

GLO2721-1

TABLE 1
CHEMICAL ANALYSES OF THERMAL WATER FROM SELECTED SPRINGS AND WELLS IN IDAHO
(Chemical constituents in milligrams per liter)

Table 1 (continued)

Spring or Well Identification Number and Name	Sample Collection Date	Measured Surface Temperature (°C)	Reported Well Depth below Land Surface (meters)	Discharge (l/min)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Barium (Ba)	Ammonia (NH ₃)	Specific Conductance (µmho/cm)	pH (field)	Hardness		Alkalinity as CaCO ₃	Total Dissolved Solids (TDS)	Sodium Adsorption Ratio (SAR)	Percent Sodium (N Na)	Cation Anion Balance	Data Reference*			
																		Carbonate	Non-Carbonate									
<u>ADA COUNTY</u>																												
LILLIE COLIAS WELL 1N 1F 1AUC1	8/12/76	25	480.	0.	31	22.0	5.40	48	2.60	149.	0.0	33.00	0.02	17.0	0.70	1.00	0.0	0.0	347	8.1	199	79.	0.	122.	56.0	2.4	-0.148	12
NICHOLSUN WELL 1N 1E25DBA1	8/ 2/76	25	530.	0.	38	17.0	2.60	30	2.30	119.	0.0	15.00	0.01	6.8	0.40	0.76	0.0	0.0	287	7.9	129	53.	0.	98.	53.8	1.8	-2.209	12
AGHI-CON WELL #4 1N 1E36AAD1	0/ 0/ 0	22	0.	0.	46	377.0	105.00	444	124.00	0.	0.0	528.00	0.0	291.0	0.27	0.0	0.0	0.0	249	7.8	1745	1372.	1372.	0.	38.7	5.2	44.406	12
TOM BEVINS 2N 1E220DB1	0/ 0/ 0	31	0.	0.	26	224.0	6.10	889	99.00	5992.	0.0	1013.00	0.0	227.0	1.60	0.0	0.0	0.0	237	8.1	5305	584.	0.	4910.	73.1	16.0	-40.113	12
GEORGE WHITWORTH WELL 2N 1E240AD1	0/ 0/ 0	27	0.	0.	30	377.0	44.00	841	99.00	6784.	0.0	1363.00	0.0	390.0	0.56	0.0	0.0	0.0	294	7.6	6370	1122.	0.	5559.	59.4	10.9	-42.094	12
WARREN TOZER WELL 2N 3E100CB1	8/ 3/76	20	471.	0.	32	17.0	4.20	14	1.10	77.	0.0	16.00	0.01	7.3	0.30	1.30	0.0	0.0	193	7.9	96	60.	0.	63.	33.3	0.8	-0.542	12
ST. TRANSPORTATION WELL 2N 3E26CAC1	8/ 3/76	22	975.	0.	44	23.0	4.90	19	1.60	119.	0.0	7.60	0.05	4.6	0.30	2.00	0.0	0.0	232	7.4	117	78.	0.	78.	34.2	0.9	0.463	12
ST. TRANSPORTATION WELL 2N 3F20CAD1	10/ 6/75	23	0.	7.	39	23.0	5.50	20	1.60	129.	0.0	7.70	0.0	3.3	0.30	1.70	0.0	0.0	219	7.3	122	40.	0.	105.	34.6	1.0	1.131	12
FLEND KOCH WELL 3N 2E 2CH01	8/10/77	49	0.	20.	39	3.0	0.10	720	0.60	89.	15.00	25.00	0.0	7.3	3.10	0.0	0.0	0.0	320	9.0	799	8.	0.	95.	99.4	111.5	93.400	10
BEARD WELL 3N 2E11AB01	10/21/77	76	0.	150.	80	5.5	0.0	89	1.40	120.	19.00	21.00	0.01	3.1	17.00	0.02	0.0	0.09	420	8.5	177	14.	0.	130.	92.8	10.5	1.651	12
ARM SPRINGS ATEM DIST 3N 2E12C001	5/31/72	75	400.	0.	78	2.0	0.0	75	1.30	141.	4.00	23.00	0.01	9.3	24.00	0.08	0.0	0.0	336	7.3	178	5.	0.	122.	96.1	14.6	-13.543	3
BOISE WATER COOP. WELL 3N 2E30ABC1	7/29/77	21	0.	0.	23	19.0	0.40	22	1.10	97.	0.0	14.00	0.0	5.9	0.50	0.28	0.0	0.03	204	7.3	109	51.	0.	79.	47.9	1.3	-3.502	12
DENNIS FLAKE WELL 4N 1E240CC1	8/ 9/77	27	1017.	25.	60	22.0	2.10	42	5.40	200.	0.0	3.10	0.12	2.6	0.60	0.0	0.0	0.11	310	7.6	170	64.	0.	164.	56.5	2.3	-3.507	12
CARL RUSH WELL 4N 2E 4BUC1	8/ 9/77	29	0.	0.	27	34.0	3.10	30	1.20	150.	0.0	36.00	0.0	3.9	2.00	0.0	0.0	0.02	290	7.3	180	98.	0.	123.	39.7	1.3	-2.235	12
EDWARDS GREENHOUSE WELL 4N 2E29ACU1	5/31/72	47	1195.	0.	46	4.5	0.30	55	2.40	145.	2.00	21.00	0.02	4.4	10.00	0.06	0.0	0.0	311	7.1	156	12.	0.	122.	66.5	6.8	-13.927	3
BEN STADLER WELL 5N 1E25BCC1	8/ 8/77	28	303.	4500.	38	38.0	4.30	28	3.60	150.	0.0	54.00	0.0	4.1	1.80	0.0	0.0	0.04	340	8.6	202	112.	0.	123.	34.2	1.1	-3.744	10
SHADOW VALLEY WELL 5N 1E26DC01	8/ 9/77	29	686.	450.	32	22.0	1.90	37	3.50	110.	0.0	47.00	0.0	4.8	3.50	0.0	0.0	0.00	2799	7.9	166	63.	0.	90.	54.5	2.0	-3.943	10
JULIUS JENEP WELL 5N 1E35ACA1	5/31/72	40	0.	22.	33	4.3	0.0	49	3.20	112.	1.00	23.00	0.03	4.9	11.00	0.05	0.0	0.0	285	7.5	136	11.	0.	93.	67.8	6.5	-11.722	3
JERRY DAVIS WELL #1 1N 1W 7ACC1	8/12/76	21	590.	0.	45	52.0	20.00	50	6.80	171.	0.0	100.00	0.0	43.0	0.20	4.20	0.0	0.0	656	8.0	349	212.	72.	140.	33.0	1.5	3.093	14

*Data Reference:

- 1-Ross, 1971
- 2-Carter et al, 1973
- 3-Young and Mitchell, 1973
- 4-Young and Whitehead, 1975A
- 5-Young and Whitehead, 1975B
- 6-Mitchell, 1976A
- 7-Mitchell, 1976B
- 8-Mitchell, 1976C
- 9-Swanston, 1977
- 10-Mitchell, Unpublished, 1978
- 11-Tschand, et al, 1974
- 12-USGS Wrd File
- 13-Stoker, Unpublished, 1977
- 14-Young, 1977

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JAMES PHELSCOTT WELLS	75 0E27A0B1	5/19/73	43	400.	541.	84	12.0	1.10	48	6.20	129.	0.0	17.00	0.03	8.6	5.40	0.59	0.0	0.08	287	9.2	150	34.	0.	106.	71.1	3.6	-1.244	5
JEAN PHELSCOTT WELLS	75 0E340CB1S	6/19/73	41	0.	450.	83	6.2	0.30	55	5.50	103.	6.00	18.00	0.03	8.8	8.50	0.46	0.0	0.01	288	9.1	138	17.	0.	94.	63.4	5.9	-2.243	5
JEAN PRESUIT WELLS	75 0E350CB1S	7/18/73	40	0.	0.	89	13.0	1.80	43	6.70	126.	0.0	15.00	0.03	8.8	4.50	0.60	0.0	0.11	287	8.5	143	40.	0.	103.	65.9	3.0	-1.934	5
INDIAN BAYTUB WELLS	65 0E 3B0D1S	7/ 5/73	39	0.	449.	87	6.5	0.60	53	6.70	113.	5.00	15.00	0.06	9.1	6.00	0.66	0.0	0.08	300	8.3	139	19.	0.	101.	60.9	5.3	-2.142	0
INDIAN WELLS	125 7E33C 1S	6/ 2/72	69	0.	1730.	75	1.5	0.0	75	0.60	67.	30.00	24.00	0.04	8.4	14.00	0.06	0.0	0.0	360	8.0	141	4.	0.	105.	97.3	16.9	-3.409	3
MUPPHY WELLS	105 0E2+00B1S	5/23/72	51	0.	70.	83	0.6	0.0	30	2.00	67.	1.00	4.70	0.10	2.3	3.60	0.64	0.0	0.0	137	7.1	70	1.	0.	57.	44.1	10.7	-3.507	3
									95	<u>POWER COUNTY</u>																	95		
ROCKLAND WARM SPRINGS	10030E13CUC1S	7/27/72	36	0.	1522.	22	92.0	33.00	52	14.00	160.	0.0	23.00	0.02	250.0	0.80	0.02	0.0	0.0	1109	7.6	538	365.	234.	131.	25.0	1.4	0.755	3
									96	<u>TWIN FALLS COUNTY</u>																	96		
HANEUPY WELLS	0514E33CB1	5/24/72	59	210.	60.	97	1.1	0.0	100	1.50	89.	38.00	26.00	0.03	27.0	15.00	0.54	0.0	0.0	479	8.5	197	3.	0.	135.	97.9	26.3	-4.229	3
ED LKPA WELLS	9514E 940D1	10/ 8/76	31	0.	449.	51	7.3	0.30	61	3.20	120.	6.00	27.00	0.0	16.0	3.20	0.0	0.0	0.10	300	9.3	170	19.	0.	108.	54.9	6.0	-3.549	9
SAM HIGH AND SONS WELLS	11519E330D1	5/25/72	33	620.	1930.	63	27.0	3.90	17	5.60	118.	0.0	12.00	0.04	15.0	0.30	1.00	0.0	0.0	266	6.6	132	83.	0.	97.	22.1	0.8	-1.571	3
T. STUPGILL WELLS	11520E34CC1	9/ 0/52	32	0.	0.	28	43.0	8.90	11	7.40	186.	0.0	13.00	0.0	5.0	0.70	0.60	0.0	0.0	326	7.5	172	144.	0.	152.	13.5	0.4	-0.515	1
12517E 0CB01		9/28/77	37	0.	7570.	28	37.0	9.90	46	11.00	250.	0.0	20.00	0.01	5.8	2.20	0.09	0.0	0.14	430	7.3	241	133.	0.	205.	40.5	1.7	0.779	10
VAI-SOO-PAN WELLS	12517E31+0B1S	7/25/72	36	0.	114.	19	34.0	14.00	43	11.00	266.	0.0	18.00	0.01	8.0	1.90	0.02	0.0	0.0	469	7.6	247	142.	0.	216.	37.4	1.6	-0.502	3
IDAHO STATE WELLS	1251+E 100A1	7/25/72	36	775.	543.	67	18.0	2.00	15	6.00	95.	0.0	9.30	0.26	8.0	0.60	0.63	0.0	0.0	198	7.6	100	53.	0.	75.	35.4	1.0	-2.247	3
MULLISTER VILLAGE	13517E 75+01	9/28/77	35	0.	946.	22	34.0	10.00	44	12.00	250.	0.0	15.00	0.0	5.5	2.20	0.04	0.0	0.13	450	7.2	231	126.	0.	205.	40.4	1.7	0.779	10
WHEAT WELLS	10017E30ACA1S	5/23/72	46	0.	1457.	23	30.0	8.90	13	4.50	162.	0.0	15.00	0.03	3.8	0.30	0.42	0.0	0.0	281	6.4	150	111.	0.	133.	19.4	0.5	-4.542	3
									95	<u>VALLEY COUNTY</u>																	95		
SILVER CREEK PLUNGE WELLS	124 5E390BA1S	10/ 0/55	39	0.	0.	53	2.0	0.40	52	5.10	70.	12.00	20.00	0.0	6.0	7.50	0.20	0.0	0.0	254	9.0	114	7.	0.	77.	59.6	8.8	-0.700	0
CASAPION WELLS	134 4E31CA01S	8/ 3/72	71	0.	70.	78	1.7	0.0	100	1.90	70.	26.00	46.00	0.02	49.0	11.00	0.05	0.0	0.0	511	7.7	231	4.	0.	101.	57.0	21.1	-5.041	3
CASCADE CITY WELLS	144 3E30+0D1	8/ 3/72	43	15.	0.	45	1.6	0.0	59	0.40	62.	22.00	17.00	0.04	15.0	3.60	0.09	0.0	0.0	275	9.2	122	4.	0.	67.	90.6	12.6	-2.346	3
YULCAN WELLS	144 0E11+0A1S	8/ 2/72	87	0.	500.	120	1.8	0.10	94	3.00	120.	0.0	43.00	0.02	17.0	24.00	0.05	0.0	0.0	451	8.5	214	5.	0.	96.	95.9	18.5	-3.955	3
APLING WELLS	154 3E130BC1S	8/ 2/72	34	0.	3020.	60	1.3	0.10	60	0.60	17.	45.00	16.00	0.02	16.0	2.60	0.0	0.0	0.0	279	9.6	161	4.	0.	69.	96.7	13.7	-0.475	3
MULLY'S WELLS	154 0E14+0B1S	8/ 2/72	59	0.	20.	87	2.0	0.0	70	1.50	48.	30.00	17.00	0.02	10.0	17.00	0.03	0.0	0.0	326	7.7	122	5.	0.	69.	95.7	13.6	-2.277	3
SOUTH PEAK PLUNGE	154 6E14C0B1S	8/ 0/55	55	0.	0.	62	4.0	0.30	60	1.30	59.	22.00	14.00	0.0	9.0	12.00	0.20	0.0	0.0	284	9.3	116	11.	0.	65.	91.0	7.5	-0.717	1
PISTOL CREEK WELLS	16+10E14+0C2S	0/ 0/ 0	46	0.	13.	67	5.0	0.0	83	1.40	98.	0.0	67.00	0.0	12.0	10.00	0.0	0.0	0.0	0	6.3	215	12.	0.	60.	92.7	10.2	0.241	2
SUNFLOWER WELLS	16+12E15+001S	7/ 3/71	65	0.	36.	82	3.0	0.10	77	1.60	51.	30.00	41.00	0.0	9.0	109.00	0.0	0.0	0.0	369	8.4	155	8.	0.	92.	94.4	11.5	-42.144	2
SUNFLOWER WELLS	16+12E15+001S	7/ 4/71	59	0.	0.	87	2.1	0.0	82	1.26	54.	28.00	63.00	0.0	10.0	12.00	0.01	0.0	0.0	404	9.0	143	5.	0.	91.	95.9	15.8	-4.443	12

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