UTAH BASIC-DATA RELEASE NO. 24

WATER-QUALITY DATA FOR THE FLAMING GORGE RESERVOIR AREA, UTAH AND WYOMING, 1969-72

by

E. L. Bolke and K. M. Waddell
Hydrologists, U.S. Geological Survey

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Contents

	Page
Introduction	1
Equipment used for data collection	4
Selected references	5

Illustration

Figure 1.	Map of the Flaming Gorge Reservoir area showing data-collection sites	2

Tables

Table 1.	Chemical analyses of water from Flaming Gorge Reservoir	6
2.	Chemical analyses of water from selected streams in the Flaming Gorge Reservoir area	10
3.	Field measurements of chemical and physical data of water in Flaming Gorge Reservoir	40
4.	Secchi-disk measurements from Flaming Gorge Reservoir.	48
5.	Chlorophyll analyses of water from Flaming Gorge Reservoir.	49
6.	Chemical analyses of sediment filtrate from Flaming Gorge Reservoir.	50

Introduction

This report presents the basic data that were collected by the U.S. Geological Survey during a study of the chemical quality of water in Flaming Gorge Reservoir. An interpretive report will follow. The basic data were collected from the reservoir during six sampling runs between October 1970 and September 1972. The reservoir was sampled for chemical analyses at 17 sites. Chemical and physical data were measured in situ at 34 sites. The sites are shown in figure 1 and the data are listed in tables 1 and 3-6.

The chemical-quality data for the 1969-71 water years for streams flowing into and out of the reservoir are listed in table 2. The sampling stations for these streams are Green River near Green River, Wyo., Blacks Fork near Little America, Wyo., Henrys Fork at Linwood, Utah, and Green River near Greendale, Utah. In addition to the Geological Survey station identification number, each stream site has been assigned a letter to identify its position in figure 1 and table 2. Data prior to water year 1971 are contained in the following Water-Supply Papers:

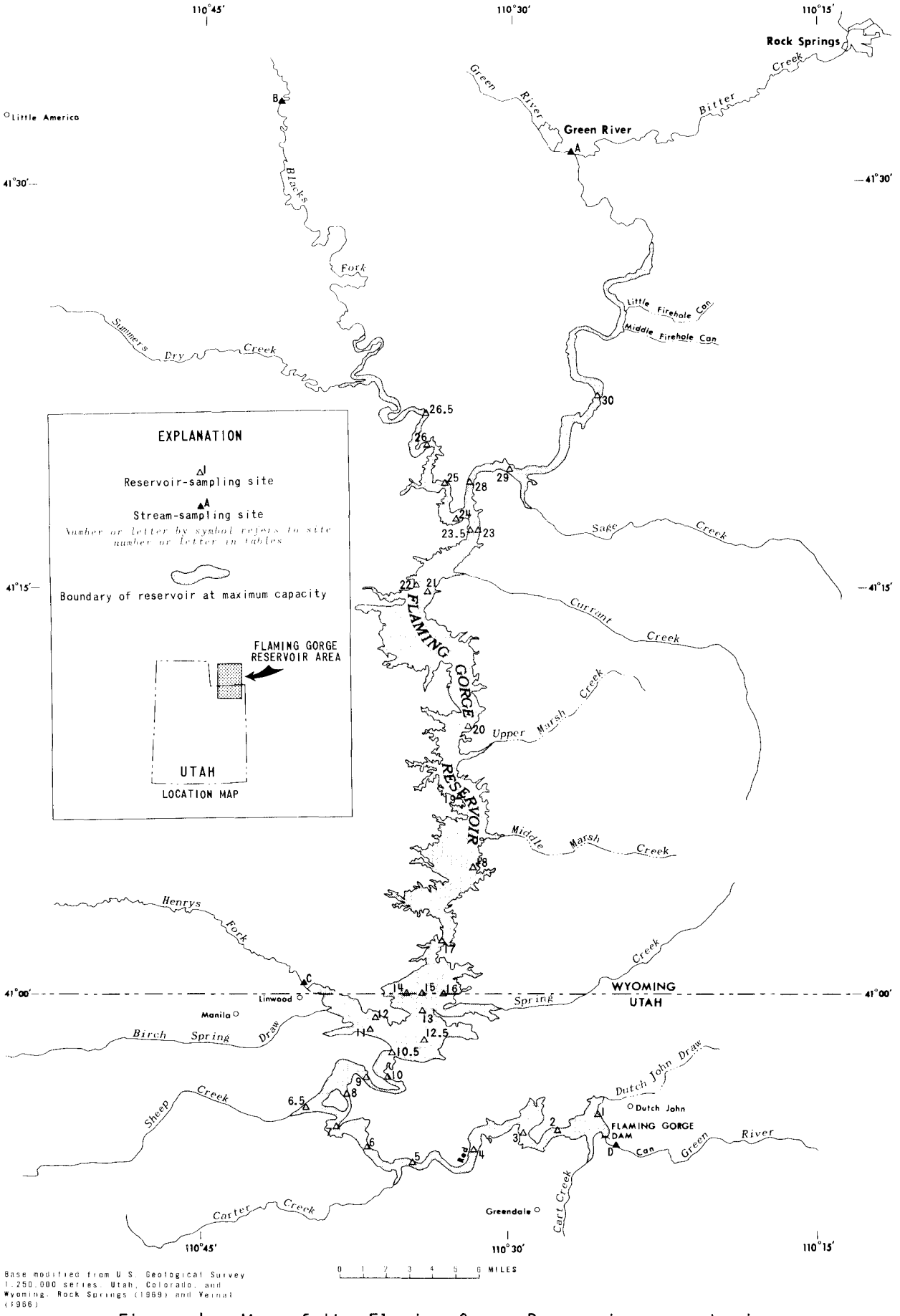
Year	WSP	Year	WSP	Year	WSP
1947	1102	1955	1403	1963	1951
1948	1133	1956	1943	1964	1958
1949	1163	1957	1523	1965	1965
1950	1189	1958	1574	1966	1995
1951	1200	1959	1645	1967	2015a
1952	1253	1960	1745	1968	2098a
1953	1293	1961	1885	1969	2148a
1954	1353	1962	1945	1970	2158a

a In preparation.

Whitaker (1970) compiled daily water temperatures for streams in the reservoir area for the 1944-68 period. Madison (1970) compiled chemical-quality data from the reservoir and from streams in the reservoir area for the 1965-68 period.

The methods of analysis used by the U.S. Geological Survey to obtain the data listed in this report are equivalent or similar to those outlined by Rainwater and Thatcher (1960) or other currently proposed methods. Many of the terms used in the fields of water quality and hydrology are defined in texts and reports such as those by Hem (1970), Langbein and Iseri (1960), and American Public Health Association and others (1971). However, for convenience, definitions of some of the terms used in this report are given below.

Acre-foot (acre-ft): The quantity of water required to cover 1 acre to a depth of 1 foot. It is equal to 43,560 cubic feet or 325,851 gallons.



Base modified from U.S. Geological Survey 1:250,000 series, Utah, Colorado, and Wyoming, Rock Springs (1969) and Vernal (1966)

Figure 1.—Map of the Flaming Gorge Reservoir area showing data-collection sites.

Cubic foot per second (cfs): The rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Dissolved oxygen: The concentration of oxygen dissolved in water. It is derived from air in contact with the water and indirectly as a byproduct of photosynthesis by aquatic plants.

Dissolved solids: The concentration of dissolved material in water calculated as the sum of the individually determined solid constituents as they normally exist in an anhydrous residue.

Hydrogen-ion concentration (pH): A measure of the degree of acidity or alkalinity of water as indicated by the hydrogen-ion concentration. A pH of 7.0 indicates that the water is neither acid nor alkaline, pH less than 7.0 denotes acidity, and pH greater than 7.0 denotes alkalinity.

Milliequivalents per liter (meq/l): The concentration value in milligrams per liter of a chemical constituent divided by the combining weight of the species concerned. One milliequivalent per liter of a positively charged ion will react with one milliequivalent per liter of a negatively charged ion.

Milligrams per liter (mg/l): The concentration of chemical constituents in terms of weights of solute (milligrams) per unit volume (liter) of water. Certain constituents that are generally present in very low concentrations are reported in micrograms per liter (μg/l). One microgram is equal to one one-thousandth of a milligram. Milligrams per liter may be converted to milliequivalents per liter by use of the following table:

Conversion factors
Milligrams per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Bicarbonate (HCO_3^{-1})	0.01639	Nitrate (NO_3^{-1})	0.01613
Calcium (Ca^{+2})	.04990	Nitrite (NO_2^{-1})	.02174
Carbonate (CO_3^{-2})	.03333	Phosphate (PO_4^{-3})	.03159
Chloride (Cl^{-1})	.02821	Potassium (K^{+1})	.02557
Fluoride (F^{-1})	.05264	Sodium (Na^{+1})	.04350
Magnesium (Mg^{+2})	.08226	Sulfate (SO_4^{-2})	.02082
Manganese (Mn^{+2})	.03640		

Specific conductance: A measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Sodium-adsorption ratio (SAR): For irrigation water, SAR is an index of the sodium or alkali hazard to the soil; it expresses the availability of sodium ions to enter exchange reactions with the soil.

$$SAR = \frac{Na^{+}}{\sqrt{\frac{Ca^{++} + Mg^{++}}{2}}}$$

where ion concentrations are in milliequivalents per liter.

Tons per acre-foot (TAF): The weight of a dissolved constituent in an acre-foot of water. One TAF is equivalent to a concentration of 735 mg/l.

Water year: The 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1969, is called the "1969 water year."

Equipment used for data collection

A Raytheon portable recording fathometer, powered by a 12-volt battery, was used to provide a profile of the reservoir bottom from which sampling sites were selected.

Specific conductance, temperature, dissolved oxygen, and pH were measured in situ with a battery-powered Martek portable water-quality monitoring instrument. The readout modules are in a splash-proof carrying case, and a single multi-conductor cable connects the readout modules to a transducer assemblage. A reel equipped with collector rings and a 6-volt power source provided let-out and take-up capability for the cable. The transducer assemblage consists of a polyvinyl chloride support tube, around which are mounted the sensors for specific conductance, temperature, depth, dissolved oxygen, and pH. The instrument was calibrated in the laboratory before each field trip, and calibration was checked daily in the field.

Water samples for chemical analyses were collected with a vertically mounted, transparent, non-metallic, Kemmerer water sampler. The

sampler line was strung over a depth-indicating pulley and was connected to a powered reel for ease in raising and lowering. The 2.1-liter capacity of the sampler provided sufficient water (without repeated lowering of the sampler) for both field and laboratory determinations of physical and chemical constituents. A sediment sampler was attached to the line just below the water sampler. In addition to obtaining sediment, the sediment sampler also served as a weight to keep the water sampler in a vertical position.

Water samples were filtered with a battery-powered vacuum pump connected to a separatory funnel, on top of which was mounted a Millipore filtering kit; samples were filtered immediately after collection.

A 20-centimeter diameter Secchi disk on a graduated line was used to obtain vertical visibility measurements at sampling sites.

Selected references

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Rainwater, F. H., and Thatcher, L. L., 1960, Methods for collection and analysis of water samples: U.S. Geol. Survey Water-Supply Paper 1454, 301 p.

Whitaker, G. L., 1970, Daily water-temperature records for Utah streams, 1944-68: U.S. Geol. Survey open-file rept. (duplicated as Utah Basic-Data Release 19), 119 p.

Table 1.--Chemical analyses of water from Flaming Gorge Reservoir

Nitrite + nitrate: For analyses of October 20-25, 1970, the nitrogen reported includes only nitrate.

Site number	Date of collection	Depth (ft)	Milligrams per liter, except iron, manganese, and boron, which are in micrograms per liter																	Dissolved solids (calculated)		Sodium-adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
			Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrite + Nitrate (N)	Orthophosphate (PO_4)	Boron (B)	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Milligrams per liter	Tons per acre-foot			
1	10-25-70	50	4.5	400	-	44	17	42	1.9	133	0	140	13	0.4	0.10	0.00	60	180	71	330	0.45	1.4	522	7.9
		100	5.0	200	-	62	23	66	2.4	178	0	210	18	.5	.30	.00	90	250	100	480	.65	1.8	732	7.5
		150	6.0	190	-	64	24	71	2.9	187	0	230	19	.5	.30	.00	90	260	110	515	.70	1.9	765	7.9
		200	9.0	500	-	73	33	80	3.1	213	0	290	23	.6	.70	.00	100	320	140	619	.84	2.0	915	7.9
		250	11	300	-	80	33	86	2.4	221	0	280	25	.5	.70	.00	110	340	160	626	.85	2.0	957	7.8
		300	11	200	-	78	33	89	2.3	226	0	300	25	.5	.40	.01	110	330	140	647	.88	2.1	957	7.3
		360	11	300	-	78	36	88	1.9	230	0	300	25	.6	.40	.03	120	340	150	650	.88	2.1	956	7.2
	4-14-71	0	5.3	60	0	62	25	69	4.4	208	0	210	19	.4	.40	.00	-	260	87	499	.68	1.9	725	7.4
		150	7.1	20	7	65	29	77	4.7	186	0	250	21	.3	.40	.03	-	280	130	547	.74	2.0	794	7.8
		200	9.3	10	13	77	33	95	4.6	210	0	290	26	.3	.80	.25	-	330	160	642	.87	2.3	935	7.5
		375	12	40	200	80	35	110	5.2	257	0	300	29	.2	.50	.31	-	340	130	701	.95	2.6	992	7.7
	8- 1-71	0	4.3	10	0	50	20	51	2.4	162	0	170	16	.3	.10	.18	-	210	74	394	.54	1.5	585	8.3
		100	4.7	10	0	61	23	57	2.5	169	0	190	18	.3	.40	.03		250	110	441	.60	1.6	659	8.0
		391	11	20	140	79	35	86	3.2	230	0	310	28	.3	.61	.03	-	340	150	669	.91	2.0	981	7.8
	10-21-71	0	4.3	0	0	49	20	49	2.5	156	0	180	14	.3	.15	.12	-	200	77	397	.54	1.5	618	8.1
		100	4.6	0	30	54	21	55	2.4	157	0	190	16	.2	.45	.03	-	220	92	422	.57	1.6	671	7.8
		250	9.2	10	0	75	33	82	3.9	210	0	280	25	.3	.94	.21	-	320	150	616	.84	2.0	919	7.6
		380	11	20	230	79	36	89	3.4	230	0	310	27	.3	.47	.28	-	350	160	671	.91	2.1	986	7.6
	4-26-72	0	2.1	10	20	63	22	46	2.6	165	6	180	14	.4	.14	.00	-	250	100	418	.57	1.3	646	8.4
		200	7.1	10	10	75	28	60	2.7	205	0	240	18	.4	1.00	.03	-	300	130	536	.73	1.5	821	7.8
		400	12	40	400	81	35	81	3.1	231	0	300	26	.4	.08	1.00	-	350	160	654	.89	1.9	976	7.5
	9- 1-72	0	1.4	10	20	56	20	43	2.7	167	0	170	12	.3	.10	.00	-	220	85	388	.53	1.3	615	8.2
		175	4.8	20	10	67	24	50	2.5	195	0	200	13	.3	.63	.03	-	270	110	460	.63	1.3	731	7.8
		418	12	60	440	73	35	82	3.4	226	0	280	24	.4	.04	.28	-	330	140	622	.85	2.0	962	7.4
3	10-24-70	0	5.0	900	-	45	17	44	2.0	141	0	150	14	.5	.20	.01	70	180	64	343	.47	1.4	543	7.9
		50	5.0	590	-	42	17	43	2.4	136	0	150	14	.5	.10	.00	70	180	68	340	.46	1.4	550	7.3
		100	5.7	400	-	59	24	72	3.5	182	0	230	19	.6	.30	.00	80	250	100	504	.69	2.0	761	7.6
		150	6.3	200	-	62	23	71	3.7	189	0	220	19	.5	.30	.01	80	250	95	504	.69	2.0	774	7.9
		200	9.0	200	-	77	29	83	2.0	214	0	250	23	.6	.50	.07	100	310	140	583	.79	2.0	924	7.8
		250	11	200	-	79	30	87	2.4	226	0	280	24	.5	.40	.14	110	320	140	632	.86	2.1	962	7.8
		320	11	210	-	80	27	90	3.3	231	0	280	25	.5	.40	.17	110	310	120	632	.86	2.2	966	7.8
	4-16-71	0	5.6	10	190	64	26	72	4.4	202	0	220	20	.3	.30	.00	-	270	100	513	.70	1.9	-	8.0
		100	5.6	10	7	64	26	71	4.3	188	0	220	19	.2	.30	.00	-	270	110	504	.69	1.9	739	8.1
		175	7.4	10	0	65	31	79	4.9	184	0	250	22	.4	.40	.06	-	290	140	552	.75	2.0	828	7.9
		202	9.3	30	0	75	36	96	4.7	233	0	280	26	.2	1.00	.15	-	340	140	646	.88	2.3	924	7.8
		326	12	20	240	81	37	110	5.1	238	0	330	29	.4	.60	.28	-	350	160	725	.99	2.5	1,005	7.8
	8- 1-71	0	4.3	10	0	52	20	52	2.5	162	0	180	16	.3	.10	.06	-	210	79	407	.55	1.6	604	8.3
		100	4.9	10	0	58	22	56	2.3	176	0	200	18	.3	.37	.03	-	240	91	450	.61	1.6	661	8.0
		200	6.0	20	0	62	25	63	2.8	197	0	220	20	.3	.44	.03	-	260	96	498	.68	1.7	737	8.1
		360	11	20	260	77	35	86	3.0	229	0	300	29	.3	.42	.25	-	340	150	656	.89	2.0	965	7.8
	10-21-71	0	4.5	10	0	51	20	48	2.8	159	0	170	15	.3	.15	.09	-	210	79	391	.53	1.4	611	8.1
		100	5.0	0	0	57	22	58	2.8	175	0	200	16	.3	.40	.00	-	230	89	449	.61	1.7	693	7.9
		200	6.8	0	10	66	25	69	2.7	196	0	230	19	.3	.57	.09	-	270	110	518	.70	1.8	794	7.7
		345	10	10	340	76	34	84	2.9	218	0	290	24	.3	.28	.21	-	330	150	630	.86	2.0	946	7.9
	4-26-72	0	3.1	10	20	68	23	48	2.6	191	0	190	15	.4	.25	.00	-	260	110	445	.61	1.3	672	8.3
		205	6.8	30	10	79	29	58	2.8	205	0	250	18	.4	1.00	.00	-	320	150	549	.75	1.4	814	7.9
		330	12	70	650	77	34	81	3.1	228	0	290	26	.4	.02	.28	-	330	150	637	.87	1.9	963	7.5
	9- 1-72	0	2.2	50	20	57	20	42	2.6	173	0	170	13	.3	.12	.00	-	220	83	393	.53	1.2	627	8.3
		175	4.9	10	10	68	25	51	2.7	195	0	200	13	.3	.66	.06	-	270	110	464	.63	1.3	732	7.8
		365	12	40	890	75	33	80	3.4	224	0	280	24	.4	.01	.43	-	320	140	620	.84	1.9	918	7.4
5	10-23-70	0	5.0	300	-	55	21	48	1.7	151	0	180	15	.5	.20	.02	70	220	96	404	.55	1.4	605	7.9
		50	5.0	110	-	54	19	49	2.1	151	0	170	15	.5	.10	.01	70	210	86	391	.53	1.5	612	8.1
		75	5.4	210	-	57	23	60	2.8	163	0	200	17	.5	.20	.06	70	240	110	448	.61	1.7	676	8.1
		100	6.0	200	-	66	25	73	2.9	190	0	240	20	.5	.30	.00	90	270	110	523	.71	1.9	778	8.0
		150	7.0	300	-	68	26	72	1.1	192	0	230	20	.6	.30	.06	60	280	120	521	.71	1.9	784	7.9
	8- 1-71	0	5.8	10	10	56	20	45	2.7	192	0	150	14	.3	.03	.12	-	220	65	388	.53	1.3	588	8.0
		60	5.3	20	0	45	17	43	1.9	135	0	140	14	.2	.17	.03	-	180	72	334	.45	1.4	517	7.8
		200	6.7	20	10	67	26	65	2.7	193	0	230	20	.3	.48	.06	-	270	120	515	.70	1.7	742	7.9
		240	10	10	80	72	32	79	3.0	228	0	240	25	.3	.46	.03	-	310	120	576	.78	1.9	848	7.9
	10-22-71	0	5.4	10	0	54	19	47	2.7	180	0	160	13	.3	.13	.00	-	210	65	391	.53	1.4	616	8.0
		100	6.0	0	0	62	24	62	3.0	191	0	220	18	.3	.43	.15	-	250	97	491	.67	1.7	750	7.9
		236	9.4	0	670	69	29	74	2.9	214	0	260	22	.3	.32	.31	-	290	120	574	.78	1.9	880	7.6
	4-26-72	0	4.6	10	0	69	23	47	2.5	192	0	190	14	.4	.46	.00	-	270	110	447	.61	1.3	683	8.3
		230	8.9	10	20	81	32	69	2.8	220	0	270	20	.4	.96	.12	-	330	150	597	.81	1.6	892	7.7
	9- 1-72	0	4.0	10	10	57	20	43	2.7	182	0	160	13	.3	.09	.00	-	220	75	390	.53	1.2	642	8.2
		246	9.6	10	110	73	30	66	3.2	215	0	250	21	.3	.46	.25	-	310	130	561	.76	1.6	867	7.4

Table 1.--Chemical analyses of water from Flaming Gorge Reservoir - Continued

Site number	Date of collection	Depth (ft)	Milligrams per liter, except iron, manganese, and boron, which are in micrograms per liter: Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrite + Nitrate (N)	Orthophosphate (PO_4)	Boron (B)	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Dissolved solids (calculated): Milligrams per liter	Tons per acre-foot	Sodium-adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
6	4-15-71	0	5.3	40	0	61	25	67	4.3	179	0	210	19	0.7	0.30	0.00	-	260	110	482	0.66	1.8	713	8.0
		165	6.3	20	0	62	26	69	4.5	177	0	220	20	1.2	.30	.00	-	260	120	498	.68	1.9	790	8.1
7	10-23-70	0	4.5	490	-	60	22	60	3.1	168	0	210	17	.5	.10	.04	90	240	100	458	.62	1.7	675	8.2
		50	5.0	550	-	59	22	56	2.8	167	0	200	17	.5	.10	.05	100	240	100	448	.61	1.6	668	8.0
		75	6.0	210	-	65	25	66	1.8	183	0	230	18	.5	.20	.05	70	260	110	506	.69	1.8	728	8.2
		85	6.0	260	-	66	25	65	1.7	178	0	210	18	.5	.20	.04	70	270	120	479	.65	1.7	730	8.1
		100	6.3	410	-	65	26	72	2.4	190	0	240	20	.5	.20	.03	70	270	110	522	.71	1.9	772	8.2
		155	7.0	140	-	65	26	76	2.0	192	0	250	20	.5	.30	.07	70	270	110	539	.73	2.0	786	7.6
	7-30-71	0	6.0	10	0	57	19	40	2.8	199	0	130	13	.3	.01	.09	-	220	57	366	.50	1.2	561	8.0
		45	5.9	10	0	60	20	45	2.6	181	0	160	14	.2	.09	.03	-	230	84	397	.54	1.3	594	7.9
		190	7.0	10	20	65	26	66	2.8	197	0	220	20	.3	.57	.06	-	270	110	507	.69	1.8	745	7.8
	10-22-71	0	6.0	0	10	59	21	44	2.7	190	0	170	13	.3	.15	.12	-	230	78	410	.56	1.3	636	8.1
		100	6.6	0	20	62	24	64	2.5	188	0	210	17	.3	.55	.03	-	250	99	481	.65	1.7	763	7.9
		191	7.8	0	10	64	25	67	2.4	189	0	240	18	.3	.64	.12	-	260	110	520	.71	1.8	808	7.7
	4-26-72	0	4.5	10	20	73	23	49	2.5	191	0	190	15	.4	.52	.00	-	280	120	454	.62	1.3	699	8.2
		190	7.6	10	10	81	31	65	2.6	212	0	270	20	.4	1.00	.03	-	330	160	586	.80	1.6	863	7.8
	8-31-72	0	4.6	10	10	61	20	43	2.7	187	0	160	13	.3	.06	.00	-	230	81	397	.54	1.2	634	8.2
		60	4.8	10	30	65	22	43	2.6	185	0	180	13	.3	.31	.00	-	250	100	423	.58	1.2	672	7.8
		206	5.4	10	30	67	24	51	2.5	195	0	200	14	.3	.68	.06	-	270	110	463	.63	1.4	736	7.6
9	10-23-70	0	5.2	100	-	62	24	69	2.1	181	0	230	19	.5	.20	.03	70	250	100	500	.68	1.9	736	8.1
		50	5.2	280	-	61	25	69	3.1	182	0	230	18	.5	.20	.02	70	260	110	500	.68	1.9	734	8.2
		75	5.2	340	-	63	25	61	3.0	182	0	210	19	.5	.20	.01	70	260	110	472	.64	1.6	734	7.8
		100	6.0	220	-	64	27	65	2.8	192	0	210	20	.5	.20	.01	80	270	110	494	.67	1.7	762	8.3
		144	7.5	210	-	66	26	71	2.5	193	0	250	20	.5	.30	.06	80	270	110	537	.73	1.9	803	7.9
	4-15-71	0	6.0	20	0	60	25	67	4.4	174	0	210	20	.0	.30	.00	-	250	110	479	.65	1.8	755	8.1
		150	6.3	20	180	67	27	66	4.4	195	0	230	20	.1	.40	.00	-	280	120	519	.71	1.7	792	8.1
	7-30-71	0	6.4	20	0	57	19	36	2.6	207	0	120	12	.3	.01	.06	-	220	51	355	.48	1.1	569	8.1
		50	6.2	10	0	61	21	47	2.5	194	0	160	15	.3	.15	.03	-	240	80	409	.56	1.3	612	7.9
		187	6.9	10	10	67	26	67	2.7	194	0	230	21	.3	.51	.06	-	270	120	519	.71	1.8	755	7.9
	10-20-71	0	6.2	0	30	60	21	45	2.4	188	0	160	13	.3	.14	.03	-	240	82	401	.55	1.3	647	7.9
		85	6.8	100	10	61	22	52	2.9	195	0	180	14	.2	.41	.03	-	240	83	437	.59	1.5	685	7.9
		183	7.7	0	10	69	27	67	2.9	194	0	250	19	.3	.67	.21	-	280	120	541	.74	1.7	817	7.7
	4-25-72	0	4.4	10	0	65	24	48	2.5	194	0	190	15	.4	.55	.00	-	260	100	447	.61	1.3	704	8.3
		177	8.1	10	0	82	33	72	2.7	-	-	280	21	.4	1.1	.06	-	340	-	-	-	1.7	907	7.7
	8-31-72	0	4.6	10	20	59	20	40	2.7	187	0	150	13	.3	.06	.00	-	230	76	382	.52	1.1	627	8.2
		60	4.9	10	40	65	22	44	2.8	189	0	180	14	.3	.35	.03	-	250	98	428	.58	1.2	686	7.7
		199	5.6	10	20	68	26	53	2.7	196	0	210	14	.3	.69	.06	-	280	120	479	.65	1.4	753	7.7
11	10-22-70	0	6.0	290	-	62	24	72	3.0	186	0	220	19	.5	.20	.00	90	250	97	500	.68	2.0	736	8.2
		50	6.0	210	-	60	24	70	3.6	177	9	210	19	.5	.10	.00	90	250	100	494	.67	1.9	738	8.4
		80	7.0	500	-	65	29	71	3.4	195	0	240	20	.7	.20	.00	90	280	120	537	.73	1.8	801	8.2
	7-31-71	0	6.6	20	0	51	19	36	2.7	209	0	96	12	.2	.02	.12	-	210	34	327	.44	1.1	487	8.2
		50	7.6	30	0	61	24	53	3.2	208	0	170	17	.3	.21	.03	-	250	80	439	.60	1.5	705	7.9
		130	6.5	20	0	64	26	68	2.7	196	0	220	20	.3	.44	.06	-	270	110	506	.69	1.8	738	7.9
	10-22-71	0	6.7	0	10	61	22	45	2.5	194	0	160	13	.2	.29	.03	-	240	84	407	.55	1.3	649	8.0
		125	6.8	0	30	64	24	64	2.8	195	0	220	17	.3	.61	.06	-	260	99	498	.68	1.7	769	7.8
	4-28-72	0	4.6	10	0	68	24	49	2.4	195	0	190	14	.4	.63	.00	-	270	110	451	.61	1.3	701	8.3
		128	5.5	10	10	70	25	51	3.0	199	0	200	15	.4	.64	.00	-	280	110	471	.64	1.3	727	8.3
13	10-20-70	0	6.0	200	-	61	24	69	3.0	180	3	220	19	.6	.20	.00	100	250	100	496	.67	1.9	738	8.3
		50	6.0	260	-	62	23	68	2.7	185	0	220	19	.6	.20	.00	90	250	98	493	.67	1.9	724	8.3
		75	6.0	260	-	61	26	70	3.2	188	0	230	19	.6	.20	.03	90	260	110	505	.69	1.9	738	8.3
		100	6.8	30	-	63	26	72	3.1	191	0	240	20	.6	.30	.02	90	260	100	531	.72	1.9	784	8.0
		127	8.0	20	-	64	26	73	2.9	191	0	230	21	.5	.30	.07	100	270	110	524	.71	1.9	788	8.2

Table 1.--Chemical analyses of water from Flaming Gorge Reservoir - Continued

Site number	Date of collection	Depth (ft)	Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrite + Nitrate (N)	Orthophosphate (PO_4)	Boron (B)	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Dissolved solids (calculated): Milligrams per liter	Dissolved solids (calculated): Tons per acre-foot	Sodium-adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
			Milligrams per liter, except iron, manganese, and boron, which are in micrograms per liter																					
15	10-20-70	0	6.0	100	-	60	24	66	2.9	187	0	200	18	0.5	0.20	0.00	110	250	97	472	0.64	1.8	717	8.1
		50	6.0	500	-	59	25	62	2.9	183	3	200	19	.5	.10	.00	80	250	100	472	.64	1.7	723	8.3
		75	6.0	160	-	59	25	63	3.1	188	0	210	18	.5	.20	.00	110	250	96	482	.66	1.7	723	8.2
		100	6.8	580	-	62	27	66	3.7	191	0	220	20	.6	.20	.00	90	270	110	501	.68	1.8	774	8.1
		127	8.0	290	-	61	26	72	2.8	193	0	240	21	.6	.30	.01	90	260	100	524	.71	1.9	793	8.0
	4-15-71	0	6.0	20	0	66	26	77	4.2	192	0	230	19	0.	.30	.00	-	270	110	524	.71	2.0	759	8.1
		100	6.0	20	100	67	26	79	4.2	195	0	230	19	.1	.30	.00	-	270	110	529	.72	2.1	769	8.2
		130	5.4	0	0	60	24	68	3.9	186	0	220	19	.3	.30	.00	-	250	96	493	.67	1.9	765	8.1
	7-31-71	0	6.3	10	0	53	17	32	2.3	206	0	100	10	.2	.02	.03	-	200	33	322	.44	1.0	495	8.0
		50	6.6	10	0	59	22	43	2.5	203	0	170	17	.2	.16	.09	-	240	71	431	.59	1.5	636	8.2
		170	7.4	20	50	68	26	67	2.7	202	0	230	21	.2	.55	.28	-	280	110	524	.71	1.8	792	7.7
	10-22-71	0	6.4	10	20	59	21	46	2.8	199	0	160	13	.3	.26	.03	-	230	71	408	.55	1.3	643	8.0
		100	7.0	0	10	64	23	55	2.5	190	0	200	15	.3	.72	.06	-	250	99	463	.63	1.5	724	7.9
		165	8.2	0	10	69	27	69	2.4	190	0	240	19	.3	.77	.15	-	280	130	532	.72	1.8	816	7.6
	4-28-72	0	4.6	10	0	68	23	48	2.4	196	0	190	14	.4	.65	.03	-	260	100	450	.61	1.3	698	8.3
		158	6.5	10	10	71	28	60	2.6	207	0	230	17	.4	.85	.03	-	290	120	521	.71	1.5	794	7.9
	8-31-72	0	4.9	50	30	56	18	36	2.4	184	0	130	11	.3	.22	.00	-	210	63	350	.48	1.1	566	8.3
		180	6.3	120	75	70	27	55	2.5	195	0	220	14	.3	.89	.06	-	290	130	495	.67	1.4	785	7.6
18	10-21-70	0	6.6	210	-	58	21	56	2.1	180	0	190	16	.5	.10	.00	90	220	72	430	.58	1.6	668	8.2
		50	6.7	180	-	57	22	58	2.5	174	2	190	16	.6	.10	.00	110	230	87	440	.60	1.7	669	8.3
		100	7.0	450	-	62	24	61	2.8	181	0	210	17	.6	.20	.01	90	250	100	477	.65	1.7	713	7.9
	4-15-71	0	5.5	20	0	59	22	80	3.9	204	0	210	17	.3	.20	.00	-	240	71	499	.68	2.3	763	8.2
		50	5.6	10	13	58	22	73	3.8	185	0	220	15	.3	.30	.00	-	240	84	493	.67	2.1	766	8.2
		112	6.1	30	3	63	22	79	3.8	185	0	220	18	.3	.30	.03	-	250	96	505	.69	2.2	778	8.2
	7-31-71	0	5.4	10	0	48	16	24	2.1	190	0	81	7.2	.2	.09	.03	-	190	30	278	.38	.8	434	7.8
		50	6.7	10	0	55	20	46	2.7	198	0	150	15	.2	.17	.09	-	230	67	398	.54	1.3	650	7.9
		150	7.4	10	30	77	27	68	2.6	204	0	250	20	.2	.53	.12	-	300	140	555	.75	1.7	803	8.0
	10-19-71	0	6.0	90	10	56	23	41	2.2	188	0	160	12	.2	.52	.03	-	240	85	397	.54	1.2	630	7.9
		190	6.2	0	0	60	22	46	2.2	187	0	170	12	.2	.66	.03	-	240	87	413	.56	1.3	654	7.9
		148	8.8	0	10	73	28	69	2.3	192	0	260	17	.3	1.10	.12		300	140	558	.76	1.7	850	7.7
	4-27-72	0	4.0	20	0	65	24	49	2.3	191	0	190	13	.4	.69	.03	-	260	100	445	.61	1.3	692	8.1
		183	4.8	10	10	73	24	50	2.2	196	0	200	14	.4	.76	.03	-	270	110	464	.63	1.3	706	8.2
	8-30-72	0	5.3	10	30	53	17	32	2.3	176	0	120	9.0	.3	.37	.00	-	200	58	327	.44	1.0	534	8.0
		60	5.5	20	10	64	21	44	2.4	187	0	170	12	.3	.83	.00	-	250	93	415	.56	1.2	665	7.8
		162	6.8	10	40	83	29	59	2.3	196	0	280	16	.3	1.7	.06	-	330	170	580	.79	1.4	896	7.5
20	10-21-70	0	6.8	100	-	53	23	55	2.7	174	0	190	15	.5	.10	.00	80	230	87	432	.59	1.6	641	8.2
		50	6.9	0	-	53	23	53	3.0	175	0	180	15	.3	.10	.00	100	230	86	425	.58	1.5	636	8.2
		80	7.0	0	-	52	23	55	3.2	167	0	180	13	.4	.10	.00	70	220	83	413	.56	1.6	623	8.2
	4-15-71	0	5.7	20	0	60	21	82	3.6	202	0	210	18	.3	.10	.00	-	240	71	500	.68	2.3	739	8.3
		89	5.7	20	0	57	21	73	3.7	190	0	210	19	.2	.10	.03	-	230	73	484	.66	2.1	756	8.3
	7-30-71	0	4.4	10	0	45	15	21	1.9	181	0	68	6.0	.2	.04	.03	-	170	26	251	.34	.7	417	7.9
		37	5.9	20	0	59	18	34	2.3	200	0	110	9.9	.2	.21	.03	-	220	57	339	.46	1.0	507	7.4
		125	7.8	10	20	71	27	65	2.6	203	0	230	18	.2	.75	.03	-	290	120	525	.71	1.7	756	8.0
	10-19-71	0	5.1	70	30	56	20	41	2.3	185	0	150	12	.2	.45	.03	-	220	70	380	.52	1.2	604	7.9
		110	6.2	20	40	59	23	52	2.1	187	0	180	12	.2	.60	.06	-	240	89	429	.58	1.5	685	7.8
		123	6.9	50	100	62	25	58	2.4	190	0	200	14	.3	.71	.09	-	260	100	465	.63	1.6	732	7.6
	4-27-72	0	2.9	10	0	61	22	55	1.9	181	4	190	17	.4	.27	.00	-	240	88	444	.60	1.5	687	8.4
		114	3.6	10	20	62	22	52	1.9	188	0	190	15	.4	.42	.00	-	250	91	441	.60	1.4	685	8.2
	8-30-72	0	5.0	10	10	48	15	28	2.0	170	0	100	7.8	.2	.17	.00	-	180	42	290	.39	.9	487	8.2
		138	6.8	10	40	72	27	57	2.4	196	0	230	15	.3	1.1	.09	-	290	130	512	.70	1.5	816	7.5
22	4-15-71	0	7.3	60	40	56	22	55	4.0	194	0	160	18	.1	.10	.06	-	230	71	418	.57	1.6	666	8.3
		50	6.5	20	0	54	24	73	4.0	185	0	190	21	.1	.10	.03	-	230	82	464	.63	2.1	743	7.8

Table 1.--Chemical analyses of water from Flaming Gorge Reservoir - Continued

Site number	Date of collection	Depth (ft)	Milligrams per liter, except iron, manganese, and boron, which are in micrograms per liter																	Dissolved solids (calculated)		Sodium-adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
			Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrite + Nitrate (N)	Orthophosphate (PO_4)	Boron (B)	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Milligrams per liter	Tons per acre-foot			
23	10-21-70	0	6.0	200	-	51	19	42	2.9	171	0	150	10	0.4	0.10	0.00	70	200	60	364	0.49	1.3	547	8.2
		35	6.4	840	-	53	23	59	2.4	174	0	190	12	.4	.00	.00	120	230	87	437	.59	1.7	640	8.2
	7-29-71	0	6.6	30	0	47	15	25	1.8	183	0	82	6.1	.2	.05	.03	-	180	29	274	.37	.8	423	7.8
		40	7.8	20	0	50	17	30	2.1	186	0	99	9.3	.1	.17	.03	-	190	42	308	.42	.9	505	8.0
		75	9.1	20	30	66	23	50	2.5	213	0	180	16	.2	.55	.03	-	260	85	454	.62	1.4	678	7.5
	10-19-71	0	4.2	20	40	-	20	40	2.2	187	0	160	10	.2	.23	.03	-	-	-	-	-	-	599	8.0
		71	4.0	10	20	56	19	43	2.4	186	0	160	10	.3	.32	.03	-	220	65	388	.53	1.3	605	7.9
	4-27-72	0	7.1	10	0	55	19	44	2.0	191	0	140	14	.4	.04	.00	-	220	59	376	.51	1.3	592	8.2
		65	7.1	10	20	62	22	68	2.4	210	0	190	29	.4	.15	.00	-	250	73	485	.66	1.9	759	8.2
	8-30-72	0	3.6	80	20	46	16	31	1.9	167	0	110	6.6	.3	.08	.00	-	180	44	298	.41	1.0	490	8.3
		86	8.4	10	680	74	27	52	2.4	197	0	230	16	.3	1.0	.15	-	300	130	512	.70	1.3	806	7.4
24	10-21-70	0	6.0	440	-	51	19	42	2.7	169	0	150	11	.4	.10	.00	70	200	61	363	.49	1.3	552	8.2
		22	6.3	140	-	52	19	49	2.4	170	0	150	12	.5	.00	.00	80	210	71	378	.51	1.5	581	8.2
	7-29-71	0	2.5	20	0	52	16	32	2.1	196	0	84	9.9	.2	.01	.03	-	200	35	295	.40	1.0	513	8.2
		35	7.6	20	0	80	23	50	2.7	218	0	180	15	.2	.40	.12	-	290	120	468	.64	1.3	693	7.8
		61	8.9	20	30	68	25	48	2.6	207	0	190	15	.3	.64	.03	-	270	100	463	.63	1.3	687	7.5
	10-19-71	0	4.0	0	0	56	20	43	2.2	187	0	160	11	.3	.20	.03	-	220	69	389	.53	1.3	610	8.0
		60	4.1	0	30	55	20	44	2.0	181	0	160	10	.3	.24	.03	-	220	71	386	.53	1.3	619	8.0
	4-27-72	0	7.1	10	10	58	19	40	2.0	200	0	140	13	.3	.04	.00	-	220	59	378	.51	1.2	574	8.1
		52	9.8	10	10	62	19	82	2.5	225	0	170	41	.4	.29	.03	-	230	48	499	.68	2.3	784	8.2
25	4-13-71	0	8.3	300	0	49	20	46	4.8	209	0	96	20	.1	.20	.21	-	200	33	348	.47	1.4	554	8.0
		15	8.2	30	33	45	20	38	5.0	193	0	96	20	.1	.20	.28	-	190	36	328	.45	1.2	522	7.9
26.5	7-29-71	0	8.4	20	0	110	36	120	3.8	265	0	410	38	.4	.28	.12	-	420	210	858	1.17	2.5	1,250	8.3
		30	11	30	10	110	41	160	4.2	282	0	480	54	.4	.50	.03	-	440	210	1,000	1.36	3.3	1,470	8.1
	10-19-71	0	3.3	30	20	64	26	68	2.3	186	0	230	19	.3	.82	.15	-	270	110	508	.69	1.8	797	7.7
		28	3.7	50	30	100	49	180	3.9	220	0	530	56	.5	.56	.15	-	450	270	1,030	1.40	3.7	1,530	7.9
	4-27-72	0	9.4	10	10	71	22	57	2.6	246	0	140	35	.4	.15	.03	-	270	66	459	.62	1.5	725	8.2
		14	9.4	10	20	71	22	57	2.7	252	0	150	35	.4	.14	.09	-	270	61	472	.64	1.5	725	8.2
	8-30-72	0	4.4	20	50	57	21	43	2.4	180	0	150	13	.3	.43	.00	-	230	81	382	.52	1.2	610	8.1
		39	5.4	20	58	77	37	98	3.6	192	0	340	33	.4	.73	.00	-	340	190	692	.94	2.3	1,060	7.8
28	10-21-70	0	5.7	260	-	50	18	39	1.9	168	0	130	10	.5	.00	.00	70	200	62	334	.45	1.2	527	8.2
		25	6.0	360	-	50	19	41	1.6	170	0	130	10	.5	.00	.00	70	200	61	344	.47	1.2	537	8.2
	4-13-71	0	7.0	50	77	56	22	52	3.4	218	0	150	12	.1	.10	.92	-	230	52	411	.56	1.5	636	8.1
		25	6.9	40	0	57	23	58	3.5	199	0	170	13	.1	.10	.12	-	240	74	430	.58	1.6	624	8.0
	7-29-71	0	7.1	20	0	42	14	23	1.7	173	0	72	5.3	.2	.06	.03	-	160	21	251	.34	.8	416	7.9
		35	9.1	20	10	63	21	41	2.4	205	0	140	14	.3	.47	.40	-	240	76	394	.54	1.1	600	7.9
		65	9.0	30	40	69	24	48	2.5	207	0	190	15	.3	.70	.03	-	270	100	463	.63	1.3	684	7.8
	10-19-71	0	3.5	10	10	53	20	40	1.9	178	0	150	9.1	.3	.21	.03	-	210	69	366	.50	1.2	586	8.0
		62	2.8	60	40	52	19	41	2.1	179	0	150	10	.2	.25	.03	-	210	61	366	.50	1.2	584	8.0
	4-27-72	0	7.0	20	0	56	19	36	1.9	189	0	130	10	.3	.04	.00	-	220	63	353	.48	1.1	548	8.2
		53	8.1	20	0	64	22	67	2.5	210	0	180	30	.4	.23	.03	-	250	78	478	.65	1.8	745	8.2
30	8-30-72	0	3.3	10	30	44	16	31	1.6	162	0	110	5.2	.3	.02	.00	-	180	43	291	.40	1.0	475	8.3
		42	5.3	20	20	45	17	32	1.6	159	0	110	4.8	.2	.02	.00	-	180	52	294	.40	1.0	490	8.1

Table 2.--Chemical analyses of water from selected streams in the Flaming Gorge Reservoir area

09217000 GREEN RIVER NEAR GREEN RIVER, WYO. (A)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
01-18	--	2360	4.4	--	47	9.8	28	1.8	127	0	102	3.7
19-31	--	1270	2.1	--	50	18	45	1.6	163	0	158	5.6
NOV.												
01-10	--	1060	1.8	--	51	21	51	1.5	153	0	181	7.1
11-21	--	908	1.8	--	55	21	57	1.5	155	0	202	7.9
22-26	--	322	3.2	--	80	35	120	1.9	188	0	410	15
27-30	--	952	.8	--	53	19	45	1.9	168	0	166	6.0
DEC.												
01-02	--	952	.8	--	53	19	45	1.9	168	0	166	6.0
03-15	--	449	3.2	--	78	30	100	2.2	192	0	358	12
16-28	--	516	3.5	--	78	29	95	2.2	197	0	338	9.4
29-31	--	704	4.5	--	68	24	65	2.1	188	0	230	7.7
JAN.												
01-07	--	704	4.5	--	68	24	65	2.1	188	0	230	7.7
08-18	--	819	5.4	--	66	21	57	2.1	184	0	206	6.8
19-31	--	902	5.2	--	69	18	50	1.9	187	0	194	6.3
FEB.												
01-14	--	1600	5.5	--	62	14	32	2.0	177	0	130	5.2
15-28	--	1610	4.8	--	53	18	31	1.8	172	0	123	4.3
MAR.												
01-14	--	1500	4.9	--	58	18	34	1.4	178	0	134	5.7
15-25	--	1020	5.8	--	71	25	70	1.6	192	0	238	9.5
26-31	--	1370	5.2	--	58	19	50	1.6	178	0	162	7.0
APR.												
01-21	--	2020	6.2	--	51	19	46	1.4	166	0	153	7.5
22-30	--	3190	5.7	--	48	15	32	1.2	160	0	100	5.9
MAY												
01-14	--	3310	6.9	--	54	10	28	4.0	160	0	94	5.5
15-31	--	3410	6.2	--	59	5.1	25	3.0	162	0	84	4.4
JUNE												
01-10	--	4060	6.4	--	41	12	22	2.0	139	0	79	3.9
11-20	--	7940	6.9	--	44	3.9	15	1.3	117	4	52	3.2
21-30	--	2320	6.1	--	36	11	26	1.3	121	4	78	4.0
JULY												
01-07	--	2780	5.5	--	35	15	26	1.7	131	2	86	3.9
08-31	--	2430	5.0	--	39	14	27	2.0	137	2	92	3.6
AUG.												
01-15	--	1800	3.3	--	41	16	31	1.2	142	0	115	4.3
16-31	--	1350	2.8	--	45	18	41	1.2	140	0	153	5.8
SEPT.												
01-15	--	1190	3.9	--	50	18	46	2.0	148	0	161	6.8
16-30	--	1080	2.7	--	50	19	48	1.8	148	0	169	7.0
WTD. AVG.	--	--	5.2	--	50	14	34	1.9	150	1	118	5.1
TIME WTD. AVG.	--	1920	4.6	--	54	17	44	1.9	160	0	156	6.1
TONS PER DAY	--	--	27	--	255	69	172	9.7	769	4	606	26
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
11...	1540	742	4.2	110	41	13	31	1.7	129	0	104	4.3
DEC.												
18...	1315	455	7.0	20	50	41	94	1.7	185	0	310	10
MAR.												
28...	0930	1120	5.8	130	63	19	43	2.0	174	0	164	6.8
MAY												
06...	1530	3150	5.9	80	48	13	28	2.8	154	0	94	5.2
JULY												
08...	1325	1700	5.2	90	47	11	24	1.2	143	0	86	7.4
AUG.												
26...	1450	1270	3.2	--	51	16	41	1.9	144	0	144	5.5
SEPT.												
23...	1355	1070	2.5	60	48	18	44	1.9	129	8	160	4.4

Table 2.--Continued

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	BORON (B) (UG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.												
01-18	.3	.2	20	259	.40	1890	158	54	1.0	429	8.0	--
19-31	.3	.1	40	361	.54	1360	201	67	1.4	569	8.0	--
NOV.												
01-10	.3	.3	30	390	.55	1170	212	86	1.5	610	7.4	--
11-21	.2	.2	40	423	.58	1050	224	97	1.7	649	7.6	--
22-26	.3	.1	100	758	1.06	680	344	190	2.8	1090	7.8	--
27-30	.2	.0	30	375	.49	925	209	71	1.3	595	7.7	--
DEC.												
01-02	.2	.0	30	375	.49	925	209	71	1.3	595	7.7	--
03-15	.3	.0	80	678	.93	829	319	161	2.4	992	7.8	--
16-28	.3	.0	60	652	.88	906	314	152	2.3	953	7.5	--
29-31	.3	.0	60	494	.66	928	270	116	1.7	741	7.8	--
JAN.												
01-07	.3	.0	60	494	.66	928	270	116	1.7	741	7.8	--
08-18	.2	.0	40	456	.61	1000	251	100	1.6	686	7.8	--
19-31	.3	.0	30	437	.59	1050	248	95	1.4	665	7.7	--
FEB.												
01-14	.3	.1	30	338	.45	1440	213	68	1.0	545	7.8	--
15-28	.3	.1	20	321	.47	1490	204	63	.9	515	7.7	--
MAR.												
01-14	.3	.0	60	344	.48	1420	219	73	1.0	553	8.1	--
15-25	.3	.1	50	515	.72	1450	280	122	1.8	779	8.1	--
26-31	.2	.0	160	391	.54	1470	222	76	1.5	601	8.1	--
APR.												
01-21	.3	.2	60	367	.50	2020	204	68	1.4	573	8.1	--
22-30	.3	.2	30	285	.39	2480	182	51	1.0	456	8.1	16
MAY												
01-14	.2	.2	0	282	.38	2500	177	46	.9	453	8.2	--
15-31	.1	.2	0	267	.35	2390	168	35	.8	422	8.1	--
JUNE												
01-10	.2	.0	40	234	.32	2610	152	38	.8	388	7.9	--
11-20	.6	.3	10	189	.26	4070	126	23	.6	306	8.5	--
21-30	.2	.3	0	227	.32	1480	136	30	1.0	374	8.5	--
JULY												
01-07	.1	.1	30	239	.33	1850	149	38	.9	396	8.4	--
08-31	.2	.1	30	252	.35	1690	157	41	.9	416	8.3	--
AUG.												
01-15	.1	.1	40	282	.44	1580	169	53	1.0	473	7.1	--
16-31	.1	.1	50	336	.51	1380	186	71	1.3	537	7.3	--
SEPT.												
01-15	.2	.1	40	361	.51	1220	--	--	1.4	559	7.7	--
16-30	.2	.0	20	371	.53	1140	--	--	1.5	581	7.3	--
WTD. AVG. TIME	.3	.1	0	303	--	--	179	55	1.1	482	8.0	--
WTD. AVG. TONS PER DAY	.2	.1	38	363	.51	--	206	73	1.3	567	7.9	--
	1.4	.8	0	1550	--	--	--	--	--	--	--	--
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
11...	.3	.2	40	263	.36	529	156	50	1.1	457	7.7	12
DEC.												
18...	.3	.5	50	606	.83	747	292	140	2.4	891	7.4	0
MAR.												
28...	.6	.0	20	390	.58	1290	235	92	1.2	643	7.1	0
MAY												
06...	.5	.5	20	274	.38	2350	175	49	.9	460	7.5	13
JULY												
08...	.4	.3	0	253	.35	1190	168	51	.8	448	8.2	17
AUG.												
26...	.2	.1	50	334	.46	1170	194	76	1.3	540	8.2	22
SEPT.												
23...	.2	.1	20	370	.49	1030	196	77	1.4	549	8.7	15

Table 2.--Continued

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
01-12	--	1120	3.3	--	52	19	50	2.4	152	0	168	7.1
13-31	--	1440	3.7	--	52	18	43	2.3	158	0	152	6.4
NOV.												
01-15	--	943	3.6	--	58	21	58	2.3	162	0	196	8.2
16-30	--	726	4.7	--	63	22	60	2.3	176	0	208	8.[illegible]
DEC.												
01-13	--	712	5.7	--	66	24	63	2.1	184	0	235	10
14-25	--	713	5.3	--	67	24	62	1.2	187	0	225	10
26-31	--	581	6.2	--	74	27	68	1.9	209	0	251	10
JAN.												
01-08	--	606	7.3	--	78	29	68	2.6	216	0	261	10
09-17	--	656	6.7	--	68	24	56	1.9	200	0	211	8.3
18-31	--	600	6.0	--	72	28	72	1.8	200	0	263	11
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
16...	1020	1870	6.5	170	49	21	35	1.4	162	0	142	7.3
23...	1815	1420	2.6	40	50	19	43	1.3	153	3	153	6.2
NOV.												
21...	1230	a775	3.2	0	58	23	57	2.3	174	0	203	7.7
DEC.												
01...	1700	a750	3.7	0	66	24	56	2.1	183	0	219	8.5
JAN., 1970												
16...	1615	a670	6.5	30	65	24	54	1.7	192	0	205	7.7
FEB.												
09...	1625	a605	6.3	10	70	26	62	2.0	194	0	247	9.4
MAR.												
07...	1715	682	8.3	40	69	26	65	1.9	198	0	248	10
APR.												
10...	1130	2110	6.9	20	57	24	77	2.8	185	0	219	28
MAY												
05...	1830	668	4.3	90	66	28	81	2.1	179	0	274	19
JUNE												
05...	0800	3560	7.5	30	52	16	24	2.1	176	0	95	4.8
JULY												
12...	1245	2260	6.1	40	40	14	26	1.6	141	0	87	3.9
AUG.												
05...	1700	1490	6.2	40	44	15	33	1.8	151	0	110	4.4
SEP.												
04...	0930	1500	6.3	120	43	16	35	1.2	142	4	108	4.3

a Daily mean discharge.

Table 2.--Continued

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.												
01-12	.2	.1	60	377	.52	1170	208	83	1.5	589	7.9	--
13-31	.3	.1	50	356	.47	1340	204	74	1.3	553	7.5	--
NOV.												
01-15	.3	.1	60	428	.61	1140	231	98	1.7	655	7.5	--
16-30	.3	.1	70	455	.61	886	248	104	1.7	698	7.5	--
DEC.												
01-13	.3	.4	50	496	.69	973	263	112	1.7	747	8.1	--
14-25	.2	.0	60	487	.67	955	266	113	1.7	762	7.7	--
26-31	.3	.0	60	541	.74	853	296	125	1.7	808	7.9	--
JAN.												
01-08	.9	.0	60	563	.78	936	314	296	1.7	842	8.0	--
09-17	.8	.0	70	475	.66	854	268	104	1.5	732	7.9	--
18-31	.9	.1	80	553	.78	923	294	130	1.8	836	7.9	--
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
16...	.4	.2	20	342	.48	1770	210	77	1.1	547	7.8	5.5
23...	.2	.1	50	354	.50	1400	203	72	1.3	559	8.4	10.5
NOV.												
21...	.3	.1	40	440	.63	963	238	95	1.6	671	8.2	1.0
DEC.												
01...	.2	.1	90	470	.65	964	265	115	1.5	735	8.1	.0
JAN., 1970												
16...	.3	.3	50	457	.61	814	260	102	1.5	714	7.9	.0
FEB.												
09...	.8	.0	60	518	.72	859	282	123	1.6	776	7.5	.5
MAR.												
07...	.8	.3	60	526	.71	961	279	117	1.7	784	8.2	2.5
APR.												
10...	.9	.1	70	507	.69	2890	240	88	2.2	801	8.0	6.5
MAY												
05...	.9	.2	80	564	.84	1120	280	133	2.1	858	8.2	16.0
JUNE												
05...	.3	.1	30	288	.42	2960	196	52	.7	476	8.0	13.5
JULY												
12...	.3	.1	50	248	.35	1590	158	42	.9	413	7.3	19.0
AUG.												
05...	.3	.2	50	289	.42	1240	172	48	1.1	472	8.1	23.0
SEP.												
04...	.2	.0	50	288	.39	1150	173	50	1.2	473	8.5	15.0

Table 2.--Continued

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.--Continued

Water quality data, water year October 1970 to September 1971

Date	Discharge (cfs)	Silica (SiO_2) (mg/l)	Total Iron (Fe) (µg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sodium (Na) (mg/l)	Potassium (K) (mg/l)	Bicarbonate (HCO_3) (mg/l)	Carbonate (CO_3) (mg/l)	Sulfate (SO_4) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)
Oct. 11	1,460	6.6	70	48	17	40	1.6	153	4	130	6.9	0.2
Nov. 04	653	5.2	10	64	25	68	1.9	181	0	250	8.9	.3
07	182	6.4	50	75	14	11	.4	189	0	110	3.9	.4
Dec. 01	776	5.2	70	56	22	57	1.6	173	5	200	8.0	.3
Jan. 12	614	7.4	30	68	24	52	1.6	205	0	200	7.8	.3
Feb. 04	807	7.6	560	57	19	61	2.6	180	0	190	9.2	.2
Mar. 06	860	9.5	580	53	38	49	2.0	195	0	200	12	.3
Apr. 07	1,590	7.3	20	61	19	40	2.2	182	0	160	9.0	.4
May 08	3,310	8.0	40	56	17	33	2.7	180	0	120	9.8	.3
June 07	7,580	7.2	90	44	14	13	2.0	167	0	58	3.7	.3
July 10	5,020	7.3	20	35	12	14	1.3	150	0	42	2.9	.4
Aug. 07	2,190	6.6	30	43	15	26	1.6	171	0	85	4.5	.0
Sep. 03	1,290	1.6	20	42	18	37	1.7	148	0	130	6.0	.2

Table 2.--Continued

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.--Continued

Water quality data, water year October 1970 to September 1971

Date	Nitrate (NO_3) (mg/l)	Boron (B) (µg/l)	Dissolved solids: Residue at 180°C (mg/l)	Dissolved solids: Sum of constituents (mg/l)	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness (Ca, Mg) (mg/l)	Noncarbonate hardness (mg/l)	Sodium adsorption ratio	Specific conductance (micromhos per centimeter)	pH	Temperature (°C)
Oct.												
11	0.0	40	364	330	0.50	1,440	190	58	1.3	530	8.4	7.5
Nov.												
04	.1	0	512	508	.70	903	260	112	1.8	775	8.0	3.0
07	.0	80	324	314	.44	159	240	85	.3	504	8.2	.5
Dec.												
01	.0	50	456	440	.62	955	230	80	1.6	689	8.4	.5
Jan.												
12	.4	60	472	467	.64	782	270	102	1.4	718	8.1	.0
Feb.												
04	.6	70	436	439	.59	950	220	72	1.8	664	8.1	.0
Mar.												
06	.3	90	458	463	.62	1,060	290	130	1.3	671	8.0	.0
Apr.												
07	.1	90	380	387	.52	1,630	230	81	1.1	572	8.3	8.0
May												
08	.2	50	326	331	.44	2,910	210	62	1.0	491	8.3	9.0
June												
07	.6	50	236	225	.32	4,830	170	33	.4	376	8.1	15.5
July												
10	-	50	-	189	.26	2,560	140	14	.5	320	8.1	18.5
Aug.												
07	-	60	-	266	.36	1,570	170	29	.9	427	8.0	23.0
Sep.												
03	-	80	-	310	.42	1,080	180	58	1.2	501	8.2	15.0

Table 2.--Continued

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1.....	410	603	596	783	615	524	582	430	388	360	415	566
2.....	418	598	678	752	566	517	611	438	394	364	426	572
3.....	413	598	893	728	557	527	576	444	355	406	417	596
4.....	418	590	1040	752	557	536	616	446	366	402	423	562
5.....	412	647	1170	733	557	524	617	448	369	404	433	573
6.....	409	632	997	720	544	529	575	450	372	423	452	575
7.....	412	634	977	719	518	524	549	446	372	435	481	557
8.....	416	560	1020	694	515	533	548	445	414	456	506	559
9.....	422	605	994	695	518	514	540	448	417	498	496	582
10.....	420	613	926	755	518	544	540	444	415	501	491	576
11.....	440	751	911	695	516	600	610	444	343	477	505	577
12.....	425	670	944	693	513	554	577	443	299	459	513	582
13.....	425	657	1040	675	509	603	625	442	306	457	503	589
14.....	439	675	1040	671	522	672	606	437	284	462	513	584
15.....	444	652	985	670	520	763	583	446	289	461	509	573
16.....	440	655	892	704	508	815	564	429	282	468	510	569
17.....	442	647	907	700	509	796	585	426	303	466	509	567
18.....	442	534	905	711	517	764	568	431	314	404	509	563
19.....	494	540	970	685	512	758	546	432	323	404	522	567
20.....	529	646	970	657	519	797	550	434	332	392	512	567
21.....	520	729	959	667	512	788	548	434	406	385	527	589
22.....	563	806	985	686	518	771	481	407	452	383	528	564
23.....	562	1090	956	705	511	775	479	396	453	383	529	570
24.....	552	1090	985	747	508	808	480	397	457	380	527	583
25.....	552	1240	988	749	514	822	445	392	460	397	538	596
26.....	551	1270	979	676	515	682	444	416	334	392	537	606
27.....	571	734	991	675	522	616	447	417	334	389	550	651
28.....	570	516	979	647	522	608	446	444	333	400	571	644
29.....	569	517	763	639	--	587	450	442	327	418	568	628
30.....	648	523	781	605	--	572	449	401	332	414	561	657
31.....	674	--	770	615	--	566	--	403	--	416	557	--
AVERAGE	483	700	935	696	526	644	541	430	360	421	504	584

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	675	595	728	858	890	757	527	796	524	399	461	469
2	677	589	735	851	882	814	624	774	503	405	468	477
3	627	592	758	884	910	816	640	783	498	391	464	462
4	630	594	770	881	910	768	577	773	492	390	475	485
5	627	616	757	830	865	764	574	762	474	396	476	478
6	605	614	749	815	865	803	555	787	479	389	479	480
7	600	645	760	828	817	806	564	827	479	394	486	497
8	581	651	736	808	817	804	569	729	474	397	484	490
9	581	669	757	748	791	803	587	704	469	394	483	489
10	563	672	735	740	818	808	571	698	457	411	467	483
11	560	662	761	748	819	805	600	680	451	405	477	484
12	548	670	733	739	819	718	605	676	424	408	477	485
13	477	681	754	741	822	794	605	675	465	406	489	485
14	476	709	694	736	803	797	610	659	491	408	489	475
15	560	688	731	727	832	854	649	631	426	418	476	490
16	591	691	754	712	835	814	677	629	415	452	480	490
17	533	701	732	714	802	774	814	607	408	454	475	522
18	532	716	719	777	800	772	814	623	382	456	513	524
19	548	828	752	779	852	683	753	574	377	444	613	495
20	547	519	759	803	845	667	855	573	370	449	514	495
21	561	509	755	801	774	662	774	576	365	452	615	503
22	564	685	748	801	772	663	822	574	364	460	574	586
23	562	691	793	837	780	636	755	570	365	472	591	553
24	584	764	792	803	785	632	768	559	367	474	507	658
25	586	566	746	842	817	580	762	565	376	476	517	920
26	587	688	831	887	812	582	771	558	372	466	479	1080
27	590	642	830	892	814	579	854	537	388	483	478	832
28	589	711	776	851	817	585	877	530	387	469	489	879
29	604	758	776	849	---	576	844	527	387	498	498	724
30	598	724	851	928	---	574	841	526	410	497	484	791
31	605	---	849	936	---	580	---	512	---	486	490	---
MONTH	580	661	762	811	827	718	695	645	428	435	499	576
YEAR	635											

Table 2.--Continued

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.--Continued

Specific conductance (micromhos at 25°C), water year October 1970 to September 1971

Day	October	November	December	January	February	March	April	May	June	July	August	September
1	810	910	722	789	569	735	634	562	413	307	403	491
2	869	915	787	789	537	768	581	546	433	296	390	502
3	848	889	724	818	588	750	582	548	408	290	389	509
4	863	848	654	820	664	759	596	544	402	296	398	512
5	748	884	658	802	696	714	589	540	386	290	413	517
6	752	756	687	858	697	714	601	535	386	295	420	498
7	574	756	688	804	764	699	600	525	384	296	430	519
8	541	869	804	861	722	682	607	525	370	303	426	513
9	526	867	669	837	728	683	619	529	368	312	417	544
10	523	787	800	839	733	696	584	531	359	321	423	518
11	546	792	734	748	680	650	593	524	356	339	414	536
12	548	798	750	739	682	662	591	516	360	357	416	508
13	527	793	694	751	701	649	572	516	363	386	447	522
14	575	670	745	752	699	651	566	508	358	430	432	522
15	547	620	711	754	617	685	563	495	357	440	435	530
16	598	611	773	779	660	690	567	479	349	437	435	525
17	544	545	775	755	689	721	588	476	354	443	439	528
18	688	702	727	779	657	803	584	470	352	443	457	532
19	542	705	732	826	680	718	583	468	348	424	457	528
20	566	719	1,000	678	711	749	559	464	348	484	451	518
21	653	708	987	719	729	750	567	464	338	434	454	536
22	612	710	807	802	648	738	740	462	343	364	454	532
23	647	828	802	828	720	690	635	464	338	350	449	532
24	713	729	815	854	672	652	610	457	326	346	446	529
25	710	740	819	801	713	640	612	455	330	341	439	535
26	823	774	861	749	735	624	611	437	320	341	477	541
27	759	775	832	726	792	579	580	442	321	343	500	550
28	738	781	848	754	744	590	569	434	312	351	486	536
29	847	775	828	728	-	573	566	422	308	361	482	534
30	747	713	799	661	-	558	558	416	310	378	498	562
31	773	-	804	664	-	605	-	419	-	390	494	-

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO. (B)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
01-10	--	64	4.6	--	121	51	250	3.9	237	0	730	87
11-20	--	70	5.7	--	103	47	290	4.3	268	0	710	88
21-31	--	81	7.5	--	96	50	220	4.3	237	0	585	76
NOV.												
01-15	--	75	7.2	--	63	51	300	5.1	335	0	630	87
16-24	--	95	7.2	--	55	55	322	5.1	380	0	620	93
25-30	--	80	9.3	--	103	62	272	2.6	337	0	690	101
DEC.												
01-08	--	74	11	--	157	61	244	5.1	354	0	704	106
09-23	--	64	11	--	103	50	272	4.3	404	0	584	79
24-29	--	69	11	--	90	47	260	4.0	396	0	556	64
30-31	--	66	11	--	37	46	480	4.2	602	80	575	70
JAN.												
01-03	--	66	11	--	37	46	480	4.2	602	80	575	70
04-17	--	91	10	--	79	44	284	4.2	394	0	544	67
18-31	--	100	8.8	--	9.9	35	324	3.8	365	35	416	53
FEB.												
01-15	--	73	9.5	--	99	36	150	4.1	328	0	371	55
16-28	--	51	10	--	79	32	168	3.7	346	1	344	50
MAR.												
01-21	--	53	9.7	--	90	32	148	3.1	316	6	310	49
22-28	--	128	8.2	--	72	23	162	3.1	239	3	322	51
29-31	--	825	10	--	68	24	94	4.1	219	0	211	48
APR.												
01-14	--	825	10	--	68	24	94	4.1	219	0	211	48
15-30	--	1240	9.0	--	64	21	54	2.8	231	0	121	27
MAY												
01-23	--	1290	8.4	--	53	16	28	2.5	178	9	76	14
24-31	--	610	8.7	--	72	14	64	2.8	178	0	189	25
JUNE												
01-08	--	357	11	--	104	20	105	2.9	243	0	295	36
09-30	--	573	14	--	78	44	157	3.7	297	0	364	61
JULY												
01-14	--	178	7.4	--	104	42	148	4.1	255	6	428	56
15-31	--	86	5.6	--	94	51	200	4.5	205	7	570	65
AUG.												
01-08	--	88	9.9	--	88	40	193	4.5	214	0	515	65
09-31	--	38	3.7	--	72	42	265	4.0	240	0	620	67
SEPT.												
01-09	--	19	.5	--	22	40	346	4.2	264	0	640	70
10-30	--	15	1.2	--	18	53	490	5.0	368	0	890	94
WTD. AVG.	--	--	9.4	--	68	27	101	3.3	235	4	234	38
TIME WTD. AVG.	--	283	8.1	--	75	39	215	3.9	292	4	467	62
TONS PER DAY	--	--	7.2	--	52	20	77	2.5	179	3	179	29
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
15...	1545	70	5.6	500	103	35	348	4.6	345	7	708	102
DEC.												
19...	1345	62	10	20	181	16	219	3.8	345	0	573	77
MAR.												
25...	1420	125	8.6	120	81	30	154	2.9	228	0	371	53
AUG.												
28...	0730	17	1.4	--	58	45	250	4.3	155	3	652	65
JULY												
13...	1730	102	5.4	50	103	52	163	3.7	234	0	540	59
SEPT.												
23...	1700	9.9	2.8	70	16	54	515	5.1	191	122	835	86

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	BORON (B) (UG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.												
01-10	.7	.1	350	1370	1.96	249	513	319	4.8	1940	8.2	--
11-20	.6	.1	60	1380	1.97	274	451	231	5.9	2010	8.0	--
21-31	.6	.2	20	1160	1.66	267	445	251	4.5	1700	8.2	--
NOV.												
01-15	.6	.1	240	1310	1.85	275	366	91	6.8	1950	8.1	--
16-24	.5	.4	210	1350	1.90	359	362	50	7.3	2010	7.9	--
25-30	.6	2.1	320	1410	2.00	318	510	234	5.2	2020	8.0	--
DEC.												
01-08	.6	1.5	290	1460	2.05	302	643	353	4.2	2000	8.0	--
09-23	.5	.2	210	1300	2.03	257	462	131	5.5	1860	8.0	--
24-29	.4	1.7	210	1230	1.78	244	418	93	5.5	1770	7.9	--
30-31	.5	.1	260	1600	2.14	280	281	0	12	2290	9.1	--
JAN.												
01-03	.5	.1	260	1600	2.14	280	281	0	12	2290	9.1	--
04-17	.5	.1	210	1230	1.67	302	379	56	6.4	1770	8.2	--
18-31	.3	.0	150	1070	1.44	286	169	0	11	1610	9.1	--
FEB.												
01-15	.5	.2	160	886	1.25	181	394	125	3.3	1310	8.1	--
16-28	.4	.6	130	859	1.20	122	330	45	4.0	1280	8.3	--
MAR.												
01-21	.4	.9	140	804	1.11	117	356	87	3.4	1200	8.4	--
22-28	.4	1.1	160	764	1.08	274	275	74	4.3	1170	8.4	--
29-31	.4	.1	140	568	.80	1310	269	89	2.5	900	7.9	--
APR.												
01-14	.4	.1	140	568	.80	1310	269	89	2.5	900	7.9	--
15-30	.3	.2	70	413	.57	1400	244	55	1.5	671	7.9	--
MAY												
01-23	.2	.2	0	295	.41	1040	201	40	.9	479	8.6	--
24-31	.3	.2	60	464	.68	823	236	90	1.8	747	8.0	--
JUNE												
01-08	.4	.3	170	695	.94	663	342	143	2.5	1030	7.7	--
09-30	.6	.5	250	869	1.21	1380	377	133	3.5	1310	7.9	--
JULY												
01-14	.5	.2	0	921	1.29	458	432	213	3.1	1350	8.4	--
15-31	.6	.1	280	1100	1.58	269	443	263	4.1	1610	8.5	--
AUG.												
01-08	.5	.1	240	1020	1.47	257	383	207	4.3	1480	7.7	--
09-31	.5	.2	310	1190	1.73	130	354	157	6.1	1750	8.1	--
SEPT.												
01-09	.6	.3	290	1250	1.70	64.1	220	3	10	1840	7.9	--
10-30	.6	.2	430	1730	2.39	71.3	263	0	13	2510	8.2	--
WTD. AVG.	.4	.3	0	601	--	--	281	86	2.5	923	8.2	--
TIME WTD. AVG.	.5	.3	190	1020	1.48	--	350	119	5.1	1500	8.2	--
TONS PER DAY	.3	.2	0	459	--	--	--	--	--	--	--	--
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
15...	.7	.3	410	1490	2.11	293	399	104	7.6	2100	8.4	8
DEC.												
18...	.5	.2	210	1250	1.71	211	516	233	4.2	1750	7.9	0
MAR.												
25...	.5	.4	170	814	1.13	280	327	140	3.7	1200	7.8	0
AUG.												
28...	.5	.1	330	1160	1.55	52.3	329	197	6.0	1610	8.4	18
JULY												
13...	.5	.2	250	1040	1.46	295	471	279	3.3	1480	8.0	22
SEPT.												
23...	.6	.3	400	1730	2.33	45.7	263	0	14	2460	9.8	18

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
01-14	--	31	4.6	--	44	64	505	4.6	353	0	980	115
15-31	--	59	9.2	--	34	36	359	4.4	348	0	578	75
NOV.												
01-14	--	44	8.2	--	130	76	409	5.6	338	0	1010	127
15-30	--	38	7.8	--	95	68	364	5.5	347	0	855	117
DEC.												
01-15	--	35	8.8	--	167	72	290	4.4	388	0	840	110
16-31	--	29	8.4	--	55	58	365	4.0	369	0	695	100
JAN.												
01-13	--	19	12	--	138	64	342	6.0	434	7	780	94
14-20	--	17	11	--	60	58	421	6.0	450	40	730	92
21-31	--	49	9.8	--	98	44	215	4.5	281	0	545	76
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
23...	1710	57	9.7	30	87	34	219	3.3	236	8	499	61
NOV.												
22...	1615	a48	8.1	0	160	80	320	7.0	326	3	945	110
DEC.												
02...	1100	a38	8.1	0	161	80	310	6.3	385	8	870	117
JAN., 1970												
17...	1230	a18	12	60	50	58	467	4.3	422	81	785	87
FEB.												
10...	1720	a96	8.5	10	100	38	216	4.9	267	0	570	56
MAR.												
08...	1230	a140	7.8	50	89	37	124	4.0	237	0	356	66
APR.												
08...	1515	510	14	50	89	35	191	4.7	277	0	409	100
MAY												
07...	1830	604	5.1	100	65	24	80	3.5	256	0	172	45
JUNE												
06...	1215	1210	11	60	57	17	47	3.0	182	0	144	16
JULY												
15...	1230	176	11	90	123	49	223	4.4	277	0	644	80
AUG.												
06...	1700	48	7.5	140	76	54	278	4.8	200	12	706	72
SEP.												
04...	1510	7.6	4.9	20	97	54	337	3.2	119	0	970	67

a Daily mean discharge.

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.												
01-14	.6	.1	390	1890	2.52	155	373	83	11	2600	8.1	--
15-31	.5	.1	310	1270	1.70	199	233	0	10	1870	7.9	--
NOV.												
01-14	.7	.2	480	1930	2.71	236	638	361	7.0	2660	7.9	--
15-30	.6	.1	400	1680	2.38	180	517	232	7.0	2420	7.9	--
DEC.												
01-15	.6	.1	370	1680	2.39	166	712	394	4.7	2300	8.1	--
16-31	.5	.0	310	1470	2.01	116	376	73	8.2	2120	8.0	--
JAN.												
01-13	1.9	2.3	370	1660	2.26	85.2	608	240	6.0	2250	8.4	--
14-20	1.8	.3	330	1640	2.31	78.0	388	0	9.3	2380	8.8	--
21-31	1.5	.8	260	1120	1.59	155	426	195	4.5	1650	8.1	--
ANALYSES OF ADDITIONAL SAMPLES												
OCT.												
23...	.6	1.7	0	1040	1.36	154	357	150	5.0	1490	8.5	10.0
NOV.												
22...	.6	.2	340	1790	2.50	238	727	455	5.2	2330	8.3	1.5
DEC.												
02...	.6	.1	420	1750	2.43	184	732	403	5.0	2360	8.4	.0
JAN., 1970												
17...	1.0	.2	320	1750	2.39	85.5	364	0	11	2440	9.1	.5
FEB.												
10...	1.2	.0	190	112	1.19	228	406	187	4.7	1650	8.0	.5
MAR.												
08...	.9	.0	190	802	1.12	310	374	180	2.8	1220	8.1	1.0
APR.												
08...	1.3	.6	230	981	1.33	1340	366	139	4.3	1440	7.9	7.5
MAY												
07...	.8	.3	90	522	.76	910	260	50	2.2	828	8.0	13.5
JUNE												
06...	.4	.2	120	386	.54	1300	212	63	1.4	608	8.0	17.5
JULY												
15...	.8	.4	530	1270	1.82	637	508	281	4.3	1810	8.1	20.5
AUG.												
06...	.6	.2	390	1310	1.86	178	412	228	6.0	1890	8.6	25.5
SEP.												
04...	.7	.0	400	1590	2.18	32.8	464	366	6.8	2130	8.2	15.5

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.--Continued

Water quality data, water year October 1970 to September 1971

Date	Discharge (cfs)	Silica (SiO_2) (mg/l)	Total Iron (Fe) (µg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sodium (Na) (mg/l)	Potassium (K) (mg/l)	Bicarbonate (HCO_3) (mg/l)	Carbonate (CO_3) (mg/l)	Sulfate (SO_4) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)
Oct. 15	88	10	70	120	52	260	3.2	252	0	750	73	1.0
Nov. 05	69	8.7	10	99	40	150	3.0	242	0	460	55	.5
Dec. 01	66	9.4	130	90	36	170	3.2	252	12	440	61	.4
Jan. 10	41	6.2	10	120	44	180	3.0	337	0	510	53	.5
Feb. 02	876	8.8	0	38	18	67	2.4	146	0	150	25	.4
Mar. 05	116	12	30	67	67	150	4.0	352	13	390	68	.5
Apr. 06	530	9.0	30	72	21	48	4.2	220	0	150	28	.4
May 08	1,550	12	230	60	18	35	3.3	198	0	100	18	.4
June 07	1,560	8.9	30	64	15	39	2.7	206	0	110	16	.4
July 14	558	10	30	110	34	82	3.1	246	0	360	29	.6
Aug. 08	120	5.6	40	110	45	160	3.4	218	0	550	52	.3
Sep. 02	48	3.0	80	98	60	240	3.9	198	0	740	63	1.1

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.--Continued

Water quality data, water year October 1970 to September 1971

Date	Nitrate (NO_3) (mg/l)	Boron (B) (µg/l)	Dissolved solids: Residue at 180°C (mg/l)	Dissolved solids: Sum of constituents (mg/l)	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness (Ca, Mg) (mg/l)	Noncarbonate hardness (mg/l)	Sodium adsorption ratio	Specific conductance (micromhos per centimeter)	pH	Temperature (°C)
Oct. 15	0.3	300	1,470	1,390	2.00	349	510	303	5.0	1,960	8.1	3.0
Nov. 05	.1	130	968	935	1.32	180	410	211	3.2	1,370	8.0	4.0
Dec. 01	.3	200	990	947	1.35	176	370	143	3.8	1,420	8.5	.0
Jan. 10	.1	230	1,100	1,080	1.50	122	470	194	3.6	1,570	8.2	.0
Feb. 02	.8	80	380	378	.52	899	170	50	2.2	613	7.7	.0
Mar. 05	.3	200	942	943	1.28	295	440	130	3.1	1,300	8.4	.0
Apr. 06	.1	20	444	445	.60	635	260	80	1.3	673	8.1	8.0
May 08	.5	80	332	346	.45	1,390	220	58	1.0	531	8.0	9.5
June 07	.2	80	372	354	.51	1,570	220	51	1.1	552	8.2	15.0
July 14	-	210	-	750	1.02	1,130	410	210	1.8	1,110	8.2	19.5
Aug. 08	-	270	-	1,030	1.40	334	460	280	3.2	1,430	7.6	26.0
Sep. 02	-	350	-	1,310	1.78	170	490	330	4.7	1,870	8.0	23.0

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1.....	1760	1750	2030	2230	1290	1120	976	524	985	--	--	1960
2.....	1760	1680	2060	2300	1280	1200	915	551	925	1200	1590	1690
3.....	1840	1760	--	1860	1280	1140	968	502	991	1240	1550	1850
4.....	2290	1770	2060	1780	1310	1120	971	502	947	1280	1470	2000
5.....	2120	1830	2010	1860	1370	1150	928	484	1010	1240	1430	1870
6.....	1940	1810	2100	1590	1380	1190	875	452	1070	1280	1360	1770
7.....	1920	1930	1980	1760	1390	1170	866	457	1110	1260	1400	1780
8.....	1880	2570	1920	1770	1380	1520	842	458	1140	1400	--	1920
9.....	1900	2170	1840	1890	1410	1190	896	469	1270	1480	3240	1930
10.....	1900	1850	1720	1650	1330	1230	963	469	1380	1410	1810	2750
11.....	2230	1760	1610	1640	1260	1170	915	444	1580	1580	1640	2160
12.....	2100	1780	1650	1900	1370	1330	868	424	1390	1420	1670	2800
13.....	1910	1890	1670	2150	--	1180	764	411	1270	1570	1720	2130
14.....	1880	1960	1730	1760	1330	1210	725	412	1310	1480	1730	1920
15.....	1970	2060	1730	1560	1310	1210	690	489	1320	1620	1830	2170
16.....	1910	--	--	1680	1240	1210	692	463	1490	1560	1840	2170
17.....	1830	2440	--	1610	1270	1180	839	467	1210	1670	1700	2650
18.....	1910	2200	1720	2810	1290	1130	828	480	1560	1620	1790	2120
19.....	2080	1980	1730	3130	1350	1210	820	481	1160	1820	1930	2640
20.....	2150	1850	1980	--	1250	1180	753	537	1160	2070	1460	2940
21.....	1980	1850	1990	2600	1260	1120	737	537	1160	1760	1660	2410
22.....	1880	1970	2080	1270	1290	995	692	539	1150	1670	1420	2640
23.....	1780	2020	2210	1210	1200	--	666	545	1220	1610	1390	2660
24.....	1700	1960	1900	1440	1510	1140	639	605	1120	1610	1570	2710
25.....	1600	--	1900	1450	1210	1220	588	644	1120	1570	1850	2930
26.....	1570	2050	1730	1520	1400	1120	564	678	1170	1370	1830	2960
27.....	1570	2080	1680	2130	1520	1220	539	738	1340	1450	1750	2900
28.....	1520	2070	1660	1380	1240	1230	547	828	1320	1430	1740	2780
29.....	1640	2080	1590	1390	--	591	530	850	1150	1480	1580	3090
30.....	1640	1930	2730	1330	--	696	549	864	1160	1640	1840	2800
31.....	1680	--	2450	1360	--	696	--	895	--	1460	1680	--
AVERAGE	1870	1970	1910	1800	1320	1140	771	554	1210	1510	1710	2370

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3050	1820	2340	2230	1820	1210	1220	1030	499	1350	2010	1860
2	3140	2640	2320	2330	1910	1170	1350	1080	504	1330	1970	949
3	3460	2770	2290	2220	1900	1260	1490	1050	541	1320	2010	980
4	3040	1920	2300	2160	1520	1290	1420	1260	585	1390	2160	1380
5	2640	2030	2230	2270	1580	1200	1470	1200	616	1390	2140	1760
6	2810	3790	2310	2420	1510	1160	1720	834	596	1520	2020	1860
7	2650	2990	2170	2760	1360	1230	1450	648	597	1490	1900	1200
8	2110	3730	2330	2210	1410	1180	1460	573	638	1640	1480	1170
9	2530	2990	2440	2280	1340	1180	1230	572	706	1720	1950	1100
10	2110	2980	2350	2200	1300	1240	906	572	773	1650	2120	1380
11	2530	2570	2340	2420	1250	1300	1000	635	814	1660	2060	1840
12	2550	2410	2200	2170	1320	1370	1080	726	892	1890	2390	1780
13	2540	2300	2250	2090	1330	1290	936	768	990	1810	2450	1730
14	2530	2160	2160	3050	1340	1180	867	730	930	1870	2450	1790
15	1830	3490	2120	2300	1330	1250	963	723	799	1860	2430	1890
16	1520	2020	---	2140	1280	1290	948	740	764	1790	2610	1840
17	1820	2160	2230	2200	1270	1240	1100	764	798	1660	2550	1880
18	---	1980	2410	2420	1280	1260	1160	723	831	1680	2470	1970
19	2460	2250	2120	---	1470	1270	1260	749	948	1760	2610	2070
20	2020	2280	2020	2190	1400	1390	1270	695	959	1760	2330	2100
21	1970	2460	1940	1320	1320	1430	1370	538	1000	1830	2380	2230
22	1470	2520	1870	1560	1280	1550	1320	503	1020	1370	2410	2100
23	2470	2440	1840	2390	1270	1490	1400	474	1040	1840	---	2090
24	1610	2560	1850	1400	1340	1580	1400	430	1090	2000	2140	2020
25	1770	2360	5880	1380	1180	1520	1370	526	1100	2010	2330	2200
26	1820	2400	1860	1560	3690	1660	1530	496	1180	1830	2380	2030
27	1740	2510	2200	1610	1250	1510	1550	542	1160	---	2390	2170
28	1880	2760	2090	1440	1180	1170	1370	490	1180	2290	2290	2140
29	2590	2500	1910	1770	---	1240	1310	490	1200	2320	1820	2210
30	2050	2480	2000	1640	---	1230	1120	508	1310	2440	2120	2210
31	1860	---	2290	1840	---	1230	---	548	---	2190	2140	---
MONTH	2290	2540	2290	2070	1480	1310	1270	697	869	1760	2220	1800
YEAR	1710											

Table 2.--Continued

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.--Continued

Specific conductance (micromhos at 25°C), water year October 1970 to September 1971

Day	October	November	December	January	February	March	April	May	June	July	August	September
1	2,270	1,800	1,500	1,560	686	1,370	621	595	576	790	1,590	2,070
2	2,270	1,770	1,380	1,560	662	1,350	568	617	570	807	1,510	1,880
3	-	1,730	1,240	-	740	1,380	527	610	558	804	1,570	1,890
4	-	1,440	1,530	1,420	738	1,340	720	591	590	837	1,500	1,460
5	2,270	1,420	1,160	1,420	870	1,340	721	528	576	964	1,510	-
6	2,200	1,380	1,340	1,560	875	1,270	701	517	582	961	1,460	-
7	2,070	1,330	1,380	1,570	971	1,330	722	529	608	1,060	1,500	1,450
8	2,070	1,490	1,500	1,620	859	1,370	706	586	656	1,160	1,720	1,530
9	2,090	1,440	1,450	1,620	980	1,200	704	574	707	1,170	1,650	1,530
10	2,200	1,430	1,360	1,400	1,160	1,160	482	568	733	1,390	1,720	1,800
11	1,910	1,700	1,380	1,400	1,150	1,090	574	575	713	1,150	1,650	1,720
12	1,900	1,480	1,180	1,390	1,150	1,050	485	610	710	1,160	1,670	1,730
13	1,800	1,490	1,330	1,460	1,090	1,010	518	552	630	1,110	1,930	1,760
14	2,140	1,480	1,180	1,390	1,100	920	487	548	631	1,130	1,960	1,650
15	1,690	1,380	1,350	1,460	946	850	516	550	652	1,120	1,830	1,520
16	1,640	1,690	1,710	1,220	768	756	540	596	636	1,140	1,610	1,510
17	1,660	1,650	1,790	1,220	792	754	506	568	613	1,140	1,590	1,520
18	1,350	1,570	1,780	1,450	774	754	490	553	570	1,190	1,590	1,540
19	1,730	1,680	1,910	794	781	710	556	564	548	1,190	1,600	1,540
20	1,450	1,630	1,540	1,170	918	804	555	550	562	1,370	1,530	-
21	1,530	1,560	1,380	1,160	920	817	593	554	577	1,380	1,530	1,435
22	1,480	1,630	1,390	1,120	936	890	657	565	612	1,640	1,800	1,500
23	1,610	1,510	1,470	1,150	971	959	685	547	575	1,690	1,600	1,430
24	1,640	1,630	1,580	1,120	1,030	807	776	595	582	1,550	1,670	1,430
25	1,660	1,300	1,620	1,040	1,170	586	730	588	595	1,490	1,810	1,460
26	1,640	-	1,690	1,070	1,400	601	734	561	687	1,610	1,460	1,470
27	2,010	1,530	1,700	1,140	1,380	590	711	551	701	1,610	1,460	1,440
28	1,890	1,200	1,500	1,040	1,400	722	664	547	684	1,600	1,870	1,440
29	1,950	1,600	1,500	1,010	-	539	710	559	685	1,590	1,720	1,380
30	2,080	1,580	1,800	660	-	548	582	552	718	1,600	1,710	1,380
31	1,910	-	1,810	978	-	617	-	559	-	1,650	1,690	-

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH (C)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
01-31	--	50	26	--	143	86	--	--	270	0	585	28
NOV.												
01-30	--	56	20	--	142	84	--	--	276	0	604	26
DEC.												
01-31	--	48	19	--	146	80	--	--	290	0	594	26
JAN.												
01-06	--	61	15	--	146	74	--	--	291	0	525	20
07-31	--	59	17	--	126	79	--	--	275	0	472	22
FEB.												
01-28	--	49	15	--	130	67	--	--	272	0	445	28
MAR.												
01-16	--	52	18	--	130	69	--	--	281	0	420	22
17-31	--	94	16	--	112	52	--	--	226	0	390	22
APR.												
01-30	--	96	16	--	97	49	--	--	248	0	298	20
MAY												
01-08	--	71	13	--	79	40	--	--	208	0	228	17
09-22	--	190	13	--	57	23	--	--	160	0	108	13
23-25	--	193	19	--	91	40	--	--	249	0	226	16
26...	--	190	14	--	22	41	--	--	163	0	121	12
27-31	--	170	17	--	76	29	--	--	215	0	176	14
JUNE												
01-04	--	84	16	--	75	30	--	--	199	0	182	14
05-08	--	63	20	--	86	47	--	--	249	0	240	17
09-14	--	78	28	--	130	67	--	--	325	0	400	23
15-19	--	172	25	--	96	45	--	--	285	0	265	19
20-22	--	287	23	--	100	47	--	--	285	0	277	20
23-30	--	142	23	--	120	68	--	--	302	0	410	25
JULY												
01-29	--	23	24	--	156	95	--	--	319	0	588	30
30-31	--	154	35	--	186	47	--	--	235	0	605	24
AUG.												
01-31	--	25	24	--	164	83	--	--	262	0	570	28
SEPT.												
01-30	--	7.0	22	--	182	91	--	--	296	0	670	32
WTD. AVG.	--	--	19	--	113	59	--	--	254	0	386	22
TIME WTD. AVG.	--	65	20	--	132	71	--	--	269	0	477	25
TONS PER DAY	--	--	3.3	--	20	10	--	--	45	0	68	3.8

ANALYSES OF ADDITIONAL SAMPLES

DEC.												
08...	0830	53	18	--	136	92	58	9.1	290	0	582	28
MAR.												
17...	1440	124	14	--	108	67	44	7.2	247	0	412	20
JUNE												
10...	0845	88	19	--	95	39	35	8.0	272	0	224	14
AUG.												
26...	1645	25	24	--	160	89	78	13	235	0	665	27
SEPT.												
18...	0730	9.5	21	--	140	101	81	9.9	168	0	742	30
23...	1320	11	21	40	180	107	103	13	264	2	805	32

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.												
01-31	--	--	--	1080	1.47	146	710	489	1.2	1380	8.0	--
NOV.												
01-30	--	--	--	1100	1.50	166	700	474	1.4	1370	8.1	--
DEC.												
01-31	--	--	--	1080	1.47	140	695	457	1.5	1370	8.1	--
JAN.												
01-06	--	--	--	1080	1.47	178	670	431	1.1	1340	7.6	--
07-31	--	--	--	987	1.34	157	640	414	.9	1260	8.2	--
FEB.												
01-26	--	--	--	938	1.28	124	600	377	1.0	1210	7.9	--
MAR.												
01-16	--	--	--	918	1.25	129	610	380	.7	1180	8.0	--
17-31	--	--	--	816	1.11	207	495	310	1.1	1060	8.1	--
APR.												
01-30	--	--	--	700	.95	181	442	239	.9	945	7.9	--
MAY												
01-08	--	--	--	572	.78	110	364	193	.7	781	7.2	--
09-22	--	--	--	346	.47	177	238	107	.3	535	7.8	--
23-25	--	--	--	615	.84	320	390	186	.7	816	8.0	--
26...	--	--	--	432	.59	222	224	90	.7	514	7.7	--
27-31	--	--	--	494	.67	227	310	134	.8	680	8.0	--
JUNE												
01-04	--	--	--	482	.66	109	312	149	.7	677	7.6	--
05-08	--	--	--	595	.81	101	410	206	.7	825	7.3	--
09-14	--	--	--	933	1.27	196	600	334	.9	1200	7.7	--
15-19	--	--	--	692	.94	321	425	191	1.1	937	7.8	--
20-22	--	--	--	696	.95	539	445	211	1.0	943	7.9	--
23-30	--	--	--	904	1.23	347	580	332	1.1	1180	8.0	--
JULY												
01-29	--	--	--	1230	1.51	76.4	780	518	1.0	1510	7.7	--
30-31	--	--	--	1190	1.50	495	660	467	1.5	1440	7.6	--
AUG.												
01-31	--	--	--	1170	1.41	79.0	750	535	.7	1420	7.8	--
SEPT.												
01-30	--	--	--	1350	1.65	25.5	830	587	1.1	1610	7.8	--
WTD. AVG.	--	--	--	827	--	--	528	320	.9	1070	7.9	--
TIME												
WTD. AVG.	--	--	-	976	1.33	--	624	403	1.0	1240	7.9	--
TONS PER DAY	--	--	--	145	--	--	--	--	--	--	--	--

ANALYSES OF ADDITIONAL SAMPLES

DEC.												
08...	1.3	.5	230	1110	1.51	159	720	482	.9	1400	8.0	0
MAR.												
17...	.6	1.3	210	839	1.14	281	545	342	.8	1120	8.0	--
JUNE												
10...	.7	.5	160	609	.83	145	395	172	.8	845	7.8	15
AUG.												
26...	.5	.2	300	1280	1.74	86.4	766	573	1.2	1550	8.1	23
SEPT.												
18...	.5	.1	0	1240	1.65	31.8	765	627	1.3	1510	8.0	9
23...	.6	.2	370	1470	2.00	7140	889	669	1.5	1740	8.3	19

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH

WATER QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
24...	0800	85	18	300	120	62	60	9.1	280	0	403	18
NOV.												
21...	1415	46	39	20	205	53	55	11	300	0	552	22
DEC.												
02...	0830	48	18	--	160	72	47	9.6	311	0	532	22
03...	0815	46	21	--	156	80	58	8.8	298	0	574	24
JAN.												
07...	0810	33	18	--	170	84	59	9.3	331	0	548	26
11...	1200	32	20	30	180	91	66	8.3	328	0	636	26
FEB.												
04...	0830	45	15	--	148	77	51	8.1	299	0	498	25
09...	1215	54	17	10	132	64	48	9.1	275	0	428	19
MAR.												
03...	0815	102	14	--	132	67	46	7.5	280	0	435	22
07...	1500	59	18	100	128	62	48	7.4	263	0	443	20
APR.												
08...	0815	193	13	--	104	27	32	11	197	0	250	12
09...	1130	82	15	20	85	36	32	5.2	234	0	227	15
09...	1330	107	16	140	82	33	28	8.4	228	0	203	15
MAY												
06...	0730	90	14	--	95	44	35	6.8	294	0	242	16
07...	1130	82	15	20	85	36	32	5.2	234	0	227	15
JUNE												
05...	0730	310	13	--	51	16	14	4.4	155	0	90	8.0
05...	1500	325	16	50	54	19	14	4.5	164	0	103	4.8
JULY												
11...	1130	204	22	260	120	52	42	8.7	295	0	325	23
AUG.												
06...	1200	54	24	70	156	84	62	9.6	256	0	620	22
SEP.												
03...	1430	35	26	60	165	87	68	11	243	0	664	23

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH

WATER QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.												
24...	.5	.2	160	829	1.09	184	558	328	1.1	1160	8.2	3.5
NOV.												
21...	.5	.1	200	1090	1.54	140	729	483	.9	1390	8.1	.5
DEC.												
02...	.4	.1	230	1020	1.47	111	716	461	.8	1410	8.1	.0
03...	.5	.1	0	1070	1.46	133	720	476	.9	1380	7.9	.0
JAN.												
07...	.6	.1	0	1080	1.47	96	770	499	.9	1400	7.6	.0
11...	.5	.1	250	1190	1.71	105	823	554	1.0	1570	--	.0
FEB.												
04...	.7	.4	0	970	1.32	118	685	440	.8	1330	7.6	.0
09...	.4	.0	170	853	1.18	126	592	366	.9	1180	8.2	1.0
MAR.												
03...	.6	.2	0	863	1.30	263	605	375	.8	1200	7.6	.0
07...	1.5	.1	140	857	1.19	139	574	358	.9	1170	8.1	3.0
APR.												
08...	.4	6.8	0	554	.81	312	369	208	.7	827	7.8	4.0
09...	.8	.9	90	532	.79	128	360	168	.7	725	8.3	12.0
09...	.8	.6	100	499	.68	145	340	153	.7	724	7.9	9.0
MAY												
06...	.5	.7	0	599	.84	151	417	176	.7	862	8.1	--
07...	.8	.9	90	532	.79	128	360	168	.7	791	8.2	12.0
JUNE												
05...	.4	.2	0	273	.40	248	192	65	.4	428	8.0	12.0
05...	.4	.3	90	297	.42	274	212	77	.4	462	7.8	18.5
JULY												
11...	.4	.0	210	739	1.06	427	514	272	.8	1060	7.9	21.5
AUG.												
06...	.6	.2	290	1100	1.62	174	734	524	1.0	1470	8.1	21.0
SEP.												
03...	.6	.0	280	1160	1.66	115	769	570	1.1	1530	8.1	20.5

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH--Continued

Water quality data, water year October 1970 to September 1971

Date	Discharge (cfs)	Silica (SiO_2) (mg/l)	Total Iron (Fe) (µg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sodium (Na) (mg/l)	Potassium (K) (mg/l)	Bicarbonate (HCO_3) (mg/l)	Carbonate (CO_3) (mg/l)	Sulfate (SO_4) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)
Oct. 08	64	24	70	160	82	60	11	286	0	610	21	0.5
Nov. 05	78	20	80	160	80	52	8.1	285	0	580	22	.5
Dec. 02	74	19	10	140	70	50	7.4	276	0	500	19	.4
Jan. 11	32	16	20	130	57	40	6.1	264	0	410	16	.4
Feb. 03	58	16	140	120	49	41	7.0	253	0	360	15	.4
Mar. 06	32	18	10	100	69	44	6.7	259	0	440	29	.6
Apr. 07	70	17	30	110	52	44	6.9	247	0	320	18	.6
May 07	143	16	0	95	40	35	6.3	226	0	270	16	.5
June 03	257	17	90	75	29	22	5.6	189	0	180	7.8	.4
July 09	120	22	30	110	43	31	7.0	270	0	290	10	.0
Aug. 07	30	23	20	120	61	48	8.9	260	0	420	16	.3
Sep. 02	4.3	27	80	190	89	74	11	332	0	690	26	1.0

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH--Continued

Water quality data, water year October 1970 to September 1971

Date	Nitrate (NO_3) (mg/l)	Boron (B) (µg/l)	Dissolved solids: Residue at 180°C (mg/l)	Dissolved solids: Sum of constituents (mg/l)	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness (Ca, Mg) (mg/l)	Noncarbonate hardness (mg/l)	Sodium adsorption ratio	Specific conductance (micromhos per centimeter)	pH	Temperature (°C)
Oct. 08	0.1	260	1,220	1,100	1.66	211	740	505	1.0	1,500	8.2	7.0
Nov. 05	.1	140	1,120	1,060	1.52	236	730	496	.8	1,420	7.9	2.0
Dec. 02	.1	160	946	948	1.29	189	640	414	.9	1,290	8.1	.5
Jan. 11	.4	160	846	808	1.15	73.1	560	343	.7	1,130	8.0	.0
Feb. 03	.4	150	734	729	1.00	115	490	282	.8	1,010	8.2	.0
Mar. 06	.2	140	866	836	1.18	74.8	590	378	.8	1,100	8.0	.5
Apr. 07	.2	130	692	691	.94	131	480	277	.9	946	8.0	6.5
May 07	.2	130	594	592	.81	229	400	215	.8	790	8.3	10.5
June 03	.4	90	454	434	.62	315	300	145	.5	627	8.2	13.0
July 09	-	150	-	646	.88	209	450	230	.6	941	8.0	10.5
Aug. 07	-	230	-	826	1.12	66.9	550	340	.9	1,110	7.5	25.0
Sep. 02	-	340	-	1,270	1.73	14.7	840	570	1.1	1,670	7.9	19.0

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1.....	1280	1420	1560	1370	1170	1120	818	--	639	1560	1140	1560
2.....	1300	--	1490	1340	1220	1110	823	885	712	1390	--	1550
3.....	1340	1230	1330	1330	1240	1170	760	839	783	--	1310	1570
4.....	1350	1330	1300	1320	1210	1370	927	787	563	1610	1340	1590
5.....	1350	1340	1360	--	1360	1140	--	756	859	1570	1300	1590
6.....	1370	1340	1290	--	1260	1360	792	755	838	1560	1350	1590
7.....	1370	1340	1320	1370	1300	1060	1010	746	797	1490	1190	1590
8.....	1270	1350	1390	1260	1380	1370	1020	695	789	1530	1390	1630
9.....	1370	1640	1360	1380	1230	1130	1000	588	--	1600	1400	1630
10.....	1370	1490	1320	1390	1300	1050	958	582	--	1630	1370	1610
11.....	1350	1370	1240	1390	1170	1090	930	582	--	--	1380	1510
12.....	1360	1430	1240	1210	1110	1150	--	527	--	1600	1380	1500
13.....	1450	1460	1340	1330	1210	1130	1000	514	1410	1590	1460	1510
14.....	1370	1300	1410	1210	1170	1100	987	519	983	1590	1440	1560
15.....	1410	1350	--	1330	1170	1350	1100	550	961	1200	1490	--
16.....	1420	1510	1370	1250	1160	1120	1120	513	968	1300	1360	1530
17.....	1460	1380	1310	1220	1170	1050	--	--	914	1310	1510	1520
18.....	1490	1410	1380	1080	1160	1060	--	566	934	1390	1460	1610
19.....	1450	1350	1390	1290	1200	1060	1110	518	923	1410	1440	1440
20.....	--	1360	1380	1250	1200	1020	1050	476	917	1370	--	1710
21.....	1420	1280	1350	1130	1210	1060	945	486	914	1440	1390	--
22.....	1380	1350	1430	1220	1210	1110	857	489	997	1500	1320	--
23.....	1310	1100	--	1380	1170	1110	857	856	1090	1570	1440	1700
24.....	1350	1240	1490	1220	1170	1080	859	794	1240	1570	1510	1670
25.....	1290	1340	1430	1210	1170	1100	872	799	1150	1570	1480	1680
26.....	1330	1360	1370	1200	1120	1110	936	514	1150	--	1490	1690
27.....	1320	1370	1370	1200	1120	1110	936	789	1170	1580	1530	1670
28.....	--	1420	1380	1210	1120	1120	951	795	1240	1590	1610	1670
29.....	1450	1500	1310	1230	--	1010	942	549	--	1610	1550	1670
30.....	1440	--	1280	1220	--	1000	945	583	1290	1390	1500	1670
31.....	--	--	1360	1220	--	862	--	--	--	1480	1580	--
AVERAGE	1370	1370	1360	1440	1200	1120	942	644	969	1500	1420	1600

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1660	1110	1440	1380	1260	1240	1090	1110	461	891	1270	1440
2	1710	1200	1440	1390	1240	1120	1230	1010	431	934	1340	1660
3	1590	1200	1370	1370	1220	1070	1160	933	430	985	1410	1540
4	1560	---	1400	1440	1200	1150	1160	947	432	1020	1460	1630
5	1580	1190	1370	1370	1170	1230	952	876	434	1070	1480	868
6	1540	1190	1400	1430	1210	1380	955	938	488	942	1740	860
7	1520	1180	1530	1470	1090	1200	938	786	586	1100	1610	1100
8	1410	1180	1530	1520	1080	1080	800	764	600	1010	1470	1220
9	1400	1450	1540	1530	1080	1080	932	838	---	1140	1530	1300
10	---	1450	1380	1550	1090	1070	757	---	803	1100	1540	1350
11	1420	1220	1530	1260	1020	1170	752	871	770	991	1560	1480
12	---	1200	1530	1460	1000	1140	1020	921	736	936	1610	1420
13	1410	1180	---	1440	1000	1380	1030	921	778	1030	1610	1480
14	1440	1220	1380	1320	1010	1210	1110	899	798	1200	1610	1460
15	1480	1270	1360	1350	1050	1200	---	845	786	1210	1600	1450
16	1400	1250	1360	1220	1080	1150	1060	866	807	1240	1620	1480
17	1250	1290	1370	1220	1170	1100	1170	840	832	1260	1610	1490
18	1220	1350	1310	1230	1100	1090	1140	779	832	1230	1670	1490
19	---	---	1370	1220	1190	1110	946	712	---	1300	1690	1500
20	1200	---	1310	1220	1170	1280	1180	544	830	1290	1670	1470
21	1130	1350	1530	1250	1160	1300	1210	537	738	1230	1700	1560
22	1490	---	1300	1170	1180	1150	1190	537	668	1630	1720	1620
23	1110	1440	1320	1240	1110	1210	1140	578	662	961	1710	1610
24	1140	1440	1250	1250	1160	1210	1260	584	665	1050	1750	1580
25	1140	1410	1520	1170	1130	1000	1180	580	688	1140	1750	1580
26	1480	1430	---	1390	1210	1020	1060	535	706	1160	1740	1570
27	1230	1370	---	1120	1120	1070	952	497	722	1160	1720	1580
28	1230	1330	---	1100	1120	1130	898	---	729	1190	1560	1560
29	1210	1390	1430	1200	---	1270	1000	436	744	1140	1750	1560
30	1500	1430	1400	1310	---	1030	1100	440	810	1270	1620	1560
31	1240	---	1420	1240	---	1120	---	439	---	1240	1610	---
MONTH	1380	1300	1410	1320	1130	1160	1050	744	677	1130	1600	1450
YEAR	1200											

Table 2.--Continued

09229500 HENRYS FORK AT LINWOOD, UTAH--Continued

Specific conductance (micromhos at 25°C), water year October 1970 to September 1971

Day	October	November	December	January	February	March	April	May	June	July	August	September
1	1,560	1,200	766	1,160	909	1,280	814	931	638	698	1,150	1,610
2	1,540	1,180	1,150	1,180	913	1,260	919	875	-	730	1,200	1,610
3	1,550	1,340	1,100	1,140	1,040	1,180	947	875	674	742	1,210	1,690
4	1,590	1,340	1,130	1,120	1,150	1,150	906	806	675	752	1,210	1,700
5	1,530	1,310	1,180	1,150	1,270	1,090	994	822	704	756	1,180	1,720
6	1,540	1,200	965	1,150	1,180	1,080	1,070	817	690	758	1,170	1,810
7	1,580	1,190	960	1,150	1,350	1,120	968	890	670	875	1,210	1,330
8	1,510	1,230	878	1,160	1,240	1,120	980	903	606	818	1,220	1,340
9	1,500	1,170	1,110	1,130	1,240	1,100	877	905	531	918	1,180	1,450
10	1,460	1,180	1,080	1,130	1,080	1,100	955	989	497	978	1,180	1,430
11	1,520	1,160	1,200	1,130	1,170	1,100	832	898	510	978	-	1,400
12	1,380	1,360	1,270	1,120	937	1,110	890	841	504	1,050	1,140	1,400
13	1,300	1,220	1,300	1,110	1,000	979	869	842	524	1,050	1,280	1,440
14	1,300	1,300	1,300	1,100	907	924	892	843	505	1,090	1,250	1,440
15	1,460	1,290	1,370	1,110	929	919	868	768	506	1,100	1,290	1,470
16	1,650	1,340	1,370	1,120	931	906	852	729	518	1,130	1,320	1,510
17	1,350	1,340	1,300	1,380	1,080	1,060	856	715	471	1,120	1,340	1,510
18	1,430	1,200	1,300	1,060	1,090	965	815	764	449	1,060	1,340	1,490
19	1,350	1,200	1,310	759	1,130	1,020	715	809	414	821	1,340	1,490
20	1,360	1,250	1,370	832	1,100	979	941	868	410	840	1,340	1,380
21	1,320	1,310	1,380	844	1,140	-	1,060	898	471	712	1,580	1,380
22	1,360	1,310	1,370	1,150	1,210	1,020	1,120	922	402	900	1,570	1,380
23	1,370	1,210	1,270	1,160	1,210	1,040	1,010	872	387	897	1,570	1,380
24	1,350	1,200	1,220	1,170	1,210	826	1,020	905	390	905	1,580	1,480
25	1,350	1,030	1,230	1,370	1,120	618	889	905	521	904	1,570	1,470
26	1,360	1,030	-	1,030	1,110	713	956	800	467	968	1,600	1,470
27	1,220	1,260	-	1,000	1,280	792	954	665	514	1,020	1,610	1,530
28	1,210	1,270	1,240	1,000	1,280	631	986	516	600	1,060	1,610	1,530
29	1,210	1,310	1,230	898	-	759	994	642	600	1,340	1,590	1,530
30	1,210	1,310	1,190	898	-	827	975	645	661	1,140	1,610	1,530
31	1,230	-	1,230	899	-	806	-	580	-	1,140	1,620	-

Table 2.--Continued

09234500 GREEN RIVER NEAR GREENDALE, UTAH (D)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.											
01-31	2283	4.3	51	40	--	--	67	176	0	239	32
NOV.											
01-30	2308	4.3	63	28	--	--	51	166	0	206	21
DEC.											
01-31	2234	5.1	59	30	--	--	59	164	0	229	20
JAN.											
01-31	2970	4.1	66	30	--	--	65	175	0	235	31
FEB.											
01-28	3954	3.6	66	30	--	--	60	178	0	234	21
MAR.											
01-31	2702	3.6	68	25	--	--	66	181	0	229	22
APR.											
01-30	2522	2.9	68	27	--	--	73	188	0	248	20
MAY											
01-31	3103	1.1	63	29	--	--	63	188	0	234	22
JUNE											
01-30	1823	2.9	66	29	--	--	69	193	0	228	25
JULY											
01-31	2571	3.7	64	30	--	--	63	192	0	222	22
AUG.											
01-31	3151	3.2	65	68	--	--	61	185	0	219	21
SEPT.											
01-30	2768	3.6	67	26	--	--	60	182	0	218	22
WTD. AVG. TIME	--	3.5	64	33	--	--	63	181	0	229	23
WTD. AVG. TONS PER DAY	2690	3.5	64	33	--	--	63	181	0	228	23
	--	25	466	241	--	--	457	1310	0	1660	168

ANALYSES OF ADDITIONAL SAMPLES

DEC.											
08...	2600	4.2	62	26	55	2.1	--	162	0	220	18
MAR.											
17...	1120	2.7	66	--	59	2.6	--	178	0	234	20
JUNE											
10...	998	2.4	66	29	65	2.7	--	185	0	221	20
SEPT.											
18...	2840	2.0	63	28	64	2.3	--	181	0	212	20
24...	3490	3.8	58	33	57	2.3	--	179	4	210	20

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIC2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
NOV., 1969												
24...	0930	3500	--	55	26	51	2.3	166	0	190	19	--
DEC.												
03...	1330	4230	4.0	58	22	56	2.6	168	0	187	18	0.2
JAN., 1970												
07...	1100	4120	3.9	59	25	52	2.5	188	0	188	20	.5
FEB.												
04...	1200	804	4.0	60	23	53	2.6	177	0	192	18	.3
MAR.												
03...	1130	857	4.0	61	23	53	2.6	179	0	200	18	.3
APR.												
08...	1200	4230	4.3	64	24	59	2.7	181	0	204	18	.3
MAY												
06...	1030	2180	4.3	62	24	61	2.6	180	0	198	19	.4
JUNE												
05...	1030	440	3.4	60	25	58	2.5	176	2	200	18	.4
JULY												
01...	1000	2730	4.2	61	24	61	2.5	185	0	167	19	.3
AUG.												
04...	1000	2070	4.2	62	24	58	2.8	182	2	196	18	.7

Table 2.--Continued

09234500 GREEN RIVER NEAR GREENDALE, UTAH

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DATE	FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
OCT.										
01-31	--	--	539	.73	3320	292	148	1.7	809	7.9
NOV.										
01-30	--	--	497	.68	3100	270	134	1.3	748	7.8
DEC.										
01-31	--	--	498	.68	3000	272	137	1.6	732	7.9
JAN.										
01-31	--	--	516	.70	4140	290	146	1.7	761	7.9
FEB.										
01-28	--	--	535	.73	5710	288	142	1.5	777	7.9
MAR.										
01-31	--	--	545	.74	3980	274	126	1.7	793	7.7
APR.										
01-30	--	--	572	.78	3900	287	128	1.9	811	8.1
MAY										
01-31	--	--	573	.78	4800	292	138	1.6	817	7.9
JUNE										
01-30	--	--	544	.74	2690	282	124	1.9	789	7.0
JULY										
01-31	--	--	545	.74	3780	282	125	1.6	785	7.0
AUG.										
01-31	--	--	532	.72	4530	276	124	1.6	776	6.8
SEPT.										
01-30	--	--	532	.72	3980	276	127	1.6	758	6.8
WTD. AVG. TIME	--	--	536	.73	3900	282	134	--	780	7.6
WTD. AVG. TONS PER DAY	--	--	536	.73	--	282	133	1.6	780	7.6
	--	--	--	--	--	--	--	--	--	--
ANALYSES OF ADDITIONAL SAMPLES										
DEC.										
08...	.2	7.1	492	.67	3450	261	128	1.5	713	8.0
MAR.										
17...	.5	5.8	541	.74	1640	280	134	1.5	784	7.6
JUNE										
10...	.6	6.4	536	.73	1450	282	130	1.7	788	8.0
SEPT.										
18...	.3	3.9	509	.69	3900	272	124	1.7	762	7.9
24...	.5	5.7	518	.70	4880	280	133	1.5	757	8.4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	NITRATE (N) (MG/L)	BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
NOV., 1969											
24...	--	--	465	425	0.63	4390	242	106	1.4	694	7.5
DEC.											
03...	--	110	457	437	.62	5220	238	100	1.6	687	7.5
JAN., 1970											
07...	--	80	468	446	.64	5210	252	98	1.4	697	7.6
FEB.											
04...	--	130	455	442	.62	988	242	97	1.5	686	7.8
MAR.											
03...	--	100	464	453	.63	1070	248	101	1.5	702	8.0
APR.											
08...	--	90	498	468	.68	5690	258	109	1.6	727	8.0
MAY											
06...	--	70	491	464	.67	2890	254	107	1.7	729	8.0
JUNE											
05...	--	70	513	459	.70	609	252	104	1.6	730	8.5
JULY											
01...	0.70	111	484	433	.66	3570	250	99	1.7	715	8.2
AUG.											
04...	.72	90	480	460	.65	2680	253	101	1.6	712	8.4

Table 7.--Continued

09234500 GREEN RIVER NEAR GREENDALE, UTAH--Continued

Water quality data, water year October 1970 to September 1971

Date	Discharge (cfs)	Silica (SiO_2) (mg/l)	Calcium (Ca) (mg/l)	Magnesium (Mg) (mg/l)	Sodium (Na) (mg/l)	Potassium (K) (mg/l)	Bicarbonate (HCO_3) (mg/l)	Carbonate (CO_3) (mg/l)	Sulfate (SO_4) (mg/l)	Chloride (Cl) (mg/l)	Fluoride (F) (mg/l)	Nitrate (N) (mg/l)
Oct. 06	782	19	61	28	66	2.8	181	0	231	20	0.5	0.7
Nov. 03	814	6.0	62	24	70	3.1	181	0	210	20	.3	-
Dec. 11	1,130	6.0	60	23	60	2.5	173	0	190	18	.3	-
Jan. 11	841	5.8	57	23	57	2.7	168	0	180	18	.4	-
Feb. 17	846	4.9	61	23	61	2.6	172	0	190	20	-	-
Mar. 19	3,960	-	59	24	61	3.0	179	0	220	18	-	-
Apr. 27	774	-	59	28	66	4.5	178	0	220	21	-	-
May 21	1,210	-	65	26	65	2.8	185	0	240	19	-	-
June 14	1,140	-	62	25	61	2.5	181	0	230	17	-	-
July 12	2,110	-	62	25	63	2.7	188	0	210	19	-	-
Aug. 09	2,160	-	66	26	64	2.8	192	0	210	21	-	-
Sep. 07	2,000	6.1	65	23	66	3.1	200	0	220	20	.2	-

Table 2.--Continued

09234500 GREEN RIVER NEAR GREENDALE, UTAH--Continued

Water quality data, water year October 1970 to September 1971

Date	Ortho-phosphate (PO4) (mg/l)	Boron (B) (µg/l)	Dissolved solids: Residue at 180°C (mg/l)	Dissolved solids: Sum of constituents (mg/l)	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness (Ca, Mg) (mg/l)	Noncarbonate hardness (mg/l)	Sodium adsorption ratio	Specific conductance (micromhos per centimeter)	pH	Temp-erature (°C)
Oct. 06	0.02	0	528	521	0.72	1,120	268	120	1.7	760	8.0	8.5
Nov. 03	.00	80	557	486	.76	1,220	253	105	1.9	785	8.1	8.5
Dec. 11	.00	80	-	450	.62	-	240	98	1.7	702	8.2	6.0
Jan. 11	.00	70	-	430	.58	-	240	102	1.6	692	8.0	4.0
Feb. 17	.00	-	-	450	.61	-	250	109	1.7	706	8.0	4.0
Mar. 19	.15	-	-	476	.65	-	250	99	1.7	711	7.7	3.0
Apr. 27	.00	-	-	488	.66	1,020	260	120	1.8	767	8.1	4.0
May 21	.00	70	-	-	-	-	270	120	1.7	735	8.0	5.0
June 14	.00	-	-	-	-	-	260	110	1.7	777	8.0	5.0
July 12	.00	-	-	-	-	-	260	100	1.7	730	7.8	5.0
Aug. 09	.03	100	-	-	-	-	270	110	1.7	709	7.7	6.0
Sep. 07	.06	140	-	504	.69	2,720	260	93	1.8	779	7.8	7.0

Table 2.--Continued

09234500 GREEN RIVER NEAR GREENDALE, UTAH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1.....	799	814	712	--	768	773	--	824	784	773	780	765
2.....	811	812	706	760	773	767	803	830	781	778	784	765
3.....	798	807	711	--	775	771	803	825	783	784	760	769
4.....	784	805	709	756	775	771	811	828	806	--	782	--
5.....	806	799	714	751	773	777	818	844	781	--	790	762
6.....	806	803	714	754	773	777	814	828	--	793	780	763
7.....	804	812	715	759	773	779	816	826	798	807	783	763
8.....	804	805	716	750	774	777	801	835	797	777	780	768
9.....	800	724	715	765	774	783	--	823	791	800	776	763
10.....	811	719	722	766	775	783	803	825	783	785	762	773
11.....	813	761	730	763	777	785	806	811	781	791	788	765
12.....	802	772	726	763	775	785	802	832	779	786	775	762
13.....	811	752	730	763	775	787	811	809	787	790	773	763
14.....	808	728	728	767	775	779	821	810	787	784	776	763
15.....	802	728	729	765	776	779	835	806	789	774	776	760
16.....	802	712	729	765	774	--	833	819	789	777	775	762
17.....	802	717	730	768	771	--	806	814	785	779	780	762
18.....	806	727	731	764	775	785	806	823	794	786	777	762
19.....	802	719	735	765	777	785	818	801	791	782	773	765
20.....	796	709	737	769	777	787	806	819	785	784	773	763
21.....	800	709	--	771	775	791	818	806	798	--	770	760
22.....	797	738	738	771	775	787	811	815	799	786	772	762
23.....	798	712	738	769	776	785	772	803	797	797	765	756
24.....	811	710	741	768	774	780	810	803	796	790	773	760
25.....	811	712	--	771	777	782	786	788	785	781	773	756
26.....	802	719	741	771	777	786	768	799	777	793	760	756
27.....	800	717	745	771	781	793	820	799	792	776	--	756
28.....	804	716	746	773	777	795	802	798	805	784	--	764
29.....	805	714	748	771	--	--	--	799	791	782	--	756
30.....	808	722	746	771	--	806	799	811	799	781	769	754
31.....	825	--	745	773	--	808	--	781	--	779	768	--
AVERAGE	804	746	728	765	774	783	807	813	790	784	774	762

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	700	685	---	---	---	692	728	732	716	---	765
2	752	714	682	696	690	727	692	---	735	719	---	750
3	750	712	681	---	689	698	707	---	736	---	715	765
4	746	723	686	---	689	698	---	742	737	---	710	749
5	764	714	680	696	686	688	---	735	736	---	716	---
6	754	719	680	688	694	700	732	730	---	717	720	---
7	755	714	680	695	---	---	728	717	---	715	726	---
8	752	711	683	693	---	---	736	720	729	711	---	771
9	752	702	685	695	691	700	734	---	731	715	---	745
10	752	704	688	---	685	712	739	---	729	711	722	745
11	748	694	690	---	691	715	---	736	733	---	733	749
12	746	708	689	695	689	715	---	741	726	---	733	---
13	750	693	686	693	683	711	734	739	---	710	732	---
14	747	688	681	693	---	---	732	740	---	708	738	749
15	745	688	679	693	---	---	732	732	730	712	---	768
16	750	678	686	691	692	694	714	723	732	714	---	773
17	755	691	689	---	689	693	739	---	735	707	734	749
18	---	680	688	---	689	703	---	739	725	---	738	770
19	---	680	688	689	688	679	---	736	730	---	738	---
20	744	693	---	689	688	721	710	732	---	715	732	---
21	743	687	---	689	---	---	719	---	---	713	736	755
22	755	680	689	691	---	---	699	736	735	709	---	770
23	737	680	690	689	693	710	705	---	733	713	---	744
24	743	688	687	---	669	695	732	---	728	720	738	743
25	734	694	---	---	---	686	---	735	725	---	751	748
26	731	691	---	686	695	702	---	731	722	---	747	---
27	731	683	---	684	705	719	726	739	---	713	756	---
28	734	687	---	687	---	---	726	732	---	713	741	755
29	702	688	692	684	---	---	728	---	723	714	---	762
30	716	688	683	687	---	727	703	---	720	714	---	754
31	726	---	690	---	---	692	---	---	---	714	747	---
MONTH	744	696	685	---	---	---	---	---	---	---	---	---

Table 2.--Continued

09234500 GREEN RIVER NEAR GREENDALE, UTAH--Continued

Specific conductance (micromhos at 25°C), water year October 1970 to September 1971

Day	October	November	December	January	February	March	April	May	June	July	August	September
1	782	-	736	-	697	691	-	-	725	710	-	740
2	757	755	728	-	700	699	692	-	710	720	710	740
3	-	756	673	-	689	-	-	719	730	-	725	740
4	-	765	733	687	688	710	-	734	740	-	725	-
5	748	758	718	685	688	712	705	732	-	-	725	-
6	774	772	-	667	-	709	706	738	-	720	720	-
7	773	-	667	678	-	-	710	740	740	725	-	740
8	756	-	701	696	689	716	698	-	740	725	-	740
9	766	748	720	-	689	712	703	-	740	720	720	750
10	-	759	685	-	691	718	-	734	720	-	720	740
11	-	-	681	691	689	725	-	734	740	-	720	-
12	753	752	-	693	691	721	708	736	-	700	720	-
13	756	691	-	686	-	-	702	734	-	720	720	740
14	756	-	685	683	-	-	713	732	740	720	-	750
15	776	-	681	687	-	714	716	-	740	720	-	745
16	761	741	676	-	693	709	712	-	730	715	730	750
17	-	712	667	-	701	719	-	732	735	-	730	740
18	-	724	680	691	699	705	-	730	740	-	730	-
19	764	681	-	689	702	722	721	730	-	700	725	-
20	760	703	-	688	-	-	709	729	-	700	740	750
21	762	-	677	687	-	-	713	730	740	710	-	750
22	769	-	678	687	690	704	705	-	740	720	-	750
23	766	741	676	-	710	714	715	-	740	720	735	750
24	-	723	678	-	711	705	-	738	745	-	745	740
25	-	705	-	684	692	705	-	732	745	-	730	-
26	767	-	-	686	690	709	715	728	-	720	725	-
27	770	756	-	686	-	-	726	728	-	720	740	740
28	766	-	683	690	-	-	716	732	725	720	-	740
29	765	-	679	693	-	700	728	-	735	720	-	740
30	781	740	674	-	-	713	726	-	735	720	740	730
31	-	-	685	-	-	693	-	-	-	-	750	-

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir

[Measurements made in situ, using Martek Mark II water-quality monitoring equipment except as noted]

Dissolved oxygen: Values noted by W indicate that the values were determined by the Winkler method.

pH: Measurements for October 20-25, 1970, were made with an Orion meter.

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 1				
October 25, 1970				
0	11.0	520	6.2W	8.2
25	11.0	520	-	-
50	11.0	510	6.6W	8.2
75	11.0	510	-	-
100	10.0	725	5.8W	8.2
125	9.0	740	-	-
150	8.0	725	4.2W	8.1
175	4.8	740	-	-
200	4.0	835	1.0W	7.9
225	4.0	890	-	-
250	4.0	905	.1W	7.9
275	4.0	905	-	-
300	4.0	905	.0W	7.9
320	4.0	915	-	-
368	-	-	.0W	7.8
April 14, 1971				
0	4.8	700	9.4	8.6
25	4.6	715	9.4	8.6
50	4.2	720	9.4	8.6
75	3.8	720	9.2	8.6
100	3.2	725	9.0	8.6
125	3.0	725	8.6	8.5
150	2.2	765	7.6	8.4
175	2.8	795	5.8	8.1
200	3.4	960	.6	7.7
225	3.4	990	.0	7.7
250	3.4	1,005	.0	7.7
275	3.8	1,000	.0	7.7
300	3.8	1,005	.0	7.7
335	3.8	1,005	.0	7.7
August 1, 1971				
0	21.8	585	7.6	8.9
20	21.8	580	7.4	8.8
30	20.8	570	6.0	8.7
40	18.8	570	4.6	8.5
50	15.4	535	4.5	8.4
60	13.0	540	4.8	8.4
75	10.2	590	5.2	8.2
100	8.0	635	5.8	8.2
125	6.2	650	5.9	8.3
150	5.8	680	5.6	8.2
175	5.0	675	5.5	8.2
200	4.6	685	5.3	8.2
215	3.8	720	-	7.9
225	3.8	765	1.8	7.7
250	4.0	875	.2	7.7
300	4.0	920	.0	7.7
330	4.0	920	.0	7.6
October 21, 1971				
0	12.2	610	7.5W	8.4
50	12.2	610	7.0W	8.5
75	11.0	610	4.5W	8.0
100	9.8	650	5.6W	8.1
125	8.5	675	6.7W	8.1
150	8.0	750	5.8W	8.0
175	7.2	760	-	7.9
200	6.0	760	4.8W	8.0
225	4.0	810	4.2W	7.8
250	4.0	910	.2W	7.7
275	4.0	965	-	7.7
300	4.0	965	-	7.7
325	4.0	965	.0W	7.7
April 26, 1972				
0	6.6	650	11.2W	8.8
25	6.2	645	-	8.6
50	5.2	650	-	8.6
75	5.0	645	-	8.6
100	4.4	650	9.9W	8.6
125	3.6	660	-	8.5
150	3.2	665	9.5W	8.5
175	3.0	670	-	8.4
190	2.4	710	-	8.3
200	2.4	780	6.0W	8.1
205	3.0	805	-	8.0
210	3.0	805	-	7.9
215	3.2	830	2.4W	7.8
220	3.2	865	-	7.7
225	3.6	865	-	7.7
250	3.8	900	.2W	7.7
275	3.8	940	-	7.7
300	3.8	940	-	7.7
330	3.8	940	-	7.7
400	-	-	.0W	-
Site 1--continued				
September 1, 1972				
0	19.4	655	7.9	8.7
25	19.2	655	7.5	8.7
35	19.0	660	7.4	8.7
45	18.0	655	4.7	8.3
55	16.4	640	3.4	8.1
65	14.4	645	3.8	8.0
75	11.6	690	5.5	8.1
100	8.2	725	7.6	8.3
125	7.2	755	7.9	8.4
150	6.6	785	7.3	8.3
175	6.4	775	6.9	8.2
200	6.0	780	6.9	8.2
210	5.6	790	6.8	8.2
225	4.2	865	4.0	7.9
240	3.8	920	2.1	7.8
250	3.8	925	.9	7.8
275	4.0	950	.0	7.8
300	4.0	965	.0	7.8
325	4.2	965	.0	7.9
330	4.2	965	.0	7.9
Site 2				
October 25, 1970				
0	10.4	550	-	-
25	10.8	540	-	-
50	10.8	525	-	-
75	10.4	620	-	-
100	10.0	750	-	-
125	8.6	780	-	-
150	7.6	765	-	-
175	4.8	790	-	-
200	3.8	910	-	-
225	3.8	945	-	-
250	3.8	945	-	-
275	3.8	945	-	-
300	3.8	945	-	-
320	3.8	945	-	-
April 14, 1971				
0	4.2	720	9.4	8.6
25	4.0	720	9.4	8.6
50	4.0	725	9.4	8.6
75	3.8	715	9.4	8.6
100	3.2	720	9.1	8.6
125	3.0	720	9.0	8.6
150	2.4	780	7.4	8.4
175	2.8	845	5.6	8.1
200	3.4	960	1.0	7.7
225	3.6	990	.1	7.7
250	3.6	1,000	.0	7.7
275	3.8	1,005	.0	7.7
300	3.8	1,005	.0	7.7
335	3.8	1,005	.0	7.7
Site 3				
October 24, 1970				
0	10.8	565	6.7W	8.4
25	11.0	560	-	-
50	11.0	560	6.4W	8.4
75	11.0	730	-	-
100	9.8	760	4.6W	8.2
125	8.4	770	-	-
150	7.4	755	4.2W	8.2
175	4.4	795	-	-
200	3.8	910	1.7W	8.0
225	3.8	935	-	-
250	3.8	935	.1W	7.9
275	3.8	965	-	-
300	3.8	965	-	-
320	3.8	965	-	7.8
April 14, 1971				
0	4.8	725	9.4	8.6
25	4.2	725	9.4	8.6
50	4.0	725	9.2	8.6
75	3.6	725	9.0	8.6
100	3.2	720	8.9	8.6
125	3.0	720	8.8	8.6
150	3.0	740	8.4	8.5
175	2.2	795	7.3	8.3
200	3.6	960	.8	7.7
225	3.8	995	.0	7.7
250	3.8	995	.0	7.7
275	3.8	995	.0	7.7
300	3.8	995	.0	7.7
333	3.8	1,025	.0	7.7
Site 3--continued				
August 1, 1971				
0	23.0	585	7.5	8.7
25	21.8	600	7.0	8.9
40	19.0	570	4.7	8.6
50	16.0	520	4.5	8.4
60	13.0	540	4.7	8.5
75	10.8	585	5.0	8.4
100	8.6	615	5.4	8.4
125	7.0	675	5.2	8.3
150	6.2	715	4.6	8.2
175	5.4	690	4.6	8.2
200	4.8	680	4.5	8.2
215	4.0	715	3.4	8.0
225	3.8	765	1.8	7.8
250	3.8	865	.2	7.7
275	3.8	900	.0	7.6
300	3.8	920	.0	7.6
330	3.8	920	.0	7.6
October 21, 1971				
0	13.0	585	-	8.6
25	12.8	580	-	8.5
50	12.2	590	-	8.5
75	10.8	650	5.2W	8.0
100	9.0	665	-	8.2
125	8.2	720	6.3W	8.2
150	7.6	760	-	8.0
175	7.0	750	-	7.9
200	5.8	750	4.3W	7.9
225	4.0	840	3.4W	7.7
250	4.0	920	.5W	7.7
275	4.0	965	-	7.7
300	4.0	965	-	7.7
325	4.0	965	-	7.7
April 26, 1972				
0	6.2	675	11.2W	8.7
25	5.8	675	-	8.6
50	5.2	680	-	8.6
75	4.6	665	-	8.6
100	4.0	670	10.0W	8.5
125	3.6	675	-	8.5
150	3.2	680	9.9W	8.5
175	3.0	690	-	8.4
190	2.6	720	-	8.3
200	2.4	790	-	8.2
205	2.4	820	6.8W	8.1
210	2.4	825	-	8.1
215	2.8	860	-	7.9
220	2.8	860	-	7.9
225	3.0	875	4.0W	7.9
250	3.8	930	-	7.7
275	3.8	960	-	7.7
300	3.8	960	-	7.7
325	3.8	960	-	7.7
330	3.8	960	-	7.7
335	-	-	.0W	-
September 1, 1972				
0	19.4	660	7.5	8.6
25	19.4	660	7.8	8.6
40	19.2	675	7.2	8.6
45	18.4	665	4.6	8.3
55	16.8	645	3.6	8.1
65	13.8	630	4.2	8.0
75	11.4	675	5.3	8.1
100	8.6	740	7.2	8.2
125	7.4	770	7.6	8.2
150	6.8	775	6.9	8.1
175	6.4	775	6.6	8.1
200	6.4	775	6.4	8.1
225	5.0	840	4.2	7.9
245	4.0	900	2.1	7.6
250	4.0	925	.1	7.6
275	4.2	940	.0	7.5
300	4.2	965	.0	7.6
330	4.4	965	.0	7.6

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir - Continued

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 4				
October 24, 1970				
0	11.4	605	-	-
25	11.4	605	-	-
50	11.4	595	-	-
75	11.8	755	-	-
100	10.0	780	-	-
125	8.8	785	-	-
150	7.8	760	-	-
175	4.8	820	-	-
200	4.0	920	-	-
225	4.0	945	-	-
240	4.0	945	-	-
April 14, 1971				
0	4.2	730	9.6	8.6
25	4.2	725	9.6	8.6
50	4.0	725	9.6	8.6
75	4.0	725	9.6	8.6
100	3.6	720	9.2	8.5
125	3.2	720	8.6	8.6
150	3.0	730	7.9	8.5
175	2.8	740	6.9	8.4
200	3.0	920	3.6	7.9
225	3.8	960	.4	7.7
250	3.8	995	.0	7.7
275	3.8	1,015	.0	7.7
August 1, 1971				
0	23.0	595	7.5	8.7
25	21.4	585	7.0	8.8
40	20.2	585	5.4	8.6
50	16.0	475	4.6	8.3
60	13.8	510	4.6	8.4
75	11.2	580	4.8	8.3
100	8.8	630	5.5	8.4
125	7.8	715	4.3	8.3
150	6.8	715	4.1	8.2
175	6.0	720	3.9	8.2
200	5.0	700	3.8	8.1
215	4.8	710	3.1	8.0
225	4.8	750	2.1	7.9
250	4.0	865	.2	7.7
285	4.0	920	.0	7.7
October 21, 1971				
0	12.8	610	-	8.5
25	12.2	610	-	8.5
50	12.2	595	-	8.5
75	11.0	730	-	8.0
100	9.8	745	-	8.1
125	8.8	755	-	8.1
150	7.8	780	-	8.0
175	7.0	775	-	7.9
200	6.0	775	-	7.9
225	4.2	905	-	7.6
250	4.0	945	-	7.7
279	4.0	945	-	7.6
April 26, 1972				
0	5.0	680	-	8.6
25	5.0	680	-	8.6
50	4.2	680	-	8.6
75	3.8	675	-	8.5
100	3.4	680	-	8.5
125	3.6	685	-	8.5
150	3.4	690	-	8.5
175	3.2	705	-	8.5
190	3.0	750	-	8.3
200	2.8	820	-	8.3
210	2.8	890	-	8.0
215	2.8	890	-	8.0
220	2.8	890	-	8.0
225	3.0	890	-	7.9
250	3.4	935	-	7.8
270	3.4	950	-	7.8

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 4--Continued				
September 1, 1972				
0	19.4	660	7.7	8.6
25	19.2	680	8.0	8.6
40	19.0	680	7.7	8.6
45	18.6	690	7.6	8.3
50	17.6	685	4.0	8.1
65	14.2	620	6.1	7.9
75	11.8	665	7.4	8.0
100	8.6	755	7.6	8.2
125	7.8	765	7.5	8.2
150	7.0	780	7.0	8.1
175	6.6	785	6.3	8.1
200	6.4	775	6.3	8.0
225	5.6	805	5.9	7.9
235	5.0	865	2.4	7.7
250	4.2	925	.4	7.6
275	4.0	950	.0	7.6
300	4.0	950	.0	7.6
310	4.0	960	.0	7.6
Site 5				
October 23, 1970				
0	11.8	605	-	8.2
25	11.4	605	-	-
50	11.4	605	6.8W	8.4
75	11.2	645	-	8.3
85	11.2	780	-	-
100	10.8	790	4.2W	8.1
125	9.8	790	-	-
150	8.0	790	3.0W	8.0
175	5.8	820	-	-
195	4.8	960	1.4W	8.1
April 14, 1971				
0	5.0	715	9.4	8.6
25	4.4	715	9.6	8.6
50	3.8	715	9.3	8.5
75	3.6	705	9.3	8.6
100	3.2	720	9.2	8.6
125	3.0	725	8.9	8.5
150	3.0	725	8.7	8.4
175	3.0	740	8.4	8.5
206	3.0	920	1.5	7.8
August 1, 1971				
0	22.8	570	6.9	8.7
25	21.0	570	6.3	8.7
30	20.8	570	6.1	8.7
40	19.2	555	5.2	8.5
50	16.8	595	4.7	8.3
60	13.2	595	4.5	8.4
75	10.8	610	4.6	8.4
100	8.8	670	4.9	8.4
125	7.2	715	4.3	8.3
150	6.[illegible]	720	4.1	8.2
175	6.0	720	3.7	8.2
200	5.8	725	3.2	8.1
225	5.0	765	1.[illegible]	7.8
239	5.0	820	.3	7.7
October 22, 1971				
0	12.8	590	7.5W	8.4
25	12.4	590	-	8.4
50	12.2	590	-	8.5
75	12.0	595	6.5W	8.3
100	10.0	745	4.6W	8.0
125	9.0	755	4.9W	8.0
150	8.0	775	-	7.9
175	7.2	765	-	7.8
200	6.2	785	3.4W	7.8
225	5.0	885	-	7.6
236	5.0	895	.5W	7.6
April 26, 1972				
0	5.6	680	10.3W	8.6
25	5.0	670	-	8.6
50	5.0	670	-	8.6
75	4.8	655	-	8.6
90	4.0	669	-	8.5
100	4.0	660	10.0W	8.5
125	3.8	665	-	8.5
150	3.8	680	-	8.5
175	3.6	715	-	8.4
190	3.4	770	-	8.2
200	3.2	810	6.2W	8.0
225	3.2	850	-	7.9
230	-	-	4.0W	-

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 5--Continued				
September 1, 1972				
0	19.4	655	7.6	8.5
20	19.2	635	7.6	8.6
30	19.2	630	7.9	8.6
40	18.4	675	5.2	8.4
50	17.4	675	3.6	8.2
60	15.6	664	3.6	8.1
75	12.0	6[illegible]	4.6	8.1
90	10.0	7[illegible]	6.8	8.3
100	9.0	7[illegible]	7.4	8.[illegible]
125	7.4	8[illegible]	7.0	8.[illegible]
150	7.2	7[illegible]	6.6	8.2
175	6.2	7[illegible]	6.5	8.2
200	6.4	77[illegible]	5.8	8.1
225	5.6	6[illegible]	3.6	8.[illegible]
246	4.8	8[illegible]	.4	7.4
Site 6				
October 23, 1970				
0	[illegible]	[illegible]	-	
25	11.6	[illegible]	-	
50	11.6	8[illegible]	-	
75	11.[illegible]	8[illegible]	-	
100	10.8	790	-	
125	8.8	795	-	
150	8.0	790	-	
163	7.[illegible]	795		
April 14, 1971				
0	4.4	7[illegible]	[illegible]	[illegible]
25	4.2	700	[illegible]	[illegible]
50	4.[illegible]	715	7.[illegible]	8.5
75	4.0	720	[illegible]	8.5
100	[illegible]	735	9.1	8.[illegible]
125	3.0	735	8.8	8.5
161	3.0	735	8.6	8.5
August 1, 1971				
0	2[illegible].2	570	6.8	8.7
25	20.8	575	6.2	8.7
30	20.6	575	6.0	8.6
40	19.2	580	4.5	8.5
50	16.8	535	4.1	8.2
60	12.8	490	4.3	8.3
75	11.0	610	4.4	8.4
100	9.0	670	4.7	8.4
125	7.6	720	4.2	8.2
150	6.4	720	3.8	8.2
175	6.4	710	3.5	8.1
200	6.0	720	1.6	8.0
21[illegible]	5.0	720	1.5	8.0
October 22, 1971				
0	12.4	605	-	8.4
25	12.2	615	-	8.5
50	12.2	610	-	8.4
75	12.0	620	-	8.4
100	10.0	750	-	8.0
125	8.8	780	-	8.0
150	7.8	790	-	7.9
175	7.0	790	-	7.8
204	6.0	810	-	7.6
April 26, 1972				
0	5.6	7[illegible]	-	8.6
25	5.2	690	-	8.6
50	5.0	685	-	8.6
75	4.4	685	-	8.6
100	4.0	690	-	8.5
125	4.0	690		8.5
150	3.8	695	-	8.5
175	3.8	725	-	8.4
200	3.6	775	-	8.1
215	3.4	820	-	8.1
August 31, 1972				
0	19.5	6[illegible]	[illegible]	8.5
25	19.4	6[illegible]	6.4	8.5
40	19.0	665	5.8	8.4
45	18.4	685	[illegible]	8.2
50	17.6	695	[illegible]	8.1
60	15.0	68[illegible]	[illegible]	[illegible]
70	13.6	645	3.3	[illegible]
75	12.2	665	4.2	[illegible]
100	8.8	745	5.8	8.2
125	7.6	765	5.6	8.2
150	6.8	765	5.2	8.2
175	6.4	765	4.7	8.1
200	6.6	760	4.3	8.1
22[illegible]	-	765	2.[illegible]	8.0

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir - Continued

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 6.5				
August 1, 1971				
0	22.0	570	6.8	8.7
20	21.2	565	6.9	8.7
30	20.4	595	6.0	8.6
40	19.4	655	4.9	8.4
50	17.2	650	3.7	8.1
60	15.2	580	3.3	8.0
70	12.8	520	3.9	8.1
October 22, 1971				
0	13.0	625	7.3W	8.4
25	12.6	625	-	8.4
50	12.2	625	-	8.4
65	12.2	655	7.2W	8.3
Site 7				
October 23, 1970				
0	12.0	700	6.6W	8.2
25	12.0	690	-	8.5
50	11.8	680	6.6W	8.5
75	11.8	680	6.7W	8.4
85	11.8	745	-	8.4
100	10.8	775	4.0W	8.1
125	9.0	780	-	-
150	8.4	770	2.0W	8.0
April 14, 1971				
0	5.2	735	9.6	8.6
25	4.0	725	9.6	8.6
50	4.0	725	9.4	8.6
75	3.8	735	9.3	8.6
100	3.2	740	9.2	8.6
125	3.0	760	8.8	8.6
158	3.0	765	8.4	8.5
July 30, 1971				
0	22.0	560	7.0	8.8
25	20.8	560	6.6	8.7
30	20.8	560	6.6	8.7
40	19.8	580	5.5	8.5
50	17.0	575	5.0	8.3
75	11.2	640	6.4	8.4
100	9.0	670	7.1	8.5
125	7.0	710	6.8	8.4
150	6.2	715	6.3	8.3
175	6.2	720	5.9	8.3
195	6.2	720	5.4	8.2
October 22, 1971				
0	12.2	630	7.0W	8.4
25	12.0	630	-	8.4
50	12.0	630	6.8W	8.4
75	12.0	710	6.7W	8.2
100	10.0	775	4.3W	7.9
125	9.0	795	4.5W	7.9
150	7.8	805	3.9W	7.8
175	7.2	800	-	7.8
191	7.2	800	3.4W	7.8
April 26, 1972				
0	5.0	705	10.6W	8.6
25	4.8	690	-	8.5
50	4.8	685	-	8.5
75	4.4	690	-	8.5
100	4.2	700	-	8.5
125	4.2	700	9.8W	8.5
150	4.0	715	-	8.2
175	4.0	790	8.8W	8.2
180	3.8	790	-	8.1
190	3.8	905	5.6W	8.0
August 31, 1972				
0	19.4	650	6.7	8.5
25	19.2	675	6.4	8.5
30	19.2	675	6.4	8.5
40	18.8	665	5.3	8.4
50	17.4	710	3.0	8.1
60	15.6	675	2.7	8.0
70	13.4	660	3.4	8.0
75	11.8	685	4.4	8.1
100	8.4	750	5.6	8.2
125	7.6	765	5.4	8.2
150	7.0	765	5.0	8.1
175	6.8	750	4.7	8.1
200	6.6	760	4.4	8.1
206	6.8	750	4.3	8.1
Site 8				
October 23, 1970				
0	12.0	715	6.8W	-
25	11.8	705	-	-
50	11.8	705	6.8W	-
75	11.8	725	6.5W	-
100	11.0	760	6.1W	-
125	9.0	790	-	-
148	8.2	790	2.5W	-
April 14, 1971				
0	5.8	755	9.6	8.7
25	4.2	740	9.6	8.7
50	4.0	740	9.5	8.7
75	3.4	740	9.3	8.6
100	3.2	755	9.2	8.6
125	3.2	760	9.1	8.6
155	3.0	760	8.3	8.5
July 30, 1971				
0	22.2	535	7.2	8.7
25	21.0	545	7.0	8.7
30	21.0	545	7.0	8.7
35	20.4	565	6.2	8.5
40	19.4	575	5.3	8.4
50	17.8	580	4.7	8.2
75	11.0	655	6.8	8.4
100	9.0	700	7.1	8.4
125	7.2	705	7.0	8.3
150	6.8	710	6.7	8.3
175	6.2	715	6.3	8.2
190	6.2	720	5.6	8.1
October 22, 1971				
0	12.0	640	-	8.4
25	12.0	640	-	8.4
50	12.0	640	-	8.4
75	11.4	720	-	8.2
100	10.0	785	-	7.9
125	8.8	790	-	7.9
150	7.8	815	-	7.8
175	7.2	820	-	7.7
189	7.2	830	-	7.6
April 26, 1972				
0	5.4	715	-	8.6
25	5.2	715	-	8.6
50	5.0	715	-	8.6
75	4.8	705	-	8.5
100	4.4	710	-	8.5
125	4.2	710	-	8.5
150	4.0	760	-	8.4
175	4.0	990	-	7.9
185	4.0	990	-	7.8
August 31, 1972				
0	19.4	640	6.6	8.5
25	19.2	655	6.5	8.6
30	19.0	655	6.1	8.6
40	18.2	675	3.7	8.2
50	17.4	690	2.7	8.1
60	15.8	685	2.5	8.0
70	12.8	680	3.7	8.0
75	11.4	700	4.5	8.1
100	8.6	755	5.4	8.2
125	7.4	765	5.2	8.2
150	6.8	755	4.9	8.1
175	6.8	755	4.6	8.1
202	6.6	775	3.9	8.0
Site 9				
October 23, 1970				
0	12.0	745	7.5W	8.4
25	11.8	745	-	8.4
50	11.8	735	6.7W	8.4
75	11.8	735	-	8.2
100	11.2	755	6.3W	8.1
125	9.0	790	-	-
144	8.6	780	2.1W	7.8
April 14, 1971				
0	4.8	760	9.5	8.7
25	4.0	750	9.5	8.7
50	3.8	755	9.4	8.6
75	3.8	750	9.3	8.6
100	3.4	760	9.2	8.6
125	3.4	755	9.2	8.6
150	3.0	760	8.7	8.6
Site 9--continued				
July 30, 1971				
0	22.0	520	7.1	8.7
25	20.8	530	6.5	8.7
30	20.2	540	5.9	8.6
40	18.8	580	4.6	8.3
50	16.0	595	4.9	8.2
75	11.5	670	6.3	8.4
100	8.6	690	7.0	8.4
125	7.0	700	6.8	8.3
150	6.5	710	6.3	8.2
175	6.2	715	5.9	8.2
187	6.2	715	5.6	8.1
October 20, 1971				
0	13.6	620	7.5	8.4
25	13.0	605	7.2	8.4
50	12.8	605	7.2	8.4
75	12.6	635	6.7	8.3
80	12.0	650	6.4	8.3
85	12.0	660	5.4	8.1
90	11.0	735	4.2	8.0
100	10.0	750	4.0	8.0
125	9.0	760	4.2	8.0
150	8.0	775	3.6	7.9
157	7.6	780	3.0	7.8
183	7.2	790	3.0	7.8
April 25, 1972				
0	6.0	715	10.4W	8.6
25	5.2	715	-	8.5
50	5.0	700	-	8.5
75	4.6	700	-	8.5
100	4.2	705	9.8W	8.5
125	4.0	705	-	8.5
150	4.0	840	-	8.4
175	4.0	910	4.4W	8.0
August 31, 1972				
0	19.4	640	6.7	8.5
25	19.2	645	6.7	8.5
35	18.8	640	5.8	8.5
40	18.4	645	5.3	8.5
45	18.0	655	4.4	8.3
50	17.0	690	2.7	8.1
60	15.8	695	2.3	8.0
70	14.6	695	3.2	8.0
75	11.2	735	4.5	8.1
100	8.4	755	5.4	8.2
125	7.4	765	5.4	8.2
150	6.8	755	4.9	8.2
175	6.8	755	4.5	8.2
199	6.8	775	3.8	8.1
Site 10				
October 23, 1970				
0	12.4	765	-	-
25	12.2	760	-	-
50	12.0	745	-	-
75	11.8	735	-	-
100	11.2	745	-	-
125	8.8	785	-	-
135	8.4	780	1.6W	-
April 14, 1971				
0	5.0	770	9.3	8.6
25	4.0	770	9.4	8.6
50	4.0	770	9.4	8.6
75	3.8	765	9.4	8.6
100	3.6	770	9.3	8.6
125	3.6	770	9.2	8.6
141	3.2	795	8.5	8.5
July 30, 1971				
0	22.2	525	7.2	8.7
25	20.8	535	6.5	8.7
30	20.0	560	5.6	8.5
40	19.2	570	5.2	8.4
50	18.0	575	4.8	8.3
75	10.2	690	6.7	8.4
100	8.8	690	7.0	8.4
125	7.0	700	6.5	8.3
150	6.8	705	6.2	8.2
175	6.8	705	5.9	8.2

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir - Continued

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 10--continued				
October 20, 1971				
0	13.8	615	7.3	8.4
25	12.8	615	7.2	8.4
50	12.2	620	7.2	8.4
75	12.0	640	6.8	8.3
80	12.0	650	6.5	8.3
85	11.8	680	5.6	8.2
90	11.2	710	5.1	8.1
100	10.8	730	3.9	8.0
125	9.0	760	4.0	8.0
150	8.0	760	3.5	7.9
174	7.4	785	3.0	7.8
April 25, 1972				
0	5.8	705	-	8.6
25	5.4	710	-	8.5
50	5.0	690	-	8.5
75	4.8	695	-	8.5
100	4.6	700	-	8.5
125	4.4	715	-	8.5
150	4.0	820	-	8.2
165	4.0	1,080	-	7.8
Site 10.5				
April 15, 1971				
0	4.4	795	9.5	8.5
25	3.8	790	9.5	8.5
50	3.6	775	9.4	8.5
75	3.6	775	9.3	8.5
100	3.8	775	9.2	8.5
125	4.0	790	9.2	8.4
150	4.0	790	9.1	8.4
July 30, 1971				
0	21.0	525	6.9	8.7
25	20.4	530	6.7	8.7
30	20.2	540	6.5	8.7
40	19.0	580	5.9	8.6
50	16.8	600	4.8	8.3
75	10.2	690	6.5	8.4
100	8.0	700	6.8	8.4
125	7.2	700	6.5	8.3
150	6.8	705	5.9	8.3
178	6.8	705	5.9	8.3
October 20, 1971				
0	13.0	615	7.5	8.4
25	12.4	610	7.4	8.4
50	12.0	620	7.4	8.4
75	12.0	620	7.4	8.4
85	11.8	635	7.4	8.4
89	11.2	655	5.8	8.1
90	11.0	725	5.4	8.3
100	10.2	750	4.1	8.0
110	9.8	745	4.1	8.0
125	9.0	760	4.1	8.0
150	7.8	785	3.1	7.9
174	7.2	785	2.5	7.8
April 28, 1972				
0	6.0	710	-	8.7
25	5.0	700	-	8.7
50	5.0	700	-	8.7
75	5.0	700	-	8.7
100	5.0	710	-	8.7
125	5.0	715	-	8.7
150	4.8	770	-	8.6
160	4.6	835	-	8.2
165	3.8	1,110	-	7.8
August 31, 1972				
0	19.4	610	6.9	8.6
25	19.0	625	6.7	8.6
30	18.8	625	6.3	8.6
40	18.4	625	5.3	8.6
50	17.8	655	4.9	8.4
60	14.8	700	2.5	8.0
70	13.0	720	3.4	8.1
80	11.0	735	4.5	8.1
90	9.8	740	4.9	8.2
100	8.6	765	5.2	8.2
125	7.2	775	5.2	8.2
150	6.8	765	5.2	8.1
175	6.4	765	4.2	8.0
188	6.4	760	3.9	8.1

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 11				
October 22, 1970				
0	11.8	765	5.0	8.4
25	11.8	765	4.9	8.2
50	11.8	765	5.1	8.3
75	11.2	790	5.0	-
80	11.0	825	5.0	8.2
April 14, 1971				
0	3.8	795	9.4	8.6
25	4.0	775	9.5	8.6
50	4.0	780	9.5	8.6
75	4.2	790	9.5	8.6
88	4.2	795	9.4	8.6
July 31, 1971				
0	22.2	535	7.2	8.7
25	20.4	525	6.7	8.6
30	20.4	525	6.7	8.6
40	20.0	550	6.2	8.5
50	16.0	660	4.1	8.2
60	14.4	690	4.2	8.1
75	11.0	695	5.4	8.2
100	8.8	695	6.1	8.3
125	7.4	700	5.8	8.2
132	7.4	700	5.8	8.2
October 22, 1971				
0	13.2	625	7.3W	8.4
25	12.0	610	-	8.4
50	11.8	610	-	8.4
75	11.8	625	7.5W	8.4
85	11.8	665	-	8.4
90	11.2	680	-	8.4
100	11.0	705	6.7W	8.2
110	-	-	4.3W	-
125	10.0	760	3.8W	7.9
April 28, 1972				
0	5.8	705	10.9W	8.7
25	5.6	690	-	8.7
50	5.2	700	-	8.7
75	5.2	705	-	8.7
100	5.2	705	-	8.7
128	5.2	715	10.0W	8.7
August 31, 1972				
0	19.4	560	6.4	8.6
25	19.0	620	6.1	8.6
40	18.4	645	5.4	8.5
50	17.8	685	4.0	8.2
60	15.6	700	2.6	8.0
70	14.4	720	2.7	8.1
75	12.0	730	3.6	8.2
100	8.6	765	4.5	8.3
125	7.6	765	4.6	8.4
147	7.0	775	4.2	8.2
Site 12				
October 22, 1970				
0	11.4	775	5.3	-
25	11.8	765	5.1	-
31	11.8	765	5.0	-
April 14, 1971				
0	4.0	790	9.4	8.6
25	4.0	795	9.3	8.6
34	4.0	795	9.3	8.6
July 31, 1971				
0	22.8	530	7.3	8.6
25	20.4	525	6.6	8.6
30	20.2	545	6.3	8.6
40	19.8	560	5.7	8.5
51	16.2	640	4.1	8.2

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 12.5				
July 31, 1971				
0	23.0	510	7.0	8.6
25	20.8	495	6.8	8.6
30	20.8	495	6.7	8.5
40	19.4	575	5.6	8.4
50	16.8	610	4.5	8.2
60	12.4	675	5.5	8.2
75	10.8	690	6.2	8.3
100	9.0	700	6.7	8.3
125	7.2	710	6.8	8.3
150	6.4	710	6.1	8.2
170	6.2	715	5.9	8.2
October 22, 1971				
0	12.4	620	-	8.4
25	12.0	620	-	8.4
50	12.0	620	-	8.4
75	11.8	625	-	8.3
100	10.6	750	-	7.9
125	9.2	770	-	7.9
158	7.6	780	-	7.7
April 28, 1972				
0	6.0	705	-	8.7
25	5.2	705	-	8.7
50	5.0	705	-	8.7
75	5.0	700	-	8.7
100	5.0	700	-	8.7
125	5.0	700	-	8.7
140	5.0	715	-	8.6
August 31, 1972				
0	19.4	600	6.8	8.6
25	19.2	610	6.7	8.6
40	18.8	615	6.7	8.6
50	18.6	625	6.2	8.6
55	18.6	630	3.3	8.5
60	17.0	690	2.8	8.1
70	14.6	710	3.3	8.1
75	14.2	710	3.3	8.1
100	10.4	750	4.7	8.2
125	8.4	780	5.3	8.2
150	7.8	780	5.0	8.2
170	6.8	775	4.6	8.2
Site 13				
October 20, 1970				
0	11.4	775	7.2	-
25	11.8	780	7.2	-
50	11.8	780	7.2	-
75	12.0	765	7.1	-
100	11.4	795	6.3	-
105	11.2	810	4.7	-
110	10.8	810	3.2	-
115	9.4	815	2.2	-
120	8.8	805	1.8	-
125	8.6	800	1.7	-
April 13, 1971				
0	3.8	765	9.3	8.5
25	3.6	770	9.2	8.5
50	3.6	770	9.1	8.5
75	3.4	770	9.1	8.4
100	3.2	775	9.1	8.4
125	3.0	780	9.0	8.4
130	3.0	780	9.0	8.4
Site 14				
October 20, 1970				
0	12.0	745	7.0	-
25	12.0	745	7.0	-
50	12.0	745	6.9	-
70	12.0	735	7.0	-
April 13, 1971				
0	3.8	770	9.4	8.5
25	3.4	770	9.3	8.5
50	3.2	775	9.2	8.4
75	3.2	775	9.1	8.4
82	3.2	775	9.1	8.4

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir - Continued

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 14--continued				
July 31, 1971				
0	21.0	485	6.7	8.6
25	20.6	490	6.6	8.6
30	20.6	490	6.6	8.6
35	20.8	495	6.3	8.5
40	18.8	555	5.2	8.4
50	16.2	620	4.6	8.2
60	14.0	650	5.0	8.2
75	10.4	685	6.4	8.3
100	8.0	710	6.4	8.3
124	7.2	720	6.0	8.2
October 22, 1971				
0	12.4	610	-	8.4
25	11.8	610	-	8.4
50	11.8	610	-	8.4
75	11.8	610	-	8.4
85	11.4	640	-	8.2
90	11.0	670	-	8.2
100	11.0	700	-	8.1
127	9.2	790	-	7.8
April 27, 1972				
0	7.4	680	-	8.6
25	5.6	680	-	8.7
50	5.0	680	-	8.7
75	5.0	670	-	8.8
100	5.0	670	-	8.7
110	5.0	670	-	8.7
Site 15				
October 20, 1970				
0	12.0	745	6.9	8.3
25	12.0	745	6.9	8.3
50	12.0	745	6.8	8.3
75	12.0	735	6.8	8.5
85	12.0	745	6.8	-
98	11.0	785	2.0	-
100	11.0	795	1.8	-
102	10.4	805	1.8	-
125	8.4	800	1.2	8.2
April 13, 1971				
0	3.8	765	9.4	8.5
25	3.4	770	9.2	8.5
50	3.4	770	9.2	8.5
75	3.4	770	9.1	8.4
100	3.2	775	9.1	8.4
125	3.2	775	9.0	8.4
139	3.0	775	9.0	8.4
July 31, 1971				
0	21.0	485	6.8	8.6
25	20.4	485	6.6	8.6
30	20.4	485	6.6	8.6
40	20.0	500	6.0	8.6
50	15.8	615	4.5	8.2
60	12.8	665	5.7	8.3
75	10.2	690	6.4	8.3
100	8.0	720	6.7	8.3
125	6.8	720	6.6	8.2
150	6.4	720	5.5	8.1
170	6.8	720	5.1	8.1
October 22, 1971				
0	13.2	620	7.2W	8.4
25	12.0	620	-	8.4
50	12.0	620	-	8.4
75	12.0	620	7.1W	8.4
100	10.8	720	4.0W	8.0
125	9.2	780	3.4W	7.9
150	8.0	810	-	7.8
165	7.8	790	2.3W	7.7
April 28, 1972				
0	6.2	685	10.0W	8.7
25	5.0	680	-	8.7
50	5.0	670	-	8.7
75	5.0	665	-	8.7
100	5.0	670	-	8.7
125	4.8	675	-	8.6
155	4.2	705	-	8.4
158	-	-	7.4W	-

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 15--continued				
August 31, 1972				
0	19.4	570	6.6	8.6
25	19.2	615	6.4	8.6
40	18.6	640	5.9	8.6
50	18.4	650	4.9	8.5
60	16.8	685	2.8	8.1
70	14.2	720	3.1	8.1
75	13.0	735	3.6	8.2
100	8.6	780	5.0	8.3
125	7.8	795	4.6	8.2
150	7.4	800	4.1	8.2
182	7.2	825	3.2	8.2
Site 16				
October 20, 1970				
0	12.0	745	7.1	-
25	12.0	745	7.0	-
50	12.0	735	6.9	-
75	12.0	735	6.8	-
95	11.4	785	6.2	-
98	11.0	795	3.6	-
102	10.8	800	2.8	-
118	8.4	800	1.4	-
April 13, 1971				
0	4.0	765	9.3	8.5
25	4.0	765	9.2	8.5
50	3.8	765	9.2	8.5
75	3.8	770	9.1	8.4
100	3.8	760	9.1	8.4
115	3.8	760	9.1	8.4
July 31, 1971				
0	21.8	480	6.8	8.6
25	20.2	490	6.4	8.6
30	20.2	490	6.4	8.6
40	20.0	525	5.6	8.4
50	18.0	590	4.5	8.3
60	12.4	670	5.4	8.1
75	10.2	700	6.3	8.3
100	8.0	710	6.6	8.3
125	6.8	715	6.1	8.2
148	6.8	715	5.4	8.1
October 22, 1971				
0	12.2	600	-	8.4
25	11.8	600	-	8.4
50	11.8	600	-	8.4
75	11.4	605	-	8.4
85	11.4	605	-	8.4
90	11.4	620	-	8.4
100	11.0	675	-	8.2
125	9.0	790	-	7.8
139	8.8	795	-	7.8
April 27, 1972				
0	7.8	690	-	8.6
25	5.2	685	-	8.7
50	5.0	685	-	8.7
75	5.0	670	-	8.7
100	4.8	675	-	8.6
125	4.8	675	-	8.6
135	4.8	675	-	8.6
Site 17				
October 20, 1970				
0	11.8	725	7.0	-
25	11.8	725	6.9	-
50	11.8	710	6.7	-
75	11.8	700	6.6	-
95	11.4	750	4.0	-
98	11.0	820	1.0	-
100	11.0	820	.8	-
110	10.0	860	.0	-
118	9.4	890	.0	-
April 13, 1971				
0	4.8	755	9.2	8.5
25	4.0	765	9.1	8.5
50	4.0	765	9.1	8.5
75	4.0	750	9.0	8.5
100	3.6	740	8.9	8.5
125	3.6	735	8.9	8.4
130	3.4	735	8.9	8.5

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 17--continued				
July 28, 1971				
0	22.0	450	7.0	8.6
25	20.8	475	6.5	8.6
30	20.8	480	6.4	8.5
35	20.2	495	6.4	8.5
40	18.4	535	4.7	8.2
45	16.8	585	4.4	8.1
50	14.0	650	5.3	8.2
75	10.8	690	6.3	8.3
100	9.0	720	6.3	8.2
125	7.8	730	6.0	8.1
150	7.0	770	5.4	8.0
163	7.0	770	5.2	8.0
October 19, 1971				
0	12.0	610	6.9	8.4
25	12.0	610	6.9	8.4
50	12.0	610	6.9	8.3
75	11.8	620	6.7	8.3
85	11.8	650	5.6	8.1
95	11.0	700	4.1	7.9
100	11.0	730	3.6	8.0
125	9.2	800	2.9	7.8
155	8.0	815	2.7	7.7
April 27, 1972				
0	7.6	680	-	8.6
25	5.6	680	-	8.7
50	5.2	670	-	8.7
75	5.2	665	-	8.7
100	5.0	665	-	8.7
125	4.6	680	-	8.6
150	4.2	695	-	8.5
August 30, 1972				
0	19.2	565	6.6	8.5
25	19.0	575	6.4	8.6
35	18.8	600	6.0	8.6
40	18.8	605	6.0	8.6
45	18.4	620	5.6	8.6
50	17.4	655	3.8	8.2
55	16.8	665	3.0	8.1
60	15.6	695	3.0	8.1
65	14.2	720	3.3	8.1
70	13.0	740	3.7	8.1
75	12.2	755	3.9	8.1
80	11.2	775	4.0	8.1
90	9.8	775	4.6	8.1
100	8.8	785	4.8	8.1
125	8.0	810	4.2	8.3
150	7.8	835	3.8	8.2
171	7.8	855	3.2	8.0
Site 18				
October 21, 1970				
0	11.2	675	6.9	8.3
25	11.2	675	6.8	8.2
50	11.2	675	6.8	8.2
75	11.2	675	6.7	8.2
95	11.2	675	6.0	-
100	11.2	680	5.4	8.0
April 13, 1971				
0	5.8	760	9.2	8.5
25	4.2	760	9.1	8.5
50	4.2	755	9.0	8.5
75	4.0	755	9.0	8.5
100	4.0	740	9.0	8.5
123	4.0	740	8.8	7.6
July 31, 1971				
0	22.0	435	7.2	8.6
25	21.0	440	6.8	8.6
30	20.4	455	6.6	8.6
40	20.0	480	5.2	8.4
50	16.2	610	4.4	8.2
60	13.0	685	5.2	8.2
75	11.2	710	5.8	8.3
100	9.2	740	5.9	8.2
125	8.0	750	5.6	8.2
150	7.8	795	4.6	8.0

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir - Continued

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 18--continued				
October 19, 1971				
0	11.8	605	7.5	8.4
25	11.8	605	7.5	8.4
50	11.8	605	7.5	8.4
75	11.8	605	7.5	8.4
95	11.2	655	6.1	8.2
100	11.0	700	5.2	8.0
105	10.8	730	4.4	7.8
125	9.8	800	2.8	7.8
150	8.8	840	2.7	7.7
April 27, 1972				
0	6.6	670	10.0W	8.7
25	5.6	680	-	8.7
50	5.6	670	-	8.7
75	5.2	670	-	8.7
100	5.2	670	-	8.6
125	5.0	670	-	8.6
135	5.0	670	9.5W	8.6
August 30, 1972				
0	19.2	565	6.4	8.5
25	18.8	570	6.2	8.5
50	18.4	645	4.8	8.4
60	16.0	710	3.2	8.1
70	13.2	775	3.6	8.1
80	11.4	785	3.8	8.0
90	9.8	795	4.0	8.1
100	8.8	805	3.9	8.0
125	8.0	840	3.7	8.0
150	7.8	885	3.2	8.0
162	7.8	915	2.4	7.9
Site 19				
October 21, 1970				
0	11.0	675	7.8	-
25	11.0	675	7.5	-
50	10.8	665	7.2	-
75	10.2	625	6.7	-
90	10.0	610	6.5	-
April 13, 1971				
0	5.0	740	9.4	8.5
25	4.4	755	9.5	8.6
50	4.2	755	9.6	8.6
75	4.2	735	9.5	8.6
100	4.0	740	9.3	8.6
110	4.0	740	9.1	8.6
July 30, 1971				
0	20.8	395	6.8	8.7
25	20.0	410	6.4	8.6
30	20.0	420	6.2	8.6
35	19.0	445	5.4	8.5
37	19.0	460	4.4	8.2
40	16.0	590	4.1	8.2
50	13.8	635	4.8	8.3
75	10.0	680	5.5	8.3
100	8.2	725	4.9	8.2
125	8.0	740	4.6	8.1
138	8.2	750	4.3	8.1
October 19, 1971				
0	11.8	595	7.7	8.4
25	11.8	595	7.7	8.4
50	11.8	595	7.7	8.4
75	11.8	595	7.7	8.4
95	11.8	595	7.7	8.4
100	11.0	670	5.5	8.1
105	10.2	745	3.5	7.9
125	9.8	800	2.3	7.7
142	9.2	820	2.3	7.7
April 27, 1972				
0	7.8	665	-	8.6
25	5.4	665	-	8.7
50	5.2	665	-	8.7
75	5.2	665	-	8.7
100	5.2	665	-	8.6
125	5.0	680	-	8.6
Site 19--continued				
August 30, 1972				
0	19.4	525	6.4	8.5
25	19.0	530	6.2	8.5
35	18.8	540	6.1	8.5
40	18.6	550	5.7	8.4
45	18.2	555	4.9	8.4
50	16.2	680	3.3	8.1
60	15.0	715	3.3	8.0
70	12.6	765	3.4	8.0
80	10.6	785	3.4	8.0
90	9.4	795	3.4	8.0
100	9.0	805	3.3	8.0
125	7.8	840	2.7	7.9
150	8.0	880	2.3	7.9
Site 20				
October 21, 1970				
0	11.0	635	7.1	8.5
25	11.0	630	7.0	8.5
50	10.4	610	6.9	8.5
70	9.8	600	6.5	8.4
80	9.2	595	6.4	8.5
April 13, 1971				
0	5.8	765	9.9	8.7
25	4.6	740	9.9	8.7
50	4.2	750	9.8	8.7
75	4.2	735	9.8	8.6
94	4.2	735	9.8	8.6
July 30, 1971				
0	20.0	395	6.6	8.6
15	19.8	395	6.6	8.6
25	19.8	395	6.6	8.6
30	19.8	400	6.6	8.6
35	19.8	400	6.6	8.6
37	19.8	405	5.3	8.3
40	17.0	555	4.0	8.2
50	14.8	610	4.6	8.2
75	10.8	650	5.3	8.3
100	9.0	690	5.0	8.2
128	8.4	740	4.2	8.0
October 19, 1971				
0	11.8	575	8.0	8.4
25	11.8	575	8.0	8.4
50	11.8	575	8.0	8.4
75	11.8	575	7.9	8.4
100	11.2	595	7.6	8.4
105	11.2	600	7.5	8.4
110	11.0	640	5.5	8.2
115	10.8	680	4.5	8.0
127	10.0	715	3.5	7.9
April 27, 1972				
0	8.2	685	10.9W	8.8
25	5.2	670	-	8.8
50	5.0	665	-	8.8
75	5.0	665	-	8.7
100	5.0	660	-	8.7
114	-	-	10.3W	-
120	5.0	670	-	8.7
August 30, 1972				
0	19.2	520	6.7	8.5
25	18.6	540	6.0	8.5
30	18.4	545	5.9	8.4
35	18.4	550	5.8	8.4
40	18.4	575	5.5	8.4
45	17.8	615	4.1	8.1
50	17.4	660	3.7	8.1
60	16.0	690	3.2	8.0
70	13.2	760	3.2	8.0
80	13.2	765	3.2	8.0
90	9.8	770	2.8	7.9
100	9.2	800	2.8	7.9
125	8.0	835	2.3	7.9
141	8.0	855	2.1	7.9
Site 21				
October 21, 1970				
0	9.2	615	8.3	-
25	9.0	615	8.0	-
40	9.0	610	7.7	-
Site 21--continued				
April 13, 1971				
0	7.8	665	8.3	8.4
25	5.2	690	8.3	8.4
45	5.0	690	8.6	8.4
July 29, 1971				
0	20.8	405	7.5	8.7
15	19.0	420	7.4	8.7
25	19.0	420	6.6	8.6
30	18.4	435	6.2	8.5
40	16.0	500	4.2	8.2
50	14.0	550	4.2	8.2
75	11.2	625	3.4	8.1
October 19, 1971				
0	11.2	565	8.5	8.6
25	11.2	565	8.4	8.6
50	11.2	565	8.3	8.5
68	11.0	565	8.3	8.5
Site 22				
October 22, 1970				
0	9.0	610	8.4	-
25	9.0	610	8.1	-
40	8.6	595	8.2	-
April 13, 1971				
0	7.4	660	8.7	8.4
25	5.8	675	8.3	8.4
50	5.0	690	8.5	8.4
July 29, 1971				
0	19.0	430	6.9	8.6
25	19.0	430	6.9	8.6
30	19.0	430	6.9	8.6
35	19.0	430	6.9	8.6
40	17.0	465	4.0	8.1
45	13.8	570	3.9	8.0
50	12.0	605	3.6	8.0
75	10.8	635	3.0	7.9
84	10.8	635	2.8	7.9
October 19, 1971				
0	11.0	570	8.4	8.6
25	11.0	570	8.4	8.6
50	11.0	570	8.4	8.5
70	11.0	570	8.4	8.5
78	11.0	570	8.4	8.5
April 27, 1972				
0	7.0	685	-	8.8
10	6.6	680	-	8.8
20	6.2	690	-	8.8
30	6.2	690	-	8.8
40	6.2	690	-	8.8
50	6.2	690	-	8.8
60	6.2	690	-	8.8
70	5.8	690	-	8.8
August 30, 1972				
0	18.6	525	6.7	8.6
25	18.4	530	5.8	8.5
30	18.4	530	5.6	8.5
40	18.2	535	5.4	8.5
45	18.2	540	5.5	8.5
50	17.4	620	2.9	8.0
60	15.8	725	1.5	7.8
70	14.0	800	.8	7.8
80	12.0	840	.5	7.8
90	10.4	800	.1	8.0
94	10.0	820	0	8.0
Site 23				
October 21, 1970				
0	7.0	515	9.2	8.5
10	6.8	520	9.2	8.6
25	6.8	525	9.1	8.5
35	-	-	-	8.4
April 13, 1971				
0	9.2	695	8.3	8.5
25	7.6	680	7.9	8.5
40	7.2	680	7.9	8.5

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir - Continued

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 23--continued				
July 29, 1971				
0	18.8	425	6.4	8.5
15	18.2	435	5.4	8.3
25	17.2	465	4.6	8.2
30	16.8	465	4.3	8.1
35	16.0	490	3.8	8.1
40	15.6	505	3.6	8.1
45	15.0	520	3.6	8.1
50	14.0	545	3.6	8.1
75	11.0	670	1.7	7.8
October 19, 1971				
0	11.2	570	8.5	8.6
25	11.0	570	8.5	8.6
50	11.0	570	8.3	8.6
71	11.0	570	8.3	8.5
April 27, 1972				
0	7.6	595	9.6W	8.6
25	6.6	670	-	8.8
50	6.6	680	-	8.8
65	6.6	665	8.9W	8.7
August 30, 1972				
0	20.6	520	8.0	8.8
15	20.2	520	8.2	8.8
20	18.6	530	6.1	8.6
25	18.4	535	5.5	8.5
30	18.4	535	5.5	8.5
35	18.4	540	5.0	8.4
40	18.2	570	4.4	8.3
45	17.8	630	3.0	8.1
50	17.4	660	1.8	7.9
60	16.6	750	.9	7.8
70	15.0	835	.1	7.8
83	11.8	865	.0	7.9
Site 23.5				
October 21, 1970				
0	7.0	515	9.2	-
10	7.0	515	9.1	-
25	6.8	520	9.0	-
April 13, 1971				
0	9.0	690	8.3	8.4
25	7.8	665	7.9	8.4
34	7.8	665	7.9	8.4
July 29, 1971				
0	20.0	415	7.1	8.6
15	18.2	435	5.6	8.4
25	17.8	440	4.9	8.2
35	16.8	455	4.1	8.0
40	16.4	475	4.1	8.1
50	15.0	515	3.8	8.1
70	12.0	620	1.8	7.8
Site 24				
October 21, 1970				
0	6.4	515	9.4	8.5
10	6.4	520	9.2	8.4
20	6.4	520	9.0	8.1
April 13, 1971				
0	11.0	665	8.3	8.4
25	7.8	665	7.7	8.4
30	7.8	665	7.7	8.4
July 29, 1971				
0	21.8	465	8.1	8.8
15	19.4	495	7.4	8.7
25	19.4	495	7.2	8.7
30	19.2	555	5.8	8.4
32	19.0	640	4.4	8.1
35	17.8	670	2.4	8.0
40	16.2	740	2.3	8.0
50	13.0	635	2.2	8.0
63	13.0	650	1.5	7.9
October 19, 1971				
0	11.0	575	8.6	8.6
25	11.0	575	8.5	8.6
50	11.0	570	8.4	8.6
61	10.8	570	8.4	8.5
Site 24--continued				
April 27, 1972				
0	7.6	595	9.9W	8.6
10	6.8	620	-	8.7
20	6.8	670	-	8.7
30	6.8	740	-	8.6
40	6.8	745	-	8.6
52	6.6	770	9.2W	8.6
Site 25				
October 21, 1970				
0	6.4	720	9.6	-
8	6.4	720	9.6	-
April 13, 1971				
0	12.6	565	7.7	8.4
5	6.4	520	7.7	8.4
10	6.0	520	7.8	8.3
17	5.8	520	7.8	8.4
July 29, 1971				
0	21.0	620	8.9	8.8
15	19.4	615	6.6	8.6
25	19.6	725	7.0	8.7
30	19.2	740	6.2	8.6
35	18.2	850	3.2	8.1
40	17.0	860	1.4	8.0
49	16.8	850	1.2	8.0
October 19, 1971				
0	11.0	595	8.5	8.6
25	10.8	595	8.5	8.5
46	10.6	605	8.6	8.5
April 27, 1972				
0	8.8	765	-	8.6
15	7.0	770	-	8.7
25	7.0	770	-	8.6
35	6.8	780	-	8.6
August 30, 1972				
0	20.0	560	6.7	8.6
15	19.4	560	6.9	8.7
25	18.8	570	5.3	8.5
30	18.8	600	4.3	8.3
40	19.2	485	2.7	8.0
50	18.8	570	.3	7.8
62	17.8	665	.1	7.8
Site 26				
July 29, 1971				
0	22.2	940	8.0	8.7
15	20.0	1,040	7.0	8.6
25	20.0	1,040	7.0	8.6
30	20.0	1,110	6.4	8.6
37	20.0	1,250	4.0	8.3
October 19, 1971				
0	10.2	720	8.6	8.6
25	9.8	720	8.3	8.6
30	9.8	730	8.1	8.5
35	9.8	910	7.5	8.4
38	9.8	1,200	6.6	8.2
Site 26.5				
July 29, 1971				
0	22.2	1,150	8.2	8.7
15	21.2	1,150	6.6	8.5
25	20.0	1,310	6.1	8.5
31	20.0	1,440	5.3	8.4
October 19, 1971				
0	10.0	785	8.8	8.6
10	10.0	805	8.7	8.6
15	9.6	845	8.6	8.6
20	8.8	1,030	8.5	8.6
25	8.2	1,870	8.2	8.5
30	8.2	1,900	8.2	8.5
April 27, 1972				
0	6.6	695	9.4W	8.6
10	6.0	700	-	8.6
13	-	-	10.0W	-
18	5.8	705	-	8.6
Site 26.5--continued				
August 30, 1972				
0	21.6	625	6.7	8.6
10	20.2	640	6.7	8.6
20	19.2	660	6.0	8.6
30	18.6	810	5.1	8.5
35	18.0	1,055	4.1	8.3
41	17.8	1,150	3.1	8.3
Site 28				
October 21, 1970				
0	7.4	490	8.4	8.5
10	7.4	490	8.2	8.4
25	7.0	510	8.0	8.2
April 13, 1971				
0	10.0	645	7.9	8.4
25	7.8	640	7.6	8.5
33	7.8	640	7.8	8.4
July 29, 1971				
0	19.0	405	6.0	8.4
15	19.0	405	6.0	8.4
25	19.0	405	6.0	8.4
30	18.0	455	4.7	8.2
35	17.0	520	3.2	7.9
40	15.2	615	2.5	8.0
50	14.0	635	2.2	7.9
70	12.0	670	1.7	7.8
October 19, 1971				
0	11.2	560	8.5	8.7
25	11.0	545	8.5	8.7
50	10.8	540	8.5	8.7
62	10.8	540	8.3	8.7
April 27, 1972				
0	8.0	545	9.9W	8.6
10	7.0	545	-	8.6
20	6.6	540	-	8.6
30	6.6	580	-	8.6
40	6.6	660	-	8.6
55	6.6	745	8.7W	8.5
Site 29				
October 21, 1970				
0	7.4	510	9.1	-
15	7.4	510	8.9	-
April 13, 1971				
0	9.0	650	8.2	8.4
17	7.0	635	8.0	8.6
July 29, 1971				
0	19.8	390	6.5	8.5
15	19.0	390	6.0	8.5
25	19.0	405	6.0	8.3
30	19.0	405	6.0	8.5
35	17.0	520	3.1	7.8
43	14.8	640	2.2	7.9
October 19, 1971				
0	10.6	555	8.1	8.8
25	10.2	545	7.8	8.7
50	10.0	555	7.7	8.7
54	10.0	555	7.7	8.7
April 27, 1972				
0	9.6	520	-	8.6
15	7.6	535	-	8.5
25	7.2	545	-	8.5
35	6.8	585	-	8.5
45	6.6	625	-	8.5
August 30, 1972				
0	19.2	520	6.2	8.5
15	19.0	520	6.3	8.5
25	18.8	520	6.1	8.6
30	17.8	530	4.4	8.4
40	17.4	545	4.1	8.3
45	17.4	545	4.1	8.1
50	17.0	545	3.9	8.3
55	16.8	555	3.4	8.2
60	16.4	595	2.1	8.0
68	14.6	795	.1	7.8

Table 3.--Field measurements of chemical and physical data from Flaming Gorge Reservoir - Continued

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 30				
July 29, 1971				
0	19.2	330	6.4	8.6
15	18.8	330	6.3	8.6
25	18.8	330	6.3	8.6
30	18.8	330	6.3	8.6

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 30--continued				
July 25, 1971				
35	18.2	360	4.5	8.0
40	16.8	465	1.4	7.9
August 30, 1972				
0	19.6	500	8.7	8.8

Depth below water surface (ft)	Temperature (°C)	Specific conductance (micromhos/cm at 25°C)	Dissolved oxygen (mg/l)	pH
Site 30--continued				
August 30, 1972				
15	19.0	510	8.1	8.8
25	18.8	510	6.4	8.6
35	17.8	515	5.9	8.7
43	16.8	525	5.2	8.7

Table 4.--Secchi-disk measurements from Flaming Gorge Reservoir

Measurements made on leeward side of boat and in shadow of boat when practicable

Site number	Date of measurement	Limit of vertical visibility (ft)	Site number	Date of measurement	Limit of vertical visibility (ft)
	1971			1972	
1	Oct. 21	21	1	Apr. 26	9
3	do.	22	5	do.	15
4	do.	25	7	do.	18
5	Oct. 22	28	10.5	Apr. 28	18
6	do.	27	11	do.	17
6.5	do.	19	12.5	do.	14
7	do.	22	14	Apr. 27	17
8	do.	22	15	Apr. 28	17
9	Oct. 20	23	16	Apr. 27	12
10	do.	22	17	do.	14
10.5	do.	24	18	do.	9
11	Oct. 22	16	19	do.	9
12.5	do.	20	20	do.	6
14	do.	21	22	do.	5
15	do.	21	23	do.	5
16	do.	24	25	do.	4
17	Oct. 19	20	26.5	do.	1
18	do.	15	28	do.	3
19	do.	15	29	do.	2
20	do.	16	1	Sept. 1	17
21	do.	12	8	Aug. 31	23
22	do.	13	9	do.	23
23	do.	13	10.5	do.	20
24	do.	14	17	do.	19
25	do.	9	18	Aug. 30	17
26	do.	7	19	do.	19
26.5	do.	5	20	do.	14
28	do.	13	22	do.	12
29	do.	11	25	do.	12
			26.5	do.	8
			29	do.	12
			30	do.	7

Table 5.--Chlorophyll analyses of water from Flaming Gorge Reservoir

[Concentrations in micrograms per liter (μg/l)]

Site number	Depth (ft)	Date of collection	Chlorophyll a and phaeophytin a
		1971	
1	0	Oct. 21	6.4
	380	do.	.4
5	0	Oct. 22	1.5
	236	do.	.4
7	0	do.	2.1
	191	do.	.2
9	0	Oct. 20	.7
	183	do.	.2
15	0	Oct. 22	.3
	165	do.	.3
18	0	Oct. 19	1.2
	148	do.	.5
20	0	do.	3.8
	123	do.	1.0
23	0	do.	9.6
	71	do.	2.9
		1972	
1	0	Sept. 1	(1/)
7	0	Aug. 31	(1/)
11	0	Apr. 28	(1/)
15	0	do.	(1/)
	0	Aug. 31	(1/)
18	0	Apr. 27	(1/)
20	0	do.	2.4
23	0	do.	2.4
	0	Aug. 30	(1/)
26.5	0	Apr. 27	(1/)
	0	Aug. 30	(1/)
28	0	Apr. 27	7.0

1/ Concentration below detection capability of instrument used.

Table 6.--Chemical analyses of sediment filtrate from Flaming Gorge Reservoir

[Concentrations in milligrams per liter]

Site number	Date of collection	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrite + Nitrate (N)	Orthophosphate (PO_4)	Dissolved solids (calculated)		Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Sodium-adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
														Milligrams per liter	Tons per acre-foot					
6.5	7-30-71	26	83	24	43	5.0	370	0	140	14	0.0	2.0	0.00	530	0.72	310	7	1.1	920	7.7
7	do.	37	79	34	69	5.0	350	0	250	21	1.0	.1	.30	670	.91	340	53	1.6	1,170	8.1
10.5	do.	48	89	34	69	6.0	350	0	240	29	1.0	4.3	.60	710	.97	360	73	1.6	1,230	6.9
11	7-28-71	45	98	32	80	8.8	538	0	190	30	1.2	6.0	.38	756	1.03	380	0	1.8	1,300	6.9
15	do.	39	130	40	91	7.0	560	0	190	28	2.0	12	.30	860	1.17	490	31	1.8	1,490	7.3
17	do.	39	100	66	120	6.0	620	0	320	52	1.0	.30	.30	1,010	1.37	520	12	2.3	1,770	7.9
23	7-29-71	33	90	31	100	7.0	550	0	150	26	1.0	.00	.00	710	.97	350	0	2.3	1,300	7.4
26.5	do.	30	110	37	99	7.0	680	0	90	37	1.0	4.2	.30	760	1.03	430	0	2.0	1,380	7.5
28	do.	24	110	55	110	9.0	670	0	200	35	1.0	4.4	.30	890	1.21	500	0	2.1	1,600	7.2