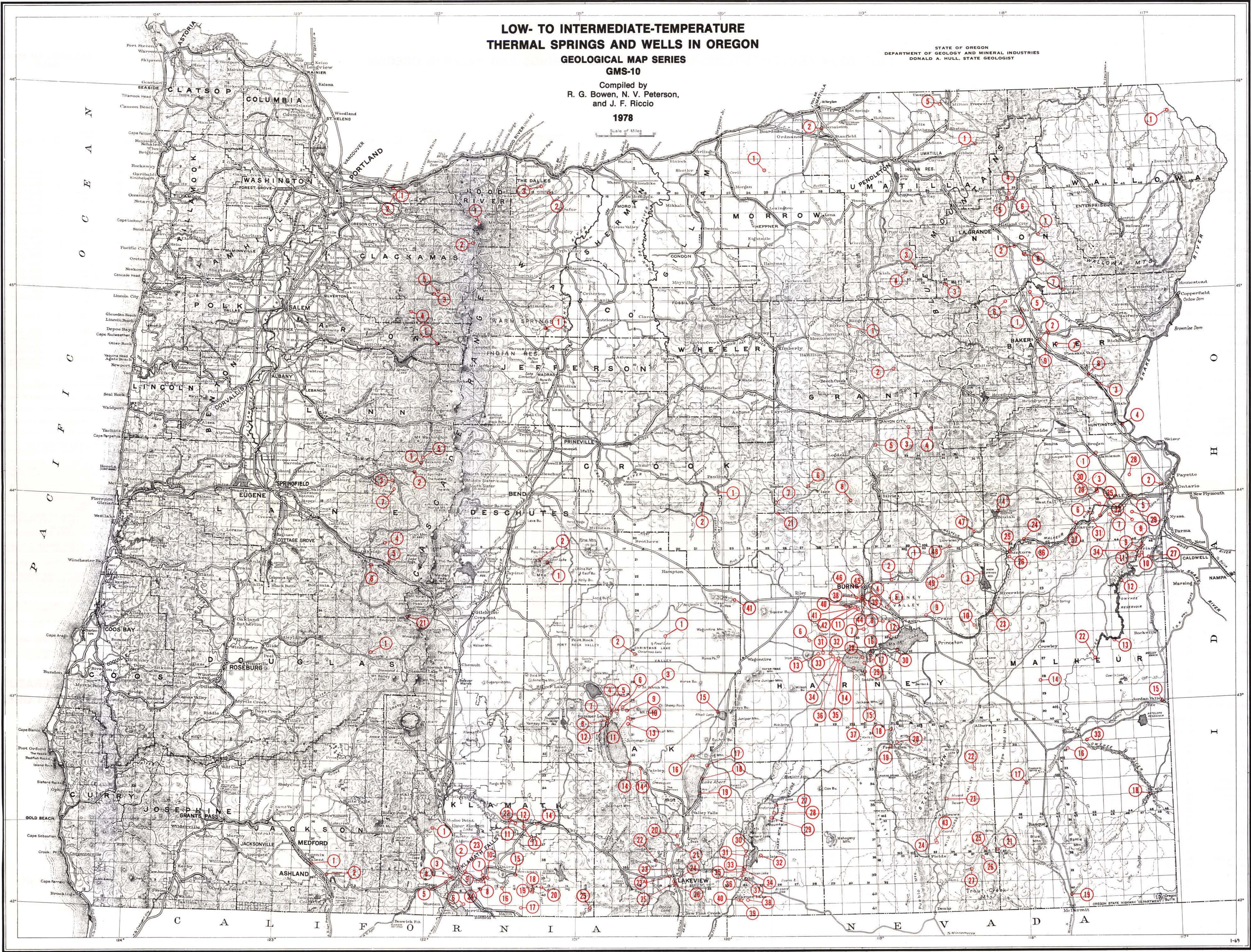


STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
DONALD A. HULL, STATE GEOLOGIST



LOW- TO INTERMEDIATE-TEMPERATURE THERMAL SPRINGS AND WELLS IN OREGON

GEOLOGICAL MAP SERIES
GMS-10

No. on map	Name of spring or well	sec.	Location by T. & R.	Maximum temp. °C(°F)	Ref. no.	Notes
BAKER COUNTY						
1	Radium Hot Springs	28	7S 39E	57(135)	1	(17A) in 1; resort; 300 gpm.
2	Sam-O Spring	16	9S 40E	27(80)	1	(17B) in 1; 400 gpm.
3	Nelson Spring	2	12S 43E	27(80)	1,2	(17) in 1.
4	Huntington City Well	18	14S 45E	24(76)	9	Water-bearing zone at 500'.
5	Kropp Hot Spring	25	6S 39E	43(109)	15	5 gpm.; spring on edge of Powder River.
6	Fisher Hot Spring	10	7S 38E	37(99)	15	500 gpm.
7	Virtue Mine	21	9S 41E	Warm	24	Warm water encountered in lower level of gold mine.
8	Unnamed	18	11S 43E	Warm	15	H ₂ S odor.
9	Unnamed	1	9S 40E	Warm	15	
CLACKAMAS COUNTY						
1	Mt. Hood fumarole	29	2S 9E	90(194)	12	Many fumaroles; anal.
2	Swim	24	3S 8½E	27(80)	1	25 gpm; several small springs.
3	Austin Hot Springs	30	6S 7E	91(196)	1,15	Anal. in 15; 250-300 gpm. min.
4	Bagby Hot Springs	26	7S 5E	58(136)	1,15	Anal. in 15; bath house; 25 gpm.
5	Cary Hot Springs	21	6S 7E	36(96)	15	Geothermal gradient test; zones 120-130' & 400-450'.
CROOK COUNTY						
1	Unnamed Hot Spring S. Fork Crooked River	SE part of 17S 22E	31(87)	6		
2	Camp Creek area	Central portion of Camp Creek	23(73)	6		
DESCHUTES COUNTY						
1	East Lake Hot Springs	29	21S 13E	61(141)	1	(33) in 1; many small springs on edge of lake.
2	Paulina Springs	26	21S 12E	21(70)	1	(32) in 1; 2 springs.
DOUGLAS COUNTY						
1	Umpqua Warm Springs	20	26S 4E	40(105)	1	(24) in 1; 2 springs.
GRANT COUNTY						
1	Ritter Hot Springs	8	8S 30E	43(110)	1	(13) in 1; resort; 35 gpm.
2	Hot Sulfur Springs	35	10S 32E	49(120)	1	(14) in 1; resort.
3	Limekiln Spring	10	14S 33E	21(70)	2	(24) in 2.
4	Blue Mtn. Hot Springs	13	14S 34E	60(139)	1	(16) in 1; several springs.
5	Joaquin Miller Resort	11	15S 31E	39(103)	1	(15) in 1; 2 gpm.
6	Bristolais Ranch Springs	13,24 & 25	17S 27E	22(72)	2	(20) in 2; several springs along zone 3 mi long.
7	Weberg Springs	18	18S 26E	50(122)	2	(18) in 2.
8	Mt. Vernon Hot Springs	9	13S 30E	49(121)	15	Resort; 15-20 gpm.
HARNEY COUNTY						
1	Spring	14	22S 32½E	22(72)	1	(51A) in 1; 225 gpm.
2	O.J. Thomas Well	34	22S 32E	72(162)	14	Greenhouse heating; anal.; 1000' T.D.
3	Several springs	23	22S 36E	62(144)	1	(54) in 1; 90 gpm.
4	Millpond Spring	35,36	23S 30E	28(82)	1,4	Maintains millpond for mill; (52) in 1; 3 springs; 1200 gpm.
5	Harney Valley Develop. Co.	8	24S 32E	46(115)	7,14	Oil test; strong sulfur odor; flowing 35 gpm; anal. in 14.
6	Unnamed	12	26S 27E	20(68)	1	(56) in 1; 45 gpm.
7	Dog Mtn. Oil Test	24	25S 30E	60(140)	3,4	(212) in 4; temp. gradient shown in 3 & 4.
8	Island Ranch Well	7	25S 32E	41(106)	14	Anal.
9	Crane Hot Springs	34	24S 33E	80(176)	1,14	Anal. in 14; 2 main springs; 180 gpm.
10	Several springs	16	25S 36E	42(108)	1	(55) in 1; 300 gpm.
11	Baker Spring	24	24S 30E	21(70)	1,4	(153) in 4; 50 gpm.
12	Howell Oil Test	5	26S 32E	41(106)	4	30 gpm.
13	Unnamed	33	26S 28E	20(68)	1,4	(57) in 1; 10 gpm.
14	Several springs	South edge Harney L.	42(108)	1,4	(62D) in 1; 60 gpm.	
15	Unnamed	36	27S 29½E	68(154)	1,4	(64) in 1.
16	Dunn Spring	4	27S 30E	21(70)	1,4	(63A) in 1.
17	Lynch Spring	8	27S 30E	18(65)	1,4	(63) in 1.
18	Hoghouse Hot Springs	13	31S 32E	27(80)	1,4	(65) in 1; 1800 gpm.
19	Unnamed	12	32S 32E	32(89)	1,4	(67) in 1; 500 gpm.
20	Unnamed	5	32S 32½E	28(83)	1,4	(66) in 1; 100 gpm.
21	Unnamed	5	19S 26E	29(85)	15	10 gpm.
22	Mickey Springs	13	33S 35E	97(206)	8,15	Anal. in 15; fumaroles, clear pools, & boiling mud pots; 20 gpm.
23	Alvord Spring	33	34S 34E	81(177)	1,14	(68) in 1; 135 gpm; anal. in 14.
24	Hot Lake	15	37S 33E	36(97)	1,8	(70) in 1; water supply for old borax works; 900 gpm.
25	Unnamed	33	37S 36E	46(114)	1	(71A) in 1; 10 gpm.
26	Unnamed	24	38S 37E	38(100)	1	(71) in 1; 30 gpm.
27	Flagstaff Butte Hot Spring	16	39S 37E	53(128)	1	(72) in 1; 45 gpm; several springs.
28	Unnamed	In Harney Lake	21(70)	4	Several springs on NE shore; (357) & (369) in 4.	
29	Unnamed	In Harney Lake	33(92)	4	Several springs on SE shore; (359) in 4.	
30	Sothouse Spring	35	26S 32E	12(54)	1	(64A) in 1; 1800-5200 gpm.
31	Double O Spring	34	26S 28E	23(74)	1,4	(58) & (59) in 1; 7100 gpm.
32	Basque Spring	31	26S 29E	23(74)	1,4	(60) in 1; 1800 gpm.
33	Johnson Spring	5	27S 29E	22(72)	1,4	(61) in 1; 900 gpm.
34	Hughet Spring	8	27S 29E	20(68)	1,4	(62) in 1; 5900 gpm.
35	Lower Sizemore Spring	15	27S 29E	19(67)	1,4	(62B) in 1; 410 gpm.
36	Upper Sizemore Spring	9	27S 29E	19(67)	1,4	(62A) in 1; 1160 gpm.
37	South shore Harney L.	29	27S 29½E	42(108)	1,4	(62D) in 1; several springs.
38	Unnamed	36	23S 30E	25(78)	1,4	(52A) in 1; 300 gpm.
39	Goodman Spring	35	23S 30E	Warm	1,4	(52B) in 1; 300 gpm.
40	Unnamed	9	24S 30E	12(54)	1,4	(52C) in 1; 330 gpm.
41	Unnamed	10	24S 30E	18(64)	1,4	(52D) in 1; 465 gpm.
42	Roadland Spring	11	24S 30E	22(72)	1,4	(150) in 4; 495 gpm.
43	Unnamed	15	37S 33E	92(196)	1,8	(69) in 1; several springs extending 1 mi NW of Hot Lake.
44	Hotchkiss Well	1	24S 30E	27(81)	15	Depth 564'; 600 gpm.
45	Hines Lumber Co. Well	35	23S 30E	25(77)	15	Depth 200'; 1750 gpm.
46	City of Hines Well	23	23S 30E	17(63)	15	675 gpm.
47	Altnew Hot Spring	4	20S 36E	Warm	15	Swimming pool.
48	Sitz Hot Spring	36	20S 34E	Warm	15	
49	Unnamed	22	38S 34E	32(89)	15	Several springs; 50 gpm.

No. on map	Name of spring or well	sec.	Location by T. & R.	Maximum temp. °C(°F)	Ref. no.	Notes
JACKSON COUNTY						
1	Jackson Hot Springs	31	38S 1E	40(104)	1,14	8 springs; resort; anal. in 14.
2	Lithia Spring	12	39S 1E	19(66)	28	
KLAMATH COUNTY						
1	Eagle Ridge	24	37S 7½E	34(94)	23	Temp. at old cistern on the shore of Upper Klamath L.; faint odor of H ₂ S.
2	Klamath Falls Geothermal Zone	28	38S 9E	112(234)	1,21,23	150 gpm; original springs no longer present but numerous wells in the vicinity supply heating for O.I.T., schools, residences & business buildings; 350 shallow to moderate depth wells in area 3 mi long and 1 mi wide tap thermal water in Klamath Falls; (27) in 1; anal. in 21 & 23; large areas of siliceous tufa and opalization indicate hot spring activity over long period of time.
3	Holiday	13	39S 8E	21(70)	19	50 gpm.
4	Hardboard Spring	18	39S 9E	21(70)	19	135 gpm; used by hardboard plant.
5	Colwell	27	39S 8E	16(60)	19	450 gpm.
6	Klamath Hills Geothermal Zone	34	40S 9E	93(200)	21,23	Liskay Well reported to produce up to 5000 gpm from depth of 285 ft; some H ₂ S present; anal. in 23; at least 6 other adjacent wells have temperatures from 80 to 186°; zone of silicification from Klamath Hills almost to Merrill attest to long history of hot spring activity; water wells in and near Merrill also have above normal temperatures.
7	Olene Gap Hot Springs	14	39S 10E	74(165)	1,19	100 gpm. min.; other orifice in 21,23; H ₂ S noticeable; anal. in 19 & 23; (28) in 1.
8	Roenicke Hot Springs	14	39S 10E	70(158)	19	Part of Olene Gap group of hot springs; used for heating residence and shop.
9	Crystal Spring	22	39S 10E	26(78)	1,19	900-1350 gpm; flow dammed to form fish pond; (28B) in 1.
10	High Bros. (Taylor Warm Spring)	19	39S 11½E	19(66)	1,19	3150 gpm; used for irrigation; (28A) in 1.
11	Frank Gaularte Well	17	36S 11E	21(70)	19	Flows about 4000 gpm; this & other wells near Sprague R. have water temps. from 5-20° above normal.
12	Smith Spring	19	36S 12E	14(57)	19	200 gpm.
13	Casey	30	36S 12E	14(58)	19	200 gpm.
14	Givan	24	36S 12E	18(64)	19	300 gpm.
15	Bonanza Springs	10	39S 11E	15(59)	19	9000-10,000 gpm; includes several orifices near banks of Lost R.; anal.
15A	Bonanza Well	19	39S 12E	93(200)	3,21	4369' T.D.; hit hot water (200°F) at 3850'; temp. gradient data in 21.
16	Fiegl Well	2	40S 11E	28(83)	19	About 25' above normal for depth; other wells in Poe Valley are anomalous.
17	Frye & Barney Well	12	41S 12E	23(73)	19	600 gpm; 22' above normal; typical of wells in Sand Hollow NE of Malin.
18	Big Hot Spring (Oregon Hot Spring or Turner Hot Spring)	10	40S 13E	61(142)	1,19, 21	40 gpm; formerly a spa; the largest of several hot springs along foot of west escarpment of Langell graben; (29) in 1.
19	Harry Martin	15	40S 13E	17(62)	19	200 gpm.
20	Wilkinson's Hot Spring (Paluuck)	6	40S 14E	24(76)	1,19	25 gpm; concrete swimming pool at spring; 2 orifices; (29B) in 1.
21	Several springs	31	24S 5½E	Warm	1	(25) in 1.
22	R. Smith Well	16	36S 11E	25(77)	26	Depth 380'.
23	Klamath Ice Co. Well	33	38S 9E	52(126)	19	
24	J. K. O'Neil Well	34	39S 10E	Warm	15	
25	Unnamed	3	41S 15E	33(92)	15	Strawberry Butte 15' Quadrangle.
LAKE COUNTY						
1	Sand Springs	35	25S 19E	17(62)	16	30 gpm; 3 orifices including Mound Spring; (35) in 16.
2	Unnamed	32	26S 18E	17(62)	16	West shore of Christmas L.; 3 gpm.; (36) in 16.
3	Johnson Creek	34	29S 17E	13(56)	16,18, 20	18, 9000 gpm; several springs; (39) in 16.
4	Foster	12	30S 16E	19(66)	18	330 gpm; flows from lake beds near base of fault scarp.
5	Ana River Spring	6	30S 17E	19(66)	1,17, 18,20	48,000-75,000 gpm; several spring orifices; one of large springs of U.S.; (37) in 1.
6	Buckhorn Creek	5	30S 17E	20(68)	16,18	500-1000 gpm; several orifices.
7	Unnamed	23	30S 16E	16(60)	18	10 gpm from terrace lake beds along fault scarp.
8	Unnamed	26	30S 16E	16(60)	18	10 gpm.
9	Emery	1	30S 17E	18(64)	18	2 gpm.
10	Thousand	19	30S 18E	19(66)	1	200 gpm; many small orifices; (40) in 1.
11	Unnamed	24	30S 17E	19(65)	18	50 gpm; 5 orifices; flows from terrace edge.
12	Pardon	35	30S 16E	24(76)	1,18	40 gpm; (41) in 1.
13	Lost Cabin	25	30S 17E	20(67)	18	100 gpm.
14	Summer Lake (Woodward)	12	33S 17E	51(123)	1,18, 20,21,13	20 gpm; bath house; strong odor of H ₂ S; anal. in 18; (42) in 1; water wells in this area report warm to hot water.
14A	U.S. Soil Conservation Service Water Well	15	33S 18E	32(92)	18,21	Water zone 100'-134'; many other water wells in & around Paisley report above normal temp.
15	Alkali Lake	12	30S 22E	15(59)	16,18	25 gpm; (43) in 16.
16	XL Spring	23	32S 21E	17(63)	16,18	10 gpm-16; 4000 gpm-18; (44) in 16.
17	Unnamed	10	33S 22E	19(65)	1	20 gpm; (44A) in 1.
18	Unnamed	31	33S 22E	20(68)	1	10 gpm; (44B) in 1.
19	Unnamed	30	34S 22E	27(80)	1	30 gpm; (44C) in 1.
20	Bean Hot Spring	11	37S 20E	20(69)	18	
21	White Rock Ranch Hot Spring	26	36S 20E	20(71)	1	2 springs; (44D) in 1.
22	Hammersley	22	38S 19E	16(60)	18	1000 gpm.
23	Hunters Hot Spring	4	39S 20E	94(202)	1,21,20	
12 main orifices in large thermal area; 600 gpm; includes artesian well ½ mi NW; 200' deep of 120 gpm of boiling water; one other well drilled in 1960 to 650' now used for heating greenhouse complex; (45) in 1; several other shallow wells in area with temp. of 190-200°.						

No. on map	Name of spring or well	sec.	Location by T. & R.	Maximum temp. °C(°F)	Ref. no.	Notes
LAKE COUNTY (Continued)						
23A	City of Lakeview	16	39S 20E	26(79)	18,21	312' T.D.; anal. in 18; other water wells in & around Lakeview report warm water.
23B	Stockburger #1 Oil Test Well	15	40S 19E	27(80)	21,7	1730' T.D.; hit flow of warm gassy water; other oil test wells in T 39 & 40S have similar above normal temps.
24	Leithead Hot Springs (Joyland Plunge)	27	39S 20E	72(162)	1,18	50 gpm; water has odor of H ₂ S; anal. in 18; (46) in 1.
25	Barry Ranch Hot Springs	34	39S 20E	85(185)	21,18	50 gpm; strong odor of H ₂ S; anal. in 18; (47) in 1.
26	Unnamed	35	39S 20E	17(63)	18	20 gpm.
27	Upper Rock Creek	16	35S 26E	46(105-115)	1	50 gpm; several springs; (48) in 1.
28	Antelope Hot Springs	32	35S 26E	40(104)	18	Used as public bath; anal.
29	Hart Mt. Hot Springs	7	36S 26E	Hot	1	Flow not reported; about 200' below crest of Hart Mt; (49) in 1.
30	Moss 1	3	38S 24E	22(72)	18	500 gpm; used for irrigation.
31	Moss 2	10	38S 24E	28(83)	18	30 gpm; from several orifices.
32	Fisher Hot Springs	10	38S 25E	62(144)	18	H ₂ S present; 20 gpm.
33	Crump	27	38S 24E	40(104)	18,22	Odor of H ₂ S; anal. in 18; shallow well (100') also at this location (Crump Geyser) at one time erupted boiling water & steam at about 2 hour intervals; another well drilled in 1959 to 1600'± spouted continuously for about 1 year.
34	Unnamed	34	38S 24E	42(107)	18	H ₂ S odor; 2 gpm; tufa covered terrace.
35	Unnamed	34	38S 24E	73(164)		10 gpm; Warner Valley Stock Co.; many siliceous tufa cones; one non-flowing spring pool nearby has temperature of 188°F.; odor of H ₂ S strong.
36	Warner Valley	3	39S 24E	92(198)	1,18	20 gpm; siliceous tufa over broad areas; numerous extinct spring orifices & several hot pools in vicinity; (49D) in 1.
37	Adel	23	39S 24E	71(160)	1	10 gpm; (50) in 1.
38	Houston	27	40S 24E	71(160)	1	20 gpm; (51) in 1.
39	Hallinan	29	40S 24E	71(160)	18	Much siliceous tufa in vicinity; 3-5 gpm; slight H ₂ S; temps. reported to fluctuate.
40	Hallinan	30	40S 24E	45(113)	18	20 gpm; from 4 closely set orifices; some H ₂ S.
41	Glass Butte Mercury Mine	27	23S 23E	48(119)	15	Water well depth 726'.
LAKE COUNTY						
1	Belknap Hot Springs	11	16S 6E	82(180)	1	75 gpm; resort; (18) in 1.
2	Foley Springs	28	16S 6E	79(174)	1	25 gpm; resort; (19) in 1.
3	Cougar Reservoir	7	17S 5E	54(130)	1	60 gpm; (20) in 1.
4	Wall Creek Hot Springs	26	20S 4E	37(99)	1	3 gpm; (21) in 1.
5	McCredie Springs	36	21S 4E	73(164)	1,14	Anal. in 14; 20 gpm; resort; (22) in 1.
6	Kitson Springs	6	22S 4E	46(114)	1	Anal. in 14; 35 gpm; resort; (23) in 1.
7	Ryder Hot Spring	20	17S 5E	42(108)	15	Upper spring 30 gpm.
8	Bigelow Hot Springs	26	15S 6E	61(142)	15	2 gpm.
MALHEUR COUNTY						
1	Jamieson Hot Springs	4	16S 43E	Hot	1	(73) in 1.
2	Melheur Butte Springs	31	17S 47E	73(164)	1	(78) in 1.
3	Neal Hot Springs	18	43S 75E	75(169)	1	(75) in 1; 24 gpm.
4	Beulah Hot Springs	2	19S 37E	85(185)	1,28	(74) in 1.
5	Vale Hot Springs	20	18S 45E	97(207)	1,15	(77) in 1; 20 gpm; resort & space heating.
6	Unnamed	18	19S 43E	Hot	1	(76) in 1; several springs.
7	Sand Hollow Oil Test	19	19S 44E	46(115)	7	Oil test well; 1260' T.D.
8	Mitchell Butte Hot Springs	12	21S 45E	61(141)	1	(79) in 1; 3 main springs.
9	Deer Butte Hot Springs	14	21S 45E	48(115)	1	(80) in 1.
10	N. Black Willow Spring	25	21S 45E	19(67)	1	(81) in 1.
11	S. Black Willow Spring	25	21S 45E	22(71)	1	(82) in 1.
12	Unnamed	10	23S 44E	Hot	1	(83) in 1; covered by reservoir.
13	Unnamed	18	26S 44E	41(106)	15	5 gpm.
14	Unnamed	4 mi NE Saddle Butte	50(122)	1,6		(84B) in 1.
15	Canter's Hot Spring	2	30S 46E	49(120)	1	(85) in 1.
16	Scotts Spring	6 mi SW Rome	20(68)	1		(85A) in 1; 5000 gpm.
17	Tudors Spring	14	33S 39E	20(68)	1	(85B) in 1; 6000 gpm.
18	Unnamed	3	35S 45E	35(95)	1	(85C) in 1; 1000 gpm; about 15 springs.
19	Unnamed	25	40S 42E	54(130)	1,28	(86) in 1; 200 gpm; several springs.
20	Nelson Well	34	18S 43E	21(70)	13	Depth 190'.
21	Whitehorse Ranch Well	31	37S 37E	32(90)	13	Depth 1300'.
22	Unnamed	18	27S 43E	Hot	1	(84A) in 1; large discharge.
23	Several springs	20	24S 37E	62(143)	1	(84) in 1; 60 gpm.
24	Jonesboro Warm Spring	29	20S 39E	44(112)	27	
25	Juntura Warm Spring #1	9	21S 38E	25(77)	27	
26	Juntura Warm Spring #2	9	21S 38E	35(95)	27	
27	Artesian Well	33	21S 46E	46(115)	15	Shut in May 1978.
28	Alkali Flat	6	17S 45E	24(75)	15	Geothermal gradient hole.
29	Vale	9	19S 45E	36(97)	15	Depth 695'.
30	Bully Creek	4	18S 43E	37(99)	15	Southernmost spring; 20 gpm.
31	Baschon Well	19	19S 43E	82(180)	15	Shallow water well.
32	Page Well	28	19S 45E	+38(+100)	15	Water well depth 622'.
33	Round Mtn. BLM Well	33	31S 42E	+38(+100)	15	Water well depth 588'.
34	Snively Hot Springs	22	21S 45E	77(170)	15	Well drilled in hot spring.
35	Vines Hill BLM Well	22	19S 43E	+38(+100)	15	Water well depth 718'.
36	Unnamed	3	21S 38E	Warm	15	Beulah 15' Quadrangle.
37	Unnamed	29	19S 42E	Warm	15	Several springs.
MARION COUNTY						
1	Breitenbush Hot Springs	20	9S 7E	92(198)	1	900 gpm; 40 springs; resort; travertine terrace.
MORROW COUNTY						
1	Wells Spring	28	2N 25E	27(80)	10	Oil test drilled in flowing spring.
MULTNOMAH COUNTY						
1	Corbett	27	1N 4E	18(64)	15	10 gpm.
2	YMCA Camp Collins	10	1S 4E	23(74)	25	