DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
WYOMING STATE ENGINEER

HYDROLOGY

Water is used in northwestern Wyoming for irrigation and for public, domestic, and commerical supplies. Most of the irrigated area lies east of the Snake River and south of Buffalo Fork in Grand Teton National Park, south of the park in Jackson Hole, and in the Hoback Basin. Additional irrigated lands lie in valleys in mountainous areas south of Yellowstone National Park and near Alta west of the Teton Range. Most of the irrigation water is diverted from streams to hay and pasture lands. Water is pumped from two irrigation wells near Jackson.

Water is pumped from wells for public supplies at the town of Jackson and at several facilities in Yellowstone and Grand Teton National Parks. Water is piped from springs and streams for public supplies in the parks and is piped from a spring for a community water system at Alta. Water for a Federal fish hatchery near Jackson is pumped from wells and piped from nearby springs. Ranches, private residences, and tourist facilities use water diverted from springs and small streams and pumped from wells. A few residential developments have central water systems. Use and yield of selected wells in northwestern Wyoming are shown in the table at the right center of the sheet. The well locations are shown on the map.

Water samples have been collected from wells, springs, and streams in northwestern Wyoming. Chemical analyses of water from selected wells and springs are shown in the table at the lower left side of the sheet; those from streams are shown in the table at the lower right side of the sheet. Location of data-collection sites and chemical types of water from wells and springs are shown on the map. The data were selected to show the general chemical quality of water.

Drinking water standards for public carriers and others subject to Federal quarantine regulations have been published by the U.S. Public Health Service (1962) and can be used as guides in evaluating the quality of the water. Recommended maximum concentration of some substances, summarized from pages 7 and of the above-mentioned report, are:

Substance	*Concentration (milligrams per litre)*
Chloride (Cl)	250
Fluoride (F)	[1]1.7 to 2.4
Iron (Fe)	300 (micrograms per litre)
Nitrate (NO_3)	45
Sulfate (SO_4)	250
Dissolved solids	500

[1]Limits of fluoride vary according to annual average of maximum daily air temperature. In northwestern Wyoming, the upper limit is probably 1.7 milligrams per litre and the optimum concentration is probably 1.2 milligrams per litre. The U.S. Public Health Service (1962, p. 8) states, "Presence of fluoride in average concentrations greater than two times the optimum values * * * shall constitute grounds for rejection of the supply."

The U.S. Geological Survey, in order to have a uniform policy in classifying water hardness in the United States, uses the following classification:

Hardness range (milligrams per litre)	*Adjective rating*
0- 60	Soft
61-120	Moderately hard
121-180	Hard
More than 180	Very hard

Quality of water in northwestern Wyoming varies with the geologic and hydrologic sources. Most of the water is a calcium bicarbonate type except in the rhyolite areas in and near Yellowstone National Park, where it is generally a sodium bicarbonate type. (See map.)

Water from most of the sources is potable and is satisfactory, as far as chemical quality is concerned, for irrigation and for public, domestic, or commercial supplies. However, water in the rhyolite areas commonly has a concentration of fluoride that exceeds the recommended limit for drinking water. In general, thermal waters are highly mineralized and affect the quality of water in nearby aquifers and streams by adding silica, sodium, chloride, fluoride, boron, and sometimes sulfate.

Hardness of the water varies widely. Water is generally soft in the rhyolite areas and in Grand Teton National Park west of the Snake River. Most of the water in the rest of northwestern Wyoming is moderately hard to very hard.

Streamflow data have been collected for many years at gaging stations in and near northwestern Wyoming. Yearly and monthly mean streamflow at gaging stations in and near northwestern Wyoming for 1968-72 are shown by the streamflow graphs. Some gaging-station locations are shown on the map. Selected streamflow characteristics at the gaging stations are shown in the table at the left center of the sheet. Discharge measurements at selected miscellaneous sites in the area are shown in the table at the lower right side of the sheet.

Water levels have been measured intermittently in wells in northwestern Wyoming since the early 1960's. During 1968-72, water levels in wells in Yellowstone and Grand Teton National Parks were measured at approximately monthly intervals during various periods when the wells were accessible and not snow covered. Water levels in selected wells are shown by the water-level graphs. Breaks in the graphs are periods when water levels were not measured. Well locations are shown on the map.

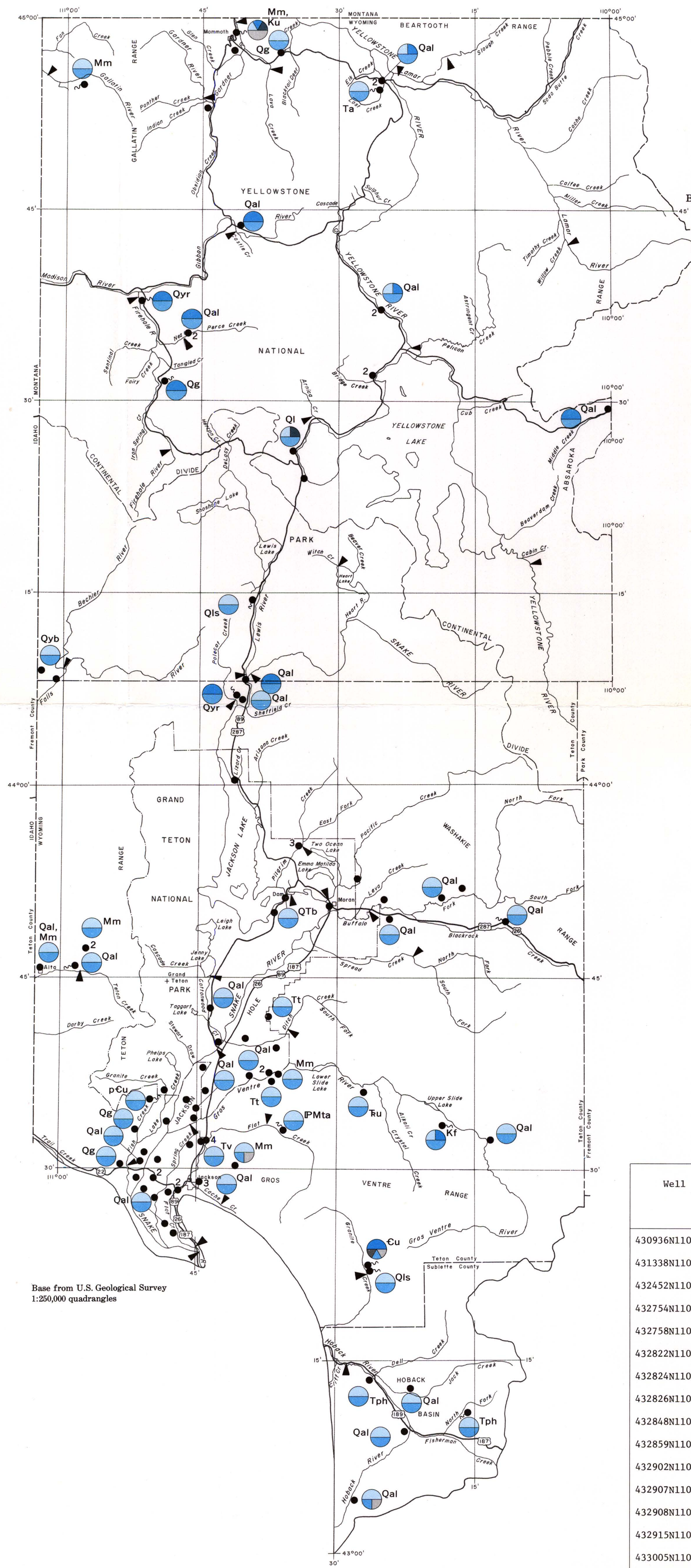
Yields of wells in northwestern Wyoming range from a few gallons per minute from many domestic wells in the area to 2,000 gal/min (7,600 l/min) from two wells near Jackson. Yield and specific capacity (yield divided by drawdown) of selected wells in northwestern Wyoming are shown in the table at the right center of the sheet. Most of the data in the table are reported by the drillers or owners of the wells, and presumably the yields and drawdowns were measured shortly after the wells were completed. Some of the data were obtained during aquifer tests conducted by the Geological Survey.

Yields and specific capacities of wells vary not only with the geologic source but also within the same geologic source. Consequently, the yields and specific capacities shown in the table apply only to the immediate vicinity of the specified well and to the interval tested.

Selected streamflow characteristics at gaging stations

Station name	Drainage area (mi^2)	Years of record	Average discharge (ft^3/s)	Maximum discharge (ft^3/s)	Minimum discharge (ft^3/s)
Yellowstone River at Yellowstone Lake Outlet	1,006	47 (1926-72)	1,322	8,250	[1]130
Yellowstone River at Corwin Springs, Mont.	2,623	68 (1889-93, 1910-72)	3,108	32,000	[2]389
Falls River near Squirrel, Idaho	351	60 (1904-08, 1918-72)	768	6,440	[2]72
Snake River near Moran (flow regulated)	824	70 (1903-72)	1,438	15,100	[2].30
Gardner River near Mammoth	202	35 (1938-72)	220	2,080	[2]35
Madison River near West Yellowstone, Mont.	420	60 (1913-72)	488	2,150	[3]100
Pacific Creek near Moran	160	29 (1944-72)	269	3,470	[1]22
Buffalo Fork above Lava Creek near Moran	355	8 (1965-72)	593	5,160	[1]82
Cache Creek near Jackson	10	11 (1962-72)	14.8	225	[1]2.7

[1]Daily discharge.
[2]Instantaneous discharge.
[3]Estimated instantaneous discharge.



LOCATION OF DATA-COLLECTION SITES AND CHEMICAL TYPES OF GROUND WATER

EXPLANATION

Data-collection sites

Well — Spring — Data-collection site on stream

Number beside well is number of wells at the site

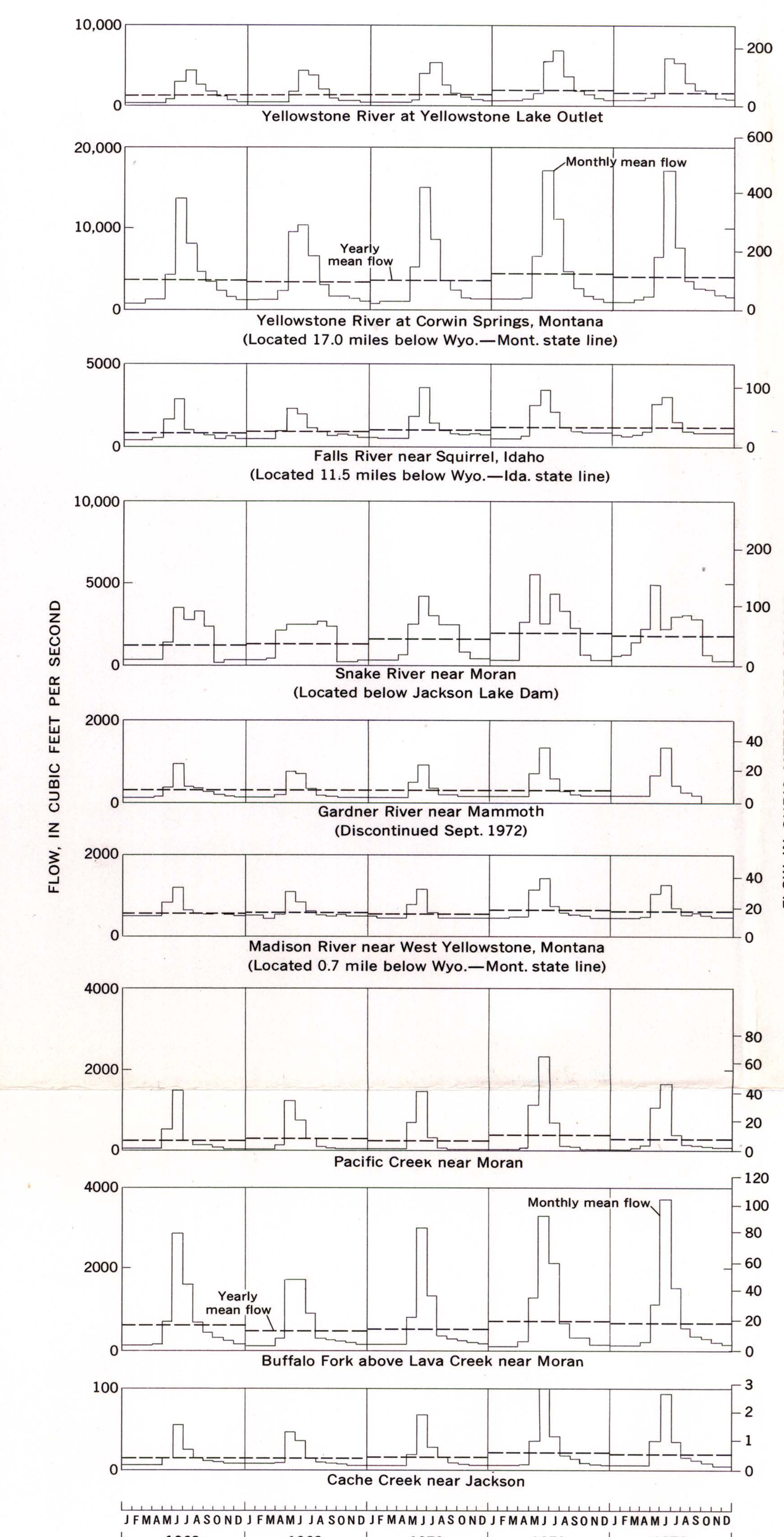
Chemical types of ground water

Sodium (Na), Magnesium (Mg), Chloride (Cl), Sulfate (SO_4), Bicarbonate (HCO_3), Calcium (Ca)

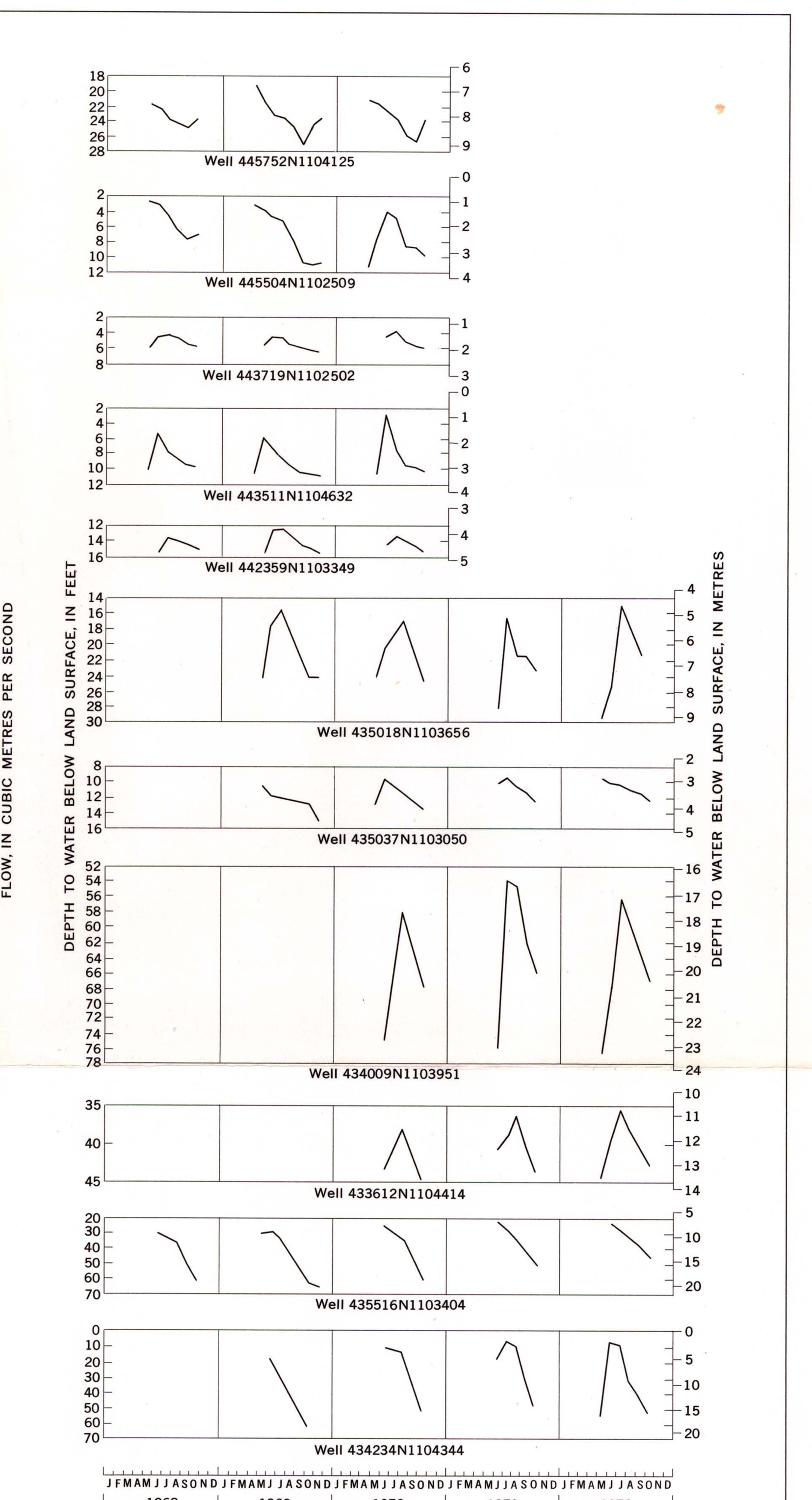
The chemical type of ground water is shown by segments of a colored circle. Segment divisions are diagrammatic with the major cation relation shown in the top half of the circle and the major anion relation shown in the bottom half. Where one ion constitutes 50 percent or more of the total cations or anions in milliequivalents per litre, that cation and anion designate the water type. For example, if calcium is 60 percent of the total cations and bicarbonate is 75 percent of the anions, the water is classified as a calcium bicarbonate water. If no ion constitutes as much as 50 percent of the total cations or anions, the ion with the highest percentage is given the left half of the semicircle and is named first and the ion with the second highest percentage follows. If all three ions are nearly equal in percentage, all are shown and named in order of percentage from left to right.

Geologic source of water (such as Qal) is shown by the following symbols:

- Qal — Alluvium and glacial-outwash deposits
- Qls — Landslide deposits
- Ql — Lacustrine deposits
- Qg — Glacial-moraine deposits
- Qyr — Yellowstone Group, rhyolite
- Qyb — Yellowstone Group, basalt
- QTb — Bivouac Formation
- Tt — Teewinot Formation
- Ta — Absaroka Volcanic Supergroup
- Tph — Pass Peak and Hoback Formations, undivided
- Tv — Volcanic rocks, undivided
- Kf — Frontier Formation
- Ku — Cretaceous rocks, undivided
- ꞦU — Triassic rocks, undivided
- IPMta — Tensleep Sandstone and Amsden Formation, undivided
- Mm — Madison Limestone
- €u — Cambrian rocks, undivided
- p€u — Precambrian rocks, undivided



YEARLY AND MONTHLY MEAN FLOW AT GAGING STATIONS



WATER LEVELS IN SELECTED WELLS

Use, yield, and specific capacity of selected wells

Use of well: C, commercial; D, domestic; F, fish hatchery; I, irrigation; P, public supply; U, unused.

Source of data: A, McGreevy and Gordon, 1964; B, Lowry and Gordon, 1964; C, Cox, 1973; D, Gordon and others, 1962; R, reported by driller or owner.

Well	Geologic source	Depth (ft)	Length of well open (ft)	Diameter (in)	Use of well	Yield (gal/min)	Drawdown (ft)	Specific capacity (gal/min per ft of drawdown)	Duration of test (hrs)	Source of data
430936N1102212	Qal	49	6	9	D	40	-----	-----	-----	R
431338N1102605	Tph	106	(e)	8	D	20	7	2.9	1.5	R
432452N1104723	Qal	35	(e)	6	D	22	10	2.2	1	R
432754N1104906	Qal	230	---	20	I	2,000	-----	-----	-----	R
432758N1104818	Qal	92	9	6	P	60	20	3.0	24	R
432822N1104644	Qal	56	---	6	P	60	0	-----	1	R
432824N1105039	Qal	41	(e)	6	D	10	0	-----	1	R
432826N1104649	Qal	150	38	12	C	1,700	21	81	12	R
432848N1104441	Qal	201	28	20	P	1,100	3	370	48	R
432859N1104440	Qal	202	115	20	P	1,500	23	65	48	R
432902N1104935	IPMta	217	21	8	P	210	142	1.5	24	R
432907N1104440	Qal	200	46	20	P	825	39	21	51	R
432908N1105012	Tv	209	(e)	9	D	10	10	1.0	22	R
432915N1105142	Qal	26	4	6	D	30	3	10	.3	R
433005N1105333	Qg	345	35	8	D	20	-----	-----	-----	R
433008N1104054	Mm	112	---	8	D	720	5	140	3	R
433106N1104914	IPMta	180	75	6	D	40	-----	-----	336	R
433120N1105015	Qal	69	(e)	6	D	15	2	7.5	3	R
433153N1104603	Qal	39	(e)	6	D	10	0	-----	1	R
433202N1104356	Qal	136	70	18	F	2,000	47	43	46	R
433209N1104354	Qal	50	---	-	F	250	-----	-----	-----	R
433214N1104354	Qal	90	54	14	F	1,540	25	62	4	R
433216N1104416	Tv	143	(e)	8	D	22	28	.8	1	R
433230N1104334	IPMta	246	24	--	F	250	130	1.9	6.5	R
433315N1105122	Qg	152	50	6	D	13	0	-----	.5	R
433338N1104806	Qal	60	4	8	D	100	0	-----	2	R
433344N1104513	Qal	101	11	12	C	800	2	400	12	R
433458N1104521	Qal	55	(e)	8	D	20	0	-----	1	R
433538N1104559	Qal	40	(e)	7	D	25	2	12	1	R
433601N1104818	Qg	37	(e)	6	D	5	25	.2	3	R
433613N1104408	Qal	67	(e)	6	C	900	0	-----	1	R
433627N1102658	ꞦU	45	5	8	D	12	0	-----	2	R
433708N1103645	Tt	185	76	8	D	15	10	1.5	1	R

Well	Geologic source	Depth (ft)	Length of well open (ft)	Diameter (in)	Use of well	Yield (gal/min)	Drawdown (ft)	Specific capacity (gal/min per ft of drawdown)	Duration of test (hrs)	Source of data
433716N1103926	Qal	150	30	8	P	200	0.4	500	6	R
433718N1103725	Qal	60	(e)	--	D	7	6	1.2	2	R
433720N1103620	Mm	197	8	4	D	6	30	.2	10	R
433729N1103720	Qal	60	10	7	D	17	2	8.5	1	R
433755N1104430	Qal	30	(e)	7	D	14	1	14	1	R
433933N1103649	Tt	353	80	6	I	120	0	-----	-----	R
433937N1104252	Qal	37	(e)	6	D	22	3	7.3	1	R
434149N1103732	Tt	75	55	6	D	50	0	-----	24	R
434530N1110206	Qal,Mm	307	40	16	P	466	70	6.7	8	R
434720N1105725	Mm	670	582	6	C	30	100	.3	15.5	R
434721N1105729	Mm	676	(e)	6	C	60	40	1.5	.5	R
434952N1102410	Qal	30	9	7	P	25	2	12	.5	R
435018N1103656	Qg	206	4	6	P	118	11	11	18.5	A
435037N1103050	Qal,Ql	55	2	6	P	30	11.2	2.7	15	A
435058N1102508	Qal	50	(e)	7	D	10	2	5.0	1	R
435114N1101837	Qal	83	38	9	D	30	1	30	24	R
435153N1101622	Qal	96	(e)	9	D	13	5	2.6	1	R
435255N1102800	Qal	40	10	9	D	33	2	16	1	R
435511N1103358	Qal	152	28	6	U	150	1.5	100	24	A
Do	Qal	201	65	10	P	270	5	54	4	A
440008N1104128	Qal	101	4	6	P	96	5	19	17	A
440808N1110048	Qal	153	50	6	U	10	38	.3	24	B
440828N1103946	Qal	29	6	4	U	59	3.6	16	24	C
442359N1103349	Ql	118	48	6	U	36	71	.5	48	D
442920N1100010	Qal	98	11	6	U	128	5.3	24	6	C
443207N1102620	Ql	60	16	6	P	46	27	1.7	24	B
443212N1102620	Ql	95	10	6	P	30	70	.4	24	B
443510N1104633	Qal	49	6	4	U	108	2.8	39	24	C
443718N1102502	Qal	35	6	4	U	87	6.6	13	24	C
444354N1104119	Qal	20	5	4	U	20	5.6	3.6	24	C
445318N1104418	Qal	31	(e)	6	P	40	30	1.3	30	R
445505N1102510	Qal	28	6	4	U	9	2.7	3.3	10	C

(e) Water enters through bottom open end of casing.

Chemical analyses of water from selected wells and springs.

[Analytical results in milligrams per litre (mg/l) or micrograms per litre (µg/l), except as indicated. Analyses by U.S. Geological Survey.]

Location number	Date of collection	Depth of well (ft) or Spring (s)	Geologic source (see map)	Temperature (°C)	Dissolved Silica (SiO_2) (mg/l)	Dissolved Iron (Fe) (µg/l)	Dissolved Calcium (Ca) (mg/l)	Dissolved Magnesium (Mg) (mg/l)	Dissolved Sodium (Na) (mg/l)	Dissolved Potassium (K) (mg/l)	Bicarbonate (HCO_3) (mg/l)	Carbonate (CO_3) (mg/l)	Dissolved Sulfate (SO_4) (mg/l)	Dissolved Chloride (Cl) (mg/l)	Dissolved Fluoride (F) (mg/l)	Dissolved Nitrate (NO_3) (mg/l)	Dissolved Boron (B) (µg/l)	Dissolved solids Sum of constituents (mg/l)	Hardness as $CaCO_3$ (Ca, Mg) (mg/l)	Specific conductance (micromhos at 25°C)	pH (units)
430417N1102806	7-30-73	48	Qal	8.5	5.6	20	82	13	5.4	0.9	168	0	130	1.1	0.2	0.5	20	319	260	540	8.0
430936N1102212	8- 1-73	49	Qal	9.5	6.7	30	110	13	8.6	1.9	297	0	96	1.4	.2	.1	20	382	320	630	7.6
431053N1101600	7-31-73	(s)	Tph	6.5	8.7	50	86	27	16	1.6	400	0	30	1.8	.2	.0	20	367	320	640	8.2
431244N1102154	10- 1-73	(s)	Qal	6.5	5.8	0	71	9.9	2.1	.7	175	0	73	1.5	.3	.1	10	250	220	415	8.3
431338N1102605	8- 1-73	106	Tph	9.5	6.0	20	89	12	7.0	1.4	226	0	99	1.8	.2	.0	10	327	270	550	7.9
432148N1102634	7-27-73	(s)	Qls	6.0	3.6	0	23	4.0	4.3	.5	82	0	12	4.9	.2	.5	50	93	74	165	8.2
432212N1102642	7-27-73	(s)	€u	39.0	48	10	32	5.8	160	8.6	182	0	120	130	5.3	.2	530	597	100	1,050	8.0
432545N1104834	7-24-73	40	Qal	12.5	14	10	67	15	5.9	2.1	262	0	24	3.5	.2	.7	30	261	230	475	7.6
432848N1104441	10-30-73	200	Qal	11.0	9.1	---	54	21	3.2	1.2	206	0	55	.0	.3	2.4	-----	247	220	415	7.9
433005N1105333	10-31-73	345	Qg	8.0	19	---	72	25	4.3	.9	356	0	3.3	.0	.2	1.2	-----	301	280	540	7.9
433008N1104054	7- 3-73	112	Mm	9.0	11	10	74	27	2.7	1.6	182	0	150	1.4	.4	.6	30	355	300	555	7.9
433036N1105100	6-28-73	30	Qal	13.0	13	20	37	4.6	5.9	1.4	140	0	2.5	6.3	.4	.5	40	141	110	250	7.7
433216N1104416	10-29-73	143	Tv	12.5	45	---	60	19	9.6	4.4	287	0	13	1.5	.3	1.7	-----	296	230	490	7.8
433225N1101344	8-30-73	30	Qal	9.5	14	0	67	8.8	12	1.9	260	0	12	.7	.2	.3	30	245	200	450	8.0
433305N1103553	9- 5-73	(s)	IPMta	6.0	23	40	70	25	5.4	1.9	338	0	6.6	3.5	.2	1.1	10	303	280	510	8.1
433315N1105122	6-28-73	152	Qg	10.0	14	10	53	9.2	3.2	.9	209	0	.8	5.3	.2	.3	10	189	170	345	7.8
433333N1101836	8-31-73	(s)	Kf	4.5	12	20	75	5.7	74	2.1	349	0	73	1.8	.4	.4	90	416	210	690	7.7
433458N1104521	7- 2-73	55	Qal	9.0	18	20	56	13	7.5	2.3	200	0	42	3.5	.3	1.1	30	242	190	385	7.8
433534N1105001	10-26-72	(s)	p€u	6.5	14	0	23	1.9	2.7	.9	84	0	1.6	.0	.1	.7	20	86	65	133	7.4
433627N1102658	9- 4-73	45	ꞦU	11.0	5.8	10	38	12	1.1	.5	164	0	13	.7	.2	.2	0	153	150	290	8.1
433708N1103645	10-24-72	185	Tt	11.0	39	0	55	4.6	3.7	4.0	196	0	1.6	1.3	.3	.2	20	207	160	316	8.1
433716N1103926	6-20-69	150	Qal	8.5	10	---	56	15	7.3	1.4	180	0	63	1.5	.1	.0	0	242	200	390	8.2
433720N1103620	7-27-72	197	Mm	19.0	16	10	54	19	6.4	2.1	175	0	75	2.0	.8	.1	30	262	210	440	7.4
434149N1103732	6-27-73	75	Tt	12.5	38	20	67	10	3.7	3.7	261	0	3.3	5.3	.5	.4	10	260	210	395	7.7
434234N1104344	6-21-69	81	Qal	8.5	3.9	---	4.4	.5	.9	.8	17	0	.6	.4	.0	.0	10	20	13	32	6.7
434530N1110206	10-25-72	307	Qg, Mm	7.0	17	0	45	21	1.6	.7	226	0	4.9	1.3	.3	12	20	215	200	375	7.7
434537N1105814	9-28-73	(s)	Qal	7.0	6.5	0	49	12	1.1	.5	206	0	.8	1.5	.1	.8	20	173	170	315	8.2
434720N1105725	10-16-71	670	Mm	7.5	7.2	0	27	13	.5	.9	139	0	5.8	1.7	.0	.8	10	125	120	220	7.7
434911N1101145	9- 6-73	(s)	Qal	5.0	21	20	60	11	1.6	2.1	242	0	3.3	.7	.1	.2	10	219	200	385	8.0
434952N1102410	9- 6-73	30	Qal	12.0	27	60	55	8.3	7.5	3.7	227	0	1.6	2.5	.1	.1	30	217	170	360	7.8
435114N1101837	10-30-73	83	Qal	7.5	8.9	---	44	7.5	10	1.6	183	0	12	.0	.1	.5	-----	175	140	310	7.9
435122N1103520	10-23-72	216	QTb	7.0	29	10	19	2.5	5.9	1.9	77	0	3.3	1.0	.3	.7	20	102	57	140	6.9
440621N1104022	7- 6-73	73	Qal	12.5	27	10	34	4.7	14	3.0	145	0	9.9	7.4	1.0	.6	120	173	110	280	8.2
440653N1104103	10- 2-73	(s)	Qyr	60.5	110	20	11	.4	200	8.6	360	0	9.9	92	8.7	.0	460	613	30	950	7.4
440828N1103946	8-30-70	29	Qal	13.0	42	40	8.8	1.7	23	3.2	71	0	3.6	11	2.5	.1	180	131	29	168	7.2
440900N1110243	9- 3-73	240	Qyb	12.0	23	20	10	1.0	4.3	1.2	40	0	.8	1.1	.1	7.2	0	69	30	90	7.2
441435N1103850	8-18-69	(s)	Qls	7.5	31	---	4.8	.7	3.0	1.5	23	0	2.4	.6	1.3	.0	0	56	15	47	6.4
442609N1103454	9-19-70	45	Ql	25.0	96	150	43	19	19	13	280	0	8.6	2.9	.2	.0	20	340	180	442	7.8
442920N1100010	6-16-67	98	Qal	8.0	32	30	9.8	2.2	18	1.0	83	0	82	0	.4	.2	20	113	30	150	7.4
443152N1104931	6-22-70	(s)	Qg	13.0	3.0	280	3.0	.7	13	3.1	38	0	6.2	4.4	1.2	.1	60	112	10	88	6.4
443510N1104633	8-27-70	49	Qal	13.0	78	70	4.0	.4	31	5.4	59	0	12	10	5.0	.3	150	175	12	175	6.7
443718N1102502	8-20-70	35	Qal	10.0	65	30	13	3.4	11	5.5	79	0	6.2	1.2	2.7	.6	20	148	46	155	6.4
443806N1105144	6-11-68	(s)	Qyr	9.0	48	100	7.4	.4	27	3.0	57	0	4.8	13	5.2	.3	120	137	20	172	8.0
444354N1104119	8-22-70	20	Qal	7.5	44	120	30	9.1	81	9.2	320	0	2.6	18	1.5	.0	420	352	110	542	7.0
445452N1102519	8- 7-68	(s)	Ta	13.0	28	110	16	4.4	7.3	1.5	82	0	1.2	1.0	.4	1.4	30	101	58	156	7.2
445505N1102510	8-24-70	28	Qal	7.5	30	90	13	4.5	13	1.6	86	0	6.6	1.2	.6	.2	40	113	51	150	6.9
445509N1105820	8-21-69	(s)	Mm	5.0	6.6	---	30	14	.6	.4	152	0	11	.2	.1	.1	90	138	130	246	8.2
445712N1103615	5-23-68	25	Qg	13.0	20	290	21	8.9	7.0	2.6	115	0	15	1.5	1.2	.1	30	135	90	247	7.5
445908N1104116	5-11-67	(s)	Mm, Ku	52.0	48	---	160	59	120	51	208	0	550	150	2.4	.2	3,200	1,240	630	1,740	7.7

Discharge measurements and chemical analyses from selected streams.

[Analytical results in milligrams per litre (mg/l) or micrograms per litre (µg/l), except as indicated. Analyses by U.S. Geological Survey.]

Stream	Location number	Date of collection	Discharge (ft^3/s)	Temperature (°C)	Dissolved Silica (SiO_2) (mg/l)	Dissolved Iron (Fe) (µg/l)	Dissolved Calcium (Ca) (mg/l)	Dissolved Magnesium (Mg) (mg/l)	Dissolved Sodium (Na) (mg/l)	Dissolved Potassium (K) (mg/l)	Bicarbonate (HCO_3) (mg/l)	Carbonate (CO_3) (mg/l)	Dissolved Sulfate (SO_4) (mg/l)	Dissolved Chloride (Cl) (mg/l)	Dissolved Fluoride (F) (mg/l)	Dissolved Nitrate (NO_3) (mg/l)	Dissolved Boron (B) (µg/l)	Dissolved solids Sum of constituents (mg/l)	Hardness as $CaCO_3$ (Ca, Mg) (mg/l)	Specific conductance (micromhos at 25°C)	pH (units)
Hoback River	431438N1102843	9-28-73	77	11.5	4.8	0	83	9.1	4.8	1.4	204	0	89	1.5	0.3	0.1	20	294	250	505	8.1
Granite Creek	432131N1102635	9-28-73	58	10.5	4.3	0	32	8.3	3.7	.5	131	2	7.4	3.1	.2	.2	30	127	110	235	8.5
Snake River	432304N1104441	10-26-73	1,520	7.5	14	---	34	6.3	8.0	1.9	129	1	16	3.7	.4	.0	-----	148	110	245	8.4
Flat Creek	432311N1104435	10- 2-73	116	11.5	9.2	0	55	20	4.8	.7	223	0	40	1.8	.3	.3	30	241	220	420	8.3
Cache Creek	432708N1104212	6- 7-71	69	5.0	5.0	30	50	13	2.7	.7	214	0	1.6	3.3	.1	.0	20	182	180	311	8.3
Do	do	9- 3-71	15	6.0	5.1	20	44	14	1.9	.8	207	0	5.3	.5	.0	.1	10	174	170	312	8.0
Fish Creek	433003N1105215	10-24-73	62	7.5	7.8	---	35	9.3	1.6	1.2	153	2	.8	3.1	.1	.0	-----	136	130	270	8.5
Gros Ventre River	433326N1104545	10-24-73	76	7.5	6.7	---	57	13	7.5	1.2	162	4	70	1.5	.3	.0	-----	240	200	390	8.5
Flat Creek	433328N1103730	10- 2-73	18	7.0	4.4	0	31	12	1.1	.0	143	3	3.3	5.3	.1	.5	40	131	130	230	8.4
Snake River	433915N1104252	10-25-73	1,060	7.5	16	---	24	5.5	8.6	2.1	92	6	11	4.6	.5	.0	-----	123	82	195	8.7
Ditch Creek	434053N1103458	6- 7-71	221	4.0	8.4	30	22	1.8	3.3	.9	72	0	6.6	1.7	.1	.3	30	82	63	131	8.1
Do	do	8-13-71	8.1	19.0	11	10	39	6.8	8.6	1.3	160	0	25	.9	.0	.0	30	171	130	300	8.1
Cottonwood Creek	434503N1104329	6- 9-71	441	6.5	2.5	0	4.1	.9	.5	.7	12	0	2.5	1.1	.1	.2	10	19	14	26	7.3
Do	do	9-27-72	71	11.0	2.0	10	3.2	.6	.5	.5	13	0	5.1	.6	.1	.0	0	19	10	30	7.3
Teton Creek	434519N1105802	10- 1-73	67	5.5	2.9	0	33	1.7	.5	.5	104	0	2.5	1.5	.1	.3	20	94	90	170	8.2
Spread Creek	434637N1102139	9-27-73	38	3.5	8.2	0	33	4.0	4.8	.9	124	0	8.2	1.5	.1	.2	40	122	100	210	8.3
Buffalo Fork	435020N1102620	6- 4-71	1,760	6.5	16	10	22	4.3	3.8	1.1	92	0	5.8	2.2	.1	.2	20	101	72	148	8.1
Do	do	10-17-72	222	4.5	21	50	27	2.9	5.4	1.9	93	0	9.9	3.3	.3	.2	30	118	79	175	7.7
Pacific Creek	435100N1103120	6- 4-71	1,820	5.0	9.9	10	20	3.9	2.7	.9	79	0	5.8	1.1	.1	.2	10	84	65	132	8.1
Do	do	10-17-72	219	5.0	13	20	29	4.7	4.3	1.2	107	0	9.9	.7	.2	.0	20	116	91	190	7.8
Snake River	435131N1103509	6- 4-71	3,110	8.0	14	0	18	1.1	10	2.0	64	0	5.8	7.8	.9	.1	60	92	50	144	8.0
Do	do	10-17-72	690	9.0	16	20	15	1.9	9.6	1.9	59	0	12	5.0	.8	.1	60	91	46	135	7.9
Pilgrim Creek	435508N1103353	6- 4-71	504	6.5	6.2	0	20	3.5	2.2	.7	79	0	4.1	.6	.1	.2	10	77	65	126	8.1
Do	do	9-21-72	14	11.0	7.8	20	28	4.8	4.8	.6	123	0	6.2	.6	.1	.0	10	113	90	190	7.9
Polecat Creek	440631N1104100	9-27-73	59	20.0	56	10	6.2	.6	34	4.6	67	2	3.3	21	3.4	.1	100	164	18	195	8.5
Lewis River	440831N1103947	9-17-70	218	13.0	36	50	3.4	.4	24	3.0	49	0	4.0	10	2.8	.1	140	108	10	137	8.0
Snake River	440835N1103941	9-17-70	139	13.5	16	80	40	7.6	35	5.3	132	0	70	18	1.3	.1	300	259	130	418	8.2
Bechler River	440859N1105957	8-22-69	500	16.0	43	---	4.1	1.4	26	2.8	60	0	5.4	11	2.0	.0	230	126	16	179	7.2
Witch Creek	441709N1103000	10-10-69	9.4	18.5	94	---	3.2	2.4	120	9.0	98	0	53	87	9.5	.2	1,200	424	18	608	7.1
Yellowstone River	441717N1100853	9- 9-70	392	11.5	24	---	3.4	1.5	7.7	1.0	36	0	4.0	.2	.1	.0	10	60	14	64	6.9
Firehole River	442633N1104815	7-17-69	75	14.0	37	210	2.2	1.1	9.6	2.8	21	0	3.6	7.5	1.9	.2	90	76	10	73	7.2
Do	do	11-15-69	50	4.0	19	90	3.4	.3	16	3.8	20	0	5.2	15	2.7	.0	160	76	10	111	6.4
Arnica Creek	442840N1103230	7-14-69	6.2	16.0	43	250	5.6	2.4	11	2.5	43	0	3.2	1.0	4.4	.2	10	94	24	96	7.2
Do	do	11-14-69	4.3	6.0	53	430	5.8	1.4	14	2.5	43	0	3.6	1.3	6.0	.1	10	109	21	104	6.6
Yellowstone River	443403N1102248	10-19-70	938	7.5	10	30	5.5	2.3	9.1	1.7	35	0	7.6	4.4	.9	.0	80	59	23	96	6.5
Nez Perce Creek	443505N1104641	7-17-69	65	16.0	68	250	8.2	.4	45	7.4	72	0	25	25	2.6	.2	340	217	22	286	7.6
Do	do	11-15-69	57	12.0	47	470	7.6	.9	55	8.5	78	0	33	30	6.4	.1	400	227	23	320	6.9
Firehole River	443825N1105154	7-16-69	352	17.0	78	60	3.8	5.0	79	7.1	116	0	13	57	7.3	.3	720	308	30	428	8.2
Do	do	11-15-69	293	12.0	99	180	5.9	.6	96	8.3	131	0	15	67	8.8	.1	690	366	17	482	7.4
Lamar River	444232N1100450	7-23-69	131	17.0	21	---	4.6	1.6	7.4	1.0	41	0	2.2	.4	.2	.0	10	58	18	68	7.4
Gibbon River	444317N1104120	7-16-69	43	11.0	43	170	3.9	2.1	9.8	3.7	34	0	9.4	2.4	1.9	.2	50	94	18	89	7.1
Do	do	11-14-69	21	4.0	54	280	6.2	.8	14	5.5	42	0	13	3.7	2.9	.0	50	121	19	118	6.6
Gardner River	445336N1104456	7-16-69	82	10.0	5.7	50	30	11	1.8	.4	118	0	29	.4	.2	.2	0	137	120	228	8.2
Do	do	11-14-69	13	.0	9.9	80	56	19	4.3	.8	171	0	83	1.1	.4	.1	0	259	220	416	7.4
Gallatin River	445539N1110243	7-16-69	101	14.0	6.2	90	43	18	1.2	.4	158	0	48	.4	.2	.0	0	195	180	335	8.2
Do	do	11-15-69	38	4.0	7.8	20	58	20	1.4	.5	162	0	89	.9	.3	.0	0	258	230	418	7.4
Lamar River	445540N1102335	7-21-70	904	15.0	17	80	12	4.0	5.0	.9	66	0	4.6	.5	.1	.0	10	76	46	116	7.2
Do	do	10-20-70	220	3.0	17	100	19	6.7	8.5	1.4	105	0	8.4	.8	.2	.0	60	114	75	170	7.6
Lava Creek	445622N1103736	7-15-69	53	12.0	30	20	4.6	2.8	3.9	1.2	33	0	2.4	.5	1.2	.1	0	63	23	62	7.2
Do	do	11-13-69	22	3.0	31	140	7.2	2.3	5.8	1.5	42	0	1.2	1.0	1.6	.0	0	73	28	82	6.9
Slough Creek	445658N1101815	7-18-69	318	12.0	14	40	14	5.4	2.4	1.2	72	0	6.0	.3	.0	.1	0	78	57	120	7.8
Do	do	11-13-69	33	.0	16	190	29	7.8	3.2	1.4	124	0	7.0	.8	.0	.1	10	126	100	202	7.0

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