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GLO 2502

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

UNIVERSITY OF UTAH  
RESEARCH INSTITUTE  
EARTH SCIENCE LAB.

Spring or Well Name, Location, Number and Date	Sample Collection Date	Temperature (°C)	pH	Total Dissolved Solids (TDS) (mg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sulfate (SO4) (mg/l)	Chloride (Cl) (mg/l)	Nitrate (NO3) (mg/l)	Boron (B) (mg/l)	Silica (SiO2) (mg/l)	Total Hardness (mg/l)	Hardness		Alkalinity as CaCO3 (mg/l)	Percent Sulfate (mg/l)	Sulfate as SO4 (mg/l)	Calcium as Ca (mg/l)	Other Constituents (mg/l)										
													Carbonate	Non-Carbonate															
<u>ADA COUNTY</u>																													
ELLIP COLLIER WELL 14 14 140C1	8/12/76	25	14.6	0	31	22.0	5.40	48	2.60	149	0.0	31.00	0.02	17.0	0.70	1.00	0.0	0.0	14739	0.1	234	39.	0.	127.	56.0	2.4	-0.198	12	
MCDOLESON WELL 14 14 250C1	8/27/76	25	14.2	0	36	17.0	2.40	30	2.40	119	0.0	15.00	0.01	5.8	0.40	0.76	0.0	0.0	287	1.0	131	51.	0.	98.	51.0	1.8	-2.200	12	
MCDOLESON WELL #2 14 14 260C1	07/07/0	22	0.2	0	46	137.0	135.00	444	124.00	0	0.0	528.00	0.0	291.0	0.27	0.0	0.0	0.0	248	7.8	1915	1372.	1872.	0.	18.7	5.2	44.405	12	
DU LAND AND WEEF 14 24 240C1	8/26/54	24	12.1	0	29	14.0	2.90	49	2.10	114	0.0	22.00	0.0	14.0	1.10	0.0	0.0	0.0	290	4.1	201	47.	0.	110.	48.1	3.1	-1.900	9	
DU WEEF WELLS 24 14 220C1	07/07/0	31	0.	0	78	224.0	6.10	889	94.00	5492.	0.0	1013.00	0.0	227.0	1.40	0.0	0.0	0.0	217	8.1	5431	584.	0.	4910.	73.1	18.0	-40.811	12	
EDGE WHITEHOLE WELL 24 14 240C1	07/07/0	27	0.	0	30	117.0	44.00	441	89.00	4384.	0.0	1383.00	0.0	190.0	0.58	0.0	0.0	0.0	294	7.6	6590	1122.	0.	5559.	59.4	10.9	-42.094	12	
EMERSON WELLS 24 14 100C1	8/27/76	20	14.4	0	12	17.0	4.20	14	1.10	77	0.0	18.00	0.01	7.1	0.10	1.30	0.0	0.0	191	7.9	131	60.	0.	61.	33.3	0.8	-0.597	12	
F. THOMAS DEPT. WELL 24 14 240C1	8/27/76	22	29.7	0	44	23.0	4.40	19	1.60	180	0.0	7.60	0.05	4.8	0.30	2.00	0.0	0.0	232	7.4	165	78.	0.	98.	34.2	0.9	0.483	12	
FIND LACK WELLS 14 24 240C1	8/21/77	49	0.	0	36	39	3.0	0.10	220	0.60	80	18.00	25.00	0.0	7.1	3.10	0.0	0.0	320	9.0	856	8.	0.	98.	84.41115	41.400		10	
FIND WELLS 14 24 110C1	10/21/77	16	0.	0	68	80	6.5	0.0	89	1.60	120	19.00	31.00	0.01	1.3	17.00	0.02	0.0	0.08	420	8.5	245	14.	0.	130.	42.6	10.5	1.451	10
FOX SPRINGS WELL DIST 14 24 120C1	8/31/77	15	12.4	22.2	38	2.0	0.0	75	1.10	141	4.00	23.00	0.01	9.1	24.00	0.04	0.0	0.0	186	7.1	286	5.	0.	122.	46.1	14.5	-11.584	11	
GLASS WELLS WELL 14 24 130C1	7/29/77	21	0.	0	23	19.0	0.80	22	1.10	77	0.0	14.00	0.0	5.9	0.50	0.26	0.0	0.01	204	7.3	134	51.	0.	79.	47.9	1.3	-1.587	12	
GRASS WELLS WELL 14 24 140C1	8/27/77	27	11.0	95	160	22.0	2.10	42	5.40	200	0.0	3.10	0.12	2.6	0.80	0.0	0.0	0.11	310	7.8	235	64.	0.	184.	54.5	2.4	-1.507	10	
GLASS WELLS WELL 14 24 150C1	8/27/77	29	0.	0	23	14.0	1.10	30	1.70	150	0.0	18.00	0.0	1.9	2.00	0.0	0.0	0.02	290	7.1	210	98.	0.	121.	39.7	1.1	-2.234	10	
GLASS GREENHOUSE WELL 14 24 160C1	8/31/77	47	16.4	0	40	4.5	0.10	55	2.40	145	2.00	21.00	0.02	4.4	10.00	0.06	0.0	0.0	311	7.1	216	12.	0.	122.	88.5	6.8	-13.927	11	
GRASS VALLEY WELLS WELL 14 24 170C1	8/27/77	28	9.2	130.1	34	14.0	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	245	112.	0.	121.	34.2	1.1	-1.744	10	
GRASS VALLEY WELLS WELL 14 24 180C1	8/27/77	29	21.0	140.4	37	22.0	1.40	31	1.50	110	0.0	47.00	0.0	4.8	3.50	0.0	0.0	0.00	2798	7.9	205	63.	0.	90.	54.5	2.0	-1.941	10	

From: Mitchell, J.C., et al., 1979. Geothermal Investigations of Idaho - Pt. 9: Id. Dept of Water Resources, Water Information Bulletin #3

14 HUSS, 1971  
18 LIVING AND MITCHELL, 1971  
58 LIVING AND MITCHELL, 1974  
74 MITCHELL, 1974  
88 SWANSON, 1971  
113 SCHWAB, ET AL., 1974  
137 STOKER, UNPUBLISHED, 1977  
24 GIBBS, ET AL., 1973  
47 LIVING AND WHITHEAD, 1978  
68 MITCHELL, 1974  
88 MITCHELL, 1976  
104 MITCHELL, UNPUBLISHED, 1978  
128 USGS, WRI FILE  
148 LIVING, 1977

Table 1 - Chemical Analysis of Thermal Water from Selected Springs and Wells in Idaho (continued)

Spring or Well Name/Location	Sample Collection Date	Temperature (°C)	pH	Residual Alkalinity (meq/l)	Discharge (gpm)	Iron (ppm)	Manganese (ppm)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sulfate (SO4) (mg/l)	Nitrate (NO3) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)	Total Dissolved Solids (TDS) (mg/l)	Sulfate (SO4) (mg/l)	Nitrate (NO3) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)	Total Dissolved Solids (TDS) (mg/l)	Hardness		Alkalinity as CaCO3 (mg/l)	Percent Sulfate (% SO4)	Percent Chloride (% Cl)	Sulfate:Chloride Ratio	Calcium:Iron Ratio	Date of Analysis		
																				Carbonate	Non-Carbonate								
<u>ADA COUNTY (continued)</u>																													
JUDITH SPRING WELL 5M 1E 15ACAE	5/31/72	40	9.0	83.0	33.0	4.3	0.0	49.0	3.20	112.0	1.00	23.00	0.01	4.9	11.00	0.05	0.0	0.0	285	7.5	184	11.0	0.0	91.0	87.8	6.5	-11.722	3	
JIMMY DAVIS WELL #1 1M 1W 7ACC1	8/12/74	21	10.0	0.0	45.0	52.0	20.00	59.0	6.80	171.0	0.0	100.00	0.0	43.0	0.20	4.20	0.0	0.0	656	8.0	405	212.0	72.0	140.0	33.0	1.5	3.093	14	
CLAYTON FOSBERG WELL 1M 1W 7PCC1	8/25/75	20	10.0	0.0	43.0	45.0	19.00	69.0	6.10	264.0	0.0	110.00	0.0	27.0	0.30	0.0	0.0	0.0	643	7.4	419	196.0	0.0	216.0	40.2	1.9	-6.529	9	
TOVER ROEMER WELL 1M 1W 806A1	10/6/77	22	9.0	102.0	35.0	70.0	8.90	46.0	4.70	119.0	0.0	130.00	0.04	55.0	0.20	1.20	0.0	0.0	610	7.5	405	211.0	121.0	90.0	31.6	1.4	1.126	10	
SHANE BUES WELL 1M 1W 150A1	8/12/74	23	10.0	0.0	47.0	70.0	7.00	19.0	4.90	139.0	0.0	37.00	0.01	15.0	0.10	1.20	0.0	0.0	331	8.1	215	79.0	0.0	102.0	50.0	1.9	0.233	12	
SPRINT LUNCER WELL #1 1M 1W 220001	07/07/0	29	0.0	9.0	37.0	424.0	54.00	591.0	99.00	659.0	0.0	930.00	0.0	340.0	0.23	0.0	0.0	0.0	270	7.4	5762	1301.0	0.0	5400.0	47.4	7.1	-43.501	12	
RISCHOF HEALTY WELL 1M 1W 254001	8/25/77	21	0.0	0.0	32.0	89.0	20.00	58.0	2.70	310.0	0.0	140.00	0.0	26.0	0.30	1.10	0.0	0.0	608	7.0	523	304.0	50.0	254.0	29.1	1.4	-0.772	12	
LETA FISHEN WELL 5M 1W 160A1	10/7/75	20	5.0	0.0	42.0	14.0	8.10	25.0	9.30	237.0	0.0	16.00	0.0	4.2	0.50	0.0	0.0	0.0	360	7.9	275	118.0	0.0	194.0	29.5	1.0	-8.588	8	
MAURE CHARYEN WELL 1M 1W 5ANC1	8/13/74	26	11.0	0.0	43.0	14.0	6.90	44.0	4.70	133.0	0.0	41.00	0.01	15.0	0.50	1.40	0.0	0.0	346	8.2	241	68.0	0.0	109.0	58.4	2.5	-0.253	12	
FRANK WHITE WELL 1M 1W 160A1	07/07/76	23	10.0	0.0	32.0	19.0	5.70	54.0	4.60	114.0	0.0	62.00	0.01	20.0	0.50	3.20	0.0	0.0	386	8.1	257	71.0	0.0	91.0	40.5	2.8	-0.149	12	
<u>ADAMS COUNTY</u>																													
JEFF LIONS H.S. 1M 1W 31ACC1S	6/29/72	65	0.0	114.0	110.0	19.0	0.10	420.0	17.00	71.0	0.0	660.00	0.05	150.0	8.80	0.07	0.0	0.0	20209	7.6	1440	99.0	40.0	58.0	88.4	18.4	2.544	3	
ROZEMAN H.S. 1M 1W 22CCA1S	6/29/72	43	0.0	151.0	73.0	5.3	0.20	140.0	3.30	81.0	0.0	190.00	0.01	26.0	2.80	0.05	0.0	0.0	668	8.8	489	14.0	0.0	81.0	44.3	16.2	-0.784	3	
ZENO'S RESORT 2M 1W 2600A1S	6/29/72	65	0.0	0.0	64.0	12.0	0.10	190.0	3.60	47.0	9.00	310.00	0.01	12.0	2.30	0.07	0.0	0.0	940	8.5	666	30.0	0.0	54.0	42.2	15.0	-0.147	3	
STARR H.S. 2M 1W 234A1S	10/19/77	30	0.0	18.0	55.0	10.0	1.70	130.0	3.80	81.0	1.00	230.00	0.07	74.0	1.80	0.0	0.0	0.0	680	8.4	497	32.0	0.0	64.0	84.5	10.0	-4.675	10	
MOULDER CREEK RESORT 2M 1W 340A1S	10/19/77	26	0.0	19.0	43.0	17.0	0.0	50.0	0.40	46.0	34.00	40.00	0.07	5.0	1.00	0.01	0.0	0.0	240	9.4	213	42.0	0.0	94.0	71.7	3.3	1.831	10	
STARR H.S. 1M 1W 340A1S	6/27/72	56	0.0	492.0	56.0	4.5	0.0	86.0	1.60	60.0	6.00	150.00	0.03	14.0	0.90	0.05	0.0	0.0	502	8.6	348	11.0	0.0	59.0	43.4	11.2	-8.700	3	
<u>BANNOCK COUNTY</u>																													
ROBERT ARON WELL #1 5M 1W 240A1	7/27/72	41	17.0	57.0	20.0	70.0	25.00	150.0	21.00	438.0	0.0	95.00	0.0	87.0	3.20	0.07	0.0	0.0	11169	7.7	706	277.0	0.0	392.0	51.7	3.0	0.700	3	

JOHNS PHOENIX WELL 27 55 14F 24DD01	7/11/76	25	22	0	41	45.0	17.00	140	2.70	688	0.0	100.00	0.0	100.0	2.80	0.0	0.0	1719	7.2	718	244	0	384	56.5	4.3	-1.675	9
FRAN MORRIS WELL 65 16F 10C015	8/ 7/76	22	0	0	75	44.0	9.20	18	1.90	143	0.0	13.00	0.0	24.0	0.10	0.0	0.0	349	7.2	200	148	10	117	15.9	0.5	1.171	9
AVA H S 98 14F 210D015	8/15/72	45	0	0	12	120.0	12.00	170	19.00	542	0.0	110.00	0.04	190.0	0.70	0.14	0.0	1579	6.6	940	431	0	444	41.5	1.4	1.310	3
YONKATA H S 25 17F 12C0015	5/17/72	41	0	1455	29	43.0	15.00	70	9.10	214	0.0	18.00	0.0	70.0	0.40	0.50	0.0	413	6.7	240	160	0	175	19.4	0.7	0.135	3

BEAR LAKE

WACAPPO H S 15 41F 14B0015	9/12/71	26	0	18	31	188.0	65.00	61	14.00	658	0.0	225.00	0.0	43.0	1.80	0.14	0.01	0.24	16999	6.4	894	710	197	519	15.4	1.0	-0.279	10
FAP LAPE H S 55 44F 11C0015	5/ 9/72	48	0	0	15	210.0	55.00	190	61.00	254	0.0	800.00	0.01	79.0	7.10	0.54	0.0	0.0	2039	6.6	1551	750	540	210	32.1	2.9	1.937	3

BINGHAM COUNTY

ANDRELL SPRINGS 35 17F 11D0015	8/18/72	32	0	548	22	150.0	15.00	72	7.20	240	0.0	330.00	0.02	29.0	0.90	0.0	0.0	0.04	950	7.1	714	518	121	197	8.3	0.4	-0.755	10
USALI FLAT H S 85 14F 24DD015	8/18/72	34	0	0	19	210.0	88.00	34	37.00	640	0.0	340.00	0.03	17.0	0.90	0.0	0.0	1.10	1529	6.6	1040	804	278	524	8.0	0.5	1.094	10

BLAINE COUNTY

DEPT H S 28 14F 11D0015	7/11/72	59	0	245	85	2.0	0.0	68	1.50	88	0.0	51.00	0.02	10.0	12.00	0.07	0.0	0.0	337	8.7	272	5	0	72	95.5	11.7	-5.184	1
JANARDEN H S 15 17F 210C015	7/11/72	47	0	378	80	2.2	0.10	81	1.10	29	30.00	88.00	0.01	11.0	15.00	0.06	0.0	0.0	409	8.2	301	62	0	74	95.6	14.5	-4.151	1
DEPT H S 19 17F 15A0015	7/11/72	71	0	1285	86	2.9	0.0	84	2.10	51	25.00	72.00	0.02	11.0	16.00	0.06	0.0	0.0	421	8.0	324	7	0	81	94.9	13.6	-5.279	3
IMFIELD H S 19 17F 11A0015	10/11/72	62	0	378	97	2.4	0.0	67	1.80	55	37.00	35.00	0.01	8.1	14.00	0.0	0.0	0.01	370	8.7	289	6	0	107	94.2	11.4	-11.009	10
ISLET H S 19 14F 10D0015	07/07/0	37	0	68	54	3.8	0.10	69	0.60	24	28.00	46.00	0.0	5.9	21.00	0.0	0.0	0.0	0	9.2	240	10	0	64	93.4	9.5	-5.416	11
JUSTIN JOHN H S 19 14F 11C0015	07/07/0	35	0	4	54	2.1	0.10	70	0.60	25	29.00	46.00	0.0	6.5	19.00	0.0	0.0	0.0	0	8.8	234	6	0	64	95.7	12.1	-5.184	11
GIC H S LANDING WELL 5 17F 210A015	8/21/72	71	79	57	100	22.0	1.10	110	19.00	744	0.0	80.00	0.04	83.0	13.00	0.06	0.0	0.0	1499	6.4	1005	60	0	628	89.5	18.5	-2.444	8
GIC H S LANDING WELL 5 17F 210A015	10/29/71	72	79	14	105	20.0	0.15	121	21.00	735	0.0	52.00	0.01	85.0	10.00	0.56	0.06	0.08	1149	6.9	978	51	0	607	89.7	19.6	-11.595	3
GRIP H S 5 21F 14D0015	8/ 8/72	52	0	1310	28	56.0	11.00	61	17.00	160	0.0	28.00	0.01	14.0	1.70	0.05	0.0	0.0	651	7.3	395	185	0	295	34.9	2.0	-0.476	1
LFORD SWEAT H S 6 22F 10D0015	8/ 8/72	44	0	78	26	60.0	12.00	48	8.90	294	0.0	63.00	0.03	6.5	2.30	0.0	0.0	0.0	641	7.3	371	190	0	241	33.2	1.5	-1.280	1

BOISE COUNTY

IN SPRINGS 6 6F 24C0015	7/ 0/55	67	0	0	90	2.0	0.0	52	0.80	27	37.00	22.00	0.0	2.0	4.80	0.0	0.0	0.0	230	9.4	221	5	0	80	95.0	10.1	0.013	1
WHEIN CREEK H S 4 5E 18C0015	6/ 8/72	40	0	0	69	2.4	0.10	66	0.90	85	1.00	42.00	0.01	5.1	1.10	0.25	0.0	0.0	317	8.8	210	6	0	71	95.0	11.1	6.921	3
T SPRINGS WAGROUND 6 5F 80C015	10/29/71	44	0	19	64	1.9	0.0	71	1.10	71	26.00	24.00	0.01	7.3	15.00	0.01	0.0	0.10	370	8.9	249	10	0	107	93.1	10.2	-1.881	10

Table 1 - Chemical Analysis of Thermal Water from Selected Springs and Wells in Idaho (continued)

Spring or Well Name and Location	Sample Collection Date	Major Ion Totals (mg/L)	pH	Alkalinity as CaCO <sub>3</sub> (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Chloride (Cl) (mg/L)	Bromide (Br) (mg/L)	Calcium (Ca) (mg/L)	Magnesium (Mg) (mg/L)	Sodium Plus Potassium (Na+K) (mg/L)	Iron (Fe) (mg/L)	Manganese (Mn) (mg/L)	Zinc (Zn) (mg/L)	Copper (Cu) (mg/L)	Nickel (Ni) (mg/L)	Silver (Ag) (mg/L)	Arsenic (As) (mg/L)	Barium (Ba) (mg/L)	Strontium (Sr) (mg/L)	Total Dissolved Solids (TDS) (mg/L)	Fluoride		Alkalinity as CaCO <sub>3</sub> (mg/L)	Percent Sulfate (mg/L)	Percent Chloride (mg/L)	Percent Bromide (mg/L)	Calcium to Magnesium Ratio (Ca/Mg)	Calcium to Sodium Plus Potassium Ratio (Ca/Na+K)	Dissolved Solids		
																					Free Fluoride (mg/L)	Total Fluoride (mg/L)									
<u>BOISE COUNTY (continued)</u>																															
WILEY RANCH W-5 N 47 10P0015	8/18/72	55	0.	265	59	1.9	0.0	68	1.10	40.	10.00	14.00	0.02	5.6	14.00	0.04	0.0	0.0	336	8.6	217	5.	0.	85.	96.0	13.6	-4.111	3			
EM W-5 N 37 25PAC15	8/ 8/72	80	0.	37.	120	4.5	0.0	130	4.90	160.	0.0	39.00	0.02	34.0	13.00	0.04	0.0	0.0	608	8.1	464	13.	0.	131.	94.2	16.9	0.555	3			
BRAND W-5 N 87 12CAP15	7/14/72	65	0.	846.	69.	1.9	0.10	66	1.30	66.	21.00	45.00	0.02	3.0	15.00	0.06	0.0	0.0	122	7.8	244	5.	0.	71.	95.5	12.6	-4.389	3			
ROSVILLE W-5 N 107 31PCC15	8/18/72	85	0.	1374.	170	2.2	0.10	67	2.90	58.	21.00	52.00	0.01	7.2	17.00	0.07	0.0	0.0	373	8.1	297	6.	0.	81.	93.8	12.0	-10.941	3			
<u>ROSSVILLE COUNTY</u>																															
L. CREEK WELLS 1437 9CAP15	8/10/72	25	0.	265.	11,440.0	96.00	1150	120.00	1200.	0.0	190.00	0.04	1900.0	1.70	0.05	0.0	0.0	0.0	3949	6.3	4658	1493.	500.	94.1	59.5	12.5	-0.170	3			
JOHN CREEK W-5 1427 24PCC15	10/19/76	35	0.	48.	24,150.0	43.00	2100	14.00	1900.	0.0	2502.00	0.0	590.0	2.60	0.0	0.0	0.0	0.0	8649	6.4	6377	543.	0.	155.7	94.4	19.2	1.491	6			
EM W-5 467-19CAC15	9/27/77	37	0.	38.	49,540.0	190.00	1500	140.00	880.	0.0	1000.00	0.51	2800.0	2.70	0.05	0.0	5.70	10499	6.5	6615	1808.	1087.	721.	81.5	15.1	-3.802	10				
<u>RUTIE COUNTY</u>																															
15-ROTHWELL L 257 32CC15	8/ 8/72	41	119.	45.	56	16.0	24.00	72	31.00	323.	0.0	170.00	0.02	21.0	3.70	0.12	0.0	0.0	898	6.3	589	283.	19.	264.	13.5	1.9	-1.295	3			
TR CITY L 41 278 34AP1	8/ 8/72	35	145.	0.	31	44.0	24.00	11	7.70	315.	0.0	56.00	0.02	22.0	0.80	0.98	0.0	0.0	648	7.2	194	258.	0.	258.	20.1	0.8	-2.174	3			
<u>CAMAS COUNTY</u>																															
LEPP W-5 137 32AP15	6/20/72	66	0.	741.	73	1.4	0.0	54	1.00	51.	12.00	12.00	0.01	5.1	4.10	0.02	0.0	0.0	252	8.0	214	3.	0.	101.	74.1	12.6	-1.553	3			
SPRINGS RANCH 137 32AP15	10/11/73	60	0.	0.	61	1.0	0.0	56	0.78	45.	16.00	11.00	0.0	5.7	3.70	0.01	0.0	0.00	226	9.2	213	2.	0.	97.	72.2	15.4	-0.718	6			
SPRINGS RANCH 137 32AP25	10/11/73	67	0.	95.	78	1.0	0.0	56	2.00	58.	10.00	12.00	0.0	5.7	3.30	0.70	0.0	0.0	215	9.2	217	2.	0.	98.	86.0	15.4	-0.844	8			
SPRING RANCH 137 32AP15	10/11/73	64	0.	0.	78	1.2	0.12	55	1.20	54.	12.00	11.00	0.0	5.7	3.20	0.09	0.0	0.0	220	9.2	214	3.	0.	98.	96.0	12.8	-0.638	8			
CREEK W-5 156 1440A15	10/10/73	55	0.	95.	62	2.2	0.12	71	2.00	65.	2.40	44.00	0.0	23.0	18.00	0.10	0.0	0.01	333	8.9	296	6.	0.	57.	95.9	16.2	5.428	8			
CREEK W-5 156 1440B25	10/10/73	55	0.	0.	83	2.4	0.12	92	1.60	96.	1.20	44.00	0.0	23.0	16.00	0.10	0.08	0.01	376	8.9	310	6.	0.	81.	95.9	15.7	1.546	8			
CREEK W-5 156 1440A15	10/10/73	85	0.	0.	78	2.2	0.0	92	1.60	96.	2.40	44.00	0.01	24.0	17.00	0.86	0.03	0.01	418	8.9	333	5.	0.	83.	96.4	13.1	-1.056	8			
YFOOT W-5 137 70CA15	10/14/73	56	0.	38.	72	1.7	0.0	67	2.00	110.	16.00	26.00	0.01	16.0	13.00	0.01	0.0	0.11	460	8.7	282	4.	0.	117.	96.3	13.3	-4.026	10			

ALUCANTON H S	15 126 70CD15	10/14/77	44	0.	76.	44	2.5	0.0	54	0.80	80.	11.00	22.00	0.01	15.0	6.50	0.27	0.0	0.07	270	8.5	195	6.	0.	84.	94.2	9.4	-1.990	10
ANDRICK H S	15 149 28CA15	7/10/72	81	0.	1744.	96.	1.8	0.0	69	1.90	51.	28.00	35.00	0.02	5.0	15.00	0.07	0.0	0.0	328	7.1	236	4.	0.	88.	95.8	14.2	-8.731	3
ARIZONA H S	15 127 18CA15	10/31/73	49	0.	0.	48	1.0	0.0	49	0.78	0.	57.00	7.70	0.0	4.7	2.00	0.04	0.0	0.00	208	9.9	188	2.	0.	95.	96.8	13.5	-2.290	4
ARIZONA H S	15 127 16CA15	10/31/73	45	0.	0.	48	0.8	0.0	44	0.39	5.	51.00	9.20	0.0	1.2	1.90	0.06	0.0	0.00	206	9.9	184	2.	0.	89.	97.7	15.1	0.706	8
ARTHUR H S	15 126 18CA15	6/20/72	31	122.	57.	36	0.8	0.0	32	0.30	31.	26.00	3.30	0.04	2.1	0.80	0.03	0.0	0.0	150	9.2	116	1.	0.	69.	93.4	11.4	-4.176	1
ARTIST H S	15 116 22CC15	11/1/73	26	54.	4.	38	1.0	0.01	86	2.40	193.	0.0	5.30	0.01	10.0	9.80	0.0	1.10	0.02	460	7.8	290	10.	0.	159.	93.5	11.8	-0.888	8
ARTIST H S	15 116 27CC15	11/1/73	35	54.	103.	83	1.0	0.12	94	1.60	205.	0.0	5.80	0.02	11.0	11.00	0.02	0.48	0.02	491	8.0	110	8.	0.	168.	95.3	14.5	-1.731	8
ARTIST H S	15 116 27CC15	11/1/73	45	120.	0.	64	2.2	0.12	98	2.00	215.	0.0	9.10	0.01	12.0	10.00	0.02	0.06	0.0	411	8.5	304	6.	0.	174.	96.2	17.6	-1.214	8
ARTIST H S	15 116 14CC15	11/1/73	72	0.	98.	84	1.8	0.12	108	1.10	227.	0.0	11.00	0.01	11.0	11.00	0.0	0.06	0.02	335	8.2	149	9.	0.	188.	94.6	15.1	-0.881	8
ARTIST H S	15 116 14CC15	11/1/73	40	0.	0.	84	1.4	0.12	106	2.30	211.	0.0	12.00	0.0	14.0	11.00	0.19	0.02	0.02	347	8.1	139	8.	0.	171.	94.8	15.4	0.461	8
ARTIST H S	15 145 90AA1	4/1/72	21	9.	814.	26	5.6	1.10	35	0.60	88.	0.0	6.30	0.0	2.6	2.40	0.0	0.0	0.0	172	8.0	122	16.	0.	32.	79.8	1.5	1.016	12

CANYON COUNTY

ARTIST H S	15 126 18CA15	5/10/54	20	0.	1895.	40	18.0	6.20	24	1.70	114.	0.0	21.00	0.0	9.9	0.30	0.0	0.0	0.0	258	8.2	179	10.	0.	93.	41.0	1.2	-1.731	0
ARTIST H S	15 126 18CA15	8/27/75	22	67.	0.	24	45.0	7.40	37	1.40	144.	0.0	72.00	0.0	30.0	0.30	0.0	0.0	0.0	493	8.0	295	144.	25.	120.	15.1	1.3	-2.671	9
ARTIST H S	15 126 18CA15	10/1/72	22	0.	0.	15	10.0	4.80	46	6.70	110.	0.0	130.00	0.04	55.0	0.20	1.20	0.0	0.07	610	7.5	407	211.	121.	90.	31.1	1.4	1.711	10
ARTIST H S	15 126 18CA15	10/1/72	25	0.	757.	42	9.1	2.30	88	1.80	200.	0.0	34.00	0.04	12.0	1.40	0.40	0.0	0.0	420	8.2	296	12.	0.	164.	81.8	6.7	-0.192	10
ARTIST H S	15 126 18CA15	6/1/72	51	97.	2449.	38	1.5	0.10	110	0.80	279.	0.0	59.00	0.04	11.0	4.10	0.11	0.0	0.0	589	7.5	363	9.	0.	229.	95.9	15.8	-12.132	1
ARTIST H S	15 126 22CC15	5/1/54	10	0.	2942.	59	40.0	11.00	55	6.40	242.	0.0	62.00	0.0	7.9	0.50	0.0	0.0	0.0	509	8.2	160	145.	0.	198.	43.8	2.0	-0.551	9
ARTIST H S	15 126 22CC15	8/27/75	27	54.	0.	50	19.0	11.00	55	4.90	181.	0.0	88.00	0.0	16.0	0.50	0.0	0.0	0.0	513	7.9	354	143.	0.	150.	44.4	2.0	0.332	9
ARTIST H S	15 126 22CC15	10/1/72	28	122.	568.	49	11.0	0.10	53	2.00	160.	0.0	2.60	0.04	5.4	1.50	0.04	0.0	0.09	280	7.7	201	28.	0.	131.	79.1	4.4	-0.058	10
ARTIST H S	15 126 22CC15	10/1/72	20	131.	1028.	29	19.0	1.90	37	1.60	140.	0.0	11.00	0.04	6.9	0.80	0.30	0.0	0.05	250	7.6	176	55.	0.	115.	58.6	2.2	-1.731	10

CARIBOU COUNTY

ARTIST H S	15 140 14CC15	8/27/73	26	0.	4.	31	674.0	245.00	147	217.00	2357.	0.0	1132.00	0.0	110.0	3.70	0.06	1.30	0.47	470	6.2	1720	2689.	758.	1932.	9.7	1.2	0.210	8
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Table 1 - Chemical Analyses of Thermal Water from Selected Springs and Wells in Idaho (continued)

Name of Well Number and Name	Sample Collection Date	Major Ion Concentration (mg/L)	Fluoride and Chloride from Lactate (mg/L)	Dissolved Oxygen (mg/L)	Iron (mg/L)	Calcium (Ca) (mg/L)	Magnesium (Mg) (mg/L)	Sulfate (SO4) (mg/L)	Potassium (K) (mg/L)	Sulfonate (HSO3) (mg/L)	Carbonate (CO3) (mg/L)	Bicarbonate (HCO3) (mg/L)	Phosphate (PO4) (mg/L)	Chloride (Cl) (mg/L)	Fluoride (F) (mg/L)	Nitrate (NO3) (mg/L)	Barium (Ba) (mg/L)	Ammonia (NH3) (mg/L)	Sulfide Concentration (mg/L)	pH (mg/L)	Total Dissolved Solids (TDS) (mg/L)	Hardness		Alkalinity as CaCO3 (mg/L)	Percent Sulfate (% Na)	Sulfate Absorption Ratio (SAR)	Chloride Absorption Ratio	Diss. Residue	
																						Calcium	Non-Calcium						
<u>CARIBU COUNTY (continued)</u>																													
ICHOPT SERVIC # 5 412 10AC15 10/11/73	23	0.	548.	25	212.0	58.00	26	14.00	956.	0.0	70.00	0.0	28.0	2.10	0.01	0.01	0.00	146	6.2	975	817.	34.	793.	6.3	0.4	-0.559	7		
PAL CREEK L 41 412 10AC15 9/12/73	42	40.	548.	24	701.0	263.00	101	217.00	2845.	0.0	898.00	0.0	41.0	2.10	0.16	1.20	0.52	4519	6.5	1670	2810.	449.	2111.	6.8	0.8	0.181	7		
PAL CREEK L 42 412 10AC15 9/12/73	41	17.	197.	30	420.0	246.00	97	242.00	2761.	0.0	904.00	0.01	41.0	3.50	0.24	1.90	0.47	4519	6.8	1548	2558.	294.	2264.	6.8	0.8	-3.111	7		
PAL CREEK L 43 412 10AC15 9/12/73	41	56.	74.	16	497.0	261.00	101	233.00	2733.	0.0	896.00	0.0	40.0	2.40	0.14	1.10	0.52	4589	6.6	1601	2820.	549.	2231.	6.8	0.8	1.331	7		
PAL CREEK L 44 412 10AC15 9/12/73	36	64.	42.	19	440.0	251.00	99	231.00	2403.	0.0	884.00	0.0	40.0	2.50	0.15	1.20	0.51	4399	6.6	1568	2660.	363.	2297.	6.8	0.8	-1.424	7		
TRUMP RIVER # 3 36F 26CHO15 8/23/77	34	0.	189.	30	280.0	64.00	81	62.00	1040.	0.0	270.00	0.04	62.0	0.80	0.0	0.0	0.11	2399	6.2	1379	962.	91.	869.	16.5	1.1	-0.806	10		
A SPRINGS CRYSTAL 41F 12AC15 9/ 2/73	24	0.	6.	35	951.0	191.00	12	23.00	2613.	0.0	801.00	0.0	5.7	1.60	0.21	0.06	0.05	1959	6.5	3207	2917.	776.	2141.	0.8	0.1	-0.258	7		
<u>CASSIA COUNTY</u>																													
S BANCH L 41 24F 10CC15 7/26/72	60	136.	1911.	60	8.2	0.50	110	3.90	125.	0.0	59.00	0.0	55.0	14.00	0.0	0.0	0.0	574	7.7	172	23.	0.	102.	89.7	10.1	-2.726	3		
S BANCH L 42 24F 10CC15 8/ 5/75	32	0.	5095.	46	11.0	0.50	34	3.90	141.	0.0	29.00	0.0	5.9	1.60	0.0	0.0	0.0	310	7.9	222	79.	0.	117.	86.7	1.7	-1.420	9		
TEMPLE WELLS 26F 22AC15 7/25/75	35	0.	5095.	47	11.0	0.40	14	4.10	141.	0.0	11.00	0.0	20.0	1.40	0.0	0.0	0.0	0	7.6	220	79.	0.	116.	86.7	1.7	-1.418	9		
S BANCH L 42 23F 10AC15 9/ 0/76	29	0.	0.	79	24.0	7.20	100	0.0	210.	0.0	14.00	0.0	90.0	1.40	0.90	0.0	0.0	655	7.6	432	94.	0.	188.	89.7	4.5	-4.275	1		
DUPREE WELLS 24F 22AC15 9/ 0/76	30	0.	0.	18	22.0	5.40	19	0.0	84.	0.0	11.00	0.0	22.0	1.40	0.80	0.0	0.0	238	7.3	147	73.	0.	77.	14.9	0.9	-1.515	1		
S SPRINGS 24F 10CC15 8/ 8/75	21	0.	322.	45	14.0	0.60	14	3.00	92.	0.0	9.50	0.0	25.0	0.50	0.0	0.0	0.0	217	8.2	176	87.	12.	75.	25.0	0.7	-1.118	9		
21F 10AC15 7/26/72	43	0.	189.	43	14.0	1.10	44	9.60	144.	0.0	15.00	0.01	7.0	1.30	0.01	0.0	0.0	242	8.0	209	19.	0.	118.	84.9	1.0	-0.261	1		
PI H S 23F 27CC15 10/26/72	47	0.	14.	70	2.7	0.0	47	2.20	43.	29.00	22.00	0.03	91.0	8.00	0.04	0.0	0.0	421	9.6	285	7.	0.	84.	95.2	14.6	-0.452	3		
S SPRING 25F 10AC15 8/ 5/75	28	0.	662.	22	29.0	7.50	15	3.30	120.	0.0	10.00	0.0	19.0	0.40	0.0	0.0	0.0	270	8.2	165	103.	5.	98.	23.3	0.6	0.165	9		
FRYBRIGHT WELLS 26F 10AC15 02/02/07	37	1982.	178.	66	5.0	12.00	14	2.50	116.	124.00	27.00	0.01	62.0	0.0	1.20	1.00	0.0	10000	8.4	368	62.	0.	102.	31.9	0.8	-42.043	10		
LD WIGHT WELLS 24F 10CA15 8/14/77	61	0.	0.	81.	1.0	0.20	170	2.90	240.	34.00	25.00	0.0	72.0	7.30	0.50	0.0	0.08	600	9.3	515	3.	0.	257.	98.1	40.6	-3.493	12		

HAROLD WARD WELL #1 155 272 240001	7/28/75	24	0.	1399.	90	55.0	2,220	170	29.00	131.	0.0	23.00	0.0	100.0	1.10	0.0	0.0	0.0	960	7.8	734	146.	39.	107.	66.0	6.1	-0.457	9
MORRIS MITCHELL WELL #2 155 216 250001	9/22/77	46	0.	18.	28	2.0	0.10	110	1.80	230.	11.00	21.00	0.07	17.0	2.40	0.03	0.0	0.00	475	8.7	106	5.	0.	207.	96.9	20.6	-2.673	10
HAROLD WARD WELL #2 155 247 220001	7/25/72	18	152.	178.	44	17.0	9.10	70	3.10	169.	0.0	31.00	0.01	80.0	2.90	0.46	0.0	0.0	606	7.4	162	131.	0.	119.	53.1	2.7	-1.177	1
ILW 155 242 240001	10/7/76	60	0.	0.	48	1.6	0.10	120	3.40	65.	20.00	40.00	0.0	82.0	7.60	0.0	0.0	0.0	540	8.9	176	0.	0.	87.	95.0	17.0	1.840	4
ILW 155 268 120001	12/5/74	26	0.	0.	48	100.0	1.40	2000	270.00	58.	0.0	45.00	0.0	1900.0	3.90	0.0	0.0	0.88	998	7.8	6616	754.	707.	48.	19.8	31.7	-1.427	0
ILW 155 267 220001	12/6/74	82	0.	189.	56	55.0	0.50	1300	14.00	61.	0.0	52.00	0.0	2000.0	5.00	0.0	0.0	0.04	6609	8.0	3514	142.	90.	52.	94.7	47.5	0.742	9
IVAN DARRINGTON WELL #1 155 247 210001	10/21/75	65	0.	15.	140	81.0	1.00	400	17.00	63.	0.0	40.00	0.0	680.0	9.10	0.0	0.0	0.0	1879	8.1	1381	111.	60.	52.	84.6	16.5	-2.265	9
CRAZIER H S WELL 155 247 210001	5/18/72	95	126.	220.	90	51.0	0.40	560	22.00	55.	0.0	57.00	0.0	900.0	5.70	0.54	0.0	0.0	3049	7.4	1715	134.	89.	65.	88.1	21.1	-0.181	3
HARRIET FRANK WELL 155 246 210001	5/18/72	90	165.	227.	97	110.0	0.40	1110	35.00	16.	0.0	61.00	0.01	1900.0	14.00	0.57	0.0	0.0	6089	7.7	1365	326.	296.	10.	86.7	26.7	-0.474	1
IVAN DARRINGTON WELL #1 155 247 210001	7/30/75	13	0.	0.	53	140.0	8.10	450	19.00	174.	0.0	69.00	0.0	820.0	2.30	1.10	0.0	0.0	2459	7.0	1648	181.	241.	143.	70.6	10.0	0.265	12
LEO STEWART WELL 155 247 240001	7/24/75	12	0.	1399.	47	100.0	6.10	380	16.00	177.	0.0	65.00	0.0	650.0	1.90	0.0	0.0	0.0	2179	7.3	1451	275.	130.	145.	73.6	10.0	-0.584	9
IVAN DARRINGTON WELL #4 155 267 240001	7/28/75	11	0.	1399.	55	88.0	2.10	340	16.00	161.	0.0	52.00	0.0	560.0	2.50	0.0	0.0	0.0	1839	7.5	1199	249.	117.	132.	73.3	9.4	1.291	9
ILW 155 247 250001	1/14/75	10	0.	83.	88	35.0	3.40	370	14.00	176.	0.0	32.00	0.0	570.0	2.80	0.0	0.0	0.21	1949	7.7	1222	103.	0.	144.	84.6	15.8	-2.119	9
ILW 155 247 500001	3/28/75	40	0.	151.	37	58.0	0.00	240	11.00	138.	0.0	44.00	0.0	380.0	4.40	0.0	0.0	0.14	1539	6.8	853	192.	65.	113.	72.5	7.7	0.971	9

CLARK COUNTY

LOU H S #1 04 117 280015	8/25/72	40	0.	466.	14	87.0	16.00	27	15.00	179.	0.0	190.00	0.01	8.0	8.00	0.02	0.0	0.0	691	6.3	471	281.	116.	147.	16.3	0.7	-1.485	3
LOU H S #2 04 117 150001	8/22/72	58	149.	681.1	17	55.0	14.00	24	12.00	140.	0.0	100.00	0.01	7.1	4.40	0.0	0.0	0.06	490	7.6	147	195.	47.	148.	19.9	0.7	-2.047	10
IVAN SPRINGS 14 127 250015	8/28/72	29	0.	7267.	17	54.0	16.00	9	2.90	209.	0.0	62.00	0.07	5.3	1.00	0.17	0.0	0.0	457	7.0	274	211.	42.	171.	9.0	0.3	-2.295	3

CUSTER COUNTY

OWENS H S 14 117 340015	8/17/72	43	0.	76.	62	22.0	4.50	84	8.40	139.	0.0	110.00	0.0	12.0	12.00	0.0	0.0	0.0	549	7.3	383	71.	0.	114.	66.5	4.1	-2.152	11
EMMONS H S 04 147 270015	7/7/72	60	0.	49.	70	1.8	0.10	73	1.00	31.	35.00	31.00	0.0	7.8	19.00	0.0	0.0	0.0	331	9.0	251	5.	0.	84.	96.3	14.3	-1.652	11
FSE PASS H S 04 117 120015	7/17/72	51	0.	95.	41	21.0	5.50	100	13.00	234.	0.0	94.00	0.07	26.0	8.40	0.06	0.0	0.0	651	6.7	426	75.	0.	192.	70.4	5.0	-4.116	3
TANLEY H S 04 117 340015	7/12/72	41	0.	416.	55	2.2	0.10	60	0.50	10.	28.00	31.00	0.01	5.0	14.00	0.05	0.0	0.0	293	8.8	210	6.	0.	71.	95.2	10.7	-6.047	3
LATE CHIFF H S 04 147 100015	7/11/72	50	0.	300.	86	8.1	0.10	93	4.50	110.	0.0	110.00	0.02	7.0	8.70	0.03	0.0	0.0	437	8.0	161	21.	0.	90.	87.3	8.0	-7.145	3
LAHORN H S 14 117 340015	9/2/74	67	0.	0.	75	1.0	0.10	72	2.40	20.	18.00	12.00	0.0	6.0	16.50	0.0	0.0	0.0	328	9.6	252	4.	0.	80.	95.8	16.2	-0.602	1
ASIN CHIFF H S 14 147 210015	7/7/72	38	0.	0.	88	2.1	0.0	62	1.20	73.	15.00	38.00	0.0	4.1	14.00	0.0	0.0	0.0	304	8.8	255	5.	0.	77.	95.2	11.8	-6.077	9





WYCKOFF CL 45 37		186	0	48	23.0	4.10	27	5.40	146	0.0	19.00	0.01	0.1	1.00	0.78	0.0	0.0	104	0.0	229	91	0	118	32.5	1.7	0.507	12	
WYCKOFF 42 6/72	38	574	10	84	1.2	0.20	160	1.70	447	0.0	5.40	0.04	10.0	1.66	0.04	0.0	0.0	701	7.8	491	9	0	164	96.3	21.5	-4.514	3	
ELL DAVIS WFL 45 37 14C41	8/29/72	62	354	0	85	0.9	0.0	82	0.80	81	43.00	14.00	0.01	1.2	14.00	0.05	0.0	0.0	387	9.2	282	2	0	135	94.2	23.8	-4.074	1
JOE LAWSON WFL 58 1F 14C41	7/23/73	59	701	218	81	2.4	0.0	41	0.80	64	42.00	10.00	0.04	19.0	23.00	0.0	0.0	0.10	419	9.6	300	6	0	124	96.4	14.2	-1.904	5
THE WINNELL WFL 55 3F 14A41	8/10/76	21	137	0	73	51.0	14.00	33	7.90	202	0.0	37.00	0.02	12.0	1.10	0.15	0.0	0.0	515	7.8	168	185	19	186	26.9	1.1	-0.004	12
HARLES ROID WFL 55 4F 14A41	7/5/72	14	402	0	56	9.1	1.00	120	11.00	797	0.0	6.50	0.04	59.0	7.20	0.04	0.0	0.0	1339	7.7	858	27	0	651	94.5	24.9	-0.412	3
AGRIC WEST OL WFL 55 10F 12A41	6/22/72	14	285	204	44	7.5	0.20	130	0.90	270	8.00	7.50	0.01	29.0	13.00	0.06	0.0	0.0	590	7.9	364	7	0	235	97.2	21.3	-3.885	3
HARLES ANDERSON WFL 55 11F 14C41	6/19/72	12	394	0	47	2.5	0.0	79	0.90	115	14.00	12.00	0.01	6.1	20.00	0.01	0.0	0.0	367	8.5	715	6	0	121	95.4	11.8	-4.459	1

FRANKLIN COUNTY

BRASHTON M S #1 25 40F 14C41	9/7/73	15	0	18	54	245.0	48.00	543	127.00	704	0.0	784.00	0.01	432.0	7.20	0.91	1.10	3.40	4149	6.6	2846	441	344	577	57.4	8.0	0.771	4
BRASHTON M S #2 25 40F 14A41	9/7/73	13	0	14	52	250.0	44.00	517	137.00	704	0.0	755.00	0.01	433.0	1.96	0.37	1.20	3.40	4199	6.6	2165	908	112	437	50.0	7.4	-1.101	4
LEFFLAND M S #1 25 41F 11C41	9/7/73	66	0	76	60	204.0	40.00	458	94.00	718	0.0	513.00	0.01	512.0	1.90	0.11	1.40	2.80	3229	6.4	2294	325	136	588	54.0	7.4	-1.314	6
LEFFLAND M S #2 25 41F 11C41	9/7/73	56	0	14	63	172.0	40.00	460	100.00	583	0.0	518.00	0.01	512.0	1.96	0.74	0.80	2.80	3189	6.5	2204	435	153	478	56.7	7.9	-0.856	6
LEFFLAND M S #3 25 41E 11C41	9/7/73	61	0	189	64	174.0	50.00	460	102.00	574	0.0	530.00	0.01	530.0	1.90	0.21	1.50	2.90	3339	6.5	2199	650	178	472	54.2	7.9	0.194	6
APPLE GROVE M S 15 41F 14C41	9/7/73	78	0	74	84	85.0	30.00	492	42.00	494	0.0	254.00	0.01	584.0	1.10	0.07	1.40	2.10	2909	6.4	1969	115	0	405	70.8	11.7	-0.057	6
APPLE GROVE M S 15 41F 14C42	9/7/73	72	0	374	85	91.0	28.00	531	42.00	495	0.0	241.00	0.02	601.0	1.10	0.12	1.10	2.10	2979	6.4	1896	151	0	406	70.5	11.4	0.470	5
APPLE GROVE M S 15 41F 14C41	9/7/73	60	0	1514	84	91.0	25.00	442	40.00	494	0.0	251.00	0.01	584.0	1.00	0.04	0.90	2.10	2899	6.4	1854	115	0	405	71.0	11.7	0.484	6
FM WFL 15 19E 14A41	9/7/73	40	4	0	58	24.0	4.60	368	22.00	513	0.0	13.00	0.01	322.0	9.80	0.10	1.10	0.58	1809	6.9	1104	87	0	420	57.4	17.2	0.144	6
JOHN BINGHAM 15 19F 12A41	8/24/73	43	0	38	64	120.0	34.00	460	370.00	930	0.0	48.00	0.12	3800.0	1.90	0.0	0.0	4.40	2399	6.2	14101	944	184	742	43.8	65.0	0.449	10
LITTLE CREEK M S 15 19F 14C41	9/7/73	82	0	184	109	174.0	19.00	3161	552.00	694	0.0	35.00	0.01	5241.0	6.00	0.11	7.40	3.50	16419	6.7	9419	512	0	570	44.9	60.4	0.411	6
LITTLE CREEK M S 15 19E 14C42	9/7/73	41	0	434	107	144.0	15.00	3071	515.00	697	0.0	29.00	0.01	5048.0	6.00	0.42	7.10	3.40	15419	6.5	9120	474	0	571	45.2	61.2	0.746	4
LITTLE CREEK M S 15 19E 14C41	9/7/73	81	0	0	109	142.0	19.00	3051	511.00	757	0.0	37.00	0.01	5034.0	6.00	0.28	7.20	3.40	15949	6.5	9125	442	0	620	45.1	60.5	0.314	6
LITTLE CREEK M S 15 19E 14C42	9/7/73	84	0	14	97	215.0	24.00	4184	484.00	610	0.0	33.00	0.01	4967.0	6.40	0.04	10.60	5.30	18479	6.8	12517	415	135	500	45.7	72.2	1.255	6
JOHN M S WFL 15 19F 14C41	9/7/73	44	2	435	124	274.0	24.00	4348	742.00	791	0.0	35.00	0.02	3198.0	4.30	0.17	8.10	4.30	20459	6.5	13401	395	147	448	44.1	67.4	0.434	6
JOHN M S 15 19E 13A41	8/22/73	69	0	140	124	271.0	23.00	4184	704.00	814	0.0	27.00	0.03	4477.0	4.30	0.14	7.30	4.20	20519	6.5	12421	771	102	669	44.4	65.4	1.414	6
JOHN M S 15 19E 14C42	9/11/73	71	0	450	124	241.0	26.00	3844	531.00	866	0.0	23.00	0.02	4194.0	4.80	0.04	9.70	4.40	16859	6.6	11419	704	0	710	45.7	62.8	0.644	6
MON FDNHESPECK LL 15 19F 14A41	9/7/73	23	48	4444	74	74.0	27.00	68	14.00	418	0.0	4.30	0.01	91.0	0.50	0.08	0.10	0.42	889	6.8	546	106	0	343	31.0	1.7	-0.017	4

Table 1 - Chemical Analyses of Thermal Water from Selected Springs and Wells in Idaho (continued)

Spring or Well Name, Location and Owner	Sample Collection Date	Number of Analyses	Temperature (°C)	pH	Total Dissolved Solids (mg/l)	Calcium (Ca)	Magnesium (Mg)	Sulfate (SO <sub>4</sub> ) (mg/l)	Chloride (Cl)	Nitrate (NO <sub>3</sub> ) (mg/l)	Iron (Fe) (mg/l)	Zinc (Zn) (mg/l)	Copper (Cu) (mg/l)	Manganese (Mn) (mg/l)	Silica (mg/l)	Total Dissolved Solids (TDS) (mg/l)	Hardness		Aluminum (Al) (mg/l)	Potassium (K) (mg/l)	Sodium (Na) (mg/l)	Total Hardness (mg/l)	Calcium Chloride (mg/l)	Total Hardness (mg/l)			
																	Calcium	Magnesium									
<u>FREMONT COUNTY</u>																											
ONALD THOMP WELLS 7N 41E 25C00E1 7/20/76	32	0.	0.	76	23.0	3.30	89	12.00	181.	0.0	26.00	0.0	25.0	4.70	0.0	0.0	0.0	526	7.8	348	71.	0.	148.	68.9	4.5	9.429	4
RYNK LARSEN WELLS 7N 41E 24C0E1 07/07/0	22	0.	0.	94	19.0	2.70	93	12.00	243.	0.0	23.00	0.0	28.0	7.10	0.0	0.0	0.10	531	8.1	198	50.	0.	109.	73.3	5.1	-1.445	11
EMRY HARRIS WELLS 7N 41E 34C0E1 6/16/77	33	0.	0.	64	25.0	5.90	69	6.90	204.	0.0	26.00	0.0	22.0	5.70	0.83	0.0	0.15	450	7.8	125	87.	0.	167.	61.1	3.2	0.083	12
FDOLF CITY WELLS 7N 41E 34C0E1 07/07/0	32	80.	0.	71	11.0	6.40	71	6.60	216.	0.0	0.0	0.0	29.0	4.70	0.0	0.0	0.10	535	8.0	339	104.	0.	193.	54.1	3.1	4.704	13
ALLACK LITTLE WELLS 7N 41E 35C0E1 6/9/72	16	122.	0.	75	28.0	6.10	78	8.20	240.	0.0	33.00	0.02	24.0	5.40	0.79	0.0	0.0	538	7.9	377	96.	0.	197.	111.4	3.5	-0.653	3
LAUDY HAYS WELLS 7N 41E 30D0E1 6/24/76	32	0.	0.	68	24.0	7.10	44	4.90	188.	0.0	16.00	0.0	12.0	3.00	0.0	0.0	0.0	375	7.5	271	90.	0.	154.	60.9	2.0	-1.575	9
FAW SWINDELMAN WELLS 7N 42E 04C0E1 6/22/76	32	0.	0.	65	18.0	14.00	22	4.80	205.	0.0	8.80	0.0	14.0	2.00	0.0	0.0	0.0	384	7.6	269	152.	0.	168.	23.2	0.8	0.392	9
WINGTON PRODUCE WELLS 7N 42E 19C0E1 7/19/76	26	0.	0.	33	15.0	17.00	35	2.20	144.	0.0	22.00	0.0	24.0	2.20	0.0	0.0	0.0	383	7.9	221	157.	39.	118.	16.9	0.5	3.179	9
IMTON M S 7N 42E 23D0E1 8/28/72	41	0.	0.	110	1.1	0.10	36	1.60	97.	0.0	4.70	0.05	2.9	2.20	0.24	0.0	0.0	166	7.6	204	3.	0.	75.	93.8	8.8	-4.593	3
IG SPRINGS 7N 42E 34C0E1 6/28/72	12	0.	0.0000	47	5.6	0.40	14	1.00	46.	0.0	3.20	0.03	2.5	3.10	0.05	0.0	0.0	102	6.4	101	16.	0.	34.	60.0	1.5	-4.656	3
<u>GEM COUNTY</u>																											
ISTONF M S N 1E 00D0E1 11/24/72	55	0.	76.	120	8.7	0.60	160	7.70	147.	0.0	110.00	0.04	67.0	16.00	0.0	0.0	0.0	799	7.5	576	24.	0.	153.	93.1	14.2	-2.421	3
ST BRISTONF M S N 1E 00D0E1 8/7/72	45	0.	0.	94	15.0	2.40	49	5.10	149.	0.0	57.00	0.02	10.0	4.00	0.67	0.0	0.0	529	7.6	394	43.	0.	138.	38.9	6.3	1.154	3
<u>GOODING COUNTY</u>																											
SHANNON WELLS S 1E 28A0E1 6/21/72	47	49.	0.	92	9.8	1.20	100	5.40	278.	0.0	19.00	0.05	8.2	12.00	0.49	0.0	0.0	497	7.0	385	29.	0.	228.	85.5	8.0	-7.062	3
11E BRONF M S S 1E 30A0E1 5/24/72	65	0.	3126.	97	7.2	0.0	91	1.60	141.	22.00	15.00	0.03	6.6	12.00	0.11	0.0	0.0	497	7.5	315	3.	0.	152.	97.5	22.9	-1.544	3
VE ANCHER WELLS S 1E 34A0E1 6/19/72	47	211.	0.	42	1.6	0.10	40	0.80	83.	42.00	19.00	0.03	8.4	19.00	0.17	0.0	0.0	413	8.6	283	4.	0.	138.	97.3	18.7	-4.755	8
<u>IDAHO COUNTY</u>																											
POPOFF M S N 4E 18D0E1 8/2/72	45	0.	411.	71	2.3	0.0	49	0.80	19.	41.00	18.00	0.02	3.0	2.00	0.03	0.0	0.0	218	8.1	198	6.	0.	84.	94.0	8.9	0.067	3
COONS M S N 2E 14D0E1 8/1/72	42	0.	189.	72	6.2	0.10	160	3.40	11.	75.00	300.00	0.02	8.0	2.10	0.02	0.0	0.0	812	8.6	582	14.	0.	51.	94.5	12.5	-1.703	3
VEN M S N 1E 18D0E1 07/07/0	61	0.	742.	70	1.6	0.0	50	0.50	51.	29.00	5.30	0.0	3.6	5.70	0.0	0.0	0.0	0	9.0	190	4.	0.	90.	95.9	10.9	-1.100	2

VED HISSP H S 149 10F 10DD15	8/21/72	55	0.	132.	76	2.7	0.0	81	1.60	36.	36.00	44.00	0.01	4.4	23.00	0.04	0.0	0.0	380	8.6	288	7.	0.	89.	95.1	13.6	-4.610	1
ICP CHFFA H S 149 11F 11PCC15	8/21/72	48	0.	151.	48	3.1	0.0	29	0.50	21.	22.00	15.00	0.03	2.1	2.20	0.03	0.0	0.0	148	8.5	133	8.	0.	54.	87.7	4.4	-4.667	1
IPRBY JOHNSON H S 149 11F 11ADDD15	4/21/72	48	0.	1135.	49	2.7	0.20	17	0.40	24.	25.00	25.00	0.04	1.9	1.60	0.03	0.0	0.0	176	8.7	154	8.	0.	61.	90.9	5.0	-3.615	1

JEFFERSON COUNTY

IFISE H S 48 40F 25DDA15	7/27/72	49	0.	227.	30	450.0	82.00	1500	190.00	1100.	0.0	740.00	0.04	2400.0	1.10	0.10	0.0	0.0	8839	6.7	5936	1460.	558.	901.	65.7	17.1	-1.000	1
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JEROME COUNTY

DEAL CATFISH MOUSTRE 85 17E 29DD15	5/24/71	41	0.	88888	74	2.2	0.0	98	1.40	100.	42.00	17.00	0.10	16.0	11.00	0.0	0.0	0.0	454	9.0	315	5.	0.	158.	76.4	18.2	-1.775	9
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LEFLO COUNTY

HONES CANTON H S 149 21F 11ADDD15	8/24/72	46	0.	76.	33	11.0	1.40	160	11.00	339.	0.0	66.00	0.04	24.0	1.00	0.06	0.0	0.0	357	3.4	486	31.	0.	278.	88.0	12.1	-1.016	1
LEUCH H S 149 27F 11ADDD15	8/24/72	45	0.	548.	33	21.0	11.00	190	28.00	565.	0.0	14.00	0.04	50.0	1.80	0.03	0.0	0.0	1059	6.1	649	101.	0.	461.	74.9	6.2	-1.960	1
LEWEL H S 149 24F 11ADDD15	8/24/72	42	0.	30.	81	7.3	0.60	270	17.00	470.	0.0	160.00	0.07	51.0	12.00	0.08	0.0	0.0	1269	7.4	840	71.	0.	385.	73.1	25.8	-2.185	1
G CHFFA H S 149 18E 22CDD15	7/11/72	91	0.	284.	150	5.1	0.20	220	16.00	488.	0.0	53.00	0.05	79.0	15.00	0.07	0.0	0.0	1009	7.5	726	14.	0.	400.	93.7	25.5	-2.482	1

MADISON COUNTY

VERE RICH'S HELL 149 40F 10PCC15	07/07/0	21	98.	0.	42	14.0	12.00	18	3.10	174.	0.0	11.00	0.0	20.0	1.10	0.0	0.0	0.0	341	3.9	226	134.	0.	141.	22.1	0.7	-2.165	4
RA RICH'S HELL 149 40F 10PCC15	6/15/72	20	0.	0.	50	13.0	11.00	20	3.90	170.	0.0	12.00	0.0	12.0	1.70	0.41	0.0	0.01	0	3.6	227	128.	0.	139.	24.7	0.6	0.688	4
ULICE SMITH HELL 149 40F 10PCC15	07/07/0	21	140.	0.	46	17.0	15.00	14	2.70	189.	0.0	11.00	0.0	16.0	0.60	0.0	0.0	0.0	163	8.0	229	154.	0.	155.	16.2	0.5	-0.920	13
EPN CANTON H S 149 41F 10PCC15	8/18/72	44	0.	0.	25	14.0	12.00	1	3.60	167.	0.0	330.00	0.03	1.7	1.60	0.11	0.0	0.0	846	6.8	620	491.	346.	137.	1.7	0.1	0.412	1
LE FENTW. C. HELL 149 41F 10PCC15	07/07/0	20	0.	0.	65	11.0	6.90	65	9.00	212.	0.0	26.00	0.0	27.0	1.70	0.0	0.0	0.10	492	7.7	347	100.	0.	190.	54.7	2.7	-1.965	11
NDA WOOD LL #1 149 41F 10PCC15	07/07/0	24	81.	0.	66	11.0	7.20	64	8.60	240.	0.0	0.0	0.0	24.0	1.50	0.0	0.0	0.10	493	8.0	324	112.	0.	197.	53.1	2.6	4.162	11
NDA WOOD LL #2 149 41F 10PCC15	4/16/77	27	0.	0.	80	11.0	7.60	70	8.50	217.	0.0	26.00	0.0	25.0	4.60	1.10	0.0	0.13	470	7.6	360	109.	0.	178.	56.0	2.9	3.028	12

OSIDA COUNTY

IT H S 1 14E 10PCC15	5/17/72	24	0.	715.	31	56.0	18.00	15	4.30	226.	0.0	18.00	0.0	15.0	0.30	0.71	0.0	0.0	479	6.7	292	218.	11.	185.	12.7	0.4	0.293	3
AD H S 1 16F 27CDD15	5/16/72	25	0.	167.	19	240.0	70.00	1700	210.00	958.	0.0	25.00	0.0	2100.0	0.40	0.95	0.0	0.0	7589	6.5	4345	924.	139.	385.	66.6	17.2	0.370	1
ASANTER H S 1 16E 30PCC15	5/16/72	25	0.	88888	21	110.0	11.00	290	29.00	331.	0.0	150.00	0.0	470.0	0.70	1.50	0.0	0.0	2189	6.8	1217	410.	139.	271.	57.7	6.0	0.229	1
OPUFF H S 1 16F 10PCC15	5/11/72	21	0.	0.	29	110.0	45.00	910	7.00	454.	0.0	59.00	0.03	1600.0	0.60	1.40	0.0	0.0	5369	7.3	3084	509.	137.	372.	76.1	17.5	-1.716	3

Table 1. Chemical Analysis of Ground Water from Selected Springs and Wells in Idaho (continued)

Spring or Well Name, Location and Number	Sample Collection Date	Sample No.	Depth (ft)	pH	Temperature (°C)	Total Dissolved Solids (TDS) (mg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sulfate (SO <sub>4</sub> ) (mg/l)	Nitrate (NO <sub>3</sub> ) (mg/l)	Phosphate (PO <sub>4</sub> ) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)	Nitrite (NO <sub>2</sub> ) (mg/l)	Iron (Fe) (mg/l)	Ammonia (NH <sub>3</sub> ) (mg/l)	Sulfide (S <sup>2-</sup> ) (mg/l)	Total Dissolved Solids (TDS) (mg/l)	Hardness		Alkalinity as CaCO <sub>3</sub> (mg/l)	Percent Sodium (% Na)	Sodium, Chloride and Sulfate (mg/l) (NaCl)	Calcium Arsenate Balance	Diss. Residue *		
																			Calcium	Non-Calcium							
<u>OWYHEE COUNTY</u>																											
EVANS # 3 14 34 218AD1	5/2/73	49	0.	7.5	1.0	0.0	126	1.40	150.	15.00	11.00	0.0	23.0	14.00	0.20	0.0	0.0	582	9.3	186	2.	0.	181.	94.5	14.1	-0.890	1
ESLEY HIGGINS WELL 19 44 120AD1	6/11/72	16	195.	1552.	40	2.2	0.0	110	0.30	214.	0.0	8.60	0.01	28.0	7.90	0.04	0.0	481	7.2	102	5.	0.	175.	97.6	20.4	0.074	3
IRL ROOTS WELL 13 24 7CC1	6/2/72	45	518.	640.	32	1.8	0.0	120	1.20	187.	12.00	45.00	0.01	19.0	11.00	0.04	0.0	545	8.7	114	5.	0.	173.	17.7	24.0	-1.231	3
JAYD HATHROD WELL 15 19 150AD1	7/24/73	20	91.	0.	55	41.0	8.96	15	6.00	244.	0.0	25.00	0.07	7.7	2.10	0.01	0.0	440	7.8	104	148.	0.	292.	12.8	1.1	-3.194	5
ILLIAN COA LL #1 15 19 25CC1	7/24/73	10	0.	19.	120	25.0	2.40	110	29.00	952.	0.0	5.50	0.25	25.0	0.60	0.02	0.0	1419	7.3	984	74.	0.	380.	95.8	15.4	-2.564	5
ILLIAN COA LL #2 15 19 26AD1	6/2/73	27	518.	189.	96	11.0	2.40	250	29.00	743.	0.0	1.60	0.16	11.0	0.60	0.01	0.0	1159	7.1	781	44.	0.	425.	87.0	18.4	-2.177	5
AGDOCK WELL 19 19 28CC1	6/2/73	70	927.	5662.	81	1.2	0.0	100	0.80	48.	51.00	19.00	0.01	12.0	12.00	0.0	0.0	476	9.2	112	3.	0.	187.	98.2	25.1	-2.254	5
URGE KING WELL 5 16 34AD1	6/2/72	75	992.	0.	83	1.3	0.20	98	0.70	108.	13.00	40.00	0.01	12.0	12.00	0.05	0.0	458	7.9	111	4.	0.	144.	93.9	22.4	-3.543	3
EXISTING SPR LL #1 5 24 29AD1	7/27/73	28	105.	14.	100	21.0	6.40	110	24.00	1010.	0.0	4.50	0.0	11.0	0.30	0.0	0.0	1389	7.4	1014	81.	0.	274.	86.8	15.0	-3.016	5
REDFIELD WELL 5 24 12AC1	7/2/73	43	824.	45.	110	5.8	0.10	150	8.50	343.	0.0	5.20	0.07	17.0	8.70	0.70	0.0	699	8.8	494	17.	0.	114.	92.0	15.7	-2.114	5
STEINER WELL 5 19 14AD1	7/24/73	32	534.	0.	120	27.0	1.10	240	29.00	787.	0.0	7.20	0.22	18.0	0.50	0.0	0.0	1220	7.8	850	73.	0.	445.	81.7	11.1	-0.199	5
LAWRENCE LL #1 5 19 10AD1	6/2/73	64	902.	4542.	83	2.7	0.0	100	0.70	61.	49.00	42.00	0.01	13.0	15.00	0.0	0.0	414	9.1	115	5.	0.	131.	97.1	18.4	-2.591	5
JONESTON LL #2 5 19 21CC1	6/2/73	65	201.	1142.	71	1.3	0.0	100	0.70	51.	50.00	42.00	0.02	11.0	15.00	0.05	0.0	468	9.2	127	3.	0.	110.	98.1	24.2	-2.404	5
LAWRENCE LL #2 5 19 24CC1	7/2/73	65	756.	7446.	88	1.3	0.0	100	1.30	82.	19.00	41.00	0.01	14.0	15.00	0.74	0.0	661	9.1	141	3.	0.	132.	94.0	24.3	-2.766	5
LAWRENCE LL #1 5 19 24AD1	7/24/72	66	951.	4012.	82	1.2	0.10	100	0.80	105.	11.00	45.00	0.21	13.0	14.00	0.04	0.0	459	7.9	114	3.	0.	138.	94.0	23.4	-4.240	3
EAR FIELDS WELL 5 24 11CC1	7/2/73	50	542.	45.	71	1.7	0.0	86	0.60	44.	59.00	7.10	0.0	16.0	15.00	0.36	0.0	421	9.8	285	4.	0.	134.	97.4	18.2	-1.547	5
BRUCE HIGGINS LL #1 5 24 20AD1	6/2/73	37	750.	18.	88	8.9	2.00	250	22.00	675.	0.0	3.40	0.06	25.0	6.40	0.01	0.0	1099	7.5	719	31.	0.	551.	89.9	19.0	-0.315	5
L AND LAWRENCE LL #1 1 24 58CC1	6/2/73	43	813.	284.	110	5.2	1.10	150	6.70	221.	75.00	8.10	0.04	20.0	8.60	0.0	0.0	648	9.3	494	17.	0.	108.	92.6	15.6	-2.214	5
OPESHILL LL #1 1 24 11AD1	6/22/73	21	533.	19.	110	13.0	2.40	240	28.00	767.	0.0	3.20	0.10	30.0	1.50	0.0	0.0	1259	7.6	825	41.	0.	629.	87.8	17.2	-2.750	5
MCREATH WELL 1 24 20AD1	7/13/73	40	718.	0.	110	1.3	0.10	85	0.70	23.	61.00	6.40	0.01	15.0	19.00	0.09	0.0	396	9.0	311	3.	0.	124.	97.9	20.8	-3.594	5

UNIONPT CO. WELL	55	1F	20A001	7/23/73	27	73%	19.	110	42.0	1.90	230	19.00	703.	0.0	4.70	0.11	10.0	0.50	1.40	0.0	0.39	1129	7.2	791	121.	0.	576.	37.5	9.1	0.071	5	
EMOT REARER WELL	55	1F	22A001	6/22/73	25	19%	19.	140	19.0	1.40	250	18.00	681.	0.0	4.00	0.70	18.0	0.70	0.07	0.0	0.20	1279	7.3	809	41.	0.	560.	46.6	13.9	0.490	5	
DOA'S GREENHOUSE																																
DOA'S GREENHOUSE	55	1F	2A001	6/7/73	43	80%	0.	110	2.1	0.0	110	1.70	72.	64.00	42.00	0.02	15.0	15.00	0.01	0.0	0.57	510	9.3	140	5.	0.	124.	97.0	20.9	-0.817	104	
DOA'S GREENHOUSE	55	1F	2B002	6/7/73	67	90%	0.	100	1.5	0.10	110	1.30	15.	55.00	64.00	0.01	15.0	14.00	0.01	0.0	0.55	529	9.3	378	4.	0.	120.	97.5	21.5	-0.151	205	
DOA'S GREENHOUSE	55	1F	21A001	7/11/73	60	84%	0.	89	1.4	0.10	81	0.90	61.	19.00	12.00	0.0	17.0	70.00	0.25	0.0	0.83	403	9.4	271	4.	0.	117.	97.2	17.4	-6.761	5	
DOA'S GREENHOUSE	55	1F	2B001	5/31/73	65	77%	0.	94	0.8	0.0	97	1.30	27.	67.00	9.80	0.02	15.0	21.00	0.0	0.0	0.62	417	9.4	121	2.	0.	134.	94.1	29.9	-1.421	5	
DOA'S GREENHOUSE	55	1F	35001	6/11/73	72	78%	0.	100	2.2	0.0	160	1.10	54.	49.00	72.00	0.03	16.0	15.00	0.01	0.0	0.56	551	9.3	141	5.	0.	126.	96.9	18.6	-7.947	5	
DOA'S GREENHOUSE	55	1F	3A001	7/20/73	27	111%	0.	94	85.0	1.90	81	12.00	227.	0.0	240.00	0.03	18.0	1.70	0.0	0.0	0.13	845	8.3	653	244.	58.	186.	41.0	2.1	-1.235	5	
DOA'S GREENHOUSE	55	1F	1B001	7/11/73	22	76%	0.	40	86.0	66.00	170	6.90	425.	0.0	450.00	0.0	50.0	0.80	5.10	0.0	0.30	1649	7.2	1091	486.	138.	348.	42.8	1.4	-1.695	5	
DOA'S GREENHOUSE	55	1F	1A001	7/11/73	25	27%	0.	87	29.0	12.00	140	26.00	625.	0.0	12.00	0.0	24.0	0.60	0.13	0.0	0.70	1099	7.5	688	122.	0.	512.	72.7	7.5	0.719	5	
DOA'S GREENHOUSE	55	1F	12A001	7/12/73	25	4.	0.	45	17.0	0.50	22	1.60	126.	0.0	15.00	0.01	21.0	0.50	0.56	0.0	0.01	344	7.7	211	127.	24.	104.	27.0	0.0	1.067	5	
DOA'S GREENHOUSE	55	1F	2C001	5/31/73	62	91%	0.	94	1.2	0.0	120	2.80	46.	52.00	45.00	0.07	19.0	17.00	0.01	0.0	0.85	599	9.1	198	1.	0.	157.	97.5	10.7	-1.941	5	
DOA'S GREENHOUSE	55	1F	2C001	7/7/73	51	59%	2725.	100	1.2	0.10	110	4.00	120.	17.00	27.00	0.07	18.0	17.00	0.03	0.0	0.76	504	9.2	171	3.	0.	160.	96.6	25.9	-2.158	5	
DOA'S GREENHOUSE	55	1F	4A001	6/7/73	48	512.	0.	110	1.4	0.0	110	6.40	58.	74.00	42.00	0.07	11.0	12.00	0.0	0.0	0.44	534	9.4	195	4.	0.	171.	45.2	21.9	-2.106	5	
DOA'S GREENHOUSE	55	1F	5A001	6/7/73	61	109%	0.	94	4.4	0.0	59	3.40	74.	12.00	20.00	0.01	9.7	11.00	0.08	0.0	0.15	320	8.6	252	11.	0.	84.	89.0	7.6	-1.200	5	
DOA'S GREENHOUSE	55	1F	1A001	6/7/73	19	434.	6284.	110	1.6	0.10	97	8.10	157.	25.00	42.00	0.04	11.0	9.10	0.0	0.0	0.42	516	8.8	401	9.	0.	170.	91.4	13.4	-4.844	5	
DOA'S GREENHOUSE	55	1F	11A001	7/25/73	14	42%	0.	120	5.6	0.30	86	6.10	155.	0.0	11.00	0.12	11.0	11.00	0.03	0.0	0.40	431	8.4	348	15.	0.	127.	84.0	9.4	0.619	5	
DOA'S GREENHOUSE	55	1F	1A001	5/10/73	54	581.	5402.	140	5.0	0.50	110	4.70	70.	74.00	65.00	0.04	19.0	24.00	0.02	0.0	0.54	581	9.4	451	13.	0.	140.	47.7	11.1	-2.328	5	
DOA'S GREENHOUSE	55	1F	25001	6/26/73	20	534.	141.	71	41.0	2.10	95	13.00	129.	0.0	190.00	0.01	14.0	1.90	0.21	0.0	0.13	702	7.8	494	112.	6.	106.	61.7	1.9	0.012	5	
DOA'S GREENHOUSE	55	1F	1A001	6/26/73	11	101.	0.	96	4.4	0.10	47	8.90	94.	0.0	24.00	0.04	9.0	8.00	0.0	0.0	0.10	271	8.5	244	12.	0.	70.	81.5	5.9	-6.182	5	
DOA'S GREENHOUSE	55	1F	10A001	7/7/73	19	508.	19.	78	2.6	0.10	120	4.10	159.	19.00	24.00	0.02	15.0	29.00	0.04	0.0	0.49	508	8.4	370	8.	0.	162.	95.2	18.8	-2.129	5	
DOA'S GREENHOUSE	55	1F	18001	6/26/73	27	902.	0.	120	3.9	0.10	100	7.10	93.	25.00	52.00	0.01	20.0	13.00	0.11	0.0	0.54	520	7.6	187	10.	0.	118.	91.8	13.7	0.354	5	
DOA'S GREENHOUSE	55	1F	20A001	5/10/73	44	0.	14.	58	4.7	0.10	110	5.60	199.	19.00	1.70	0.04	17.0	24.00	0.0	0.0	0.95	542	8.8	334	12.	0.	192.	92.5	13.7	-4.784	5	
DOA'S GREENHOUSE	55	1F	24A001	6/25/73	14	114.	19.	89	1.6	0.0	120	4.60	149.	21.00	28.00	0.02	11.0	27.00	0.0	0.0	0.57	509	9.1	179	9.	0.	157.	94.6	17.4	-0.156	5	
DOA'S GREENHOUSE	55	1F	24A001	7/25/73	13	591.	0.	79	7.4	0.0	89	2.10	127.	10.00	15.00	0.05	11.0	25.00	0.0	0.0	0.38	418	9.0	126	7.	0.	121.	95.6	16.1	-2.859	5	
DOA'S GREENHOUSE	55	1F	28001	7/7/73	11	474.	19.	120	1.1	0.30	83	6.10	117.	4.00	42.00	0.04	15.0	19.00	0.05	0.0	0.40	435	8.8	158	19.	0.	103.	87.5	8.7	-0.672	5	

Table 1 - Chemical Analyses of Thermal Water from Selected Springs and Wells in Idaho (Continued)

Name of Well Location Number and Name	Date	Temperature (°C)	Temperature (°F)	pH	Total Dissolved Solids (TDS) (mg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sulfate (SO <sub>4</sub> ) (mg/l)	Nitrate (NO <sub>3</sub> ) (mg/l)	Phosphate (PO <sub>4</sub> ) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)	Iron (Fe) (mg/l)	Barium (Ba) (mg/l)	Arsenic (As) (mg/l)	Total Hg Concentration (mg/l)	pH (Field)	Total Dissolved Solids (TDS) (mg/l)	Phosphorus		Aluminum in (CO <sub>3</sub> ) (mg/l)	Percent Sulfate (% SO <sub>4</sub> )	Percent Calcium in (Ca) (% Ca)	Calcium in (Ca) (mg/l)	Sulfate in (SO <sub>4</sub> ) (mg/l)	Total Hardness (mg/l)		
																			Orthophosphate (mg/l)	Non-Orthophosphate (mg/l)								
DAWLE COUNTY (continued)																												
CARL & HARRY WELL AS 5F 15CC01	7/19/73	22	140	0	73	18.0	3.10	54	8.60	145	0.0	66.00	0.02	11.0	4.90	0.17	0.0	0.10	462	9.1	142	109	0	136	49.6	2.1	-0.173	5
DANIEL PARRS WELL AS 5F 12CC01	7/6/73	17	302	0	120	10.0	0.60	180	15.00	483	0.0	3.60	0.02	19.0	5.90	3.00	0.0	0.10	841	8.2	599	27	0	404	49.4	15.0	-1.910	5
WELDED RACHMAN WELL AS 5F 14CC01	5/27/73	18	278	19	84	3.0	0.0	93	3.10	94	19.00	18.00	0.01	10.0	26.00	0.01	0.0	0.34	457	9.0	376	7	0	109	94.6	14.8	-1.875	5
DUNFAN CEMENTARY WELL AS 5F 10DD01	7/18/73	47	311	0	84	2.3	0.0	94	1.90	87	24.00	28.00	0.0	10.0	26.00	0.02	0.0	0.34	421	9.2	312	6	0	111	96.2	17.1	-2.660	5
CF ALBACH WELL AS 5E 12DD01	6/25/73	15	427	95	87	3.1	0.10	44	3.10	132	8.00	28.00	0.02	11.0	27.00	0.01	0.0	0.35	411	9.3	326	8	0	122	94.6	14.1	-4.488	5
ELMER WILSON WELL #1 AS 1F 14CC01	8/1/73	41	305	19	73	7.0	0.40	260	8.00	618	0.0	3.40	0.0	62.0	4.40	0.0	0.0	0.50	1219	8.0	720	70	0	501	94.9	25.3	-1.045	5
ELMER WILSON WELL #2 AS 1F 10DD01	8/1/73	11	320	18	72	8.1	1.20	250	8.20	585	0.0	3.60	0.0	78.0	3.20	0.02	0.0	0.90	1169	8.0	712	25	0	419	93.9	21.7	-2.049	5
ERL JOHNSON WELL AS 1F 12CC01	6/25/73	15	432	19	75	5.8	0.50	210	7.60	524	0.0	2.80	0.01	56.0	7.60	0.10	0.0	0.70	951	8.0	423	17	0	439	94.6	22.5	-5.054	5
END THYNS WELL AS 1F 10DD01	7/26/73	21	311	0	47	26.0	17.00	240	31.00	510	0.0	250.00	0.04	17.0	0.70	0.01	0.0	0.28	1209	7.0	929	135	0	434	75.0	9.0	-1.708	5
ELL BURGHARDT WELL #2 AS 1F 14CC01	6/8/73	14	245	2325	44	51.0	2.80	11	15.00	214	0.0	16.00	0.02	7.2	1.30	0.02	0.0	0.08	437	7.4	343	139	0	176	29.9	1.1	-1.210	5
ETM THOMAS WELL AS 4E 14CC01	5/21/73	40	349	2496	81	4.9	0.20	53	6.70	79	100.00	17.00	0.02	8.6	9.70	0.29	0.0	0.10	278	8.6	324	18	0	281	81.2	5.4	-14.137	4
ET WARRICK WELL #1 AS 4E 14DD01	6/28/73	42	349	4281	95	5.8	0.10	46	7.40	88	5.00	20.00	0.01	8.7	6.90	0.12	0.0	0.12	272	8.4	240	15	0	80	80.4	5.2	-5.188	5
ET WARRICK WELL #2 AS 4E 10DD01	6/11/73	18	349	1874	99	7.2	0.10	47	8.10	106	0.0	24.00	0.04	8.6	9.40	0.26	0.0	0.11	284	8.6	256	14	0	87	77.9	4.8	-4.583	5
ETA WILLYTT WELL #1 AS 4E 11CC01	6/12/73	16	457	7875	99	16.0	0.30	45	8.00	113	0.0	30.00	0.03	9.3	8.20	1.10	0.0	0.10	312	8.3	273	41	0	93	65.0	3.1	-3.270	5
ETA WARRICKS WELL AS 4E 12DD01	5/21/73	41	337	0	96	7.0	0.10	51	7.00	97	0.0	17.00	0.02	8.4	8.70	0.29	0.0	0.10	293	8.7	243	19	0	78	80.5	5.2	1.994	5
EVANCE COOP WELL AS 4E 13CC01	7/26/73	19	321	5602	95	2.3	0.20	49	7.80	89	8.00	20.00	0.06	8.0	9.00	0.26	0.0	0.10	289	9.0	246	19	0	81	78.6	4.9	-1.866	5
ET LATHAM WELL AS 4E 13CC01	5/19/73	40	305	4340	97	8.7	0.10	53	7.50	80	11.00	19.00	0.02	9.0	11.00	0.25	0.0	0.09	261	8.7	255	22	0	84	78.8	4.8	0.260	5
ETA WILLYTT WELL #2 AS 4E 14CC01	6/12/73	19	349	6283	96	7.2	0.10	45	7.80	104	0.0	18.00	0.04	8.1	4.00	1.20	0.0	0.11	275	8.6	240	19	0	85	77.5	4.6	-2.830	5
ET ALBACH WELL AS 4E 15CC01	6/12/73	13	325	8444	100	23.0	0.80	48	9.90	121	0.0	54.00	0.04	9.8	14.00	0.80	0.0	0.11	359	8.0	320	61	0	101	58.7	2.7	-8.083	5

ALBY HAWKINS LL #1 S 46 210RA2	6/21/73	30	247.	8888	96	12.0	0.20	50	8.70	108.	6.00	16.00	0.0	11.0	10.00	1.10	0.0	0.0	352	8.6	242	31.	0.	99.	75.1	4.8	-3.571	5
LL #2 S 46 250DC1	6/24/73	17	226.	8888	100	6.5	0.10	25	6.40	108.	0.0	25.00	0.06	11.0	15.00	0.58	0.0	0.12	364	8.9	247	17.	0.	89.	60.0	2.6	-17.494	5
ITHERIES MCH #1 S 46 240CP1	7/10/73	31	264.	4820.	91	13.0	0.40	45	9.30	103.	0.0	22.00	0.05	12.0	8.70	0.52	0.0	0.11	300	8.2	251	34.	0.	84.	68.7	3.4	-1.873	5
WY LATHIMER #1 S 46 230CC1	7/10/73	23	424.	5261.	76	16.0	1.10	48	7.70	109.	0.0	28.00	0.06	14.0	6.60	1.90	0.0	0.11	292	8.0	251	45.	0.	89.	64.5	3.0	-1.121	5
E PLACK LL #2 S 56 50PC1	6/25/73	32	731.	95.	75	4.4	0.10	63	6.10	87.	4.00	48.00	0.02	9.5	8.20	0.0	0.0	0.17	332	9.0	261	11.	0.	78.	87.7	8.1	-2.240	5
MES PROTHERS LL #1 S 56 70AA1	7/ 6/73	39	495.	8888	91	8.5	0.20	51	7.40	96.	0.0	17.00	0.04	9.8	9.70	0.95	0.0	0.09	279	8.5	242	22.	0.	79.	77.0	4.7	1.912	5
MES BROTHERS LL #2 S 56 80CC1	6/21/73	40	457.	3066.	90	5.9	0.10	55	6.90	81.	11.00	19.00	0.01	9.1	11.00	0.25	0.0	0.11	291	8.7	244	15.	0.	85.	83.1	6.2	-1.590	5
MW LOOS #1 S 56 90DC1	6/14/73	40	610.	3496.	89	12.0	0.50	50	6.80	85.	9.00	18.00	0.0	9.0	11.00	0.71	0.0	0.06	290	8.6	247	12.	0.	85.	72.8	3.8	0.441	5
H. DAVIS LL #2 S 56 130AC1	7/17/73	25	46.	1325.	91	14.0	2.10	51	9.20	100.	0.0	50.00	0.04	10.0	10.00	0.15	0.0	0.12	361	8.4	292	54.	0.	82.	62.6	1.0	0.301	5
H. STEINER #1 S 56 110AH1	6/21/73	36	596.	0.	83	6.7	0.0	50	7.10	86.	5.00	19.00	0.04	9.0	11.00	0.11	0.0	0.13	284	8.7	231	17.	0.	79.	90.8	5.3	-2.142	5
BERT TENDALL #1 S 56 160CC1	5/30/73	40	462.	0.	86	6.7	0.10	51	6.50	101.	0.0	20.00	0.02	9.8	16.00	0.26	0.0	0.09	278	8.7	252	17.	0.	83.	81.9	5.4	-6.649	5
LL #2 S 56 190CC1	7/23/73	37	232.	6425.	95	7.7	0.10	55	7.60	103.	0.0	24.00	0.0	11.0	12.00	0.24	0.0	0.11	309	8.4	261	20.	0.	84.	80.3	5.4	-2.861	5
WY TINDALL #1 S 56 200CC1	5/24/73	34	306.	4219.	94	7.3	0.30	52	9.20	97.	0.0	24.00	0.01	9.5	11.00	0.21	0.0	0.11	297	8.6	256	22.	0.	79.	77.0	4.8	-0.525	5
HACC TURNER #1 S 56 210AC1	7/19/73	25	331.	0.	100	2.0	0.10	61	6.80	89.	16.00	21.00	0.01	10.0	10.00	0.01	0.0	0.14	310	9.2	269	7.	0.	92.	89.7	9.8	-1.061	5
LEHR CATTLE #1 S 56 300AD1	7/ 5/73	51	237.	0.	100	1.6	0.30	100	2.80	59.	43.00	27.00	0.04	10.0	24.00	0.06	0.0	0.21	461	9.4	337	5.	0.	170.	46.1	19.0	-0.312	5
LL #2 S 56 140DC1	6/14/73	43	156.	0.	81	7.4	0.40	49	5.10	99.	3.00	18.00	0.0	9.0	8.90	0.11	0.0	0.06	287	8.5	230	20.	0.	84.	40.0	4.4	-1.509	5
T SPRINGS MCH #1 S 56 210PC1	6/14/73	43	237.	0.	82	5.9	0.30	54	4.80	91.	7.00	18.00	0.0	9.0	12.00	0.28	0.0	0.07	287	8.5	237	16.	0.	86.	84.3	5.0	-4.179	5
L. OWENS LL #4 S 66 210PA1	11/ 0/73	47	0.	0.	75	9.0	1.20	51	6.10	110.	0.0	17.00	0.0	9.0	10.00	1.10	0.0	0.0	287	7.2	234	27.	0.	90.	75.9	4.7	-9.854	1
SE WILLIAMS #1 S 56 210AD1	5/22/73	44	396.	0.	100	12.0	1.10	53	7.20	126.	0.0	17.00	0.01	8.7	8.20	0.54	0.0	0.12	327	8.3	269	14.	0.	101.	72.5	3.0	1.101	5
LL #2 S 66 260AD1	5/22/73	30	305.	1499.	82	14.0	2.40	34	6.90	134.	0.0	15.00	0.02	4.8	3.10	0.66	0.0	0.10	288	8.0	236	51.	0.	110.	56.5	2.2	-4.357	5
M.S. PRYSCOTT #1 S 56 270AD1	6/19/73	43	122.	2044.	84	12.0	1.10	44	6.20	129.	0.0	17.00	0.01	8.6	5.40	0.59	0.0	0.08	287	9.2	246	14.	0.	106.	71.1	1.6	-1.244	5
IN PRYSCOTT # S S 66 140CR15	6/19/73	41	0.	1703.	83	6.2	0.30	55	5.50	103.	6.00	18.00	0.01	8.8	8.50	0.46	0.0	0.01	288	9.1	242	17.	0.	94.	43.4	5.0	-2.243	5
[SCOTT # S S 66 350PA15	7/18/73	40	0.	0.	89	11.0	1.80	43	6.70	126.	0.0	15.00	0.01	8.8	4.50	0.60	0.0	0.11	287	8.5	244	40.	0.	103.	65.0	3.0	-1.914	5
JEAN BATHUR # S S 66 300D15	7/ 5/73	30	0.	1499.	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	8.1	245	19.	0.	101.	80.9	5.3	-2.148	5

Table 1 - Chemical Analysis of Thermal Water from Selected Springs and Wells in Idaho (continued)

Spring or Well Name and Phone	County	Completion Date	Water Temperature (°C)	pH and Dissolved Solids (mg/L)	Dissolved Solids (mg/L)	pH (MOI)	Calcium (Ca)	Magnesium (Mg)	Sulfate (SO4)	Potassium (K)	Selenium (Se)	Carbonate (CO3)	Bicarbonate (HCO3)	Phosphate (PO4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO3)	Barium (Ba)	Ammonia (NH3)	Spectroscopic Carbonate (mg/L)	pH (Field)	Total Dissolved Solids (TDS)	Hardness		Alkalinity as CaCO3	Percent Sulfate (Pct. Sulfate)	Sulfate Absorption (mg/L)	Calcium-Arsenic Balance	Diss. Nitrogen*		
																							Carbonate	None Carbonate							
<u>OWHIE COUNTY (continued)</u>																															
INDIAN H S 125 7E 13C 15	AV	7/27/72	69	0.6548	75	1.5	0.0	75	0.60	67	30.00	74.00	0.04	8.4	14.00	0.06	0.0	0.0	0.0	360	8.0	761	4	0	105	97.3	16.9	-1.409	3		
HOPKIN H S 165 9F 24HPP15	AV	5/23/72	51	0.245	83	0.4	0.0	30	2.00	67	1.00	4.70	0.10	2.3	3.60	0.64	0.0	0.0	0.0	137	7.1	160	1	0	57	94.1	10.7	-1.507	3		
<u>POWER COUNTY</u>																															
INDIAN SPRINGS 85 31F 10DAR15	AV	7/27/72	32	0.4829	20	76.0	19.00	110	10.00	254	0.0	19.00	0.07	220.0	0.70	0.11	0.0	0.0	0.0	1099	7.5	549	268	60	208	46.0	2.9	-1.917	3		
LOCALAND BARR SPRINGS 85 10F 13CUC15	AV	7/27/72	38	0.1542	22	92.0	11.00	62	14.00	160	0.0	23.00	0.07	250.0	0.80	0.02	0.0	0.0	0.0	1109	7.6	575	165	234	131	76.0	1.4	0.795	3		
<u>TWIN FALLS COUNTY</u>																															
TRACER H S 95 14E 31ACR15	AV	5/24/72	54	0.1325	93	2.2	0.0	120	1.50	63	54.00	29.00	0.03	35.0	20.00	0.50	0.0	0.0	0.0	560	9.0	386	5	0	142	97.2	22.3	-1.125	3		
JERRY MUTTONS WELL #2 95 14F 31CR1	AV	5/24/72	58	64	227	97	1.1	0.0	100	1.50	84	38.00	26.00	0.03	27.0	15.00	0.54	0.0	0.0	479	8.5	344	3	0	135	97.9	26.3	-4.029	3		
JO PERPA WELL 95 14F 9ACD1	AV	8/26	38	0.1699	51	7.3	0.30	61	1.20	120	6.00	27.00	0.0	14.0	1.20	0.0	0.0	0.10	0.0	100	9.3	234	69	0	108	83.9	6.0	-3.949	9		
JAN HIGH AND SONS WELL 15 19E 33DD1	AV	5/25/72	33	189	3305	43	27.0	3.90	17	8.60	118	0.0	12.00	0.04	15.0	0.30	1.00	0.0	0.0	266	6.6	205	81	0	97	24.1	0.8	-1.971	3		
STUPGILL WELL 15 20F 34CC1	AV	9/0/52	32	0	0	24	41.0	9.90	11	7.40	186	0.0	14.09	0.0	5.0	0.30	0.60	0.0	0.0	326	7.5	209	144	0	152	11.5	0.4	-0.515	1		
25 17E 6CR1	AV	9/28/72	37	0.3510	24	17.0	9.90	46	11.00	250	0.0	20.00	0.01	5.8	2.20	0.09	0.0	0.14	0.0	430	7.3	242	133	0	205	40.5	1.7	0.779	10		
JAT-SOO-PAN H S 25 17E 31R15	AV	7/25/72	36	0	114	19	14.0	14.00	41	11.00	266	0.0	18.00	0.01	8.0	1.90	0.03	0.0	0.0	469	7.6	219	142	0	218	17.4	1.6	-0.602	3		
DAMO STATE WELL 25 18F 10R11	AV	7/25/72	38	238	2055	43	18.0	2.00	18	6.00	95	0.0	9.10	0.24	8.0	0.40	0.61	0.0	0.0	199	7.6	174	53	0	78	36.4	1.0	-2.647	3		
HOLLISTER VILLAGE WELL 15 17E 7R1	AV	9/28/72	35	0	966	22	14.0	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	247	126	0	205	40.4	1.7	0.610	10		
MAGIC H S 65 17E 10CAR15	AV	5/23/72	46	0.1457	21	10.0	8.90	33	4.50	162	0.0	15.00	0.03	3.8	0.30	0.42	0.0	0.0	0.0	281	6.4	178	111	0	133	19.4	0.5	-4.542	3		
<u>VALLEY COUNTY</u>																															
HOLLING SPRINGS 24 5F 22R15	AV	3/72	45	0	625	96	1.9	0.10	71	1.70	81	24.00	12.00	0.02	12.0	13.00	0.04	0.0	0.0	331	8.8	249	5	0	106	95.5	13.6	-2.902	3		
SILVER CREEK PLUNGE 24 5F 16DPA15	AV	0/0/55	39	0	0	53	2.0	0.40	57	5.10	70	12.00	20.00	0.0	6.0	7.40	0.20	0.0	0.0	254	9.0	192	7	0	77	89.6	8.8	-0.760	1		
BRANTON H S 34 4F 31CAP15	AV	3/72	71	0	265	78	1.7	0.0	170	1.90	70	26.00	46.00	0.07	49.0	11.00	0.05	0.0	0.0	511	7.7	348	4	0	101	97.0	21.1	-5.041	3		



SCAPE CITY HILL IN 1P 14A001	8/ 1/72	41	15	0	45	1.4	0.0	58	0.40	42	27.00	17.00	0.04	15.0	3.80	0.09	0.0	0.0	274	9.7	191	4	0	87	96.6	12.6	-2.444	1
LECAR H S IN AF 11D015	8/ 2/72	81	0	1492	120	1.8	0.10	94	8.00	120	0.0	43.00	0.63	17.0	24.00	0.05	0.0	0.0	451	8.5	161	5	0	48	95.9	16.5	+1.855	1
BLING H S IN 1P 13A015	8/ 2/72	14	0	1020	60	1.1	0.10	60	0.80	17	45.00	16.00	0.02	16.0	2.40	0.0	0.0	0.0	279	9.8	209	4	0	88	96.7	11.7	-0.475	1
ILLY'S H S IN AF 14A015	8/ 2/72	59	0	76	87	2.0	0.0	70	1.50	48	10.00	17.00	0.02	10.0	17.00	0.03	0.0	0.0	326	7.7	258	5	0	89	95.7	13.6	-2.277	1
SOUTH FORK BRIDGE IN AF 14C015	8/ 0/55	55	0	0	47	4.0	0.10	50	1.10	50	22.00	14.00	0.0	9.0	17.00	0.20	0.0	0.0	284	4.1	214	11	0	85	91.0	7.8	-0.711	1
STOLE CREEK H S IN 10F 14A025	0/ 0/ 0	46	0	11	47	5.0	0.0	83	1.40	94	0.0	47.00	0.0	12.0	10.00	0.0	0.0	0.0	0	6.1	291	12	0	80	92.7	10.2	0.241	2
IMPLEMEN FLAT H S IN 12F 15A015	7/ 1/71	65	0	116	42	1.0	0.10	77	1.40	51	10.00	41.00	0.0	9.0	109.00	0.0	0.0	0.0	349	8.8	377	8	0	92	94.4	11.4	-42.244	12
IRAWSIDE H S IN 12F 16A015	7/ 4/71	41	0	0	75	1.7	0.0	79	1.80	42	14.00	54.00	0.0	8.4	9.80	0.0	0.0	0.0	377	8.8	241	8	0	82	94.4	12.2	0.464	2
BLODGER H S IN AF 20A015	10/18/73	44	0	85	47	1.6	0.0	60	1.00	42	14.00	9.90	0.01	9.8	8.90	0.02	0.0	0.05	280	9.0	222	4	0	107	96.1	13.1	-6.473	10
FISHBIS H S IN 10F 11A015	0/ 0/ 0	69	0	57	77	2.1	0.0	119	2.00	87	22.00	73.00	0.0	19.0	17.00	0.0	0.0	0.0	0	8.7	165	6	0	108	96.6	20.0	-1.988	2
D R INDIAN IN H S IN 11F 15A015	0/ 0/ 0	72	0	6	110	2.1	0.0	120	1.70	116	25.00	44.00	0.0	14.0	17.00	0.0	0.0	0.0	0	8.7	412	5	0	137	96.1	22.4	0.410	4
INDIAN CREEK H S IN 11F 21A 1A	0/ 0/ 0	88	0	151	110	2.0	0.0	110	1.60	111	14.00	42.00	0.0	14.0	14.00	0.0	0.0	0.0	0	8.6	308	5	0	131	96.1	21.4	-2.902	2
JE H S IN 11F 27A015	0/ 0/ 0	55	0	48	69	1.9	0.0	84	1.00	83	20.00	42.00	0.0	9.0	15.00	0.0	0.0	0.0	0	8.8	282	5	0	101	96.8	16.8	-2.211	2
HOSPITAL H S IN 14F SCAC15	0/ 0/ 0	0	0	8	55	3.4	0.0	87	1.10	149	0.0	43.00	0.0	14.0	13.00	0.0	0.0	0.0	0	8.1	289	8	0	122	96.9	13.0	-5.208	2
APUT H S IN AF 14A015	10/18/77	60	0	95	69	2.1	0.0	63	1.20	66	31.00	17.00	0.01	4.2	9.90	0.0	0.0	0.07	360	6.9	227	6	0	106	95.0	11.4	-1.031	10
IF CREEK H S IN 0E 17D015	8/ 0/58	35	0	0	40	3.0	0.0	63	1.80	54	12.00	45.00	0.0	10.0	6.40	0.0	0.0	0.0	341	8.7	229	7	0	68	93.1	10.0	0.151	1

WASHINGTON COUNTY

IVE CREEK H S IN 1P 16C015	8/ 9/73	74	0	19	110	20.0	0.20	120	27.00	107	0.0	310.00	0.12	110.0	4.70	0.0	0.0	7.80	1419	7.4	1169	51	0	88	89.8	19.5	-5.284	4
IVE COBIG HILL IN 2P 16A015	8/14/75	20	41	0	83	31.0	19.00	24	13.00	283	0.0	11.00	0.0	2.7	0.30	0.0	0.0	0.0	440	8.0	322	155	0	237	74.7	0.9	-3.908	9
JANE CREEK H S IN 1P 17D015	8/ 2/73	92	0	19	180	29.0	0.50	280	18.00	291	0.0	250.00	0.0	200.0	3.20	0.01	0.0	10.00	1629	7.8	1059	74	0	165	96.2	14.1	-0.785	4
JANE CREEK H S IN 1P 17D015	8/ 2/73	57	0	19	180	29.0	0.60	280	19.00	297	0.0	250.00	0.0	200.0	3.20	0.03	0.0	10.00	1549	8.0	1071	75	0	166	96.0	14.1	-0.762	4
JUGLAS MCCINNIS ELL IN 5P 20D01	8/ 9/73	21	59	0	54	31.0	5.10	23	6.90	116	0.0	25.00	0.0	6.8	0.50	1.80	0.0	0.00	271	7.2	219	99	0	111	29.7	0.9	0.444	4
JENN HILL HILL IN 16F 13C01	8/ 2/71	25	66	0	577	4.0	0.10	130	1.20	15	16.00	150.00	0.0	55.0	0.60	0.0	0.0	2.40	579	7.4	941	10	0	77	96.0	12.5	-2.274	4
JESSE H S IN 16F 10A015	8/ 2/73	22	0	19	11	12.0	1.80	50	1.40	44	0.0	53.00	0.08	17.0	1.20	8.00	0.0	0.82	335	7.1	197	37	1	16	73.5	3.6	7.047	6
JUSOLAR GROWERS ELL #1 IN 6P 10C01	8/ 2/73	78	26	0	140	2.4	0.0	140	4.80	12	37.00	150.00	0.0	56.0	2.90	0.01	0.0	2.10	734	9.2	549	6	0	88	96.0	23.9	-2.265	4
JUSOLAR GROWERS ELL #2 IN 6P 10C02	8/23/73	77	31	0	130	2.7	0.10	140	5.10	31	41.00	150.00	0.01	52.0	3.90	0.01	0.0	2.20	683	9.1	541	7	0	95	95.8	22.8	-2.488	4

Table 1 - Chemical Analyses of Thermal Water from Selected Springs and Wells in Idaho (continued)

Spring or Well Number and Name	Sample Collection Date	Temperature (°C)	pH	Total Dissolved Solids (TDS) (mg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sulfate (SO <sub>4</sub> ) (mg/l)	Phosphate (P) (mg/l)	Bicarbonate (HCO <sub>3</sub> ) (mg/l)	Carbonate (CO <sub>3</sub> ) (mg/l)	Total (mg/l)	Phosphate (PO <sub>4</sub> ) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)	Nitrate (NO <sub>3</sub> ) (mg/l)	Sulfur (S) (mg/l)	Ammonia (NH <sub>3</sub> ) (mg/l)	Specific Conductance (µmhos/cm)	pH (Field)	Total Dissolved Solids (TDS) (mg/l)	Hydrogen		Alkalinity as CaCO <sub>3</sub>	Percent Sulfate (% Sulfate)	Sulfate Absorbance (SAR)	Calcium Anion Balance	Diss. Residue							
																					Carbonate	Non-Carbonate												
WASHINGTON COUNTY (continued)																																		
POSCUP GROWERS ELL 41																																		
19 44 10CCA1	8/2/72	70	122	0.140	2.9	0.0	140	5.00	35	18.00	150.00	0.06	56.0	1.30	1.00	0.0	2.20	2250	9.3	551	7	0	92	95.7	22.4	-2.856	4							
EDVALL CITY WELL																																		
18 34 8CCC1	6/28/72	28	794	0	84	8.7	0.40	71	21.00	225	0.0	14.00	0.04	3.1	0.70	0.04	0.0	0.0	318	8.3	318	25	0	194	74.5	8.4	1.122	1						
ALBICFIELD LUMBER CO.																																		
18 44 11HAC1	6/28/72	28	412	0	73	3.5	0.26	46	0.70	188	20.00	14.00	0.03	3.2	0.70	0.04	0.0	0.0	375	8.5	291	10	0	187	94.7	12.1	-3.114	3						
BAFF H 5																																		
44 24 4BBA15	6/28/72	70	0	16.11	72	17.0	0.10	200	3.40	24	20.00	200.00	0.09	140.0	1.40	0.06	0.0	0.0	999	7.8	666	41	0	51	90.1	13.1	1.410	3						
BRIDGE CITY WELL																																		
44 34 3DDC1	6/28/72	26	282	0	10	2.6	0.20	73	6.40	157	16.00	15.00	0.04	1.8	1.00	0.04	0.0	0.0	309	8.7	265	7	0	155	90.8	11.7	-1.722	1						
ALBICFIELD H 5																																		
44 34 11CAD15	6/27/72	50	0	220	55	8.0	0.80	80	1.90	81	1.00	110.00	0.05	15.0	0.80	0.10	0.0	0.0	406	8.5	312	23	0	68	87.1	7.2	-2.676	3						

TABLE 1 (Cont'd)

Spring or Well Identification Number	Age and Rock Type of Aquifer(s) or Spring Vent(s)	Structure	Active Deposition		Gas	Remarks	Principal Reference for Geologic Setting	Area No Fig. 6
			Siliceous	Carbonates				
<u>TWIN FALLS COUNTY</u>								
Miracle Hot Springs 8S 14E 31acb1S	Quaternary alluvium near Pliocene basalt and older silicic volcanic rocks	-	-	Yes	Yes	-	Malde and others, 1972	
8S 14E 33cba1	Pliocene and Pleistocene sediments and basalt (?)	-	-	Yes	-	Flowing well	Stearns and others, 1938	
11S 19E 33ddd1	Pliocene silicic volcanic rocks	-	-	-	-	Driller's log available	Crosthwaite, 1969 <sub>a</sub>	
Nat-Poo-Paw Warm Springs 12S 17E 31bab1S	Quaternary alluvium near Tertiary silicic volcanic rocks	-	-	Yes	-	-	Crosthwaite, 1969 <sub>b</sub>	
12S 18E 1bba1	Pliocene silicic volcanic rocks	-	-	-	-	Flowing well	Crosthwaite, 1969 <sub>a</sub>	
Magic Hot Springs 16S 17E 31ac1S	Pliocene silicic volcanic rocks	-	-	Yes	Yes	Four spring vents; slight sulfur odor	Ross, 1971	
<u>VALLEY COUNTY</u>								
Vulcan Hot Springs 14N 6E 11bda1S	Cretaceous granitic rocks	-	Yes	-	Yes	Thirteen spring vents; hydrogen sulfide odor; temperature range 84 to 87°C; debris around some vents appears to be silicified	Waring, 1965	22
Hot Creek Springs 15S 3E 13bbc1S	Quaternary alluvium near Miocene basalt and Cretaceous granitic rocks	-	-	Yes	Yes	Hydrogen sulfide odor	Newcomb, 1970	
Molly's Hot Springs 15N 6E 14acc1S	Cretaceous granitic rocks	-	-	Yes	-	Seven spring vents; temperature range 58 to 59°C	Waring, 1965	
14N 3E 36abd1	Quaternary alluvium near Cretaceous granitic rocks	Northwest trending fault	-	Yes	-	-	Newcomb, 1970	
Cabarton Hot Springs 13N 4E 31cab1S	Cretaceous granitic rocks	Northwest trending fault	-	Yes	Yes	Numerous springs vents; temperature range 56 to 70½°C	Newcomb, 1970	
Boiling Springs 12N 5E 22bbc1S	Cretaceous granitic rocks	Northeast trending fault	Yes	Yes	Yes	Numerous spring vents; temperature range 80 to 86°C	Waring, 1965	
<u>WASHINGTON COUNTY</u>								
14N 3W 3ddc1	Miocene basalt	-	-	-	-	Flowing well; driller's log available	Newcomb, 1970	1
13N 3W 8ccc1	Miocene basalt	-	-	Yes	-	Flowing well; driller's log available	Walker and Sisco, 1964	1

TABLE 1 (Cont'd.)

Spring or Well Identification Number	Age and Rock Type of Aquifer(s) or Spring Vent(s)	Structure	Active Deposition Siliceous	Carbonates	Gas	Remarks	Principal Reference for Geologic Setting	Area Fig.
<u>CANAS COUNTY</u>								
Wardrop Hot Springs 1N 13E 32abb1S	Quaternary alluvium near Pleistocene basalt and Cretaceous granitic rocks	-	-	-	Yes	Numerous spring vents	Walton, 1962	5
Worswick Hot Springs 3N 14E 28ca1S	Cretaceous granitic rocks	-	Yes	Yes	-	Numerous spring vents; granitic rock silicified in places; possible intersection of faults	Umpleby, 1913	
Elk Creek Hot Springs 1N 15E 14ada1S	Cretaceous granitic rocks near contact with Oligocene silicic volcanic rocks	-	-	Yes	-	Five spring vents and numerous seeps; temperature range 43 to 53½°C	Walton, 1962	
1S 12E 31cbcl	Quaternary alluvium	-	-	-	-	Flowing well	Walton, 1962	
1S 13E 27ccb1	Quaternary alluvium	-	Yes	-	-	Flowing well; driller's log available	Walton, 1962	
Barron's Hot Springs 1S 13E 34bcc1S	Quaternary alluvium near Pleistocene basalt and Cretaceous granitic rocks	-	-	Yes	Yes	Numerous spring vents; temperature range 62 to 71°C	Walton, 1962	
<u>CANYON COUNTY</u>								
2N 2W 34abcl	Pliocene and Pleistocene sediments	-	-	-	-	Sulfur odor; driller's log available	Savage, 1958	
<u>CARIBOU COUNTY</u>								
6S 41E 19baa1S	Quaternary travertine	West trending fault (Pelican fault)	-	Yes	Yes	Ten spring vents; slight sulfur odor; temperature range 34 to 42°C	Mansfield, 1927	9
Soda Springs 9S 41E 12add1S	Holocene travertine near Pleistocene basalt	North trending thrust fault	-	Yes	Yes	Numerous spring vents; slight sulfur odor; temperature range 24 to 31°C	Armstrong, 1969	
<u>CASSIA COUNTY</u>								
15S 26E 23bbcl	-	-	-	Yes	Yes (?)	Flowing well; slight sulfur odor	Stearns and others, 1938	10
15S 26E 23ddcl	Pleistocene sediments	-	-	Yes	Yes (?)	Flowing well; driller's log available	Nace and others, 1961	10
11S 25E 11ccal	Precambrian quartzite	North trending fault	Yes	Yes	-	Flowing well; sulfur odor; driller's log available	Crosthwaite, 1957	
14S 21E 34bdcl	Pliocene silicic volcanic rocks	-	-	Yes	-	Flowing well; sulfur odor; driller's log available	Piper, 1923	

TABLE 1 (Cont'd.)

Spring or Well Identification Number	Age and Rock Type of Aquifer(s) or Spring Vent(s)	Structure	Active Deposition			Remarks	Principal Reference for Geologic Setting	Area No. Fig. 6
			Siliceous	Carbonates	Gas			
<u>CASSIA COUNTY (Cont'd.)</u>								
Oakley Warm Spring 14S 22E 27dcb1S	Precambrian quartzite	-	-	-	Yes (?)	Slight sulfur odor	Anderson, 1931	
15S 24E 22ddb1	-	-	-	Yes	-	Flowing well	Ross, 1971	
<u>CLARK COUNTY</u>								
Warm Springs 11N 32E 25aac1S	Quaternary alluvium near Paleozoic limestone	-	-	-	-	Twelve spring vents; temperature range 26 to 29°C; travertine deposits near spring vents	Stearns and others, 1939	
Lidy Hot Springs 9N 33E 2bbc1S	Miocene and Pliocene silicic volcanic rocks	North trending fault	-	Yes	Yes (?)	Travertine deposits near spring vents	Stearns and others, 1939	
<u>CUSTER COUNTY</u>								
8N 17E 32bca1S	Quaternary alluvium near Tertiary silicic volcanic rocks	-	-	Yes	Yes	Numerous spring vents; hydrogen sulfide odor; temperature range 40 to 54°C; secondary quartz in volcanic rocks near spring vents	Waring, 1965	11
14N 19E 34daa1	-	-	-	-	-	Flowing well	-	
Sunbeam Hot Springs 11N 15E 19c1S	Cretaceous granitic rocks	-	Yes	Yes	Yes	Numerous spring vents; slight hydrogen sulfide odor; temperature range 65 to 76°C	Choate, 1962	
Sullivan Hot Springs 11N 17E 27bdd1S	Contact between Oligocene silicic volcanic rocks and Paleozoic dolomite and argillite	-	-	Yes	Yes	Hydrogen sulfide odor	Ross, 1937	
Barney Hot Springs 11N 25E 23cab1S	Quaternary alluvium	-	-	-	Yes	-	Waring, 1965	
Stanley Hot Springs 10N 13E 3cab1S	Quaternary alluvium near Cretaceous granitic rocks	Northeast trending fault	-	Yes	Yes	Six spring vents and numerous seeps; hydrogen sulfide odor; temperature range 31 to 41°C	Choate, 1962	
Slate Creek Hot Springs 10N 16E 30a1S	Paleozoic argillite	-	-	Yes	Yes	Eight spring vents; hydrogen sulfide odor; temperature range 32 to 50°C	Ross, 1937	
<u>ELMORE COUNTY</u>								
5S 8E 34bdc1	Pliocene and Pleistocene sediments (?)	-	-	Yes	Yes	Flowing well; hydrogen sulfide odor	Ralston and Chapman, 1968	12



20 Statute Miles  
30 Kilometers  
Statute Miles

*[Handwritten signature]*

TABLE 4.8 (Cont.)

Operational Systems

NAME OF FACILITY	COUNTY	TYPE OF DEVELOPMENT	WATER SUPPLY	
Given's HS	Owyhee	Pool	35 gpm @	47°C
Jacobson's Feed Lot	Owyhee	Stock Watering	450 gpm @	37°C
Bybee's Pool	Owyhee	Pool	280 gpm @	60°C
Indian Springs Natatorium	Power	Resort	2000 gpm @	32°C
Sligar's Resort	Twin Falls	Resort	120 gpm @	63°C
Salmon Falls HS	Twin Falls	Pool	—	67°C
Miracle HS	Twin Falls	Health Spa	300 gpm @	55°C
Banbury HS	Twin Falls	Resort	600 gpm @	57°C
Archibald's Greenhouses	Twin Falls	Greenhouses	350 gpm @	45°C
Lunty's Tropical Fish	Twin Falls	Test Project	400 gpm @	32°C
Nat-Soo-Pah HS	Twin Falls	Resort	100 gpm @	38°C
Weiser HS	Washington	Resort & Fish Farm	20 gpm @	70°C
Midvale City Wall	Washington	Pool	2000 gpm @	29°C

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