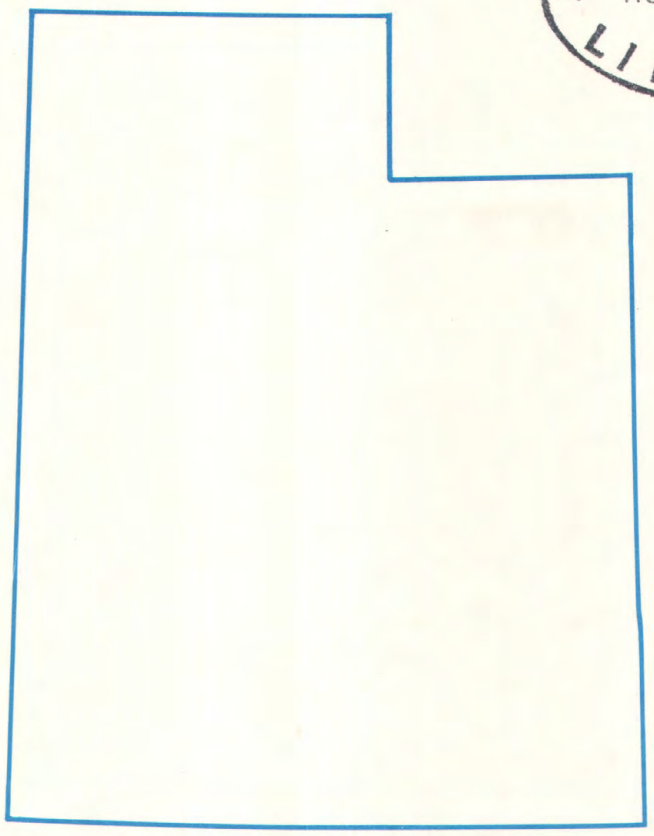
Water Resources Data Utah

Water Year 1983



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-83-1
Prepared in cooperation with the State of Utah
and with other agencies

CALENDAR FOR WATER YEAR 1983

1982

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1983

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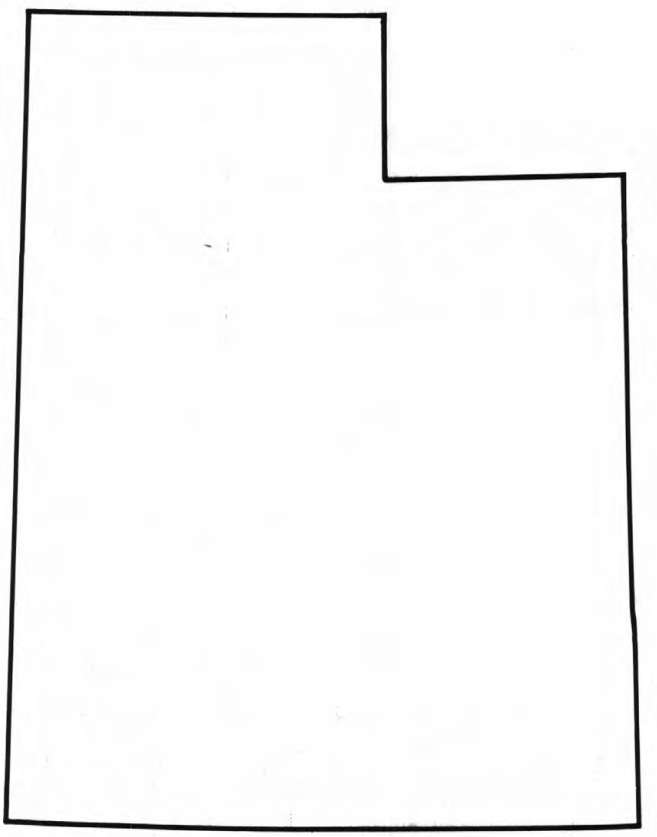
Water Resources Data
Utah
Water Year 1983

by M.D. ReMillard, G.A. Birdwell, R.B. Garrett, and G.W. Sandberg



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-83-1
Prepared in cooperation with the State of Utah
and with other agencies

PREFACE

This volume of the annual hydrologic data report of Utah is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Utah are contained in one volume.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

David Allen
Donald Batty
George A. Birdwell
Donald Bischoff
Carole Burden
Dixie D. Canny
Jim Crawford
Michael Eckenwiler
Deloy C. Emett
Richard B. Garrett
Elmer C. Gerhart
Kevin Guttormson
Linda S. Hamblin
Larry R. Herbert
V. Lambert Jensen
E. Blaine Johnson
Rolaine King
Kevin Linn
Vickie McEwen
Jerry C. McNeely
Barry Sattin
Brad Sether
Cynthia Smith
Melanie E. Elizondo
LaVerne Sultz
Kendall R. Thompson
Rod Tibbets
Doris A. Vandruff
John Yarbrough

This report was prepared in cooperation with the State of Utah and with other agencies under the general supervision of T. Arnow, District Chief, Utah.

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1745 West 1700 South
Salt Lake City, Utah 84104

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Water resources data for the 1983 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 228 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 48 hydrologic stations and 106 wells; miscellaneous temperature measurements and field determinations for 155 stations; and water levels for 36 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

17. Document Analysis a. Descriptors

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(Formerly NTIS-35)
Department of Commerce

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[Letter after station name designates type of data: (d) discharge, (e) elevation or contents, (c) chemical, (b) biological, (t) water temperature, (s) sediment.]

WATER RESOURCES DATA FOR UTAH, 1983

INTRODUCTION

Water resources data for the 1983 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 228 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 48 hydrologic stations, and 196 wells; miscellaneous temperature measurements and field determinations for 155 stations; and water levels for 36 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data Syustem collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels and Artesian Pressures in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, Virginia 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report UT-83-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (801) 524-5663.

COOPERATION

The U.S. Geological Survey and organizations of the State of Utah have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1935, and for water-quality records since 1941. Organizations that assisted in collecting data through cooperative agreement with the Geological Survey are:

Department of Natural Resources, T. A. Reynolds, Executive Director
Division of Water Rights, D. C. Hansen, State Engineer
Division of Water Resources, D. F. Lawrence, Director
Utah Geological and Mineral Survey, Genevieve Atwood, Director
Division of Wildlife Resources, D. F. Day, Director
Bear River Commission, W. N. Jibson, Chairman
Salt Lake County Commission, D. Michael Stewart, Chairman

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of the Interior, in collecting records for 18 gaging stations and by the Bureau of Land Management, U.S. Department of the Interior, for 3 gaging stations. Records for eight gaging stations in Idaho in the Bear River basin and three in Utah were collected by the Utah Power and Light Co. under Federal Energy Regulatory Commission License.

Other district offices of the Geological Survey, Water Resources Division, obtained the records listed below:

Arizona District.--Colorado River near Colorado-Utah State line
Lake Powell at Glen Canyon Dam, AZ
Paria River at Lees Ferry, AZ

Colorado District.--Colorado River near Colorado-Utah State line

Nevada District.--Virgin River at Littlefield, AZ

Wyoming District.--Blacks Fork near Robertson, WY
Blacks Fork near Millburne, WY
Burnt Fork near Burntfork, WY
East Fork of Smith Fork near Robertson, WY
Green River near Green River, WY
Henrys Fork near Manilla, UT

New Mexico District.--San Juan River at Shiprock, NM

Records for all stream-gaging stations operated by the Geological Survey in the Bear River basin in Utah, Idaho, and Wyoming are included in this report.

Organizations that supplied data are acknowledged in station descriptions.

Most water-quality data in this report were obtained as part of the Federal Program of the Geological Survey or in cooperation with the Bureau of Reclamation or the Bureau of Land Management, U.S. Department of the Interior, and the Environmental Protection Agency. Investigations of the quality of ground water and of some surface water were made under cooperative agreement between the Geological Survey and the Utah Department of Natural Resources, T. A. Reynolds, Executive Director (Division of Water Rights, D. C. Hansen, State Engineer; Division of Water Resources, D. F. Lawrence, Director; Division of Wildlife Resources, D. F. Day, Director).

Data on ground-water levels were obtained as part of a cooperative agreement between the Geological Survey and the Utah Department of Natural Resources (Division of Water Rights, D. C. Hansen, State Engineer).

SUMMARY OF HYDROLOGIC CONDITIONS

By Russell W. Cruff

The 1983 water year was one of the wettest recorded in Utah. This coming after the exceptionally wet 1982 water year which climaxed with record September rains, causing soils to be saturated before the winter snows fell in the mountains. Thus, when the spring melting began, it resulted in a number of landslides in the State's mountainous areas. The largest slide, which occurred on April 14, 1983, consisted of about 15 million cubic yards of debris that formed a dam about 1,000 feet long and more than 200 feet high across Spanish Fork Canyon, about 5 miles upstream from streamflow station 10150500, Spanish Fork at Castilla.

Precipitation during the water year was greater than normal throughout the State with a large part of the excess occurring in March, April, and May. March-May and water-year precipitation and the departures from normal, at several sites (fig. 1) as reported by the National Oceanic and Atmospheric Administration are in the following table:

	March-May (inches)		Water-year (inches)	
	Total	Departure	Total	Departure
Blanding	3.42	1.36	17.97	6.52
Callao	1.25	-.20	8.34	3.14
Cedar City	4.39	1.53	14.50	3.95
Green River	2.26	.74	7.23	1.22
Hanksville	1.51	.25	6.94	1.69
Logan	10.53	5.01	30.91	13.28
Milford	3.57	.89	10.58	1.86
Nephi	7.69	3.53	24.16	10.48
Roosevelt	3.07	1.25	9.95	2.64
Salt Lake City	8.18	2.78	20.58	5.14
Zion National Park	8.17	4.47	25.78	10.81

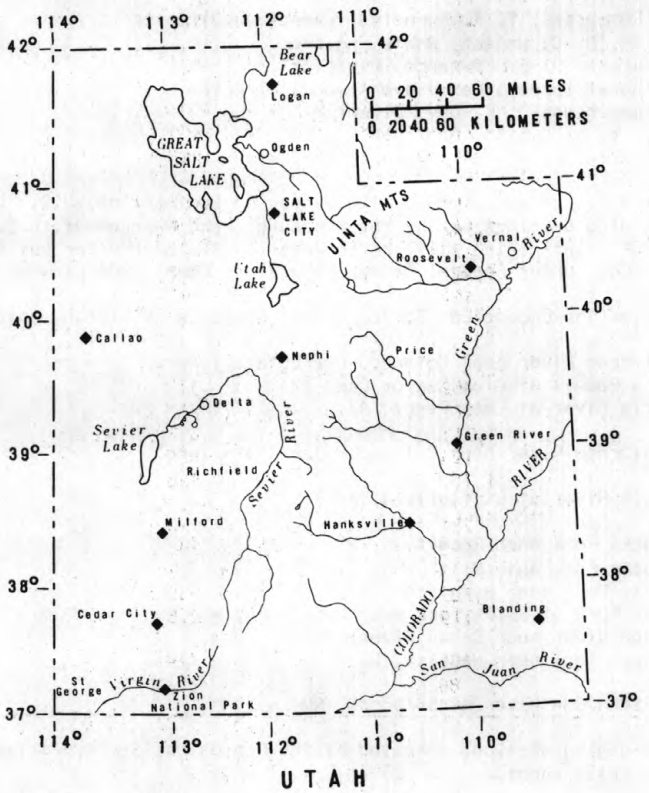

Figure 1.—Precipitation recording sites.

For the selected sites, the water-year total precipitation ranged from 1.22 to 13.28 inches greater than normal, whereas the March-May totals ranged from 0.20 inch less than normal to 5.01 inches greater than normal. Precipitation at Cedar City, Logan, Nephi, Salt Lake City, and Zion National Park, which are all near mountains, ranged from 1.53 to 5.01 inches greater than normal for March-May. This is an indication of the large quantity of late spring snows which fell in the mountains.

Surface Water

By Russell W. Cruff

Streamflow as measured at seven representative gaging stations averaged 207 percent of the median streamflow for the 1951-80 water years (compared to 129 percent a year ago); it ranged from 157 percent of the median for Weber River near Oakley to 304 percent for Beaver River near Beaver. Discharge for the 1983 water year compared with the median runoff for the 1951-80 water years at the seven representative gaging stations for which long-term records are available is shown in figure 2.

With the exception of the San Juan River and Virgin River drainages in southern Utah, the total runoff throughout the State exceeded that for any year since 1952, with most runoff in the State exceeding that for any year since at least 1922. The following table is a summary of the mean runoff for a number of sites:

Station No.	Length of record (years)	Mean runoff in 1983 water year		Previous maximum runoff	
		Cubic feet per second	Percent of average	Water year	Cubic feet per second
09180000	33	2,041	260	1973	1,852
09180500	72	12,700	168	1921	12,290
09184000	33	25.3	181	1973	23.9
09261000	38	7,615	173	1921	6,403
09266500	70	176	177	1921	178
09275500	39	76.9	157	1952	83.7
09277500	65	329	164	1922	354
				1952	348
09279000	46	253	148	1952	261
09289500	33	169	150	1965	163
09299500	76	209	170	1922	242
09302000	41	1,736	298	1952	1,434
09308500	31	17.1	309	1952	15.4
09310500	45	113	233	1952	107
09314500	37	479	417	1952	341
09315000	84	11,110	176	1907	12,280
				1909	11,850
				1917	11,650
09328500	47	470	309	1917	438
09337000	31	12.5	260	1973	8.9
10011500	41	312	162	1965	286
10090500	40	2,142	239	1907	2,280
10106000	46	194	209	1971	159
10126000	28	3,992	222	1971	2,856
10128500	79	334	151	1907	415
				1909	382
				1921	373
10130500	52	452	220	1952	422
10131000	56	181	275	1952	129
10136500	63	1,313	232	1899	1,223
10137500	62	193	171	1952	181
10170490	40	1,701	398	1982	700
10174500	61	251	198	1922	313
10189000	70	160	205	1922	201
10206000	38	113	467	1973	53.9
10224000	46	1,229	585	1917	304
10234500	69	119	228	1980	93.5
10237000	69	180	474	1969	79.7
10242000	47	86.0	257	1973	79.2

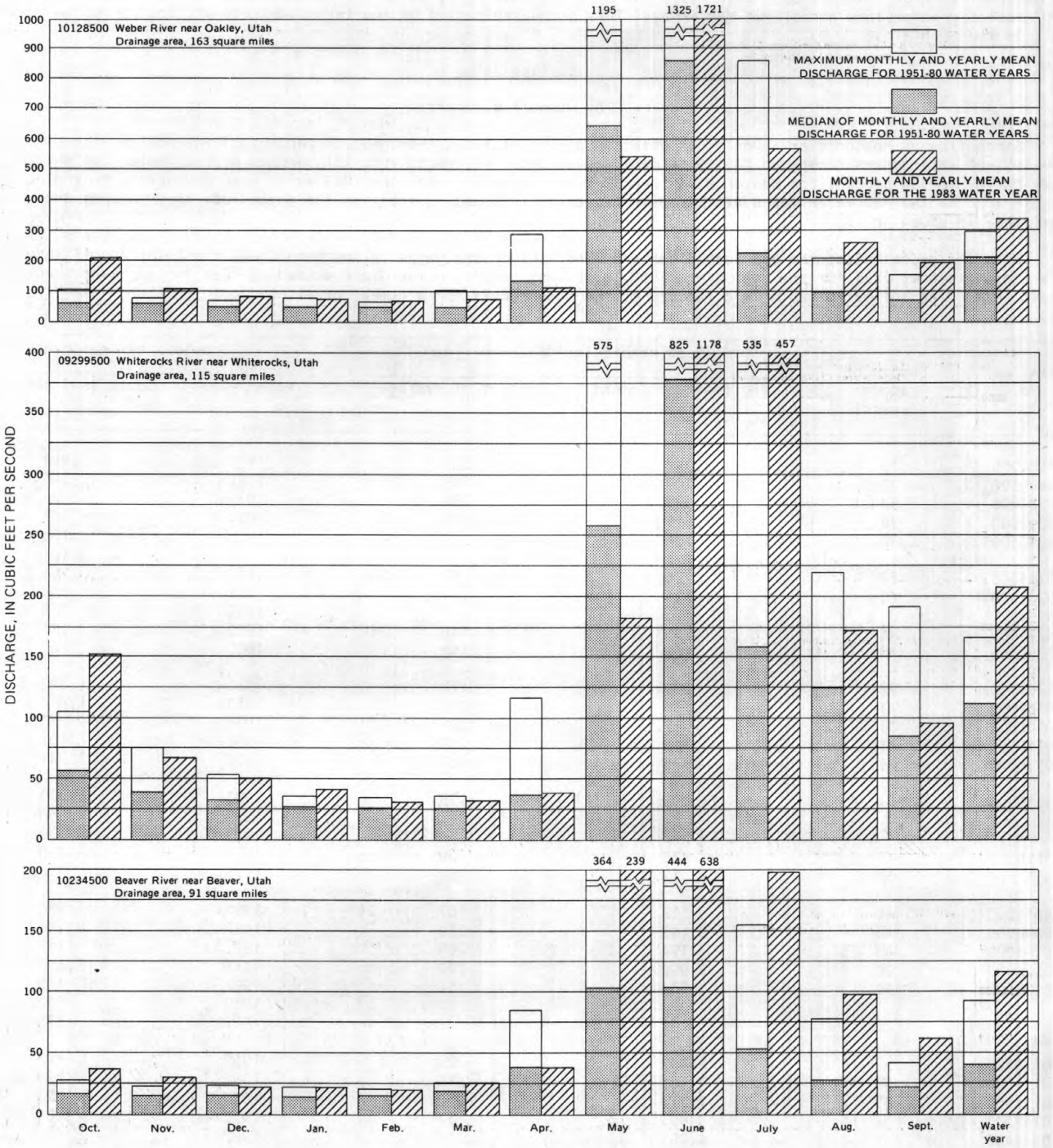

Figure 2.—Comparisons of discharge during the 1983 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations.

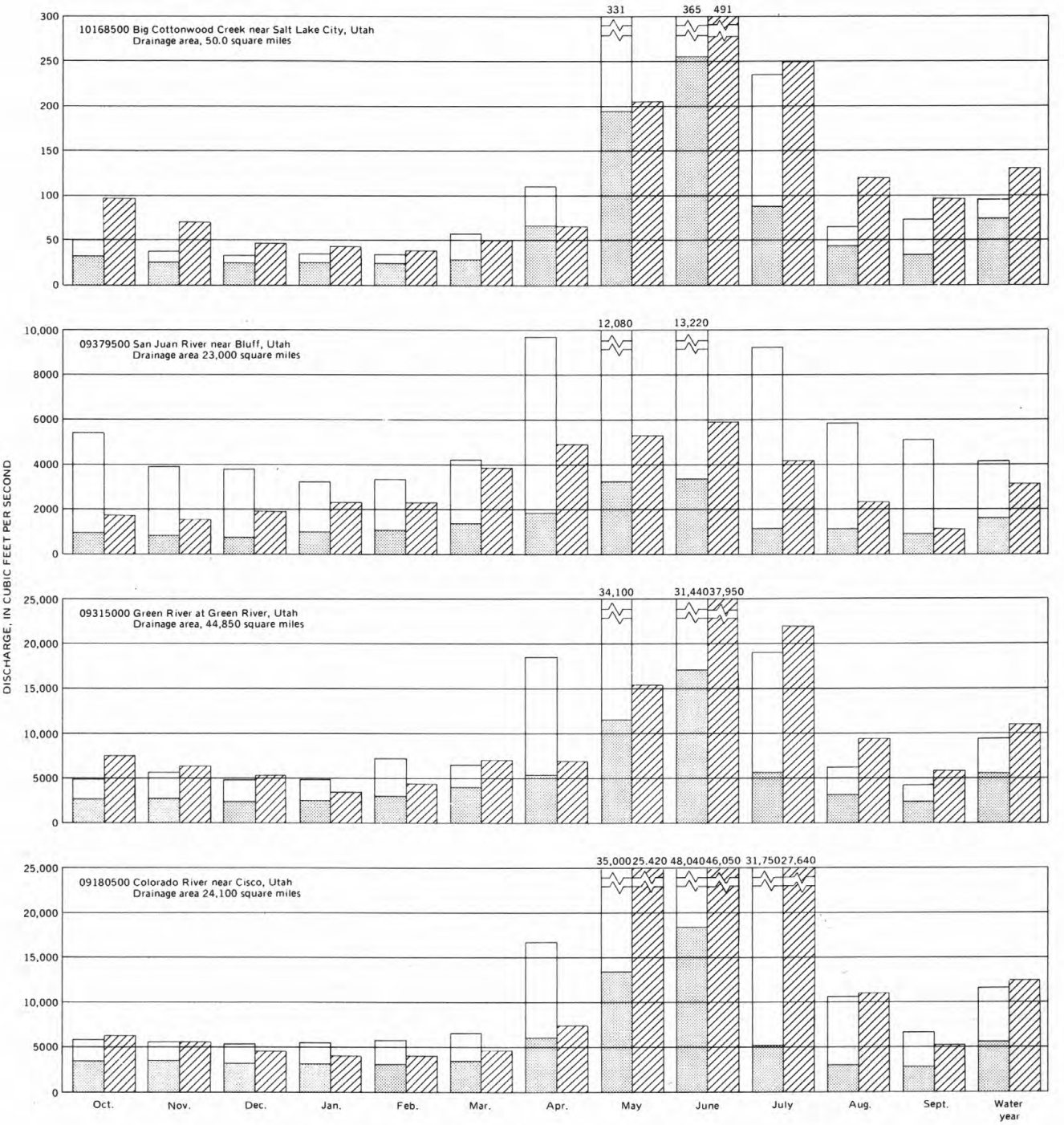

Figure 2.– Comparisons of discharge during the 1983 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations—Continued.

Amazingly enough, with the extreme flow volumes, only nine of the sites in the preceding table had record peak discharges; peak discharges for those nine gages are shown in the following table:

Station No.	1983 peak (cubic feet per second)	Previous peak	
		Cubic feet per second	Water year
09292500	2,240	1,880	1949
09299500	4,640	2,750	1922
09302000	11,500	10,300	1965
09310500	1,310	1,160	1973
10126000	9,770	7,880	1980
10131000	1,570	1,540	1952
10170490	3,350	2,480	1982
10224000	5,020	2,980	1962
10237000	1,700	1,090	1941

As of October 1, 1983, reservoir storage in 19 major irrigation reservoirs was 155 percent of the average, compared to 144 percent of the average the previous year. The elevation of Bear Lake was 5,922.24 feet (National Geodetic Vertical Datum of 1929), with contents of 1,321,800 acre-feet, compared 1,240,500 acre-feet a year ago.

Great Salt Lake rose 4.75 feet (which was a record documented rise for 1 year) to reach a seasonal peak stage of 4,204.80 feet on June 30, 1983. The peak stage was 4.10 feet higher than the previous years peak stage and was the highest since 1924. Elevation of the lake on September 30, 1983 was 4,204.35 feet. This was 4.30 feet higher than the level the previous year and 13.00 feet above the documented record low (4,191.35 feet) during October-November 1963.

The historical record for lake elevation begins in 1847, when the pioneers reached the Great Salt Lake Basin. The elevation of the lake at that time was about 4,200 feet. The historical record high occurred during 1873 when the lake level was 4,211.6 feet.

Water Quality

By Kendall R. Thompson

The above average runoff during the 1983 water year resulted in significant increases in turbidity and suspended-sediment transport in many streams throughout the State. Many streams along the Wasatch Front were effected by mud slides and debri flows. Numerous stream habitats were adversely effected by floodwaters, siltation, channel dredging, and channel reconstruction. The rising Great Salt Lake inundated freshwater wildlife habitats around the lake increasing the salinity of the water supporting those habitats.

Summary of Water-Quality Studies

A recently completed study conducted in Salt Lake County, Utah, (Christensen and others, 1984) used rainfall, runoff, atmospheric deposition, and water quality for 306 storms in 12 urban basins east of the Jordan River to define the impact of urban areas on water resources in the Salt Lake Valley (fig. 3). The study showed that water quality in streams in the eastern part of Salt Lake County deteriorates from the headwaters in the Wasatch Range to the downstream reaches of the streams before they empty into the Jordan River. Concentrations of substances in streams entering the urban areas generally were small under base-flow and storm conditions, but large concentrations of sediment, suspended solids, suspended trace metals, phosphorus, and oxygen-demanding substances were common in the storm runoff leaving urban areas.

The relationship between storm runoff, dissolved solids, and suspended solids for a storm drain in Salt Lake County is shown in figure 4. As runoff increased due to a rainstorm in the area, suspended solids also increased, however, dissolved solids decreased.

The quality of the base flow in most of the canals east of the Jordan River was poorer than that of the streams they intersected. During storms, the quality of the canal water deteriorated further. The impact of canal discharges to streams, however, was diminished because of the relatively small quantities of canal water that were released to the storm swollen streams. Storm runoff from areas of industrial and commercial use were of very poor quality and contributed significantly to the pollutant loads in the Jordan River.

Extended dry periods resulted in suspension in the atmosphere of particulate materials by wind, which were then removed by intense storms of short duration, producing rainfall with large concentrations of the major dissolved substances. The mean concentrations of substances in rainfall in the Salt Lake Valley were comparable to, or less than, concentrations published for other areas in the United States and Europe, and seemed to be related to rainfall intensity and previous rainfall. Loads of substances in rainfall during a given storm within a basin generally were greater than the storm-runoff loads leaving the basin for that storm, indicating that a large quantity of the rainfall load is deposited on the soil and does not appear quickly in the storm runoff. Acid rain (pH less than 5.6) appeared in about one-half of the rainfall samples, being most common in September and October (table 1).

Atmospheric-dustfall concentrations of trace metals decreased toward the north part of the valley, except for copper, which decreased with distance from the west part of the valley. Dissolved-chloride concentrations decreased with distance from the Great Salt Lake. Comparison of the average concentration of dustfall constituents with the composition of average soils indicated that the dustfall contained considerably less aluminum, nearly equal concentrations of iron, manganese, and chromium, and concentrations of cadmium, copper, lead, zinc, and chloride that were 17 to 853 times greater than the average soil.

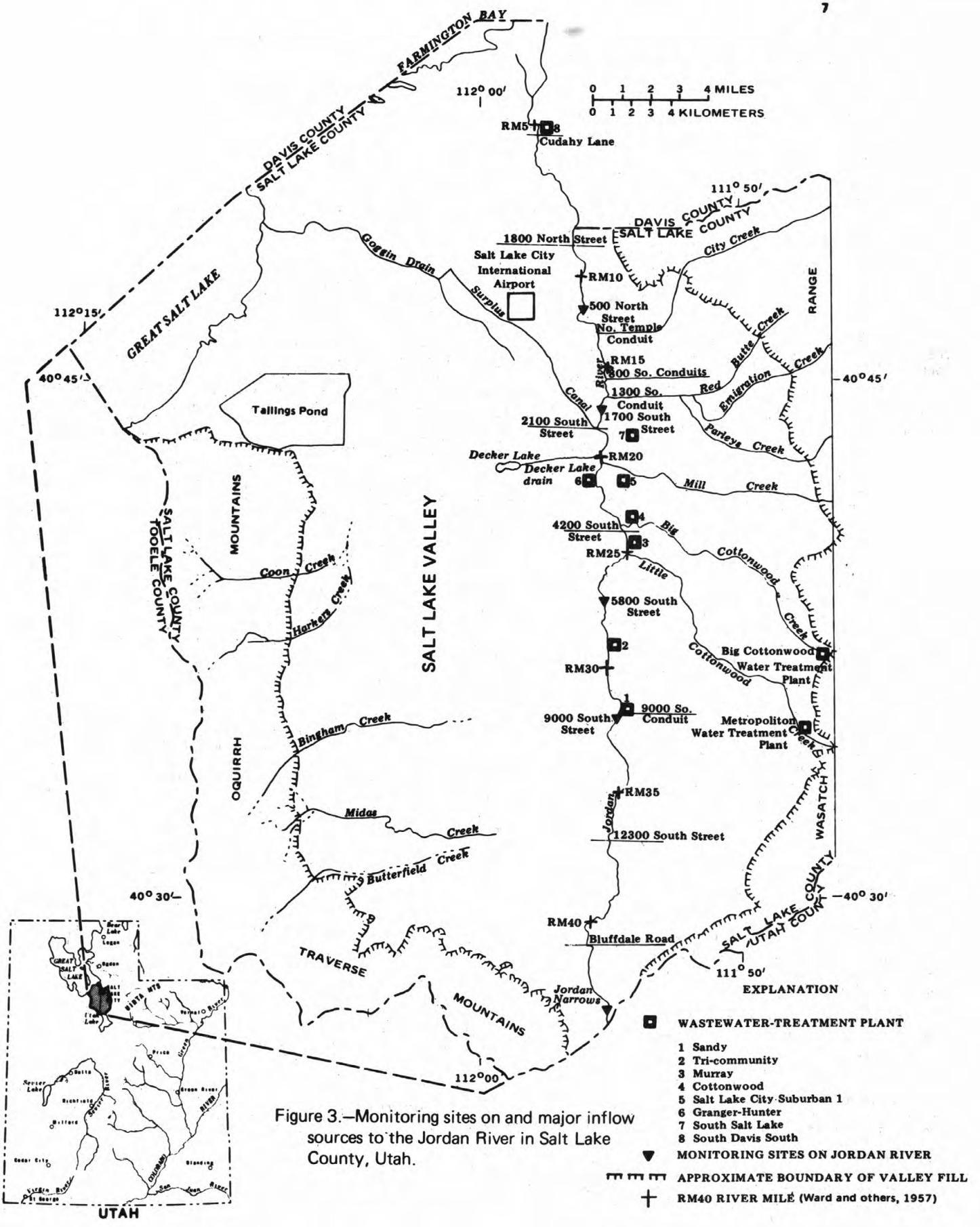

Figure 3.—Monitoring sites on and major inflow sources to the Jordan River in Salt Lake County, Utah.

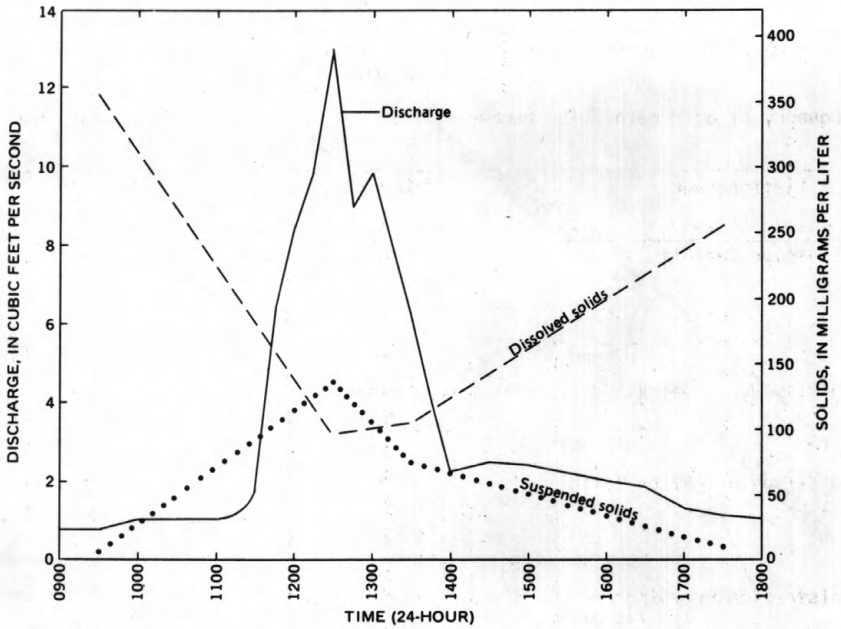

Figure 4.—Relationship of storm discharge to concentrations of dissolved and suspended solids at station Holladay Drain at 4800 South, at Big Cottonwood Creek. The storm date was October 26, 1980.

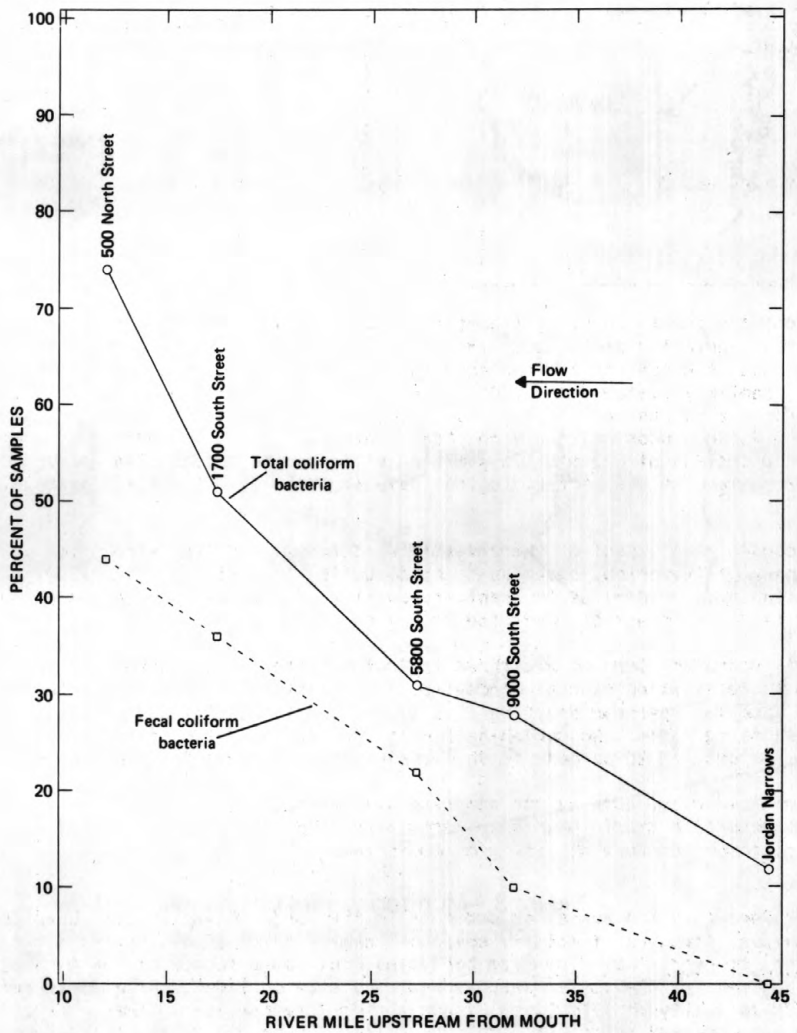

Figure 5.—Percent of samples in which total and fecal coliform bacteria concentrations were greater than Utah's sanitary standards.

Table 1.--Occurrence and frequency of acid rain (pH less than 5.6) in samples collected at six atmospheric-deposition stations

Frequency of acid rain: The number of acid rain samples and the total number of samples.

Station name	Sampling period	Frequency of acid rain	Dates of acid rain
Bells Canyon Conduit	May to November 1981	5/11	May 16, 1981 Sept. 5 Oct. 2 5 10
Sandy City Public Works	September to November 1981	3/6	Oct. 2, 1981 7 28
Dixie Valley Detention Basin	May to November 1981	4/7	Sept. 5, 1981 Oct. 2 7 28
Administration Building	October 1980 to November 1981	8/13	Oct. 7, 1980 Nov. 17 Jan. 16, 1981 May 19 Sept. 5 Oct. 2 7 28
Fort Douglas	March to November 1981	5/10	Mar. 26, 1981 May 6 Sept. 5 Oct. 2 7
Fire Station No. 7	September to November 1981	4/6	Sept. 5, 1981 Oct. 2 7 28

Another recently completed study (Thompson, 1983) identified a serious sanitary problem in the Jordan River in Salt Lake County. Indicator bacteria (total coliform, fecal coliform, and fecal streptococci) rather than specific pathogens were used to establish the sanitary quality of the river. Concentrations of total coliform bacteria commonly exceeded Utah's sanitary standard of 5,000 colonies per 100 milliliters and concentrations of fecal coliform bacteria commonly exceeded Utah's sanitary standard of 2,000 colonies per 100 milliliters in the downstream reaches of the river. At times these concentrations were greatly exceeded. The percentage of samples in which total and fecal coliform bacteria concentrations at five sampling sites on the Jordan River exceeded Utah's sanitary standards is shown in figure 5. A summary of the bacteriological data at these five sites is shown in table 2.

The most conspicuous aspect of the bacteriological data was its extreme variability. Seven wastewater-treatment plants, seven major tributaries, numerous storm conduits, irrigation-return flow, and other sources all contribute to the dynamic system that determines the sanitary quality of the river. Because of this variability, the sanitary quality of the river could not be predicted at any one time.

In general, concentrations of all three indicator bacteria increased in a downstream direction. The ratio of fecal coliform to fecal streptococcal concentration indicated contamination from animal waste was present in 92 percent of the samples from the upstream sampling site at the Jordan Narrows and decreased to about 50 percent of the samples at downstream sampling sites. No contamination from human waste was found at two upstream sampling sites but such contamination was found in 20 percent of the samples downstream at the sampling site at 1700 South Street.

Analysis of 9 years of data at the sampling site at 1700 South Street showed concentrations of both fecal coliform and fecal streptococcal bacteria have been increasing since 1974. Storm runoff from urban areas was found to contribute large concentrations of indicator bacteria.

A study of turbidity and suspended sediment in the Jordan River in Salt Lake County, during 1981-82 (Weigel, 1984) revealed no dominant source of turbidity could be identified at five sampling sites during November through May. There were indications, however, that clay-size particles could be a source of the turbidity because at least 67 percent of the suspended sediment at the Jordan Narrows was clay size or finer. Organic-suspended sediment showed a significant correlation with turbidity at 1700 South Street during November through May, therefore organic-suspended sediment appeared to be the dominant source of turbidity. This may be due to the organic material discharged from wastewater-treatment plants along the reach of the Jordan River upstream from 1700 South Street. Organic cations in the wastewater could be causing the precipitation of clay particles, thereby affecting the source of turbidity in the river. Variations in turbidity at five sampling sites on the Jordan River are shown in figure 6.

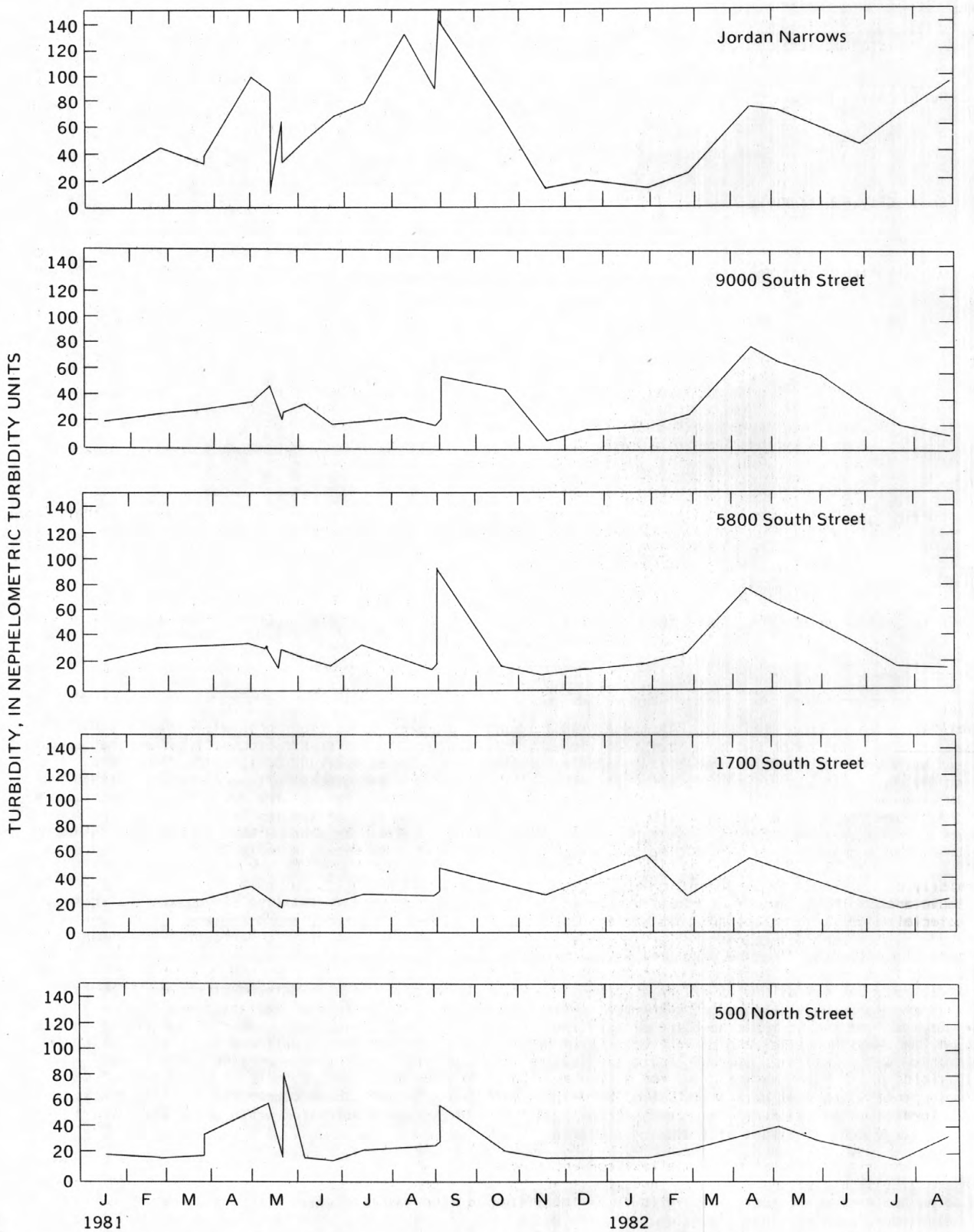

Figure 6.– Variations in turbidity at five sites on the Jordan River, January 1981 - August 1982.

Table 2.--Summary of bacteriological data at five sampling sites on the Jordan River

[Concentrations in colonies per 100 milliliters.]

Sampling site	Jordan Narrows	9000 South Street	5800 South Street	1700 South Street	500 North Street
River mile	44.3	31.9	27.2	17.4	12
Sampling period	10/80-8/82	8/80-10/82	7/80-7/82	7/80-9/82	8/80-8/82
Total coliform bacteria					
Number of samples	25	35	32	43	34
Mean	7,320	9,110	19,120	32,070	48,970
Median	200	1,000	2,000	6,000	8,600
Minimum	10	30	120	410	520
Maximum	120,000	118,000	320,000	340,000	850,000
Standard deviation	24,930	22,600	58,400	72,070	145,300
Coefficient of variation	341	248	305	225	297
Fecal coliform bacteria					
Number of samples	29	38	41	55	39
Mean	82	970	2,820	3,660	3,030
Median	48	220	300	750	1,300
Minimum	1	1	1	1	1
Maximum	500	16,000	40,000	38,000	30,000
Standard deviation	110	2,730	7,680	7,360	5,330
Coefficient of variation	130	280	272	201	176
Fecal streptococcal bacteria					
Number of samples	27	33	39	55	41
Mean	1,480	1,890	2,410	2,870	11,320
Median	760	950	500	780	1,500
Minimum	10	42	26	2	100
Maximum	8,000	13,000	53,000	43,000	130,000
Standard deviation	1,990	2,940	8,450	7,000	29,630
Coefficient of variation	134	155	350	244	262

During June through October, organic-suspended sediment showed a significant correlation with turbidity and seems to be the dominant source of turbidity in the Jordan River. Phytoplankton from Utah Lake is the probable source of the organic-suspended sediment in the reaches of the Jordan River upstream from 9000 South Street. Downstream from 9000 South Street, the principal source of organic-suspended sediment is the discharge from wastewater-treatment plants.

Turbidity does not seem to be significantly affected by inorganic-suspended sediment during June through October at 1700 South and 500 North Streets. This could be due to the precipitation of clay particles by large quantities of organic material present in the inflow from wastewater-treatment plants.

Control of algal growth in Utah Lake and the Jordan River could decrease the turbidity in the river during June through October. Decrease of turbidity in Utah Lake could decrease turbidity in the Jordan River upstream from 5800 South Street and a decrease in the quantity of organic material discharged from the wastewater-treatment plants into the Jordan River could decrease the turbidity in the river downstream from 5800 South Street.

The shallow unconfined aquifer in Salt Lake Valley was recently studied (Seiler and Waddell, 1983). This aquifer seldom is used for domestic or industrial purposes because it yields water slowly and is easily contaminated; thus it generally yields water that is unsuitable for most uses. In about one-half of the valley, water in the shallow-unconfined aquifer is less than 10 feet below land surface. The general direction of flow in the shallow aquifer is toward the Jordan River, except in the extreme northwest part where it is directly toward the Great Salt Lake.

Water in the aquifer contains the smallest concentrations of dissolved solids along the east side of the valley, and the greatest concentrations in the northwest part of the valley near the Great Salt Lake. Large dissolved-solids concentrations were found in water from wells completed in the aquifer near some landfills and tailings areas.

Nitrate-nitrogen concentrations in water samples from the aquifer ranged from less than 0.1 to 86 milligrams per liter and nitrite-nitrogen concentrations in the samples ranged from less than 0.02 to 0.85 milligram per liter. Some of the largest nitrate-nitrogen concentrations were found in water from wells completed in the aquifer near animal pens.

The largest concentrations of trace elements generally were in water from wells completed in the aquifer near landfills and tailings areas. The largest measured concentrations were: cadmium, 200 micrograms per liter; mercury, 0.1 microgram per liter; lead, 46 micrograms per liter; iron, 37,000 micrograms per liter; and arsenic, 360 micrograms per liter.

Synthetic organic chemicals were found in water from several wells completed in the aquifer near landfills. The largest measured concentration were: benzene, 400 micrograms per liter; phenol, 660 micrograms per liter; 1,1 dichloroethane, 20 micrograms per liter; trichloroethylene, 8 micrograms per liter; and chloroethylene, 11 micrograms per liter.

A report on the characteristics of suspended sediment in the San Juan River near Bluff, Utah, analyzed the sediment records for 1930-80 (Thompson, 1982). The mean suspended-sediment load at this site was about 25,410,000 tons per year ranging from an annual load of 3,234,000 tons in 1978 to 112,400,000 tons in 1941. The relationship between annual suspended sediment load and annual stream discharge changed between water years 1941-44 and 1972-73. Possible causes for these changes are the use of new suspended-sediment sampling equipment, a change in laboratory procedures, and unusually high runoff that occurred in 1941 and 1972. Other unknown or unidentified factors may have been involved.

The use of annual stream discharge to predict annual suspended-sediment load will produce inadequate results for the site studied. The large size and diversity of geology and the precipitation patterns in the San Juan River basin present too many variables to form a constant relationship between suspended-sediment load and stream discharge.

Ground Water

By Cynthia L. Appel

Principal areas of ground-water withdrawal by wells in Utah, and those that are most extensively developed, are shown in figure 7 and listed in table 3. The estimated total withdrawal of water from wells in the State during 1982 was about 790,000 acre-feet, which is about 53,000 acre-feet less than during 1981, and 36,000 acre-feet less than the 1972-81 average annual withdrawal (table 4). The decrease in withdrawal primarily was due to a decrease in withdrawals for irrigation. Total withdrawal for irrigation during 1982 was about 504,000 acre-feet, which is 44,000 acre-feet less than during 1981. Withdrawal for public supply was 144,000 acre-feet during 1982, which was 7,000 acre-feet less than during 1981. Withdrawals for industry and domestic and stock during 1982 were about the same as during 1981.

The quantity of water withdrawn from wells is related to local climatic conditions. Precipitation during 1982 was greater than average in almost all of Utah (National Oceanic and Atmospheric Administration, 1983). Of 33 representative weather stations, only 2 reported less than average precipitation. A result of the greater than average precipitation was greater than average surface-water supplies, and, therefore, less withdrawal of water from wells for irrigation.

The greater than average precipitation in most of the State during 1982 resulted in increased recharge to the ground-water reservoirs. This increased recharge, together with decreased withdrawal, resulted in rises in ground-water levels in most of the State from 1982 to 1983 (Appel and others, 1983). Continued large withdrawals for irrigation, however, resulted in general declines in the Milford and Beryl-Enterprise areas of Escalante Valley.

Water levels rose in most parts of the basins along the Wasatch Front (between Brigham City and Nephi in north-central Utah). In Cache Valley, levels rose by as much as 9 feet and locally declined less than 1 foot. In the East Shore area, levels rose by as much as 18 feet, and they declined as much as 4 feet southwest of Ogden and between Farmington and Centerville. In Salt Lake Valley, levels rose by as much as 12 feet, whereas the only declines were less than 1 foot in three wells on the west and northwest sides of the valley. In Utah Valley, water levels rose by as much as 22 feet and no declines were recorded. In southwestern Goshen Valley, however, declines of less than 1 foot were measured in wells completed in the water-table aquifer. In Juab Valley, rises were as much as 8 feet with no declines recorded.

Outside of the basins of the Wasatch Front, water levels also generally rose in the upper and central Sevier Valleys, upper Fremont River valley, Cedar and Sanpete Valleys, and the Sevier Desert. Levels in 22 of 28 selected observation wells in the upper and central Sevier Valleys and upper Fremont River valley rose from 1982 to 1983, with the largest rise being 3.1 feet, whereas the largest decline was 0.8 foot. No water-level declines were recorded in Cedar or Sanpete Valleys where rises of as much as 6 and 15 feet, respectively, occurred. In the Sevier Desert, levels rose by as much as 9 feet, except in one well in which the level declined less than 1 foot.

In most of the basins elsewhere in Utah, water levels generally rose, but more extensive and larger water-level declines also occurred. Water levels generally rose in Curlew Valley, with the largest rise being nearly 6 feet. Levels declined, however, by as much as 4 feet in the northeastern corner of Curlew Valley. Levels rose by as much as 7 feet in about two-thirds of Tooele Valley, but declined by as much as 5 feet in the southeastern part of the valley. Levels in most of Pavant Valley rose, with the largest rise being nearly 6 feet. Declines of as much as 3 feet occurred in the northern, western, and southeastern parts of Pavant Valley. In Cedar City Valley, water levels generally rose, with the largest rise being nearly 7 feet, whereas declines were as much as 2 feet in its northeastern part. Levels in most wells in Parowan Valley rose, with the largest rises being as much as 2 feet, although levels declined by as much as 3 feet north of Paragonah. In the Milford area of Escalante Valley, levels mostly declined by as much as 4 feet, whereas rises were as much as 1 foot at the northern and southern ends of the valley. In more than one-half of the Beryl-Enterprise area of Escalante Valley, levels declined, with the largest decline being 12 feet north of Enterprise. Water levels rose as much as 17 feet at Enterprise.

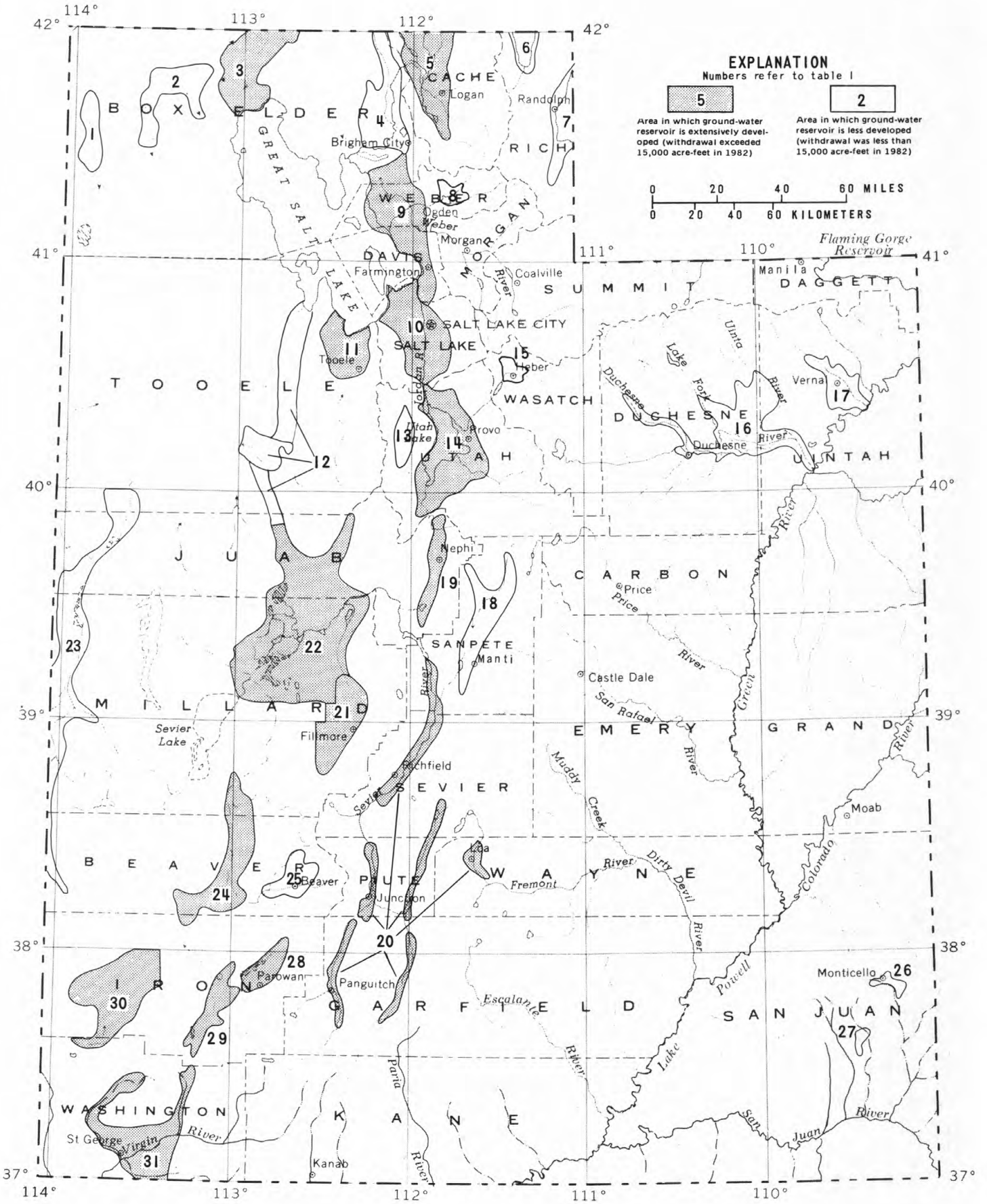

Figure 7.—Areas of ground-water development specifically referred to in this report.

Table 3.--Areas of ground-water development in Utah
(from Appel and others, 1983, table 1)

Number in figure 7	Area	Principal type of water-yielding rocks
1	Grouse Creek valley	Unconsolidated
2	Park Valley	Do.
3	Curlew Valley	Unconsolidated and consolidated
4	Malad-lower Bear River valley	Unconsolidated
5	Cache Valley	Do.
6	Bear Lake valley	Do.
7	Upper Bear River valley	Do.
8	Ogden Valley	Do.
9	East Shore area	Do.
10	Salt Lake Valley	Do.
11	Tooele Valley	Do.
12	Dugway area	Do.
	Skull Valley	Do.
	Old River Bed	Do.
13	Cedar Valley	Do.
14	Utah and Goshen Valleys	Do.
15	Heber Valley	Do.
16	Duchesne River area	Unconsolidated and consolidated
17	Vernal area	Do.
18	Sanpete Valley	Unconsolidated
19	Juab Valley	Do.
20	Central Sevier Valley	Do.
	Upper Sevier Valleys	Do.
	Upper Fremont River valley	Unconsolidated and consolidated
21	Pavant Valley	Do.
22	Sevier Desert	Unconsolidated
23	Snake Valley	Do.
24	Milford area	Do.
25	Beaver Valley	Do.
26	Monticello area	Consolidated
27	Blanding area	Unconsolidated
28	Parowan Valley	Unconsolidated and consolidated
29	Cedar City Valley	Unconsolidated
30	Beryl-Enterprise area	Do.
31	Central Virgin River area	Unconsolidated and consolidated

Table 4.--Withdrawal of water from wells in Utah
[Data from Appel and others, 1983, table 2 except where revised. Estimated 1981 total withdrawals from wells is from Holmes and others, 1982, table 2.]

Area	Number in figure 7	Estimated withdrawals from wells (acre-feet)						
		1982					1981 total	1972-81 average annual
		Irrigation	Industry	Public supply	Domestic and stock	Total (rounded)		
Curlew Valley	3	25,600	0	50	50	26,000	40,000	27,000
Cache Valley	5	11,900	9,100	3,600	1,800	26,000	33,000	27,000
East Shore area	9	[1]9,000	[2]6,900	[2]22,000	--	[2]38,000	36,000	41,000
Salt Lake Valley	10	1,900	[2]31,700	[2]61,400	30,000	[2]125,000	[2]136,000	128,000
Tooele Valley	11	19,800	500	5,100	150	26,000	30,000	30,000
Utah and Goshen Valleys	14	47,700	10,200	15,600	12,800	86,000	10,000	102,000
Juab Valley	19	15,000	50	750	200	16,000	21,000	24,000
Sevier Desert	22	13,200	1,500	860	270	16,000	18,000	31,000
Upper and central Sevier Valleys and upper Fremont River valley	20	16,000	200	5,000	6,300	28,000	25,000	23,000
Pavant Valley	21	68,600	100	100	300	69,000	80,000	91,000
Cedar City Valley	29	[3]23,700	900	[2]2,500	[2]400	[2]28,000	29,000	33,000
Parowan Valley	28	[3,4]24,100	300	200	200	25,000	27,000	29,000
Escalante Valley								
Milford area	24	53,700	0	1,000	300	55,000	69,000	61,000
Beryl-Enterprise area	30	[3]79,600	18,200	320	750	99,000	93,000	80,000
Other areas[5]		93,800	3,700	25,200	4,000	127,000	105,000	99,000
Totals (rounded)		504,000	[2]83,000	[2]144,000	[2]58,000	[2]790,000	[2]843,000	826,000

1 Includes some domestic and stock use.
2 Includes some previously unpublished revisions.
3 Data from reports of local water commissioners to the Utah Department of Natural Resources, Division of Water Rights.
4 Includes some use for stock.
5 Withdrawals are estimated minimums.

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DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in natural water samples under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials, as by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation with 48 hours at 35°C. In the laboratory, these bacteria are defined as the organism which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptoccal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-Enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed load is the sediment that moves in the stream at velocities less than the surrounding flow by sliding, rolling, or bounding on or very near the streambed.

Bed material is the consolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter microorganisms, such as bacteria.

Biomass is the amount of living matter present at any give time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical-oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.2832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is that total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

FTU is an abbreviation for "Formazin Turbidity Units."

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin of distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps. Each hydrologic unit is identified by an 8-digit number.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly call "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms cololected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (m/L) or liters (L). Numbers of planktonic organism can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in distilled water (chemically dispersed).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024-0.004	Sedimentation
Silt	0.004-0.062	Sedimentation
Sand	0.062-2.0	Sedimentation or sieve
Gravel	2.0-64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, number, mass or volume.

Periphyton are microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, the periphyton also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton are the plant part of the plankton. They are ususally microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. The concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2 x time) for periphyton and macrophytes and mg C/(m^3 x time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in and can be used for approximating the dissolved-solids concentration of the water. Commonly, the concentration 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, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	Hexagenia limbata

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

Water Year in Geological Survey reports, is 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, 1983 is called the "1983 water year."

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in a series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes a 2-digit part number "03" plus the 6-digit downstream order number "041000."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site number system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, assign sequential numbers "01," "02," etc. as one would for wells. See figure 8.

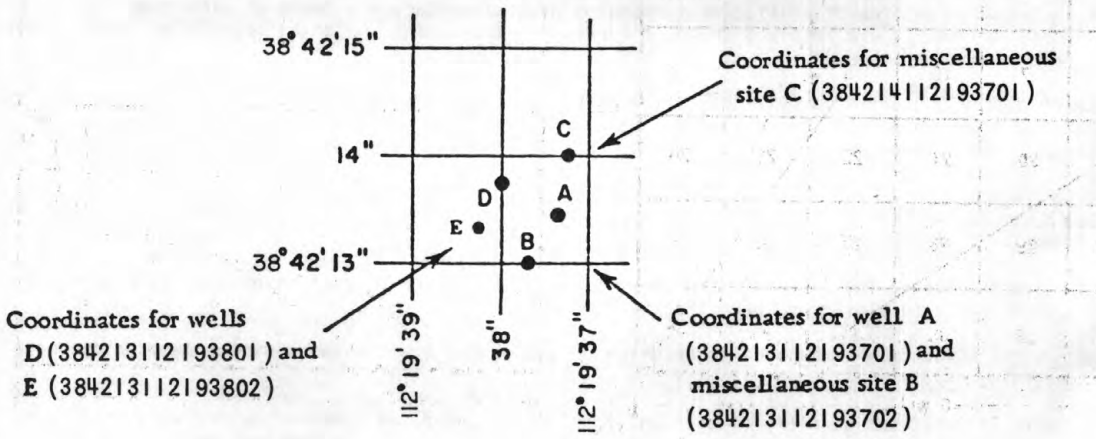

Figure 8.—System for numbering wells and miscellaneous sites (latitude and longitude).

In addition to the well number that is based on latitude and longitude given for each well, another well number is given that is based on the U.S. Bureau of Land Management's system of land subdivision. This well number is familiar to the water users of Utah and shows the location of the well by quadrant, township, range, section, and position within the section. See figure 9. The capital letter at the beginning of the location number indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian--A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The first numeral indicates the township, the second the range, and the third the section in which the well is located. Lowercase letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counterclockwise direction beginning with (a) in the northeast quarter of the section. Letters are assigned within each quarter section and quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added to the letters in the order in which the wells are inventoried. For example, (C-16-9)15daa-2 indicates a well in the northeast quarter of the northeast quarter of the southeast quarter of sec. 15, T.16 S., R.9 W., and shows that this is the second well inventoried in the quarter-quarter-quarter section. The capital letter C indicates that the township is south of the Salt Lake Base Line and that the range is west of the Salt Lake Meridian.

In addition to the Salt Lake Base Line and Salt Lake Meridian, which apply to most of Utah, the Uintah Base Line and Meridian are the basis for describing locations in a small, irregularly shaped area of northeastern Utah. The quadrants, townships, ranges, sections, and parts of sections are designated in the same way as for the Salt Lake Base Line and Meridian. For any location in the Uintah area, however, the letter "U" precedes the parenthesis.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in National or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

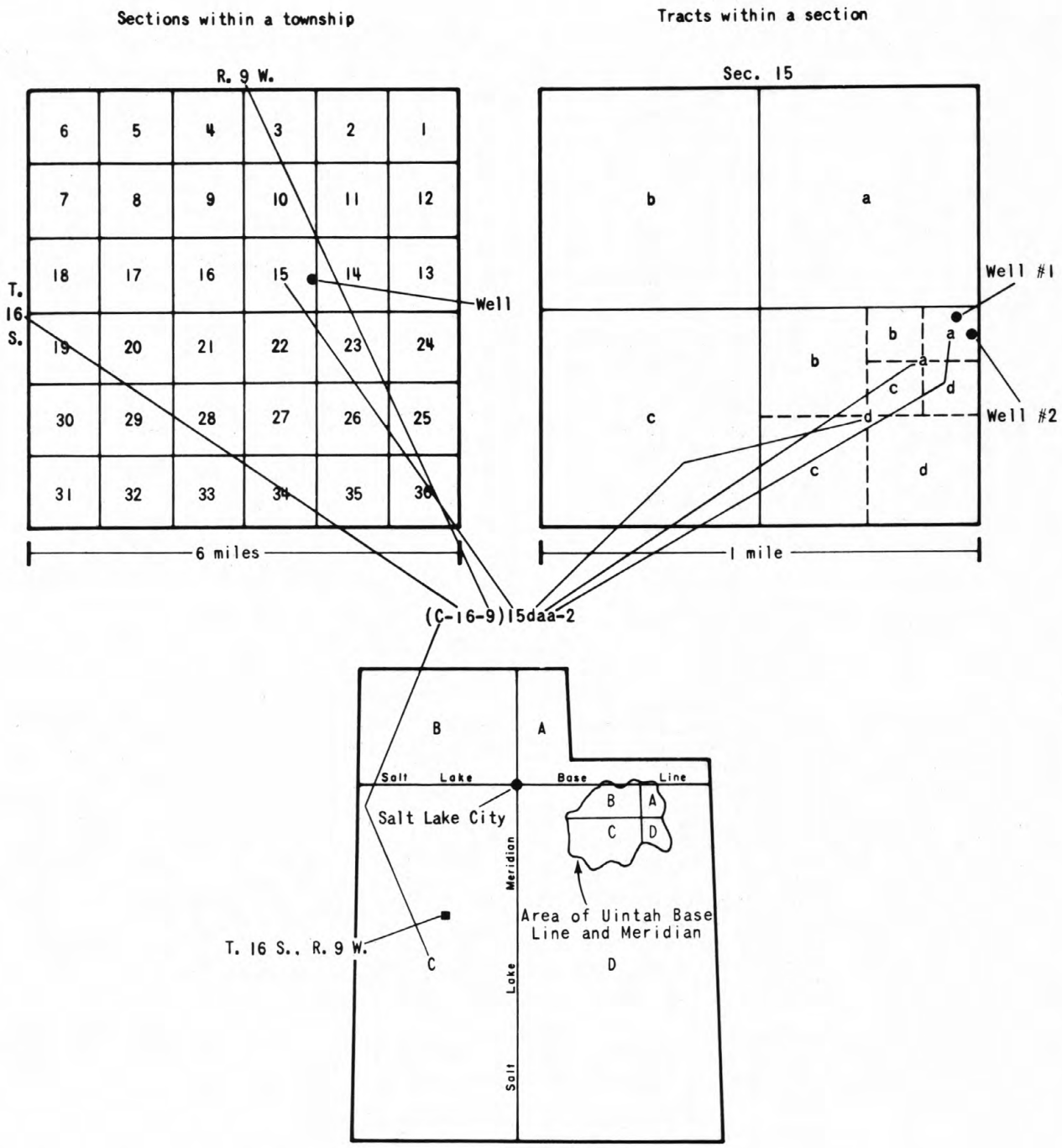

Figure 9.—System for numbering wells (township and range).

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations (fig. 10) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, Book 3, Chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station tabulations of the daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year which begins on October 1 and ends on September 30.

The description of the gaging stations gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information obtained later. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water years October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. For all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum of 1929; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum of 1929 is explained in "DEFINITION OF TERMS" on page 16.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than percent. Under "EXTREMES," the extremes for the period of record are given first, information available outside the period of record is given second, and those for the current year are given last. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. Peak discharges for some stations are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabluar format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following "EXTREMES," for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage relation, or if any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Discharge measurements made at sites other than continuous-record stations are listed in a single table.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as discharge mesaurements, gage-height records, and rating tables is available from the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Discharge Collected by Agencies

Other Than the Geological Survey

Records of discharge not published by the Geological Survey, but for which an index is maintained by the Office of Water Data Coordination, were collected in Utah at 27 sites during the 1983 water year by the following agencies: Records at 13 sites were collected by the U.S. Forest Service, at 4 sites by the Weber River Distribution System; and at 2 sites each by the Ogden Bay Water Fowl Management Area and the Salt Lake County Water Conservancy District; and at 1 site each by the following: Ogden River Water Users, Clear Lake Waterfowl Management Area, Metropolitan Water District of Salt Lake City, Utah Department of Natural Resources, U.S. Army Corps of Engineers, and U.S. Bureau of Reclamation. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22092, maintains an index of these sites. Information on records of specific sites can be obtained form that office upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations (fig. 11). The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, etc.); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collectng and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values for each constituent measured, and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record.

Specific conductance and temperature only were measured at 167 stations in Utah, usually at 1-month intervals (fig. 12). In the tables on pages 427 to 459 a few data are shown as 50 (less than) micromhos or 8,000 (more than) micromhos. Discharge records and detailed information on locations of these stations are given in this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment data were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Only ground-water level data from selected wells with continuous recorders from a basic network of observation wells are published herein (fig. 13). This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. (See figures 8 and 9.)

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either the National Geodetic Vertical Datum of 1929 or land-surface datum (lsd). National Geodetic Vertical Datum of 1929 is the datum plane on which the National network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above the National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundreths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Access to WATSTORE Data

The National WATer Data STOrage and RETrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey as its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation,* by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel and dispersion in streams by dye tracing,* by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A11. *Measurement of discharge by moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells,* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water,* by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. *Laboratory theory and methods for sediment analysis,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells,* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

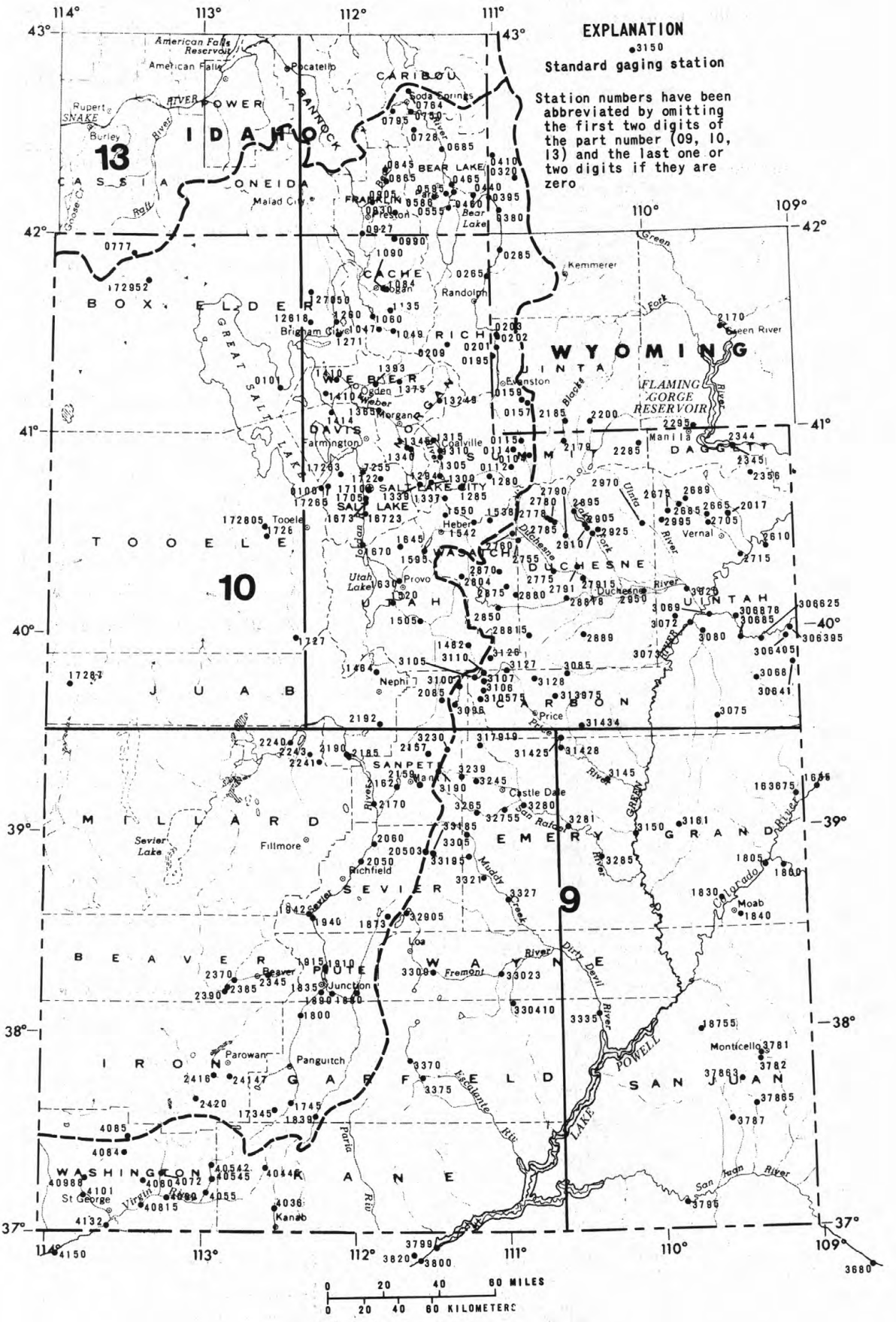

Figure 10.—Location of gaging stations in Utah.

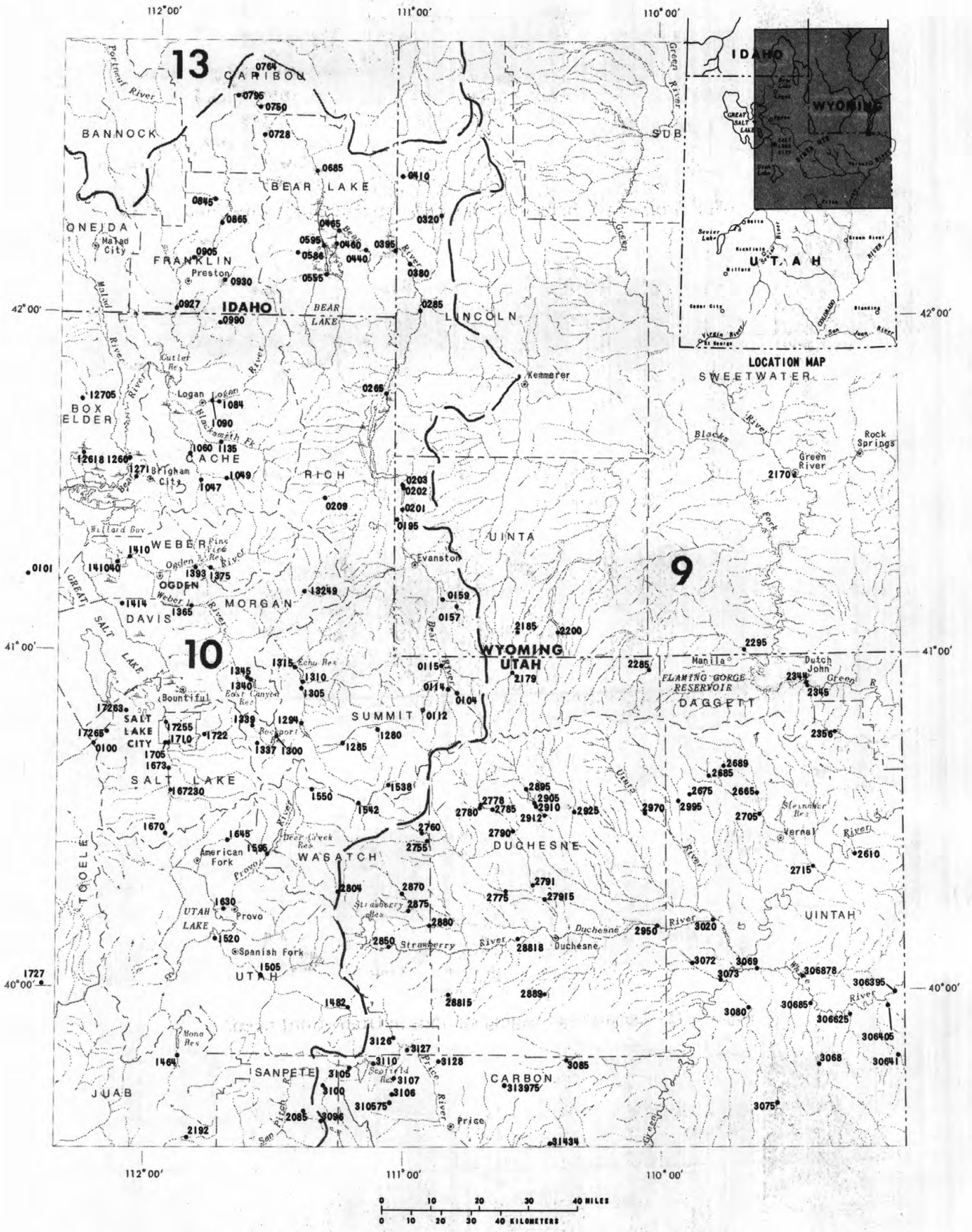

Figure 10.—Location of gaging stations in Utah—Continued.

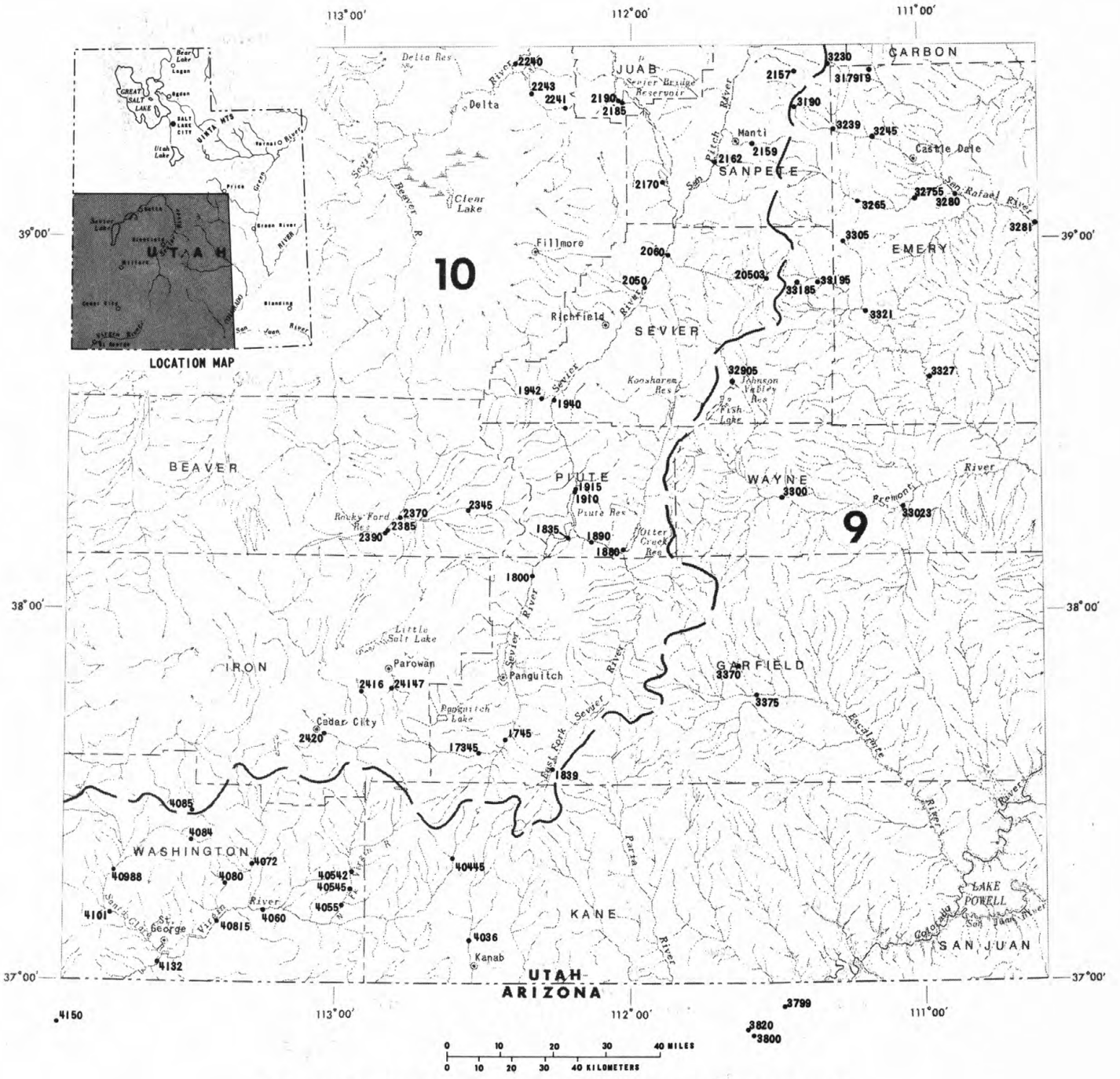

Figure 10.—Location of gaging stations in Utah—Continued.

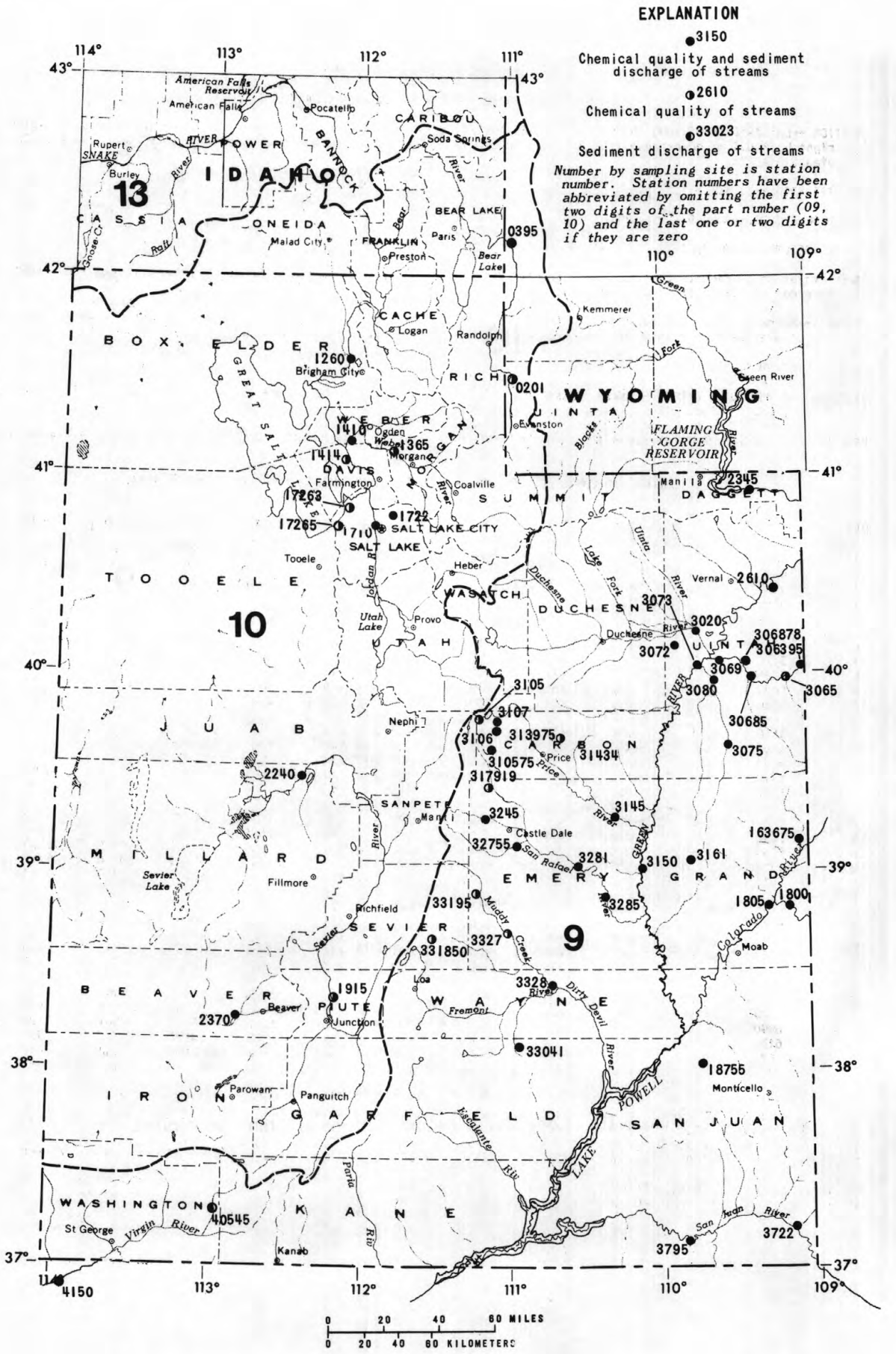

Figure 11.—Location of surface-water-quality stations in Utah.

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'45", long 109°01'36", in SE1/4NW1/4 sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.7 mi downstream from McDonald Creek, 12 mi southwest of Mack, Colorado, and 1.5 mi upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,843 mi^2.

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WRD COLO-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,325 ft from topographic map. May 1951 to October 1980, water-stage recorder at site 5.7 mi upstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas.)

AVERAGE DISCHARGE.--32 years, 5,904 ft^3/s, 4,277,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62,100 ft^3/s June 27, 1983, gage height, 15.02 ft; minimum daily, 960 ft^3/s Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62,100 ft^3/s June 27, gage height, 15.02 ft; minimum daily, 3,220 ft^3/s Apr. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6560	5960	5050	3580	4350	4530	4020	9660	45600	46500	13800	5860
2	6670	5970	5100	3850	4330	4620	4020	8740	43200	42800	14400	5790
3	6400	5590	4980	3990	4320	4580	3980	7840	41200	38900	13300	5670
4	6190	4370	4800	3960	4200	4580	3980	7620	36400	38300	12700	5480
5	6040	4100	4710	4160	4190	4480	3950	8180	35600	36600	13000	5620
6	5810	4970	4830	4410	4300	4560	3580	8500	35500	34000	13300	5670
7	5570	5220	4790	4630	4280	4430	3420	8800	33100	30900	13700	5530
8	5540	5230	4830	4690	4180	4320	3360	8600	33100	30300	13100	5480
9	5600	5570	4730	4660	4250	4270	3380	10700	34200	32200	12300	5430
10	5580	5670	4710	4520	4280	4390	3260	14000	35100	32000	11800	5470
11	5520	5830	4760	4350	3820	4220	3220	16500	35600	31400	11300	5190
12	5600	6000	4750	4320	3800	4220	3340	17400	37600	30000	10400	5140
13	5430	5630	4610	4340	4000	4350	3360	15300	42900	28500	10700	5070
14	5470	5440	4450	4320	4120	4520	3400	14600	37300	27500	10200	5000
15	5390	5250	4580	4240	4200	5100	3320	13300	32300	26100	10200	4830
16	5270	5040	4520	4280	4090	4920	3380	13100	30700	22400	9400	4780
17	5350	5140	4450	4320	4130	4700	3400	15000	31000	19500	9070	4600
18	5290	5180	4760	4460	4130	4580	3440	13900	32500	19000	8720	4400
19	5400	5410	4650	4550	4180	4500	3520	12900	35700	18100	8750	4280
20	5590	5540	4350	4550	4270	4520	4200	13100	41500	17300	9240	4240
21	5670	5440	4600	4500	4220	4400	4700	13100	41200	15800	9420	4260
22	5650	5240	4660	4520	4200	4180	4880	14200	46500	18000	9130	4650
23	5610	5080	4790	4400	4210	4280	4820	17000	47000	20100	8590	4730
24	5560	4980	4790	4430	4290	4280	4880	19600	48000	20400	8010	4420
25	5560	4740	4650	4490	4320	4380	6330	23500	49700	19100	7950	4480
26	5470	4790	4290	4520	4420	4250	8080	27700	56900	18800	7990	4530
27	5840	4890	4180	4460	4410	4150	8220	31000	60200	18200	7640	4710
28	6990	4780	4050	4420	4400	3980	7840	35500	57400	17400	7100	4820
29	6150	4810	4000	4470	---	4080	7470	39400	54900	16200	6980	4800
30	5670	4910	3840	4450	---	3880	8460	41100	50000	15200	7050	4800
31	5770	---	3680	4410	---	3650	---	44000	---	13800	6780	---
TOTAL	178210	156770	141940	135250	117890	135900	137210	543840	1241900	795300	316020	149730
MEAN	5749	5226	4579	4363	4210	4384	4574	17540	41400	25650	10190	4991
MAX	6990	6000	5100	4690	4420	5100	8460	44000	60200	46500	14400	5860
MIN	5270	4100	3680	3580	3800	3650	3220	7620	30700	13800	6780	4240
AC-FT	353500	311000	281500	268300	233800	269600	272200	1079000	2463000	1577000	626800	297000

CAL YR 1982 TOTAL 2430080 MEAN 6658 MAX 18600 MIN 2280 AC-FT 4820000
WTR YR 1983 TOTAL 4049960 MEAN 11100 MAX 60200 MIN 3220 AC-FT 8033000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Colorado, 1983."

09163675 COTTONWOOD WASH AT I-70, NEAR CISCO, UT

LOCATION.--Lat 39°04'54", Long 109°13'52", in SW1/4NE1/4 sec.11, T.20 S., R.24 E., Grand County, Hydrologic Unit 14030001, on left bank, 50 ft north of I-70, and 36.3 mi east of Crescent Junction.

DRAINAGE AREA.--170 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1983.

GAGE.--Water-stage recorder. Altitude of gage is 4,510 ft from topographic map.

REMARKS.--Records good. Diversions for irrigation of approximately 300 acres above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft^3/s June 25, gage height, 6.70 ft; minimum, 1.7 ft^3/s for several days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	3.5	9.8	6.1	2.5	4.4
2							---	3.3	9.1	6.0	2.4	4.8
3							---	3.3	9.0	5.8	2.4	4.5
4							---	3.3	8.7	6.4	2.6	4.4
5							---	3.5	8.7	6.7	2.9	4.5
6							---	4.3	8.7	6.1	2.6	4.5
7							---	4.3	9.0	5.9	4.5	4.3
8							---	4.7	9.0	7.1	2.9	4.5
9							---	4.2	9.0	11	2.8	3.5
10							---	4.3	8.7	5.5	2.9	3.0
11							---	4.9	8.7	5.5	2.5	2.6
12							---	4.9	9.7	5.4	2.5	2.0
13							4.0	5.1	11	5.1	7.3	1.8
14							3.9	5.1	9.0	5.0	2.8	1.8
15							3.8	5.8	8.7	5.2	2.9	1.8
16							3.5	6.5	8.7	5.2	2.6	1.8
17							3.5	7.3	8.1	5.1	2.5	1.8
18							3.8	7.3	7.6	5.0	2.4	1.8
19							3.8	9.0	7.6	5.0	4.5	1.8
20							4.0	8.7	7.0	5.0	4.5	1.8
21							4.0	5.7	7.0	5.2	4.4	2.2
22							4.3	6.2	6.8	6.7	4.4	2.3
23							4.0	7.1	6.8	28	4.3	2.5
24							4.2	7.4	6.5	8.0	4.2	2.8
25							4.9	7.6	52	5.6	4.5	2.5
26							5.1	7.9	9.6	6.7	4.4	2.5
27							5.3	8.4	8.9	6.0	4.3	3.2
28							3.9	9.0	7.5	3.5	4.4	3.0
29							3.3	9.6	6.6	2.9	4.4	2.8
30							3.7	9.9	6.1	2.6	4.6	3.8
31							---	10	---	2.6	4.5	---
TOTAL							---	192.1	293.6	195.9	111.4	89.0
MEAN							---	6.20	9.79	6.32	3.59	2.97
MAX							---	10	52	28	7.3	4.8
MIN							---	3.3	6.1	2.6	2.4	1.8
AC-FT							---	381	582	389	221	177

09163675 COTTONWOOD WASH AT I-70, NEAR CISCO, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to September 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
APR 27...	0940	4.5	1340	8.5	17.5	13.5	55	70	160
MAY 25...	1320	7.4	1120	8.5	27.5	24.0	54	59	120
JUN 28...	1345	7.8	1230	8.4	33.0	27.0	52	59	130
JUL 29...	1200	3.1	1310	8.6	34.5	25.5	45	67	160
AUG 26...	1430	4.4	1100	8.4	27.5	29.0	34	56	120
SEP 02...	1230	4.9	1060	8.5	28.5	27.5	34	57	120

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
APR 27...	1.9	360	330	13	0.2	20	<0.1	0.02
MAY 25...	2.1	350	250	9.6	0.2	20	3.3	0.03
JUN 28...	2.3	360	290	11	0.2	18	<0.1	0.02
JUL 29...	2.8	380	340	13	0.2	18	<0.1	0.04
AUG 26...	2.0	330	230	13	0.4	17	<0.1	0.00
SEP 02...	2.3	340	220	14	0.2	17	<0.1	0.00

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
APR 27...	0940	50
MAY 25...	1320	40
JUN 28...	1345	40
JUL 29...	1200	50
AUG 26...	1430	30
SEP 02...	1230	40

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
APR 27...	0940	4.5	13.5	201	2.4	49	69	92	97
MAY 25...	1320	7.4	24.0	396	7.9	--	--	--	--
JUN 28...	1345	7.8	27.0	208	4.4	--	--	--	--

09180000 DOLORES RIVER NEAR CISCO, UT

LOCATION.--Lat 38°47'50, long 109°11'40", in SW1/4SE1/4 sec.18, T.23 S., R.25 E., Grand County, Hydrologic Unit 14030004, on left bank 0.2 mi downstream from Line Canyon, 9.1 mi upstream from mouth, 13.5 mi downstream from Colorado-Utah State line, and 13.9 mi southeast of Cisco.

DRAINAGE AREA.--4,580 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

REVISED RECORDS.--WDR UT-75-1: 1974.

GAGE.--Water-stage recorder. Altitude of gage is 4,165 ft from river-profile map. Dec. 6, 1950 to Apr. 18, 1965, at site 200 ft downstream at different datum; Apr. 19, 1965 to Sept. 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records poor. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--33 years, 785 ft^3/s, 568,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft^3/s Apr. 21, 1958, gage height, 9.84 ft at different datum; minimum, 3.4 ft^3/s Sept. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 26	unknown	15,000	14.22
May 10	0830	*15,500	14.57
May 31	2000	14,300	14.21
June 25	1430	14,500	14.41

Minimum, 188 ft^3/s Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	634	360	280	240	265	440	996	9750	12600	4030	1260	548
2	850	342	310	250	250	483	1520	7120	12000	3620	1330	534
3	726	311	311	260	224	437	1550	5760	10600	3520	1180	491
4	677	301	300	270	256	442	1450	5670	9150	3200	1030	473
5	619	274	290	280	283	475	1280	7400	8040	2900	947	447
6	568	280	289	290	287	494	1150	9460	7870	2500	1020	437
7	581	275	288	295	289	488	1050	8800	7420	2300	996	422
8	526	277	289	290	290	452	996	8170	6970	2400	1030	412
9	511	286	299	285	296	448	905	10200	6870	2500	1040	402
10	475	342	291	270	308	462	850	11400	6800	3000	1020	399
11	460	368	290	260	305	495	930	13400	6270	3000	1090	376
12	462	381	290	260	289	624	980	14000	6200	2400	1510	361
13	452	348	284	250	271	756	1070	8700	6700	2300	1280	335
14	439	305	260	245	292	1100	1080	7200	6200	2200	1170	312
15	431	308	250	250	305	1390	1030	6300	5150	2020	1100	299
16	428	289	247	240	302	1670	974	5970	4690	1820	971	294
17	410	271	258	250	283	1470	954	6200	4730	1710	929	284
18	406	259	280	255	299	1210	1080	5600	4850	1630	862	270
19	378	271	290	260	324	1140	1710	5150	5390	1520	827	262
20	372	268	283	260	321	1070	3300	5200	6270	1420	810	255
21	363	280	302	250	305	953	4200	5110	6540	1340	850	257
22	355	271	314	260	315	868	4700	5290	6370	1520	810	269
23	359	268	380	250	315	862	4600	6570	6250	1590	726	271
24	354	299	390	240	338	886	4800	8040	6250	1710	663	268
25	340	296	370	240	358	868	6800	9280	7320	1660	777	285
26	329	288	330	240	386	782	8100	10100	6480	1610	983	284
27	490	275	290	246	415	741	9500	10100	6210	1560	702	281
28	600	266	260	259	404	721	9000	11000	5960	1500	520	276
29	469	260	270	268	---	721	8800	11700	5420	1430	560	268
30	352	265	260	265	---	726	10300	12100	4750	1320	580	295
31	327	---	250	247	---	793	---	12400	---	1240	550	---
TOTAL	14743	8884	9095	8025	8575	24467	95655	263140	206320	66470	29123	10367
MEAN	476	296	293	259	306	789	3189	8488	6877	2144	939	346
MAX	850	381	390	295	415	1670	10300	14000	12600	4030	1510	548
MIN	327	259	247	240	224	437	850	5110	4690	1240	520	255
AC-FT	29240	17620	18040	15920	17010	48530	189700	521900	409200	131800	57770	20560

CAL YR 1982	TOTAL	362277	MEAN	993	MAX	5370	MIN	100	AC-FT	718600
WTR YR 1983	TOTAL	744864	MEAN	2041	MAX	14000	MIN	224	AC-FT	1477000

09180000 DOLORES RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1951 to current year.
SPECIFIC CONDUCTANCE: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.
WATER TEMPERATURES: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March 1951 to December 1953, October 1957 to September 1964, October 1978 to September 1979, quarterly, October 1979 to September 1980, periodically.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 21,600 micromhos July 9, 1977; minimum, 240 micromhos June 22, 1983.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 14, 1958, July 18, 1977; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 5,210 micromhos Sept. 27; minimum, 240 micromhos June 22.
WATER TEMPERATURES: Maximum, 24.0°C several days during August and September; minimum, 0.0°C many days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 18...	1130	389	2300	8.1	16.0	10.5	23	9.4	653	K56
NOV 24...	1230	291	3670	8.3	5.0	3.5	--	--	--	--
DEC 22...	1100	310	3410	8.0	8.0	1.5	45	12.1	653	K10
JAN 27...	1215	244	3260	8.1	3.5	1.5	--	11.9	661	--
FEB 28...	1130	393	1980	8.2	11.5	6.5	660	10.2	654	K4
MAR 31...	1230	774	1560	8.5	21.0	10.5	--	9.5	657	--
APR 29...	1130	9550	335	7.8	15.5	8.5	1300	9.9	652	<1
MAY 23...	1100	7080	370	8.4	22.5	14.0	--	8.1	648	--
JUN 22...	1230	6760	240	7.9	30.5	16.5	230	8.2	659	K2
JUL 22...	1100	1550	890	8.2	31.5	21.5	--	7.2	661	--
AUG 30...	1110	575	1670	8.3	26.5	20.0	160	7.5	656	--
SEP 06...	1230	426	2300	8.3	26.5	21.5	--	--	--	--

K Results based on colony count outside acceptable range (nonideal colony count).

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 18...	K72	340	6.7	85	30	350	68	8.6	17
NOV 24...	--	520	10	110	59	590	70	12	26
DEC 22...	K32	450	9.0	110	43	540	71	11	24
JAN 27...	--	410	8.3	98	41	490	71	11	22
FEB 28...	K28	410	8.1	93	42	290	60	6.5	13
MAR 31...	--	350	6.9	83	34	180	52	4.3	8.5
APR 29...	<1	150	3.1	45	9.9	17	19	0.6	1.0
MAY 23...	--	150	3.0	42	11	17	19	0.6	2.5
JUN 22...	K10	100	2.1	31	6.5	11	19	0.5	0.3
JUL 22...	--	200	4.0	53	16	91	49	2.9	4.4
AUG 30...	--	330	6.7	84	30	210	57	5.2	12
SEP 06...	--	390	7.9	97	37	300	61	6.8	15

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 18...	140	220	570	0.3	7.3	1340	1370	1.8	1410
NOV 24...	180	390	930	0.3	6.6	--	2220	3.0	1740
DEC 22...	170	250	930	0.3	7.8	2020	2010	2.7	1690
JAN 27...	170	260	780	0.3	6.9	--	1800	2.4	1190
FEB 28...	170	270	410	0.3	8.0	1250	1230	1.7	1330
MAR 31...	170	220	250	0.3	7.4	--	887	1.2	1850
APR 29...	88	73	10	0.1	7.8	222	217	0.3	5720
MAY 23...	110	71	14	0.1	7.7	--	231	0.31	4420
JUN 22...	78	41	9.2	0.1	6.3	147	153	0.2	2680
JUL 22...	95	120	140	0.2	6.9	--	489	0.66	2040
AUG 30...	140	230	330	0.2	8.2	996	992	1.4	1550
SEP 06...	150	250	490	0.3	8.3	--	1290	1.7	1480

K Results based on colony count outside acceptable range (nonideal colony count).

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 18...	0.21	0.27	1.00	0.38	0.03	0.09	<0.01	<0.01	0.03
NOV 24...	--	--	--	0.34	--	--	--	<0.01	0.03
DEC 22...	0.77	0.99	1.40	0.25	0.06	0.18	0.02	0.01	0.03
JAN 27...	--	--	--	0.24	--	--	--	0.05	0.15
FEB 28...	0.52	0.67	2.50	0.25	0.56	1.7	0.01	0.01	0.03
MAR 31...	--	--	--	0.3	--	--	--	0.04	0.12
APR 29...	0.12	0.15	1.10	0.11	0.31	0.95	0.03	0.02	0.06
MAY 23...	--	--	--	<0.1	--	--	0.02	--	--
JUN 22...	0.06	0.08	0.8	0.12	0.07	0.21	0.03	0.03	0.09
JUL 22...	--	--	--	0.3	--	--	--	0.00	--
AUG 30...	0.07	0.09	1.70	0.52	0.06	0.18	0.02	0.00	--
SEP 06...	--	--	--	0.55	--	--	--	0.00	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 18...	1130	20	1	<100	<10	<2	<1	<2	<2	30	16
FEB 28...	1130	60	1	140	1	<1	<1	<3	1	23	<1
JUN 22...	1230	200	1	110	<1	<1	<1	<3	4	76	3
AUG 30...	1110	10	2	220	<1	<1	<1	--	--	--	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 18...	30	10	.1	4	<2	1	<2	1100	4.5	10
FEB 28...	56	10	.1	<10	2	1	<1	1400	<6.0	110
JUN 22...	13	6	4.2	<10	3	1	<1	270	<6.0	150
AUG 30...	36	8	.3	<10	4	1	1	1200	<6.0	80

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
NOV 24...	1230	140
JAN 27...	1215	100
MAR 31...	1230	70
MAY 23...	1100	30
JUL 22...	1100	40
SEP 06...	1230	100

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	2540	---	3690	---	---	---	350	290	320	830	1570
2	1430	2810	3200	4020	2400	2000	1380	380	280	320	---	1680
3	1590	3330	5080	4540	2520	1830	1040	410	280	330	1280	1740
4	1160	---	2240	---	2660	1890	830	---	280	330	1050	1850
5	1680	3330	2200	4240	2870	2040	860	360	290	330	1270	1920
6	---	3450	2050	3960	2610	1950	900	350	290	---	1180	2300
7	1610	3990	---	3810	2170	1890	980	330	290	340	1020	2350
8	1880	3930	2430	3540	---	---	1040	320	300	---	1220	2320
9	1530	---	3050	3310	---	1760	1140	310	300	350	1190	2520
10	1690	4080	2630	2910	2670	1800	1230	310	290	380	1080	2630
11	1640	3670	2260	---	2660	1830	---	320	310	360	1130	2700
12	---	---	2320	2620	2680	1830	1370	340	320	400	1160	---
13	1830	3100	2160	---	2700	1490	1240	---	310	420	760	2840
14	1820	3260	---	2500	2590	1390	1200	360	320	500	990	3130
15	---	2730	2100	2740	2690	1150	1120	370	350	570	1040	---
16	2160	3090	2220	2850	2970	---	1200	390	390	610	---	3310
17	2040	3140	2430	---	---	940	1260	---	380	700	870	3570
18	2270	---	2210	2700	3080	740	---	420	360	---	1160	4050
19	2280	3210	2290	3090	2790	850	1160	430	340	---	1060	4350
20	2290	3790	2490	2670	2490	870	890	450	280	810	1080	4340
21	2470	3750	---	---	2450	950	680	460	260	720	1120	4280
22	2480	---	2470	2530	---	---	520	430	260	740	980	4620
23	2480	4110	2820	2550	---	1100	500	370	260	---	1060	5050
24	2690	3700	2490	2590	2130	1150	450	340	280	---	1150	4820
25	---	3840	2460	2560	2430	1260	425	320	400	710	1320	4330
26	2540	3750	2490	2590	---	1330	410	320	---	---	1310	---
27	2320	---	2360	2940	2520	1430	415	300	390	---	920	5210
28	---	3580	2470	---	1980	---	370	290	320	730	1150	4800
29	1610	---	2880	2730	---	1470	340	300	320	740	1580	5120
30	2180	3890	---	2720	---	---	340	280	320	740	1700	4520
31	2320	---	3160	2720	---	1500	---	290	---	820	1670	---
MEAN	1970	---	2580	3080	---	1460	863	354	312	---	1150	3400

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	10.0	---	.0	---	---	---	12.0	14.0	17.0	23.0	24.0
2	15.0	9.0	4.0	.0	5.0	8.0	12.0	11.0	14.0	17.0	---	24.0
3	14.0	9.0	4.0	.0	3.0	8.0	12.0	10.0	14.0	17.0	23.0	24.0
4	14.0	---	4.0	---	3.0	8.0	12.0	---	14.0	17.0	23.0	24.0
5	14.0	8.0	4.0	.0	3.0	8.0	12.0	10.0	14.0	18.0	23.0	24.0
6	---	8.0	4.0	.0	3.0	8.0	12.0	10.0	15.0	---	23.0	21.5
7	14.0	7.0	---	.0	3.0	8.0	12.0	10.0	15.0	18.0	23.0	24.0
8	12.0	8.0	4.0	.0	---	---	12.0	11.0	15.0	---	23.0	24.0
9	12.0	---	4.0	.0	---	8.0	14.0	10.0	16.0	19.0	23.0	24.0
10	11.0	8.0	4.0	.0	4.0	8.0	14.0	9.0	16.0	20.0	23.0	24.0
11	11.0	8.0	5.0	---	4.0	8.0	---	10.0	16.0	22.0	23.0	24.0
12	---	---	5.0	.0	5.0	8.0	14.0	11.0	16.0	23.0	23.0	---
13	12.0	8.0	5.0	---	5.0	10.0	14.0	---	16.0	23.0	23.0	24.0
14	12.0	7.0	---	.0	5.0	12.0	14.0	11.0	15.0	23.0	23.0	24.0
15	---	7.0	5.0	.0	5.0	10.0	14.0	11.0	16.0	23.0	23.0	---
16	14.0	7.0	5.0	.0	5.0	---	14.0	10.0	17.0	23.0	---	24.0
17	14.0	6.0	5.0	---	---	10.0	14.0	---	17.0	23.0	23.0	24.0
18	14.0	---	5.0	.0	5.0	8.0	---	10.0	17.0	---	23.0	24.0
19	14.0	5.0	4.0	.0	5.0	8.0	14.0	10.0	17.0	---	23.0	24.0
20	12.0	5.0	3.0	2.0	5.0	8.0	15.0	11.0	17.0	23.0	24.0	23.0
21	11.0	5.0	---	---	7.0	8.0	15.0	11.0	17.0	23.0	24.0	19.0
22	11.0	---	3.0	3.0	---	---	15.0	11.0	16.0	23.0	24.0	19.0
23	11.0	5.0	3.0	4.0	---	6.0	15.0	14.0	16.0	---	24.0	18.0
24	11.0	5.0	3.0	5.0	9.0	6.0	15.0	11.0	16.0	---	24.0	20.0
25	---	5.0	2.0	6.0	9.0	6.0	15.0	14.0	16.0	23.0	24.0	20.0
26	11.0	5.0	.0	6.0	---	6.0	15.0	14.0	---	---	24.0	---
27	11.0	---	.0	6.0	9.0	6.0	15.0	15.0	17.0	---	24.0	20.0
28	---	5.0	.0	---	6.5	---	14.0	15.0	17.0	23.0	24.0	20.0
29	10.0	---	.0	5.0	---	12.0	14.0	15.0	17.0	23.0	24.0	20.0
30	10.0	4.0	---	5.0	---	---	11.0	15.0	17.0	23.0	24.0	20.0
31	10.0	---	.0	5.0	---	11.0	---	14.0	---	23.0	24.0	---
MEAN	12.5	---	3.5	2.0	---	8.5	13.5	11.5	16.0	---	23.5	22.5

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)		SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT							
18...	1130	389		10.5	81	66	69
DEC							
22...	1100	310		1.5	--	71	59
JAN							
27...	1215	244		1.5	--	75	49
FEB							
28...	1130	393		6.5	97	1070	1140
MAR							
31...	1230	774		10.5	--	341	713
APR							
29...	1130	9550		8.5	36	6170	159000
MAY							
23...	1100	7080		14.0	--	3020	57700
JUN							
22...	1230	6760		16.5	80	1080	19700
AUG							
30...	1110	575		20.0	89	447	694

09180500 COLORADO RIVER NEAR CISCO, UT

LOCATION.--Lat 38°48'38", long 109°17'34", in NW1/4NW1/4 sec.17, T.23 S., R.24 E., Grand County, Hydrologic Unit 14030005, on left bank 1 mi downstream from Dolores River, 11 mi south of Cisco, 36 mi downstream from Colorado-Utah State line, 97 mi upstream from Green River, and 235 mi upstream from San Juan River, at mile 1,022.3.

DRAINAGE AREA.--24,100 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1895 to current year (1895 to 1910, calender-year estimates only). Monthly discharge only for some periods, published in WSP 1313. Published as Grand River near Moab, October 1913 to November 1914, and as Grand River near Cisco, November 1914 to September 1917.

REVISED RECORDS.--WSP 918: 1913, 1937. WSP 1313: 1918-22.

GAGE.--Water-stage recorder. Altitude of gage is 4,090 ft from river-profile map. Prior to Nov. 10, 1914, several staff and chain gages at bridge near Moab, 31 mi downstream at datum, 3,937.73 ft above mean sea level.

REMARKS.--Records good. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir (see station 09124600) since Nov. 27, 1965.

AVERAGE DISCHARGE.--72 years (1911-83), 7,563 ft^3/s, 5,479,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft^3/s June 19, 1917, gage height, 19.7 ft; minimum recorded, 558 ft^3/s July 21, 1934, gage height, 0.44 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on July 4, 1884 reached a discharge of about 125,000 ft^3/s, from flood record at Fruita, Colo.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 26,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 12	0215	30,400	10.92
June 1	2345	57,800	18.19
June 27	2300	*61,900	19.23

Minimum, 3,040 ft^3/s Jan. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6770	6140	5210	3660	4150	4540	4770	19000	56500	48600	14600	6740
2	7280	6320	5370	3710	4070	4800	5400	16700	55200	45500	14900	6720
3	7080	5870	5310	3700	4050	4700	5310	14600	51800	41200	14600	6690
4	6770	4830	5000	3800	3980	4760	5210	13800	46100	39400	13800	6350
5	6630	3890	4820	3900	3920	4640	5210	15600	42400	38800	13800	6150
6	6380	4660	4850	4000	4060	4750	4650	18000	42200	36000	14000	6120
7	6070	5360	4890	4200	4100	4630	4130	18600	39800	33000	14300	5900
8	5900	5330	4940	4100	4130	4450	4140	17700	38400	33300	14100	5820
9	5930	5750	4870	4300	4100	4360	3920	20100	38400	34000	13700	5790
10	5960	5910	4860	4100	4290	4470	3740	24200	39400	33800	13100	5790
11	5820	6230	4870	4000	3850	4290	3760	27800	39300	33600	12700	5470
12	5980	6500	4920	4000	3630	4460	3830	28900	41000	32900	12700	5310
13	5680	6050	4810	3900	4010	4610	4030	23700	47000	31000	12100	5160
14	5710	5750	4590	3900	4050	5180	4040	22200	40000	29900	11400	5100
15	5660	5530	4580	4000	4150	6100	4000	20400	35000	28700	11400	4980
16	5470	5240	4630	4100	4100	6450	3850	19700	34000	25800	10500	4730
17	5500	5230	4340	4130	4100	6010	3890	20700	36000	23700	10100	4700
18	5470	5370	4810	4290	4120	5480	4020	19900	38000	21800	9650	4410
19	5440	5430	4730	4420	4200	5370	4580	18500	42000	20000	9800	4080
20	5680	5740	4480	4430	4280	5260	6600	18600	46000	18900	9570	4050
21	5760	5660	4490	4340	4240	5090	8500	18600	48000	17900	10200	4050
22	5800	5480	4650	4410	4200	4790	9210	18900	48700	19900	9880	4220
23	5700	5240	4900	4190	4170	4740	9380	22400	49600	21300	9250	4880
24	5660	5170	4930	4190	4270	4850	10400	26300	49900	21800	8330	4380
25	5610	4920	4780	4210	4300	4930	13500	31000	52000	20400	7990	4290
26	5610	4760	4380	4250	4440	4800	17300	36200	55400	19700	8200	4460
27	6050	4950	3940	4230	4480	4630	18200	39500	60500	19000	7110	4600
28	7700	4890	3820	4100	4470	4450	16700	43600	59700	18500	6570	4780
29	6620	4890	4060	4190	---	4520	16100	48100	56900	17200	6690	4680
30	5900	4880	3930	4200	---	4390	17600	51300	52400	16200	6770	4850
31	5770	---	3830	4160	---	4170	---	53400	---	15100	7280	---
TOTAL	187360	161970	144590	127110	115910	150670	225970	788000	1381600	856900	339090	155250
MEAN	6044	5399	4664	4100	4140	4860	7532	25420	46050	27640	10940	5175
MAX	7700	6500	5370	4430	4480	6450	18200	53400	60500	48600	14900	6740
MIN	5440	3890	3820	3660	3630	4170	3740	13800	34000	15100	6570	4050
AC-FT	371600	321300	286800	252100	229900	298900	448200	1563000	2740000	1700000	672600	307900

CAL YR 1982	TOTAL	2676450	MEAN	7333	MAX	22200	MIN	2080	AC-FT	5309000
WTR YR 1983	TOTAL	4634420	MEAN	12700	MAX	60500	MIN	3630	AC-FT	9192000

09180500 COLORADO RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1928 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1941 to September 1952, October 1954 to September 1981, March 1982 to current year.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1930 to current year.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 4,820 micromhos Dec. 13, 1957; minimum daily, 291 micromhos May 31, 1953.
WATER TEMPERATURES: Maximum, 29.0°C July 29, 1966; minimum, 0.0°C on many days during winter period most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 69,000 mg/L Oct. 27, 1951; minimum daily mean, 4 mg/L Aug. 22, 1960.
SEDIMENT LOADS: Maximum daily, 2,790,000 tons Oct. 14, 1941; minimum daily, 14 tons Aug. 22, 1960.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,350 micromhos Sept. 27; minimum observed, 290 micromhos June 21.
WATER TEMPERATURES: Maximum, 23.0°C many days during August and September; minimum, 0.0°C several days during December and January.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,050 mg/L Aug. 12; minimum daily mean, 19 mg/L Nov. 26.
SEDIMENT LOADS: Maximum daily, 562,000 tons June 26; minimum daily, 244 tons Nov. 26, Feb. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
21...	1100	6080	1030	8.3	10.5	8.5	16	10.6	661	84
NOV										
22...	1300	5460	1140	8.2	7.0	5.0	--	--	--	--
DEC										
27...	1100	4120	1010	8.0	-5.5	.0	15	--	660	<1
JAN										
24...	1330	4220	1100	8.2	6.0	3.0	--	--	--	--
FEB										
24...	1135	4350	980	8.3	6.5	6.0	40	13.1	557	<1
MAR										
25...	0930	4880	1100	8.2	9.0	6.0	--	10.2	640	--
APR										
27...	1100	18200	390	7.9	19.5	8.5	1700	9.6	656	<1
MAY										
26...	1045	40700	340	8.2	26.0	14.0	--	8.8	640	--
JUN										
21...	1300	45700	290	8.0	35.0	15.0	250	8.4	656	K34
JUL										
22...	1200	18800	620	8.2	30.5	21.5	--	7.3	650	--
AUG										
26...	1100	8810	880	8.1	21.5	20.5	310	7.5	659	K90
SEP										
06...	1100	6080	1090	8.4	24.0	20.0	--	7.5	650	--

K Results based on colony count outside acceptable range (nonideal colony count).

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 21...	160	319	180	81	28	97	40	2.4	4.1
NOV 22...	--	342	200	86	31	120	43	2.9	4.5
DEC 27...	K12	310	160	78	28	110	43	2.8	4.4
JAN 24...	--	289	150	73	26	100	43	2.6	3.9
FEB 24...	K110	287	150	70	27	110	45	2.9	4.4
MAR 25...	--	328	--	82	30	110	42	2.7	4.1
APR 27...	<1	161	--	46	11	23	24	.8	1.7
MAY 26...	--	143	--	39	11	18	21	.7	2.2
JUN 21...	K26	125	--	35	9.1	18	24	.7	1.0
JUL 22...	--	185	--	51	14	44	34	1.5	2.6
AUG 26...	170	303	--	78	26	76	35	2.0	3.2
SEP 06...	--	361	--	95	30	98	37	2.3	4.3

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 21...	140	260	110	.3	9.0	676	674	.92	11100
NOV 22...	147	250	130	.3	10	--	720	.98	10600
DEC 27...	148	230	120	.3	9.4	700	669	.95	7790
JAN 24...	143	210	120	.3	9.3	--	628	.85	7160
FEB 24...	143	210	120	.3	9.8	660	638	.90	7750
MAR 25...	158	230	110	.3	9.6	--	671	.91	8840
APR 27...	83	90	16	.2	7.8	243	247	.33	11900
MAY 26...	99	69	11	.2	8.6	--	218	.30	24000
JUN 21...	86	65	11	.2	9.3	197	200	.27	24300
JUL 22...	100	120	47	.2	9.1	--	348	.47	17700
AUG 26...	136	230	73	.3	12	587	581	.80	14000
SEP 06...	147	270	110	.4	10	--	706	.96	11600

K Results based on coloiy count outside acceptable range (nonideal colony count).

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 21...	0.10	0.13	2.10	0.40	0.03	0.09	--	<0.01	--
NOV 22...	--	--	--	0.57	--	--	--	<0.01	--
DEC 27...	0.13	0.17	0.90	0.51	0.06	0.18	0.04	0.02	0.06
JAN 24...	--	--	--	0.40	--	--	--	0.05	0.15
FEB 24...	0.22	0.28	0.80	0.42	0.10	0.31	0.03	0.02	0.06
MAR 25...	0.10	0.13	2.10	0.40	0.03	--	0.03	<0.01	--
APR 27...	0.12	0.15	1.90	0.16	0.34	1.0	0.02	0.02	0.06
MAY 26...	--	--	--	0.26	--	--	--	<0.01	--
JUN 21...	--	--	--	--	--	--	--	--	--
JUL 22...	--	--	--	0.37	--	--	--	0.02	0.06
AUG 26...	0.04	0.05	0.30	0.65	0.40	1.2	0.03	0.01	0.03
SEP 06...	--	--	--	0.62	--	--	--	0.01	0.03

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 21...	1100	<10	1	55	<1	<1	<1	<3	1	5	3
FEB 24...	1135	10	1	66	<1	<1	<1	<3	<1	4	<1
APR 27...	1100	--	1	130	<1	<1	<1	<3	1	77	1
AUG 26...	1100	<10	5	130	<1	<1	<1	<3	3	12	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 21...	46	4	<.1	<10	1	5	<1	900	<6.0	4
FEB 24...	41	11	.1	<10	3	4	<1	780	<6.0	25
APR 27...	19	20	2.5	<10	<1	2	<1	410	<6.0	220
AUG 26...	34	2	.4	<10	3	6	1	860	17	100

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
NOV 22...	1300	70
JAN 24...	1330	70
MAR 25...	0930	60
MAY 26...	1045	30
JUL 22...	1200	40
SEP 06...	1100	80

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	TRITIUM IN WATER MOLECULES (TU)	TRITIUM WATER MOLECULES COUNT ERROR (TU)
OCT 31...	1645	53.6	4.5
NOV 30...	1515	66.4	4.6
DEC 30...	2100	57.8	2.3
JAN 30...	1700	53.7	2.1

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	1040	1090	1140	---	970	1030	610	400	330	680	960
2	1000	1090	1040	1150	1000	970	1020	630	380	330	620	940
3	980	1070	1110	1200	1000	960	990	680	370	340	790	970
4	960	1110	1040	1230	1010	1000	1000	700	380	330	670	990
5	1030	1160	1000	1180	1060	990	1030	700	380	330	670	1010
6	---	1200	1000	1100	990	980	1020	650	360	340	690	1090
7	990	1230	---	1160	980	960	1020	620	380	360	660	1020
8	1020	1110	1020	1090	1050	960	1000	630	380	370	600	1020
9	1020	1050	1060	1000	1060	960	1050	600	380	360	640	1020
10	1010	1050	1070	1010	990	950	1070	550	370	360	720	1040
11	1020	1070	1020	990	1040	930	---	520	370	360	700	1060
12	1030	1070	1020	990	1040	980	1040	490	360	350	750	---
13	1030	1090	1020	980	1090	970	1050	510	370	360	770	1100
14	1040	1070	---	1030	1080	960	1040	500	380	370	820	1140
15	1040	1010	1020	1030	1030	960	1060	530	400	370	790	1130
16	1040	1040	1020	1060	1010	900	1070	540	410	400	810	1130
17	1050	1060	1050	---	990	930	1080	---	390	440	810	1160
18	1020	1060	1010	1030	1040	940	1050	660	380	460	800	1210
19	1050	1040	1030	1060	1010	920	1040	670	350	470	830	1240
20	1030	1060	1020	1000	1040	910	970	660	360	480	850	1260
21	960	1050	1020	990	990	960	890	660	340	510	830	1270
22	950	1140	1010	1000	990	1000	870	640	320	620	850	1310
23	980	1080	1020	1030	990	1000	840	530	310	900	860	1290
24	970	1060	1080	1050	970	1000	770	550	310	---	860	1270
25	980	1090	1030	1080	960	1010	740	510	410	580	880	1260
26	960	1100	1000	1000	---	1020	650	490	390	550	930	1310
27	1010	1070	1000	1030	---	1000	660	450	380	570	880	1350
28	1010	1110	990	1020	---	1010	590	420	350	590	920	1280
29	1100	1070	1050	990	---	1010	590	420	330	590	940	1270
30	1070	---	---	---	---	990	---	410	---	600	980	---
31	---	---	1280	1020	---	---	---	---	---	---	---	---
MEAN	1010	1080	1040	1060	1020	970	937	570	369	449	787	1150

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	9.0	4.0	.0	---	9.0	10.0	12.0	14.0	16.0	20.0	23.0
2	14.0	8.0	4.0	.0	4.0	8.0	10.0	12.0	14.0	17.0	20.0	23.0
3	14.0	8.0	4.0	.0	3.0	8.0	10.0	12.0	14.0	17.0	20.0	23.0
4	14.0	8.0	4.0	.0	3.0	8.0	10.0	12.0	14.0	17.0	21.0	23.0
5	12.0	7.0	4.0	.0	3.0	8.0	10.0	12.0	14.0	17.0	21.0	23.0
6	---	7.0	4.0	.0	3.0	8.0	10.0	14.0	15.0	17.0	21.0	20.0
7	12.0	7.0	---	.0	3.0	8.0	11.0	14.0	15.0	17.0	21.0	23.0
8	11.0	7.0	4.0	.0	3.0	8.0	11.0	12.0	15.0	17.0	21.0	23.0
9	11.0	7.0	4.0	.0	3.0	8.0	12.0	12.0	15.0	19.0	21.0	23.0
10	10.0	7.0	4.0	.0	4.0	8.0	12.0	14.0	15.0	19.0	21.0	23.0
11	10.0	7.0	4.0	.0	4.0	10.0	---	14.0	16.0	21.0	21.0	23.0
12	10.0	7.0	4.0	.0	4.0	10.0	12.0	12.0	16.0	20.0	21.0	---
13	11.0	7.0	4.0	.0	5.0	12.0	12.0	12.0	16.0	20.0	21.0	23.0
14	11.0	6.0	---	.0	5.0	11.0	12.0	12.0	14.0	20.0	21.0	23.0
15	12.0	6.0	4.0	.0	5.0	10.0	12.0	12.0	16.0	20.0	21.0	23.0
16	12.0	6.0	4.0	.0	5.0	10.0	12.0	11.0	16.0	21.0	21.0	23.0
17	12.0	6.0	4.0	---	5.0	10.0	12.0	---	17.0	20.0	21.0	23.0
18	12.0	6.0	3.0	.0	5.0	9.0	12.0	10.0	16.0	20.0	21.0	23.0
19	12.0	6.0	3.0	2.0	5.0	8.0	12.0	12.0	16.0	20.0	21.0	23.0
20	12.0	5.0	3.0	2.0	5.0	8.0	14.0	12.0	16.0	20.0	21.0	22.0
21	10.0	5.0	3.0	3.0	7.0	7.0	14.0	12.0	16.0	21.0	22.0	18.0
22	10.0	5.0	3.0	3.0	8.0	7.0	14.0	12.0	16.0	21.5	23.0	18.0
23	10.0	4.0	3.0	3.0	8.0	7.0	14.0	12.0	16.0	20.0	23.0	17.0
24	10.0	4.0	3.0	5.0	9.0	6.0	14.0	12.0	16.0	---	23.0	17.0
25	10.0	4.0	3.0	5.0	9.0	6.0	14.0	15.0	16.0	21.0	23.0	18.0
26	10.0	4.0	2.0	6.0	---	6.0	14.0	15.0	17.0	21.0	23.0	17.0
27	10.0	4.0	.0	6.0	9.0	6.0	14.0	15.0	17.0	21.0	23.0	17.0
28	9.0	4.0	.0	6.0	---	10.0	12.0	15.0	17.0	20.0	23.0	17.0
29	9.0	4.0	.0	4.0	---	6.0	12.0	15.0	17.0	20.0	23.0	17.0
30	9.0	4.0	.0	---	---	10.0	12.0	15.0	16.0	20.0	23.0	17.0
31	9.0	---	.0	4.0	---	10.0	---	14.0	---	20.0	23.0	---
MEAN	11.0	6.0	3.0	1.5	5.0	8.5	12.0	13.0	15.5	19.5	21.5	21.0

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	750	13700	510	8450	49	689	135	1330	48	538	148	1810
2	560	11000	740	12600	30	435	133	1330	40	440	404	5240
3	590	11300	525	8320	75	1080	300	3000	52	569	637	8080
4	410	7490	270	3520	58	783	140	1440	38	408	523	6720
5	870	15600	100	1050	41	534	127	1340	26	275	449	5630
6	500	8610	145	1820	38	498	134	1450	27	296	398	5100
7	214	3510	100	1450	42	555	141	1600	26	288	379	4740
8	154	2450	60	863	43	574	150	1660	23	256	251	3020
9	131	2100	150	2330	39	513	195	2260	22	244	201	2370
10	150	2410	75	1200	33	433	210	2320	40	463	224	2700
11	114	1790	600	10100	30	394	195	2110	27	281	350	4050
12	98	1580	870	15300	54	717	129	1390	76	745	575	6920
13	69	1060	820	13400	48	623	86	906	90	974	450	5600
14	97	1500	295	4580	42	521	48	505	67	733	650	9090
15	77	1180	120	1790	71	878	29	313	66	740	1220	20100
16	58	857	60	849	74	925	43	476	67	742	1780	31000
17	55	817	50	706	63	738	60	669	96	1060	1570	25500
18	39	576	45	652	67	870	60	695	85	946	860	12700
19	20	294	49	718	41	524	57	680	117	1330	600	8700
20	40	613	95	1470	29	351	66	789	124	1430	360	5110
21	43	669	305	4660	38	461	58	680	111	1270	350	4810
22	43	673	125	1850	30	377	48	572	100	1130	260	3360
23	35	539	87	1230	37	490	34	385	102	1150	920	11800
24	29	443	54	754	36	479	34	385	102	1180	1000	13100
25	22	333	38	505	35	452	39	443	101	1170	400	5320
26	31	470	19	244	48	568	35	402	135	1620	325	4210
27	2020	33000	27	361	32	340	34	388	189	2290	285	3560
28	3340	69400	24	317	58	598	24	266	148	1790	370	4450
29	2700	48300	24	317	43	471	30	339	---	---	300	3660
30	810	12900	42	553	43	456	31	352	---	---	295	3500
31	250	3890	---	---	35	362	48	539	---	---	240	2700
TOTAL	---	259054	---	101959	---	17689	---	31014	---	24358	---	234650

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	475	6120	2950	151000	2280	348000	750	98400	730	28800	220	4000
2	840	12200	3140	142000	1890	282000	710	87200	1110	44700	270	4900
3	980	14100	2470	97400	2000	280000	720	80100	2500	98600	220	3970
4	725	10200	1930	71900	1820	227000	690	73400	1940	72300	200	3430
5	540	7600	2460	104000	1600	183000	660	69100	1620	60400	190	3150
6	365	4580	2670	130000	1560	178000	740	71900	1450	54800	210	3470
7	225	2510	2600	131000	1310	141000	790	70400	890	34400	237	3780
8	220	2460	2110	101000	1300	135000	840	75500	1150	43800	120	1890
9	225	2380	2650	144000	1290	134000	900	82600	1000	37000	109	1700
10	230	2320	3420	223000	1150	122000	1190	109000	2940	104000	137	2140
11	220	2230	4370	328000	1040	110000	895	81200	6250	214000	142	2100
12	225	2330	4890	382000	1040	115000	750	66600	9050	310000	128	1840
13	255	2770	3570	228000	1220	155000	725	60700	3200	105000	110	1530
14	445	4850	2830	170000	1050	113000	745	60100	3200	98500	89	1230
15	450	4860	2220	122000	995	94000	650	50400	2850	87700	65	874
16	275	2860	1900	101000	985	90400	700	48800	2000	56700	52	664
17	280	2940	2850	159000	890	86500	900	57600	1460	39800	70	888
18	305	3310	2700	145000	890	91300	975	57400	850	22100	47	560
19	595	7360	2110	105000	920	104000	875	47300	1770	46800	30	330
20	3820	68100	1910	95900	1100	137000	730	37300	1220	31500	30	328
21	5470	126000	1780	89400	1100	143000	710	34300	925	25500	38	416
22	5000	124000	1740	88800	1220	160000	1850	99400	665	17700	42	479
23	3150	79800	2400	145000	1100	147000	5540	319000	810	20200	50	659
24	3850	108000	3080	219000	1380	186000	4950	291000	615	13800	30	355
25	5110	186000	3460	290000	2950	414000	4040	223000	420	9060	25	290
26	5740	268000	4030	394000	3760	562000	3990	212000	1370	30300	38	458
27	3950	194000	3950	421000	2210	361000	3220	165000	1100	21100	41	509
28	2990	135000	3460	407000	1440	232000	2290	114000	510	9050	145	1870
29	2730	119000	3310	430000	990	152000	1330	61800	300	5420	91	1150
30	2690	128000	2950	409000	815	115000	820	35900	230	4200	120	1570
31	---	---	2560	369000	---	---	730	29800	295	5800	---	---
TOTAL	---	1633880	---	6393400	---	5598200	---	2970200	---	1753030	---	50530

TOTAL LOAD FOR YEAR: 19067964 TONS.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
JAN 24...	1330	4210	3.0	59	41	466	--	--	--	--
MAR 25...	0930	4880	6.0	--	318	4190	42	54	79	93
MAY 26...	1045	38800	14.0	--	3770	395000	27	32	56	78
JUL 22...	1200	18800	21.5	--	746	37900	14	20	36	56
SEP 06...	1100	6080	20.0	76	127	2080	--	--	--	--
FEB 24...	1200	4350	6.0	--	76	893	41	50	65	92
APR 27...	1130	18300	8.5	--	3780	187000	22	26	43	64
JUN 21...	1400	48700	15.0	--	848	112000	27	36	59	83
AUG 26...	1200	9060	20.5	--	3040	74400	45	58	81	90

09183000 COURTHOUSE WASH NEAR MOAB, UT

LOCATION.--Lat 38°36'46", long 109°34'45", in NE1/4NE1/4SE14 sec.22, T.25 S., R.21 E., Grand County, Hydrologic Unit 14030005, on left bank 0.6 mi upstream from bridge on U.S. Highway 160, 0.8 mi upstream from mouth and 3.0 mi northwest of Moab.

DRAINAGE AREA.--162 mi^2.

PERIOD OF RECORD.--October 1949 to September 1955, April to September 1957, July 1966 to current year. Records for station at site 5 mi upstream published as "at Arches Highway Crossing near Moab" September 1958 to July 1966, not equivalent at all times due to possibility that some summer storm runoff would be from intermediate area.

GAGE.--Water-stage recorder. Altitude of gage is 3,980 ft from river-profile map.

REMARKS.--Records fair. No regulation or diversions above station.

AVERAGE DISCHARGE.--23 years (1949-55, 1967-83), 1.86 ft^3/s, 1,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft^3/s Aug. 5, 1957, gage height, 9.38 ft, from rating curve extended above 500 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 27	unknown	1,270	3.00
Aug. 11	2300	*7,690	3.40

No flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	2.7	1.2	.23	1.4	.76	.76	.34	.10	.05	.62	.11
2	.15	.78	.55	.26	1.2	.76	.90	.25	.09	.04	.25	.12
3	.15	.20	.29	.20	1.4	.90	1.1	.25	.11	.06	.10	.10
4	.15	.18	.34	.22	.76	1.6	.90	.21	.10	.06	.12	.09
5	.15	.18	.25	.27	.65	1.1	.90	.21	.10	.08	.14	.08
6	.15	.18	.21	.38	.55	.90	.90	.21	.10	.05	.11	.07
7	.14	.18	.25	.43	.76	.76	.90	.25	.11	.67	.10	.07
8	.12	.18	.21	.49	.76	.90	1.1	.15	.10	.28	.09	.10
9	.13	.60	.21	.50	.76	.90	1.1	.15	.10	43	.11	.10
10	.14	.45	.25	.48	.59	.90	.90	.15	.09	1.5	3.9	.12
11	.14	.54	.25	.50	.46	1.1	1.1	.18	.09	.07	96	.12
12	.14	.38	.18	.52	.43	1.0	1.9	.15	102	.08	4.0	.11
13	.14	.47	.21	.56	.52	1.0	2.4	.14	4.4	.05	5.2	.12
14	.14	.23	1.1	.64	.61	4.8	.90	.14	.18	.04	6.3	.08
15	.14	.32	.92	.80	.46	5.4	.65	.14	.14	.08	3.2	.10
16	.15	.44	.81	.96	.51	1.2	.65	2.2	.12	.07	.95	.10
17	.14	.48	.72	1.3	.54	1.2	.55	3.6	.11	.04	.50	.10
18	.13	.50	.76	1.4	.69	2.7	.65	.29	.10	.05	.32	.10
19	.14	1.2	1.1	2.1	9.9	11	.65	.64	.11	.08	28	.10
20	.16	1.2	.90	1.9	.90	1.4	.62	.98	.10	.07	1.2	.07
21	.16	.55	1.4	1.9	.65	.97	.82	.25	.11	.06	.80	.10
22	.16	.34	1.2	1.6	.65	.95	.45	.10	.11	.08	.19	.10
23	.18	.25	2.7	1.6	.65	1.4	.44	.07	.10	37	.14	.09
24	.18	.15	1.2	1.2	.65	2.4	.33	.06	.10	1.3	.10	.10
25	.18	.15	.25	2.4	.65	1.4	.21	.07	.09	.61	.11	.10
26	.27	.15	.25	1.2	.65	.90	.25	.08	.09	.55	.12	.10
27	16	.34	.29	1.4	.76	.76	.25	.10	.10	63	.11	.09
28	.40	.55	.30	1.4	.76	.76	.29	.11	.07	13	.10	.10
29	.18	.90	.24	.90	---	1.1	.40	.09	.06	1.7	.09	.10
30	.18	.29	.20	.65	---	.90	.76	.11	.05	.72	.11	.12
31	1.0	---	.25	.90	---	.90	---	.11	---	.68	.13	---
TOTAL	21.74	15.06	18.99	29.29	29.27	52.72	23.73	11.78	109.23	165.12	153.21	2.96
MEAN	.70	.50	.61	.94	1.05	1.70	.79	.38	3.64	5.33	4.94	.10
MAX	16	2.7	2.7	2.4	9.9	11	2.4	3.6	102	63	96	.12
MIN	.12	.15	.18	.20	.43	.76	.21	.06	.05	.04	.09	.07
AC-FT	43	30	38	58	58	105	47	23	217	328	304	5.9

CAL YR 1982	TOTAL	988.22	MEAN	2.71	MAX	220	MIN	.03	AC-FT	1960
WTR YR 1983	TOTAL	633.10	MEAN	1.73	MAX	102	MIN	.04	AC-FT	1260

NOTE.--No gage-height record July 13 to Sept. 28.

09184000 MILL CREEK NEAR MOAB, UT

LOCATION.--Lat 38°33'44", long 109°30'48", in NW1/4NW1/4NE1/4 sec.8, T.26 S., R.22 E., Grand County, Hydrologic Unit 14030005, on right bank 0.5 mi downstream from North Fork, 1.5 mi southeast of Moab, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--74.9 mi^2.

PERIOD OF RECORD.--October 1914 (fragmentary), November 1914, February to September 1915, October to November 1915, February to March 1916, June 1916 to June 1917, April to July 1918 (fragmentary), April to July 1919, July 1949 to September 1971. October 1972 to current year.

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 4,240 ft from topographic map. Prior to Apr. 28, 1918, nonrecording gage and Apr. 28, 1918 to Aug. 2, 1919, July 1949 to Mar. 15, 1962, water-stage recorder, 0.4 mi upstream at various datums.

REMARKS.--Records good. Diversion into Sheley Tunnel, for storage in K. E. McDougald Reservoir began in March 1981. Diversion approximately 6.0 mi above station. Records do not include approximately 4,080 acre-ft diverted during the 1983 water year.

AVERAGE DISCHARGE.--30 years (1950-71, 1973-80), 14.3 ft^3/s, 10,360 acre-ft/yr, prior to diversion to Sheley Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, about 5,110 ft^3/s Aug. 21, 1953, gage height, 10.74 ft from floodmark, site and datum then in use from rating curve extended above 700 ft^3/s on basis of slope-area measurements at gage heights 8.24 ft, 8.62 ft, 9.81 ft, and 11.1 ft; maximum gage height, 11.6 ft Aug. 26, 1961, site and datum then in use; minimum recorded, 0.2 ft^3/s Feb. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 25	1730	*610	3.70
Aug. 14	1930	387	3.19

Minimum daily, 3.4 ft^3/s Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	14	14	10	4.5	5.9	6.1	11	130	82	20	9.0
2	9.9	14	13	10	4.8	6.0	4.6	8.4	147	88	15	9.6
3	9.9	13	12	11	5.3	6.2	4.3	13	132	89	14	8.7
4	8.4	13	13	11	4.1	6.4	4.0	16	124	88	16	7.9
5	7.0	13	12	11	3.8	6.4	5.0	19	112	81	21	7.4
6	13	13	13	12	3.6	6.2	5.2	15	104	75	17	6.9
7	13	13	13	13	3.8	6.0	5.1	13	97	70	16	6.7
8	13	13	13	13	4.0	5.8	5.2	28	95	66	15	11
9	13	14	13	13	3.8	5.7	6.0	82	94	69	17	11
10	13	14	13	12	3.6	5.4	5.8	83	95	63	24	13
11	13	15	13	7.3	3.4	5.4	5.9	59	104	64	20	13
12	13	12	12	7.0	8.3	5.5	5.7	13	136	63	28	12
13	13	14	13	7.8	9.1	5.7	6.0	12	111	51	61	11
14	13	11	11	7.5	8.6	11	6.4	9.9	90	43	88	12
15	12	12	12	7.5	6.4	10	6.3	8.6	80	36	81	8.5
16	11	13	12	7.5	6.5	11	5.7	18	84	32	28	7.9
17	11	14	13	7.8	6.8	10	5.9	16	90	29	23	7.8
18	11	14	13	7.5	7.2	14	6.4	9.5	91	25	25	7.5
19	8.4	14	11	6.0	25	32	6.5	16	117	25	41	16
20	6.9	14	12	5.8	13	9.0	8.1	16	131	30	26	22
21	6.9	14	13	5.8	6.6	6.4	8.2	18	135	24	20	13
22	6.4	13	14	5.7	6.5	5.7	7.5	32	135	24	17	11
23	5.1	12	16	5.7	6.6	6.3	7.4	50	133	32	16	11
24	5.4	13	12	5.6	6.2	6.8	13	75	130	24	15	10
25	5.4	14	7.1	6.0	5.8	6.1	30	91	153	21	16	10
26	6.4	13	6.8	5.6	5.6	5.5	18	103	129	19	17	10
27	41	13	10	5.7	5.8	5.1	15	104	95	23	12	11
28	15	13	9.9	5.8	6.0	5.9	12	110	50	26	9.1	11
29	14	13	9.0	5.0	---	5.6	14	124	49	18	8.2	8.8
30	14	17	9.9	4.8	---	4.9	20	130	54	25	8.7	12
31	15	---	9.9	4.5	---	7.3	---	141	---	43	9.4	---
TOTAL	356.8	402	368.6	247.9	184.7	239.2	259.3	1444.4	3227	1448	744.4	316.7
MEAN	11.5	13.4	11.9	8.00	6.60	7.72	8.64	46.6	108	46.7	24.0	10.6
MAX	41	17	16	13	25	32	30	141	153	89	88	22
MIN	5.1	11	6.8	4.5	3.4	4.9	4.0	8.4	49	18	8.2	6.7
AC-FT	708	797	731	492	366	474	514	2860	6400	2870	1480	628

CAL YR 1982	TOTAL	3557.5	MEAN	9.75	MAX	58	MIN	2.7	AC-FT	7060
WTR YR 1983	TOTAL	9239.0	MEAN	25.3	MAX	153	MIN	3.4	AC-FT	18330

NOTE.--No gage-height record Feb. 16 to Mar. 21.

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT

LOCATION.--Lat 38°09'06", long 109°37'30", in SE1/4NW1/4, sec.28, T.30 S., R.21 E., San Juan County, Hydrologic Unit 14030005, on left bank, 4 mi east of Canyonlands National Park, the Needles Section.

DRAINAGE AREA.--262 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to September 1983.

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft from topographic map.

REMARKS.--Records poor. Diversions for irrigation of 600 acres above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,980 ft^3/s July 23, gage height, 10.0 ft; minimum daily, 0.45 ft^3/s Sept. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	13	70	170	58	25	6.0
2						---	11	60	160	55	17	4.1
3						---	13	50	155	50	20	3.2
4						---	13	70	140	49	10	2.9
5						---	12	80	120	45	30	2.7
6						---	12	100	120	43	15	2.5
7						---	10	80	118	40	20	2.4
8						---	9.7	100	115	40	23	2.5
9						---	11	120	110	47	25	2.0
10						---	11	115	105	55	20	1.6
11						---	12	100	100	40	50	1.7
12						---	12	96	100	37	17	1.4
13						---	14	81	110	30	2.0	1.2
14						---	12	71	100	30	1.5	.96
15						---	14	65	90	28	2.0	1.0
16						---	13	65	85	28	5.0	.95
17						---	12	66	75	25	2.0	.82
18						11	13	56	70	20	1.5	.92
19						11	14	57	70	50	1.3	.90
20						9.9	17	57	80	10	1.1	.80
21						9.6	21	51	70	9.0	1.0	.70
22						12	22	56	65	15	1.1	.60
23						11	24	71	60	80	1.1	.60
24						11	40	100	70	50	1.1	.50
25						8.9	100	106	90	15	1.1	.45
26						8.9	95	110	110	50	1.0	.45
27						9.5	80	132	130	13	.97	5.0
28						12	60	165	100	15	1.1	2.8
29						12	60	171	65	12	14	2.2
30						10	80	189	62	10	10	49
31						11	---	200	---	30	9.0	---
TOTAL						---	830.7	2910	3015	1079.0	329.87	102.85
MEAN						---	27.7	93.9	101	34.8	10.6	3.43
MAX						---	100	200	170	80	50	49
MIN						---	9.7	50	60	9.0	.97	.45
AC-FT						---	1650	5770	5980	2140	654	204

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March to September 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR 18...	1130	10	700	8.4	5.0	4.5	267	1.0	54	32	68
APR 07...	1340	10	640	8.3	10.0	13.0	267	--	56	31	55
MAY 12...	1240	96	310	8.3	19.5	11.0	153	--	43	11	15
JUN 29...	1050	70	260	8.5	28.0	28.0	126	--	36	8.8	12
JUL 27...	1000	10	580	8.6	26.0	23.0	211	--	50	21	37
AUG 23...	1140	1.1	920	8.6	28.0	24.0	297	--	53	40	93
SEP 01...	1330	6.4	450	8.3	32.5	25.5	186	--	45	18	30

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
MAR 18...	35	1.9	2.3	267	90	49	.3	12	468	<.10	0.02
APR 07...	31	1.5	2.9	251	74	38	.2	13	421	<.10	0.03
MAY 12...	17	.5	1.7	138	30	8.3	.2	10	202	<.10	0.02
JUN 29...	17	.5	1.1	120	23	5.0	.2	9.7	168	<.10	0.12
JUL 27...	27	1.1	3.7	215	62	21	.2	12	336	<.10	0.05
AUG 23...	40	2.4	5.0	292	120	57	.1	15	558	<.10	<0.01
SEP 01...	26	1.0	2.7	176	65	16	.2	11	294	1.0	0.02

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
MAR 18...	1130	110
APR 07...	1340	80
MAY 12...	1240	40
JUN 29...	1050	30
JUL 27...	1000	90
AUG 23...	1140	270
SEP 01...	1330	80

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
MAR 18...	1130	10	4.5	625	17	21	25	51	66
APR 07...	1340	10	13.0	5240	146	--	--	--	--
MAY 12...	1240	96	11.0	3670	951	--	--	--	--
JUN 29...	1050	70	28.0	763	144	6	6	11	26

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW1/4NE1/4NE1/4 sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi downstream from Bitter Creek, 1.0 mi southeast of town of Green River, and 4.0 mi upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 14,000 mi^2, of which 4,260 mi^2, including 3,959 mi^2 in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1713: 1957. WDR-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See station 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres above station.

AVERAGE DISCHARGE.--32 years, 1,746 ft^3/s, 1,265,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s Sept. 7, 1965, gage height, 8.53 ft, caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft^3/s Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft^3/s June 19, 1918, at site 1.5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft^3/s July 7, gage height, 7.29 ft; minimum daily, 500 ft^3/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4120	1530	800	900	1180	1700	2100	2220	3450	8480	4070	1860
2	4950	1540	790	920	1110	1800	2440	2100	4360	9110	3670	1890
3	7480	1410	770	930	1090	1900	2430	2700	5360	10400	3390	2160
4	9140	1280	950	1030	1080	1880	2170	2430	6590	11600	3210	2180
5	9750	1270	1100	1130	1070	1710	2080	2030	6740	11900	3180	2140
6	9600	1270	1100	1200	1150	1600	2130	2000	7530	12200	2900	2090
7	8000	1160	1050	1300	1250	1460	1920	1990	8510	12600	2660	1880
8	6700	1060	930	1340	1330	1440	1920	1990	8670	12600	2670	1780
9	5150	968	940	1400	1350	1420	1900	1990	9200	12400	2440	1750
10	3410	996	930	1340	1400	1430	1890	1990	9200	11700	2380	1750
11	2300	963	920	1300	1470	1460	1960	2080	9220	11400	2340	1730
12	1450	1040	910	1300	1490	1510	2060	2060	9270	11300	2330	1730
13	1130	1040	930	1250	1400	1560	2200	2000	9310	11100	2330	1710
14	1410	1040	970	1300	1350	1690	2070	2010	9900	10400	2350	1910
15	1390	1030	1000	1340	1360	1630	1990	2110	11300	9660	2350	1970
16	1390	1030	1100	1320	1400	1560	2300	2360	11400	8590	2420	1970
17	1370	900	1200	1280	1370	1590	2750	2540	11100	7560	2490	1980
18	1380	683	1150	1260	1340	1770	2820	2400	10100	6100	2500	1990
19	1250	679	1050	1240	1300	1870	2770	3320	9330	5350	2520	1990
20	1390	670	1050	1300	1280	1850	3010	4390	8820	4710	2800	1760
21	1420	643	1050	1340	1270	1860	3250	4880	8780	4290	2960	1730
22	1390	610	1100	1340	1300	1830	3560	5060	9170	3660	3110	1730
23	1270	540	1100	1330	1350	1830	4200	5040	9320	3250	3260	1690
24	1270	500	1070	1320	1380	1830	4620	4600	8920	3180	3920	1640
25	1030	540	1010	1300	1430	1870	5080	4540	8310	3200	3900	1550
26	1020	570	970	1320	1480	1830	5020	3740	8290	3840	3830	1550
27	1020	600	950	1330	1500	1790	4540	3330	8320	4110	3560	1550
28	1100	640	930	1350	1560	1820	3300	3150	8380	4050	3350	1550
29	945	690	920	1350	---	1810	2670	3110	8390	4040	2900	1560
30	1600	740	900	1280	---	1870	2250	3100	8410	4040	2180	1570
31	1540	---	880	1210	---	2030	---	3130	---	4090	1870	---
TOTAL	96365	27632	30520	38850	37040	53200	83400	90390	255650	240910	89840	54340
MEAN	3109	921	985	1253	1323	1716	2780	2916	8522	7771	2898	1811
MAX	9750	1540	1200	1400	1560	2030	5080	5060	11400	12600	4070	2180
MIN	945	500	770	900	1070	1420	1890	1990	3450	3180	1870	1550
AC-FT	191100	54810	60540	77060	73470	105500	165400	179300	507100	477800	178200	107800

CAL YR 1982	TOTAL	923446	MEAN	2530	MAX	13600	MIN	500	AC-FT	1832000
WTR YR 1983	TOTAL	1098137	MEAN	3009	MAX	12600	MIN	500	AC-FT	2178000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1983."

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW1/4SW1/4 sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi downstream from East Fork, 2.5 mi south of Utah-Wyoming State line, and 17 mi south of Robertson.

DRAINAGE AREA.--130 mi^2, approximately.

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,804.8 ft, NGVD of 1929 (levels by Bureau of Reclamation). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, water-stage recorder at site 85 ft upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--18 years (water years 1938, 1967-83), 160 ft^3/s, 115,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,480 ft^3/s June 19, 1983; maximum gage height, 4.91 ft June 6, 1968; minimum daily, 5.5 ft^3/s Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	1900	1,630	3.19
June 11	2300	2,030	3.60
June 19	0100	*2,480	3.92
July 10	0400	1,240	2.79

Minimum daily, 22 ft^3/s Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	61	57	33	27	32	29	44	1180	870	278	124
2	224	58	57	34	26	33	30	46	1070	870	338	165
3	218	51	56	35	26	35	31	47	910	722	328	202
4	213	52	54	35	25	34	29	48	1000	623	301	359
5	211	51	53	36	24	33	28	50	1160	665	274	190
6	186	50	54	38	23	32	27	51	1140	783	261	171
7	177	52	53	36	22	31	29	52	1170	788	266	165
8	170	56	51	35	23	32	30	52	1250	874	253	200
9	150	60	49	35	25	34	30	51	1250	912	249	161
10	128	56	47	34	27	35	29	50	1630	938	241	147
11	126	54	46	34	28	34	29	48	1710	603	270	131
12	131	52	47	32	27	34	28	46	1570	519	286	122
13	126	54	49	31	25	32	27	45	1040	466	264	116
14	128	57	50	32	27	31	26	43	798	432	245	113
15	135	60	51	33	26	30	25	41	876	410	232	107
16	136	64	53	33	27	29	25	40	1130	368	238	101
17	128	64	52	32	27	29	25	39	1440	343	247	94
18	120	60	50	31	26	29	26	40	1790	324	270	90
19	117	56	47	31	25	28	26	41	1880	338	276	85
20	110	58	45	31	26	27	27	43	1680	373	244	84
21	101	58	45	30	26	27	27	56	1720	383	222	84
22	96	57	47	29	27	26	25	80	1510	399	203	82
23	96	55	48	29	28	26	28	110	1390	358	186	82
24	96	52	46	29	27	25	35	180	1500	324	172	91
25	97	49	42	30	27	24	38	261	1170	353	166	82
26	102	48	39	32	28	24	39	373	1060	368	154	80
27	120	50	35	31	29	25	37	557	1090	328	143	114
28	110	52	32	31	30	26	37	912	1090	292	138	89
29	91	55	30	30	---	26	39	1070	1020	278	155	82
30	73	57	31	29	---	27	42	1280	955	274	151	150
31	71	---	32	28	---	28	---	1260	---	287	138	---
TOTAL	4226	1659	1448	999	734	918	903	7056	38179	15865	7189	3863
MEAN	136	55.3	46.7	32.2	26.2	29.6	30.1	228	1273	512	232	129
MAX	239	64	57	38	30	35	42	1280	1880	938	338	359
MIN	71	48	30	28	22	24	25	39	798	274	138	80
AC-FT	8380	3290	2870	1980	1460	1820	1790	14000	75730	31470	14260	7660

CAL YR 1982	TOTAL	70239	MEAN	192	MAX	1130	MIN	13	AC-FT	139300
WTR YR 1983	TOTAL	83039	MEAN	228	MAX	1880	MIN	22	AC-FT	164700

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW1/4NE1/4SW1/4 sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi downstream from Meeks Cabin Dam, 2.7 mi north of Utah-Wyoming State line, and 17 mi southwest of Millburne.

DRAINAGE AREA.--152 mi^2.

PERIOD OF RECORD.--July 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft, NGVD of 1929, Bureau of Reclamation datum. Prior to Oct. 1, 1971, at several sites about 2.0 mi downstream at various datums.

REMARKS.--Records good. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971. No diversion above station.

AVERAGE DISCHARGE.--44 years, 161 ft^3/s, 116,600 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft^3/s June 7, 1957, from rating curve extended above 1,500 ft^3/s; maximum gage height, 6.46 ft in gage well, 6.76 ft from floodmarks, June 12, 1965, site and datum then in use; minimum daily, 1.0 ft^3/s Sept. 15, 16, 1983, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,160 ft^3/s June 19, gage height, 4.86 ft; minimum daily, 1.0 ft^3/s Sept. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	152	47	44	26	26	16	38	1330	1230	475	372
2	187	246	47	44	26	25	16	38	1370	1190	403	366
3	188	244	47	44	26	25	16	38	1160	1190	356	366
4	188	246	47	44	26	25	16	38	1110	1210	359	361
5	188	246	47	44	26	25	16	38	1190	1190	361	361
6	189	246	48	43	26	25	16	38	1260	1000	361	361
7	191	243	48	44	26	25	16	38	1260	832	361	361
8	191	243	48	44	26	25	16	38	1340	831	361	357
9	191	242	48	44	26	25	16	38	1400	842	296	356
10	191	239	48	44	26	25	16	38	1520	862	248	354
11	201	239	48	44	26	25	16	38	1710	857	248	356
12	200	233	48	44	26	25	16	38	1810	859	248	349
13	199	232	46	44	26	25	16	38	1520	858	248	272
14	198	232	44	44	26	25	16	38	1250	859	248	160
15	197	130	44	44	26	25	16	38	1170	847	248	1.0
16	197	47	44	44	26	25	16	38	1270	857	249	1.0
17	197	47	44	44	26	25	16	38	1460	855	251	7.9
18	197	47	44	44	26	25	16	38	1660	852	251	33
19	197	47	44	44	26	25	16	38	1940	640	251	35
20	197	47	44	44	26	25	16	38	1940	474	251	36
21	197	47	44	44	26	22	16	38	1850	473	251	36
22	195	47	44	44	26	16	16	38	1790	481	289	36
23	194	47	44	44	26	16	16	40	1790	477	323	75
24	194	47	44	37	26	16	16	40	1810	475	323	100
25	194	47	44	26	26	16	16	40	1690	475	343	100
26	194	47	44	26	26	16	16	45	1480	466	377	100
27	194	47	44	26	26	16	24	108	1400	462	373	125
28	193	47	44	26	26	16	38	575	1370	468	372	150
29	110	47	44	26	---	16	38	822	1360	468	371	150
30	55	47	44	26	---	16	38	882	1300	475	367	150
31	55	---	44	26	---	16	---	1190	---	475	367	---
TOTAL	5644	4118	1409	1230	728	683	554	4578	44510	23530	9830	5887.9
MEAN	182	137	45.5	39.7	26.0	22.0	18.5	148	1484	759	317	196
MAX	201	246	48	44	26	26	38	1190	1940	1230	475	372
MIN	55	47	44	26	26	16	16	38	1110	462	248	1.0
AC-FT	11190	8170	2790	2440	1440	1350	1100	9080	88290	46670	19500	11680

CAL YR 1982	TOTAL	69644.9	MEAN	191	MAX	861	MIN	7.7	AC-FT	138100
WTR YR 1983	TOTAL	102701.9	MEAN	281	MAX	1940	MIN	1.0	AC-FT	203700

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE1/4NW1/4NE1/4 sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft downstream from bridge, 1.0 mi upstream from Gilbert Creek, 6.1 mi downstream from State Line Reservoir, and 9.0 mi south of Robertson.

DRAINAGE AREA.--53.0 mi^2.

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as East Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 979: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,470 ft from topographic map. Prior to July 12, 1957, at datum 3.96 ft higher.

REMARKS.--Records fair except those for April and May, which are poor. Flow completely regulated by State Line Reservoir, 6.1 mi upstream, total capacity, 14,000 acre-ft, dead storage is about 2,000 acre-ft, since May 1979. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 13 . . . 54.1

COOPERATION.--Records collected by Office of the Wyoming State Engineer and computed and reviewed by the Geological Survey.

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft^3/s, 34,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft^3/s June 10, 1965, gage height, 6.75 ft; no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft, present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft^3/s June 24, gage height, 6.66 ft; minimum daily during period of operation, 4.7 ft^3/s Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.1	5.8	120	600	91	68
2							5.0	5.8	233	594	91	69
3							5.0	6.0	392	594	91	71
4							4.9	6.3	528	594	91	73
5							4.8	6.6	568	503	90	69
6							4.8	6.8	619	241	90	68
7							4.9	7.0	660	237	90	68
8							5.0	7.3	626	237	91	69
9							5.2	7.3	606	237	91	69
10							5.3	7.0	626	241	90	69
11							5.3	6.8	619	241	83	69
12							5.0	6.6	562	241	69	69
13							4.8	6.4	544	237	69	69
14							4.7	6.4	568	237	69	69
15							4.9	7.0	587	237	69	69
16							5.0	8.0	587	237	69	69
17							5.0	9.0	587	237	69	69
18							5.0	14	575	237	69	69
19							5.0	20	575	234	69	69
20							5.0	20	587	234	69	69
21							5.2	21	600	167	69	69
22							5.3	22	983	93	68	69
23							5.4	27	1160	91	68	69
24							5.7	32	1200	91	68	69
25							6.0	38	992	91	68	69
26							6.0	43	695	90	68	69
27							5.7	46	633	90	68	69
28							5.4	67	606	90	68	69
29							5.4	122	594	90	68	69
30							5.6	122	594	90	68	68
31							---	114	---	91	68	---
TOTAL							155.4	824.1	18826	7524	2359	2072
MEAN							5.18	26.6	628	243	76.1	69.1
MAX							6.0	122	1200	600	91	73
MIN							4.7	5.8	120	90	68	68
AC-FT							308	1630	37340	14920	4680	4110

09228500 BURNT FORK NEAR BURNTFORK, WY

LOCATION.--Lat 40°56'47", long 110°03'56", in NE1/4SE1/4SE1/4 sec.36, T.3 N., R.16 E., Summit County, UT, Hydrologic Unit 14040106, Wasatch National Forest, on left bank 0.6 mi upstream from forest boundary and 6.5 mi southwest of Burntfork.

DRAINAGE AREA.--52.8 mi^2.

PERIOD OF RECORD.--April 1943 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1944.

GAGE.--Water-stage recorder. Altitude of gage is 8,430 ft from topographic map. Prior to June 10, 1965, water-stage recorder at site 0.5 mi downstream at different datum. June 10 to Oct. 5, 1965, water-stage recorder at site 400 ft downstream at different datum.

REMARKS.--Records poor. Flow is partially regulated by Island Lake, capacity, 797 acre-ft, and Beaver Meadows Reservoir, capacity, 1,722 acre-ft. Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, is given below:

Oct. 13 . . . 23.3

COOPERATION.--Records collected by Office of the Wyoming State Engineer and computed and reviewed by Geological Survey.

AVERAGE DISCHARGE.--28 years (water years 1944-71), 31.1 ft^3/s, 22,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft^3/s, June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft^3/s Mar. 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft^3/s June 21, gage height, 4.88 ft; minimum daily during period of operation, 5.6 ft^3/s Apr. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							7.6	5.9	122	479	160	39
2							7.2	6.2	122	472	182	42
3							6.8	5.9	112	436	137	57
4							6.4	6.2	124	403	127	106
5							6.0	6.7	145	396	115	59
6							5.6	6.7	134	416	99	46
7							5.9	6.9	137	436	87	39
8							6.5	8.8	148	457	82	48
9							7.0	9.8	160	468	78	44
10							6.9	9.1	218	501	69	39
11							6.5	6.8	236	400	73	37
12							6.0	6.7	272	365	78	35
13							6.0	6.6	227	341	86	34
14							6.5	7.0	173	314	86	32
15							6.6	7.2	206	308	132	31
16							6.7	7.2	296	284	110	31
17							6.8	7.5	355	266	86	30
18							6.8	7.5	457	251	75	29
19							6.7	7.2	653	245	73	28
20							6.4	6.9	707	248	69	27
21							6.2	8.1	780	236	61	27
22							5.9	10	805	233	57	27
23							6.7	13	815	227	52	26
24							6.9	19	841	203	44	30
25							6.9	28	671	200	50	31
26							6.1	50	576	196	51	29
27							6.4	69	563	182	47	33
28							6.2	91	551	166	47	33
29							5.9	127	540	151	47	30
30							5.9	154	509	140	45	50
31							---	134	---	132	42	---
TOTAL							194.0	845.9	11655	9552	2547	1149
MEAN							6.47	27.3	389	308	82.2	38.3
MAX							7.6	154	841	501	182	106
MIN							5.6	5.9	112	132	42	26
AC-FT							385	1680	23120	18950	5050	2280

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW1/4NW1/4 sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi north of Wyoming-Utah State line, 1.3 mi upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft, and 3.0 mi northeast of Manila.

DRAINAGE AREA.--520 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, UT."

REVISED RECORDS.--WSP 1443: 1955. WDR WY-76-2: 1970.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi upstream at different datums.

REMARKS.--Records poor. Peoples Irrigation Canal diverts 5.9 mi upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--55 years, 83.8 ft^3/s, 60,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft^3/s Aug. 3, 1936, gage height, 7.19 ft, site and datum then in use, from floodmarks, from rating curve extended above 570 ft^3/s on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft, site and datum then in use, discharge not determined; no flow for several days in 1933-35, 1939-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,370 ft^3/s June 10, gage height, 7.39 ft; minimum daily, 39 ft^3/s Feb 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	544	204	72	56	47	95	95	270	995	851	167	115
2	284	149	75	63	45	100	95	315	1220	778	221	112
3	200	121	72	72	43	123	82	305	1100	828	266	184
4	187	123	68	80	42	140	69	285	856	712	268	521
5	170	131	66	84	40	134	61	265	1280	598	269	264
6	171	128	66	88	39	105	61	250	1010	580	204	188
7	177	127	68	83	42	102	69	245	1250	580	183	171
8	167	123	67	95	47	90	72	275	1120	598	171	191
9	158	132	65	95	50	95	93	300	1340	607	170	181
10	164	128	63	92	48	171	140	265	1680	805	174	140
11	160	130	60	87	47	187	164	275	1700	838	177	126
12	167	103	57	83	47	202	112	290	1770	477	202	111
13	168	100	60	78	49	171	81	310	1660	468	174	107
14	162	96	62	75	53	168	75	335	1120	377	188	101
15	159	93	66	71	54	118	79	390	873	343	243	96
16	159	93	72	68	54	97	97	380	930	384	307	97
17	157	98	68	70	56	102	110	415	1210	286	395	87
18	150	103	64	73	60	93	167	450	1630	239	294	82
19	141	97	61	74	64	86	195	500	1850	210	285	80
20	145	90	59	73	64	77	215	425	2000	215	298	64
21	145	80	57	72	67	69	235	400	1890	230	276	68
22	144	75	59	69	73	75	250	390	1820	207	209	72
23	149	63	63	67	77	86	300	350	1770	284	191	76
24	144	53	56	65	80	73	350	300	1600	225	171	78
25	146	50	50	63	87	77	370	298	1700	206	174	86
26	145	52	45	60	94	71	385	410	1300	213	161	85
27	159	55	44	57	93	67	400	415	1290	219	149	82
28	142	59	43	55	97	88	300	505	1170	220	137	91
29	139	64	45	53	---	77	220	688	1060	185	220	100
30	157	70	48	50	---	137	220	754	1060	163	126	106
31	185	---	52	48	---	240	---	873	---	151	123	---
TOTAL	5445	2990	1873	2219	1659	3516	5162	11928	41254	13077	6593	3862
MEAN	176	99.7	60.4	71.6	59.3	113	172	385	1375	422	213	129
MAX	544	204	75	95	97	240	400	873	2000	851	395	521
MIN	139	50	43	48	39	67	61	245	856	151	123	64
AC-FT	10800	5930	3720	4400	3290	6970	10240	23660	81830	25940	13080	7660

CAL YR 1982	TOTAL	33923.9	MEAN	92.9	MAX	1230	MIN	6.2	AC-FT	67290
WTR YR 1983	TOTAL	99578	MEAN	273	MAX	2000	MIN	39	AC-FT	197500

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming 1983."

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW1/4NE1/4 sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi southwest of Dutch John, and 4.9 mi northeast of Greendale.

DRAINAGE AREA.--19,350 mi^2, of which about 4,260 mi^2, including 3,959 mi^2 in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--November 1962 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Jan. 1. 1964, on left bank 600 ft upstream from face of dam.

REMARKS.--Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft, consisting of the following: Dead storage, 39,700 acre-ft below elevation 5,740 ft; inactive usable storage, 233,500 acre-ft between elevations 5,740 ft and 5,871 ft; active usable storage, 3,516,000 acre-ft between elevations 5,871 ft and 6,040 ft (top of conservation pool). Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922. and power development. Figures given herein represent usable contents. Transbasin diversions and diversions for irrigation above station.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,911,000 acre-ft July 13, 1983, elevation, 6,043.80 ft; minimum, 582,900 acre-ft Apr. 26, 1965, elevation, 5908.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,911,000 acre-ft July 13, elevation, 6,043.80 ft; minimum observed, 3,164,000 acre-ft Mar. 3, elevation, 6,025.18 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

6,025	3,157,000	6,040	3,749.000
6,030	3,346,000	6,045	3,963,000
6,035	3,543,000		

RESERVOIR STORAGE, IN THOUSANDS OF AC-FT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3578	3556	3409	3306	3212	3165	3175	3252	3432	3860	3814	3741
2	3585	3554	3403	3302	3210	3165	3179	3254	3449	3864	3811	3741
3	3597	3550	3397	3296	3209	3164	3180	3256	3466	3868	3804	3742
4	3609	3546	3392	3290	3205	3165	3179	3261	3489	3872	3798	3746
5	3620	3544	3387	3285	3201	3166	3178	3264	3509	3880	3792	3748
6	3630	3541	3383	3282	3197	3167	3177	3268	3528	3887	3785	3747
7	3639	3536	3378	3277	3194	3166	3175	3270	3545	3893	3777	3747
8	3644	3532	3375	3273	3191	3165	3175	3275	3563	3897	3769	3745
9	3644	3528	3373	3269	3189	3165	3172	3277	3581	3902	3759	3745
10	3645	3524	3368	3264	3187	3165	3172	3278	3599	3906	3753	3742
11	3640	3520	3363	3260	3186	3171	3171	3283	3619	3908	3749	3739
12	3635	3513	3358	3257	3185	3168	3170	3286	3636	3910	3747	3736
13	3628	3508	3354	3254	3180	3170	3168	3291	3654	3911	3744	3733
14	3621	3503	3349	3254	3179	3172	3166	3294	3671	3910	3744	3731
15	3616	3499	3345	3251	3178	3174	3165	3302	3690	3908	3742	3728
16	3609	3494	3341	3250	3176	3174	3165	3306	3707	3904	3740	3725
17	3603	3490	3335	3248	3174	3174	3170	3310	3720	3897	3738	3721
18	3599	3486	3329	3246	3174	3175	3171	3315	3740	3890	3736	3718
19	3593	3480	3325	3243	3173	3175	3173	3323	3754	3884	3738	3715
20	3589	3473	3320	3240	3173	3174	3176	3332	3768	3876	3738	3711
21	3584	3467	3316	3235	3171	3174	3182	3337	3782	3871	3740	3707
22	3580	3462	3312	3232	3170	3173	3190	3346	3793	3867	3741	3703
23	3576	3456	3314	3229	3169	3173	3197	3350	3802	3859	3740	3702
24	3572	3451	3313	3228	3169	3172	3207	3358	3816	3852	3740	3699
25	3570	3444	3311	3226	3168	3173	3216	3365	3825	3846	3743	3696
26	3567	3438	3310	3223	3169	3172	3224	3372	3832	3840	3744	3691
27	3561	3430	3312	3222	3169	3171	3235	3381	3840	3837	3744	3687
28	3556	3425	3312	3220	3167	3171	3238	3388	3846	3833	3746	3683
29	3551	3421	3311	3219	---	3171	3242	3396	3850	3829	3744	3680
30	3555	3414	3310	3217	---	3173	3249	3407	3855	3825	3744	3676
31	3558	---	3307	3215	---	3174	---	3416	---	3820	3743	---
MAX	3645	3556	3409	3306	3212	3175	3249	3416	33720	3911	3814	3748
MIN	3551	3414	3307	3215	3167	3164	3165	3252	3432	3820	3736	3676
(#)	6035.38	6031.75	6028.98	6026.55	6025.27	6025.45	6027.45	6031.80	6042.50	6041.67	6039.86	6038.25
(*)	-14	-144	-107	-92	-48	+7	+75	+167	+439	-35	-77	-67

CAL YR 1982 . . . . . (*) +524
WTR YR 1983 . . . . . (*) +104

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW1/4NW1/4SE1/4 sec.15. T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest on right bank 0.5 mi downstream from Flaming Gorge Dam, 2 mi south of Dutch John, 4 mi northeast of Greendale, and 407.0 mi from mouth.

DRAINAGE AREA.--19,350 mi^2, approximately, including about 4,260 mi^2 which is probably noncontributing. This noncontributing area includes 3,959 mi^2 in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft NGVD of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi upstream at different datum.

REMARKS.--Records excellent. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning Nov. 1, 1962 (see station 09234400).

AVERAGE DISCHARGE.--33 years, 2,087 ft^3/s, 1,512,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft^3/s June 12, 1957, gage height, 10.60 ft, site and datum then in use; maximum gage height, 12.58 ft July 8, 1983; minimum, 2.3 ft^3/s Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,700 ft^3/s July 8, gage height, 12.58 ft; minimum daily, 779 ft^3/s Oct. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1930	2850	3950	2030	2600	2430	2700	1750	3990	10200	7260	3430
2	1890	3120	3920	3100	2090	2260	2570	2760	3980	11100	7500	3550
3	1990	3600	3870	3220	2330	2440	2130	2650	4560	11100	7720	3540
4	2800	3270	3820	3610	3230	2430	2510	1450	4830	11100	7720	3850
5	4030	2610	3820	3830	3790	2430	2750	2340	5290	11100	7740	3570
6	4600	3840	3830	3850	3200	2430	2900	2510	6230	11200	7720	4070
7	5120	3830	3580	3830	2680	2440	2780	2370	7640	11200	7700	3710
8	5280	3840	3700	3820	2560	2430	3240	1710	7600	12200	7730	3970
9	5310	3830	1590	3810	2560	2200	3570	2730	7860	12000	7730	3330
10	5320	3850	2990	3830	2560	2210	3710	2620	8030	12200	6400	3930
11	5310	3830	3830	3330	2460	2470	3970	2960	7870	12100	4760	3560
12	5310	3840	3630	2970	2570	2470	3970	2340	7980	12100	4150	3920
13	5300	3850	3880	2850	2570	2360	3960	2950	7690	12200	4150	4060
14	5280	3850	3350	2670	2560	2430	3960	2730	8090	12200	4140	3810
15	5150	3850	2670	2600	2420	2440	3240	1560	8210	12200	3970	3920
16	4870	3860	3720	2050	2320	2450	2250	3110	8180	12300	4160	3920
17	4870	3500	3600	2630	2290	2450	2000	3250	8230	12200	4130	3900
18	4430	3250	3830	2700	1950	2450	2640	3150	8230	11400	4120	3960
19	3890	3860	3830	2930	2080	2450	3050	3290	8230	10400	3990	4000
20	3900	3860	3840	3450	1850	2440	2820	3310	8200	9410	3760	3740
21	3900	3860	3350	3380	2260	2450	2420	3970	8400	8170	3780	3720
22	3900	3860	2470	3480	1760	2680	2200	3980	9570	8220	3570	3900
23	3910	3870	2140	2590	1720	2660	2190	3980	9880	8230	3840	3860
24	3630	3150	1660	2480	1650	2720	2040	3970	9770	8230	3970	2580
25	2890	3870	1620	2590	2700	2700	2270	3960	10000	7720	3980	3600
26	3750	3880	865	2460	1760	2710	2830	3990	10000	7240	4050	3970
27	3540	3630	866	2600	1980	2480	2160	4000	10000	7250	3900	4080
28	3820	3500	865	2530	2050	2070	2750	4000	10100	7250	3580	3530
29	3760	3910	1740	2420	---	2260	2880	4000	10100	7260	3120	3330
30	780	3940	1940	2490	---	2450	2730	4000	10100	7240	3000	3570
31	779	---	1960	2420	---	2720	---	3990	---	7200	3390	---
TOTAL	121239	109660	90726	92550	66550	76010	85190	95380	238840	313920	156730	111880
MEAN	3911	3655	2927	2985	2377	2452	2840	3077	7961	10130	5056	3729
MAX	5320	3940	3950	3850	3790	2720	3970	4000	10100	12300	7740	4080
MIN	779	2610	865	2030	1650	2070	2000	1450	3980	7200	3000	2580
AC-FT	240500	217500	180000	183600	132000	150800	169000	189200	473700	622700	310900	221900

CAL YR 1982 TOTAL 814779 MEAN 2232 MAX 5320 MIN 779 AC-FT 1616000
WTR YR 1983 TOTAL 1558675 MEAN 4270 MAX 12300 MIN 779 AC-FT 3092000

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.
SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year, once-daily.
WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year, once-daily.
SEDIMENT DATA: October 1956 to September 1959, once-daily, October 1976 to current year, periodically.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. Samples for daily records are taken inside Penstock. Extremes are given for two separate periods--water years 1957-62, and water years 1964 to current year. Extremes for the 1963 water year (October 1962 to September 1963) are not included. Unpublished daily records of specific conductance obtained before 1965 were included in the determination of extremes for period of daily record and are available in files of district office. Daily records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62, 1964 to current year).--
SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 micromhos Aug. 30, 1961; minimum daily, 325 micromhos June 2, 1961.
WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.
SPECIFIC CONDUCTANCE (water years 1964 to current year): Maximum daily, 1,060 micromhos Nov. 9, 1971; minimum daily, 560 micromhos Mar. 1, 1977.
WATER TEMPERATURES: Maximum, 14.0°C Nov. 11, 14, 1963, July 17, Aug. 21, 28, 1978, Sept. 24, 1980; minimum 2.0°C on several days in 1964.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 790 micromhos Oct. 26; minimum daily, 430 micromhos Dec. 17.
WATER TEMPERATURES: Maximum, 14.5°C several days during August and September; minimum observed, 4.0°C Jan. 26, Feb. 23, Mar. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
26...	1130	3830	790	8.1	14.0	11.0	--	8.1	621	--
NOV										
24...	1045	1020	740	8.1	0.5	8.0	0.5	8.7	630	<1
DEC										
16...	1200	3900	770	8.0	7.5	6.0	--	8.2	628	--
JAN										
26...	1145	2600	700	8.1	4.5	4.0	0.7	9.4	620	<1
FEB										
23...	1130	1040	700	8.2	7.0	4.0	--	10.1	624	--
MAR										
30...	1200	2720	690	8.1	14.0	4.0	0.5	10.0	624	<1
APR										
27...	1400	1760	670	8.0	8.5	5.5	--	10.8	622	--
MAY										
23...	1330	3980	660	8.1	22.0	7.5	1.1	10.0	628	<1
JUN										
23...	1330	10100	590	8.1	22.0	10.0	--	10.3	628	--
JUL										
25...	1245	7260	660	8.2	24.0	10.0	1.1	10.0	627	<1
AUG										
17...	1300	4100	680	8.2	28.0	12.0	--	8.7	628	--
SEP										
02...	1130	3930	670	8.1	25.5	13.0	0.7	7.3	628	<1

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 26...	--	260	5.3	63	26	63	34	1.7	2.5
NOV 24...	<1	270	5.4	65	26	60	32	1.6	2.7
DEC 16...	--	280	5.5	66	27	64	33	1.7	2.7
JAN 26...	<1	260	5.2	62	25	56	32	1.6	2.5
FEB 23...	--	250	5.1	62	24	56	32	1.6	2.6
MAR 30...	<1	250	5.0	60	24	55	32	1.6	2.5
APR 27...	--	240	4.8	59	22	52	32	1.5	2.5
MAY 23...	150	230	4.6	56	22	50	32	1.5	2.3
JUN 23...	--	210	4.1	51	19	44	31	1.4	2.5
JUL 25...	37	240	4.8	59	22	50	31	1.5	2.3
AUG 17...	--	240	4.8	62	21	50	31	1.4	2.5
SEP 02...	K2	230	4.6	57	21	49	32	1.5	2.3

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 26...	150	230	17	0.3	1.8	498	495	0.68	5150
NOV 24...	150	210	17	0.3	2.6	495	477	0.67	1360
DEC 16...	160	210	17	0.3	3.3	504	486	0.69	5310
JAN 26...	160	200	16	0.3	3.7	475	459	0.65	3330
FEB 23...	160	200	14	0.3	4.1	472	457	0.64	1330
MAR 30...	160	200	15	0.3	4.5	437	456	0.59	3210
APR 27...	150	190	17	0.2	4.6	433	437	0.59	2060
MAY 23...	150	180	15	<0.1	4.9	418	419	0.57	4490
JUN 23...	130	160	13	0.2	5.4	354	374	0.48	9650
JUL 25...	150	180	13	0.3	5.4	431	421	0.59	8450
AUG 17...	150	180	13	0.3	5.6	425	423	0.58	4700
SEP 02...	150	160	17	0.3	5.8	410	401	0.56	4350

K Results based on colony count outside acceptable range (nonideal colony count).

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 26...	<0.06	0.08	--	<0.1	--	--	--	<0.01	0.03
NOV 24...	<0.06	0.08	1.10	<0.1	0.01	0.03	0.01	<0.01	0.03
DEC 16...	<0.06	0.08	--	0.18	--	--	--	<0.01	0.03
JAN 26...	0.07	0.09	0.5	0.15	0.01	0.03	0.03	<0.01	0.03
FEB 23...	0.10	0.13	--	0.16	--	--	--	0.01	0.03
MAR 30...	0.10	0.13	1.20	0.15	0.02	0.06	0.00	0.02	0.06
APR 27...	0.03	0.04	--	0.14	--	--	--	0.00	--
MAY 23...	0.08	0.1	0.6	0.13	0.03	0.09	0.00	0.00	--
JUN 23...	0.08	0.1	--	0.14	--	--	--	<0.00	--
JUL 25...	0.09	0.12	0.7	0.15	0.04	0.12	0.00	<0.00	--
AUG 17...	0.02	0.03	--	0.19	--	--	--	0.00	--
SEP 02...	0.05	0.06	0.3	0.14	0.00	0.03	0.00	0.02	0.06

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 24...	1045	10	3	73	1	<1	<1	<3	2	4	3
MAR 30...	1200	<10	3	72	1	<1	<1	<3	2	<3	4
MAY 23...	1330	<10	3	71	<1	<1	<1	<3	3	4	2
JUL 25...	1245	<10	3	69	1	<1	<1	<3	2	9	4

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 24...	31	2	<.1	<10	3	1	<1	640	<6.0	9
MAR 30...	26	<1	<.1	<10	4	1	<1	590	<6.0	7
MAY 23...	25	2	<.1	<10	7	1	<1	550	<6.0	5
JUL 25...	35	2	<.1	<10	<1	1	<1	550	<6.0	7

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 26...	1130	100
DEC 16...	1200	90
FEB 23...	1130	90
APR 27...	1400	100
JUN 23...	1330	70
AUG 17...	1300	80

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	770	720	720	---	720	720	710	---	670	580	610	620
2	---	720	730	---	720	720	---	670	640	---	580	630
3	---	720	740	740	710	720	---	670	640	---	620	---
4	760	720	---	730	720	720	700	670	---	---	630	---
5	760	710	---	730	---	---	---	670	---	590	620	---
6	760	---	730	730	---	---	700	640	620	620	---	630
7	770	---	730	720	720	710	700	---	620	620	---	630
8	750	720	740	---	720	710	690	---	620	660	620	630
9	---	720	730	---	720	710	---	650	650	---	630	630
10	---	720	580	720	720	710	---	660	650	---	640	---
11	---	---	---	720	720	720	690	660	---	630	620	---
12	760	710	---	720	---	---	700	670	---	630	640	630
13	760	---	570	730	---	---	700	640	650	630	---	630
14	---	---	450	730	710	700	700	---	650	630	---	630
15	770	720	---	---	720	700	700	---	650	620	630	630
16	760	720	660	---	720	720	---	620	640	---	630	640
17	---	720	430	720	720	730	---	640	640	---	630	---
18	760	720	---	730	720	730	700	640	620	630	630	---
19	750	720	---	730	---	---	700	640	---	620	640	630
20	750	---	740	720	---	---	700	640	630	630	---	630
21	750	---	730	730	---	720	710	---	620	620	---	640
22	760	710	500	---	720	720	710	---	630	620	640	630
23	---	720	600	---	720	720	---	640	620	---	630	640
24	---	750	---	730	730	720	---	630	630	---	640	---
25	760	---	---	720	730	700	690	630	---	610	630	---
26	760	710	---	710	---	---	690	620	---	620	620	640
27	740	---	600	720	---	---	690	610	630	610	---	640
28	740	---	720	720	710	720	690	---	620	620	---	640
29	750	720	730	---	---	720	690	---	---	610	660	640
30	---	720	710	---	---	710	---	---	620	---	650	650
31	---	---	---	710	---	700	---	640	---	---	610	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	11.0	8.0	---	4.5	4.5	4.5	---	7.0	10.0	15.0	14.5
2	---	11.0	8.0	---	4.5	4.5	---	6.0	8.5	---	15.0	14.0
3	---	10.5	7.5	6.0	4.5	4.5	---	6.0	8.5	---	15.0	---
4	13.0	11.0	---	6.0	4.5	4.5	4.5	6.0	---	---	15.0	---
5	13.0	11.0	---	6.0	---	---	---	6.0	---	10.0	15.0	---
6	13.0	---	8.5	6.0	---	---	4.5	6.0	9.5	10.0	---	14.5
7	13.0	---	7.5	6.0	4.5	4.5	4.5	---	9.5	10.5	---	14.5
8	13.0	10.0	7.5	---	4.5	4.5	4.5	---	9.0	10.5	15.0	14.5
9	---	10.0	7.5	---	4.5	4.5	---	7.0	9.0	---	15.0	13.0
10	---	10.0	7.5	5.5	4.5	4.5	---	7.0	9.5	---	15.0	---
11	---	---	---	5.5	4.5	4.5	4.5	7.0	---	10.5	15.0	---
12	11.5	10.0	---	5.5	---	---	4.5	7.0	---	10.5	13.0	13.5
13	11.5	---	6.5	5.0	---	---	4.5	7.0	10.5	10.5	---	14.5
14	---	---	6.5	5.0	4.5	4.5	4.5	---	9.0	11.0	---	14.5
15	11.5	9.5	---	---	4.5	4.5	4.5	---	8.5	12.0	13.0	13.5
16	11.5	9.5	6.0	---	4.5	4.5	---	7.0	8.5	---	13.0	13.5
17	---	9.5	6.0	5.0	4.5	4.5	---	7.0	8.5	---	13.5	---
18	13.0	9.0	---	5.0	4.5	4.5	4.5	7.0	9.5	12.0	13.5	---
19	11.5	9.0	---	5.0	---	---	4.5	7.0	---	12.0	13.5	14.5
20	11.5	---	6.0	5.0	---	---	5.0	7.5	9.0	9.5	---	14.5
21	11.5	---	6.0	5.0	---	4.5	5.0	---	9.5	13.0	---	13.5
22	11.5	9.0	6.0	---	4.5	4.5	5.5	---	9.5	14.0	14.0	14.5
23	---	8.5	6.0	---	4.5	4.5	---	7.5	9.5	---	14.0	13.5
24	---	8.5	---	5.0	4.5	4.5	---	8.5	9.5	---	13.5	---
25	11.5	---	---	5.0	4.5	4.5	6.0	8.5	---	15.0	14.0	---
26	11.5	8.5	---	4.5	---	---	6.0	8.5	---	15.0	14.0	13.5
27	11.5	---	6.0	4.5	---	---	6.0	8.5	9.0	15.0	---	13.0
28	11.5	---	6.0	4.5	4.5	4.5	6.0	---	9.0	15.0	---	13.0
29	11.5	8.5	6.0	---	---	4.5	6.0	---	---	15.0	14.0	12.0
30	---	8.5	6.0	---	---	4.5	---	---	9.5	---	14.0	13.0
31	---	---	---	4.5	---	4.5	---	8.0	---	---	14.5	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
26...	1130	3830	11.0	9	--	93
NOV						
24...	1045	1020	8.0	5	--	14
DEC						
16...	1200	3900	6.0	3	--	32
JAN						
26...	1145	2600	4.0	4	--	28
FEB						
23...	1130	1040	4.0	13	--	37
MAR						
30...	1200	2720	4.0	2	--	15
APR						
27...	1400	1760	5.5	5	--	24
MAY						
23...	1330	3980	7.5	48	32	516
JUN						
23...	1330	10100	10.0	42	--	1150
JUL						
25...	1245	7260	10.0	12	4	235
AUG						
17...	1300	4100	12.0	8	--	89
SEP						
02...	1130	3930	13.0	32	18	340

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT

LOCATION.--Lat 40°46'05", long 109°19'06", in NE1/4 sec.3, T.1 S., R.23 E., Uintah County, Hydrologic Unit 14040106, on left bank 0.3 mi upstream from Matt Warner Reservoir, and 27 mi northeast of Vernal.

DRAINAGE AREA.--24.6 mi^2.

PERIOD OF RECORD.--September 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft from topographic map. Prior to Aug. 26, 1965, at site 0.2 mi downstream at different datum. Prior to July 28, 1978 datum of gage 1.20 ft higher at same site.

REMARKS.--Records good except those for winter months, which are poor. No diversion above station.

AVERAGE DISCHARGE.--26 years, 3.85 ft^3/s, 2,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 286 ft^3/s May 10, 1973, gage height, 3.55 ft; maximum gage height recorded, 4.57 ft Apr. 11, 1969 (backwater from ice), site and datum then in use; no flow at times, most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 8	1700	209	4.47
June 2	1300	*214	4.49

Minimum daily, 0.25 ft^3/s Dec. 29-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.97	.42	.26	.35	.56	.76	37	126	8.4	1.5	.38
2	.85	.80	.38	.27	.35	.56	.76	34	183	7.8	4.7	.51
3	.80	.56	.36	.28	.35	.57	.78	33	122	9.2	2.3	.84
4	1.0	.52	.36	.29	.35	.58	.78	35	117	6.6	1.6	1.9
5	1.0	.40	.38	.30	.35	.59	.80	52	124	5.6	1.3	1.1
6	1.0	.48	.37	.35	.35	.60	.81	63	107	4.8	.91	.79
7	1.0	.45	.35	.40	.36	.60	.82	76	97	4.2	.75	.62
8	1.1	.45	.35	.45	.37	.62	.83	121	76	3.7	.66	1.1
9	1.2	.43	.35	.50	.38	.62	.84	133	76	4.0	.56	1.1
10	1.2	.45	.35	.50	.40	.64	.85	111	74	5.6	.49	.72
11	1.2	.45	.35	.50	.40	.67	.88	93	69	3.8	.51	.57
12	1.2	.45	.35	.50	.41	.70	.92	61	64	3.3	1.7	.53
13	1.1	.45	.35	.49	.38	.72	.95	46	55	2.9	1.6	.52
14	1.0	.43	.35	.46	.37	.75	.98	44	46	2.5	.93	.52
15	.97	.40	.35	.44	.37	.80	1.0	47	40	2.0	2.7	.48
16	.85	.40	.35	.40	.37	.80	1.6	48	36	2.1	1.3	.41
17	.80	.43	.35	.40	.38	.82	3.0	37	33	1.8	1.0	.41
18	.70	.44	.35	.40	.39	.85	5.0	38	29	1.5	1.2	.37
19	.56	.45	.35	.40	.40	.86	9.0	42	26	1.4	4.5	.33
20	.56	.43	.35	.40	.41	.88	14	50	23	1.5	1.5	.32
21	.56	.40	.35	.40	.42	.90	25	58	20	2.0	1.2	.36
22	.56	.37	.35	.40	.43	.90	40	63	18	2.8	.96	.37
23	.56	.36	.35	.40	.44	.90	70	73	16	2.3	.80	.43
24	.52	.35	.32	.40	.45	.90	110	83	14	2.6	.63	.51
25	.52	.35	.30	.40	.50	.88	105	99	14	1.8	.58	1.2
26	.56	.40	.30	.40	.52	.83	95	115	13	1.6	.55	.75
27	1.6	.40	.28	.40	.53	.80	90	129	12	1.5	.47	1.6
28	.97	.38	.27	.40	.55	.78	60	137	13	1.6	.44	1.8
29	.80	.38	.25	.40	---	.76	55	136	11	1.2	.40	.91
30	.70	.40	.25	.40	---	.76	47	127	10	1.1	.40	6.3
31	.91	---	.25	.40	---	.76	---	104	---	.99	.40	---
TOTAL	27.35	13.63	10.44	12.39	11.33	22.96	742.36	2325	1664	102.19	38.54	27.75
MEAN	.88	.45	.34	.40	.40	.74	24.7	75.0	55.5	3.30	1.24	.92
MAX	1.6	.97	.42	.50	.55	.90	110	137	183	9.2	4.7	6.3
MIN	.52	.35	.25	.26	.35	.56	.76	33	10	.99	.40	.32
AC-FT	54	27	21	25	22	46	1470	4610	3300	203	76	55

CAL YR 1982	TOTAL	1256.36	MEAN	3.44	MAX	94	MIN	.00	AC-FT	2490
WTR YR 1983	TOTAL	4997.94	MEAN	13.7	MAX	183	MIN	.25	AC-FT	9910

09261000 GREEN RIVER NEAR JENSEN, UT

LOCATION.--Lat 40°24'34", long 109°14'05", in NE1/4SW1/4SE1/4 sec.5, T.5 S., R.24 E., Uintah County, Hydrologic Unit 14060001, Dinosaur National Monument, on right bank 300 ft upstream from highway bridge, 1 mi downstream from Cub Creek and Chew Ranch, 4 mi southeast of Dinosaur National Monument headquarters, 6.5 mi northeast of Jensen, 12 mi upstream from Brush Creek, and 313.9 mi from mouth.

DRAINAGE AREA.--29,660 mi^2, approximately, including about 4,260 mi^2, which probably is noncontributing. This noncontributing area includes 3,959 mi^2 in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1903 to December 1904, June to August 1905 (gage heights only), March to September 1906, July to October 1914, August to December 1915, October 1946 to current year. Prior to October 1946, published as "at Jensen," except October to December 1903, which was published as "near Vernal."

REVISED RECORDS.--WSP 1243: 1904(m). WRD UT-73: 1972. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,758 ft from river-profile map. Prior to Oct. 1, 1946, nonrecording gages at site 15 mi downstream at different datums. Dec. 13, 1946 to Sept. 30, 1948, water-stage recorder at present site at datum 1.50 ft higher.

REMARKS.--Records good except those for winter months, which are fair. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) 93.1 mi upstream beginning Nov. 1, 1962.

AVERAGE DISCHARGE.--38 years (1903-04, 1946-83), 4,396 ft^3/s, 3,185,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,200 ft^3/s June 16, 1957; gage height, 13.22 ft; minimum observed, 102 ft^3/s Dec. 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,200 ft^3/s June 28, gage height, 11.44 ft; minimum daily, 1,130 ft^3/s Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3770	2030	4760	2500	2970	3470	3800	8130	25000	22600	9470	3850
2	3900	3030	4780	3000	3230	4180	4090	8160	22500	21600	9170	3880
3	3110	4240	4780	3600	2980	4060	4200	8410	21000	21800	9320	4110
4	3670	4860	4690	3850	2720	4330	3780	8190	21300	20900	9420	4030
5	3770	4780	4620	4150	3480	5010	3690	6700	19800	22200	9350	4440
6	5100	3380	4640	4250	4410	5240	4000	7460	20800	20900	9450	4070
7	5600	4620	4670	4300	3720	5030	4050	8100	21600	19200	9440	4530
8	6050	4760	4480	4300	3500	4550	3870	8750	22500	18900	9320	4270
9	6350	4780	4440	4280	3160	4090	4050	7380	22000	20200	9150	4640
10	6250	4770	2640	4220	3160	3950	4570	8890	22700	20600	8980	3920
11	6190	4830	3600	3950	3150	3550	4680	10800	23200	20700	7590	4420
12	6230	4830	4570	3680	3050	3930	5170	12900	23500	20000	6090	4190
13	6200	4820	4340	3450	3160	4540	5220	12900	25200	18600	5480	4380
14	6180	4810	4530	3150	3180	5430	5380	11400	26000	18000	5290	4470
15	6080	4720	3950	3000	3170	6230	5360	10000	24400	17400	5340	4210
16	5970	4480	3400	2750	3040	5990	4700	8440	20100	16500	5190	4190
17	5690	4320	4090	2580	2990	5390	3420	9050	19000	16400	5280	4250
18	5780	4040	4200	2750	2970	4840	3100	9390	19800	16100	5190	4130
19	5500	4050	4480	3200	2780	4410	3860	9190	20700	14100	5190	4240
20	4930	4750	4470	3020	2670	4170	4680	9170	21800	13100	5180	4300
21	4930	4790	4470	3150	2760	3930	5520	9080	23700	11800	5330	4050
22	4890	4760	4130	3250	2840	3800	5960	10200	24700	10800	5090	3980
23	4850	4630	3320	3280	2780	3930	6580	10700	26300	10900	5060	4160
24	4800	4420	3120	3200	2390	3940	7360	12200	26400	11500	5000	4160
25	4730	3660	2310	3200	2500	3940	6760	14200	26100	11700	5030	3390
26	3660	4320	1700	3210	3400	4060	7960	17400	26200	11500	4810	3570
27	4790	4410	1200	3060	3400	4050	10500	19600	26500	10400	4870	4410
28	4440	4240	1130	3210	2910	3810	9280	21100	26600	10100	4600	4520
29	4730	4270	1160	3210	---	3300	8580	22100	25100	10300	4320	4060
30	4750	4730	1550	2980	---	3330	8130	23500	24700	10500	3820	3960
31	2800	---	2200	3210	---	3860	---	24900	---	10000	3530	---
TOTAL	155690	131130	112420	104940	86470	134340	162300	368390	699200	499300	200350	124780
MEAN	5022	4371	3626	3385	3088	4334	5410	11880	23310	16110	6463	4159
MAX	6350	4860	4780	4300	4410	6230	10500	24900	26600	22600	9470	4640
MIN	2800	2030	1130	2500	2390	3300	3100	6700	19000	10000	3530	3390
AC-FT	308800	260100	223000	208100	171500	266500	321900	730700	1387000	990400	397400	247500

CAL YR 1982	TOTAL	1817400	MEAN	4979	MAX	17100	MIN	1130	AC-FT	3605000
WTR YR 1983	TOTAL	2779310	MEAN	7615	MAX	26600	MIN	1130	AC-FT	5513000

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily specific conductance and temperature data collected at bridge on U.S. Highway 40, at town of Jensen, 8 mi downstream from gaging station.

PERIOD OF RECORD.--June 1947 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1947 to September 1952, October 1961 to current year.
WATER TEMPERATURES: March 1949 to September 1959, October 1961 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1948 to September 1979 (discontinued).

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,330 micromhos Sept. 10, 1963; minimum daily, 176 micromhos May 24, 1963.
WATER TEMPERATURES: Maximum, 30.0°C July 11, 1958; minimum, 0.0°C on many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 40,600 mg/L Aug. 23, 1960; minimum daily mean, 9 mg/L Oct. 7-11, 1953, Nov. 22, 1962, and Sept. 1, 1972.
SEDIMENT LOADS: Maximum daily, 2,500,000 tons Mar. 29, 1962; minimum daily, 10 tons on many days in 1962 and 1963.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 920 micromhos Apr. 19; minimum, 310 micromhos June 1.
WATER TEMPERATURES: Maximum, 20.5°C July 18, Aug. 5: minimum, 0.0°C several days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT										
27...	1030	4800	700	8.1	9.5	4.0	9.6	644	250	4.9
NOV										
23...	1300	4580	690	8.0	4.5	0.0	11.6	651	250	5.0
DEC										
17...	1345	4180	740	8.1	3.5	2.5	11.8	646	260	5.1
JAN										
25...	1200	3110	690	8.1	2.5	0.0	12.0	647	240	4.9
FEB										
24...	1015	2530	670	8.2	3.0	3.0	11.8	642	240	4.8
MAR										
22...	1015	3840	720	8.1	5.5	8.0	10.4	638	260	5.1
APR										
25...	1300	6530	570	7.9	11.5	17.5	8.9	635	200	4.1
MAY										
25...	1000	13800	410	8.1	14.5	21.0	8.6	648	150	3.0
JUN										
23...	1715	26800	325	8.1	16.5	31.0	9.0	647	120	2.4
JUL										
28...	1030	10000	570	8.1	15.5	25.0	8.9	651	200	4.0
AUG										
18...	1045	5180	630	8.0	19.0	29.5	8.7	647	220	4.4
SEP										
01...	1115	3390	660	8.0	17.5	28.5	8.9	650	230	4.5

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT 27...	59	24	58	34	1.7	2.4	150	190	18	0.3
NOV 23...	60	24	58	33	1.7	2.5	160	200	18	0.3
DEC 17...	61	25	60	34	1.7	2.6	160	200	21	0.3
JAN 25...	58	24	56	33	1.6	2.5	160	180	19	0.3
FEB 24...	57	24	55	33	1.6	2.7	150	180	19	0.3
MAR 22...	61	25	59	33	1.7	2.7	150	200	22	0.3
APR 25...	50	19	46	33	1.5	1.5	120	150	12	0.2
MAY 25...	38	14	24	25	0.9	2.0	110	89	7.4	0.2
JUN 23...	31	10	21	27	0.9	1.8	84	71	5.1	0.2
JUL 28...	50	18	41	31	1.3	2.4	130	140	13	0.2
AUG 18...	56	19	49	33	1.5	2.7	140	160	15	0.3
SEP 01...	56	21	50	32	1.5	2.7	150	160	17	0.2

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT 27...	2.8	453	442	0.62	5870	0.10	0.13	<0.10	<0.01
NOV 23...	3.7	464	461	0.63	5740	0.07	0.09	<0.10	<0.01
DEC 17...	3.8	475	469	0.65	5360	0.06	0.08	0.14	<0.01
JAN 25...	4.7	444	440	0.6	3730	0.09	0.12	0.14	<0.01
FEB 24...	5.6	444	436	0.6	3030	0.10	0.13	0.18	0.01
MAR 22...	6.6	454	470	0.62	4710	0.07	0.09	0.31	0.02
APR 25...	8.9	360	361	0.49	6350	0.11	0.14	0.51	0.05
MAY 25...	10	251	251	0.34	9350	<0.06	0.08	0.18	0.02
JUN 23...	7.5	177	198	0.24	12800	0.08	0.10	0.12	0.02
JUL 28...	7.1	358	351	0.49	9670	0.06	0.08	0.14	0.00
AUG 18...	6.3	393	393	0.53	5500	<0.00	--	0.11	0.02
SEP 01...	6.1	372	401	0.51	3400	0.05	0.06	<0.10	0.02

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT		
27...	1030	90
NOV		
23...	1300	90
DEC		
17...	1345	90
JAN		
25...	1200	80
FEB		
24...	1015	80
MAR		
22...	1015	70
APR		
25...	1300	60
MAY		
25...	1000	40
JUN		
23...	1715	30
JUL		
28...	1030	70
AUG		
18...	1045	70
SEP		
01...	1115	70

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	810	710	830	730	850	770	---	310	370	610	770
2	790	770	700	---	730	850	770	620	330	350	630	840
3	---	790	710	830	730	850	---	540	330	---	630	750
4	840	770	710	830	730	850	770	460	330	510	630	---
5	850	780	---	830	730	850	800	430	---	510	630	680
6	840	770	780	830	---	---	790	440	350	500	630	670
7	840	---	800	830	720	850	780	430	360	500	---	760
8	840	710	790	830	710	720	800	---	390	500	630	750
9	830	720	770	---	710	730	780	430	380	500	630	770
10	---	720	800	870	710	720	---	460	370	---	730	770
11	860	710	790	870	720	720	810	380	360	530	630	---
12	880	720	---	880	710	720	800	370	---	530	720	720
13	890	720	710	860	---	---	790	430	380	530	770	740
14	890	---	760	880	720	720	780	430	360	530	---	720
15	890	770	770	880	740	670	810	---	370	530	710	710
16	890	760	770	---	740	720	810	460	410	540	650	710
17	---	760	790	730	740	700	---	430	410	---	---	730
18	890	770	790	730	740	670	780	420	400	540	---	---
19	890	790	---	730	740	750	920	440	---	540	---	720
20	890	770	830	720	---	---	800	440	400	540	630	760
21	880	---	830	730	740	750	500	430	330	570	---	680
22	880	750	830	730	770	750	530	---	340	570	---	760
23	890	770	820	---	770	760	540	430	340	570	---	990
24	---	770	830	720	770	750	---	440	340	---	---	720
25	770	780	840	720	770	750	540	380	350	570	630	---
26	770	780	---	740	770	750	520	390	---	570	630	720
27	770	780	830	730	---	---	520	380	390	570	620	720
28	770	---	820	730	770	760	530	370	400	570	---	740
29	780	700	830	740	---	760	520	---	370	570	750	730
30	770	700	830	---	---	770	520	400	370	570	630	740
31	---	---	830	740	---	770	---	400	---	---	410	---
MEAN	840	755	788	790	738	760	703	432	364	526	---	745

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	8.0	5.0	.0	2.0	4.5	6.0	---	13.0	15.0	20.0	18.5
2	13.5	7.5	4.5	---	2.5	5.0	6.5	9.5	13.5	15.5	20.0	19.0
3	---	7.0	5.0	.0	2.0	5.5	---	9.0	13.5	---	19.5	18.5
4	12.0	6.5	4.5	.5	2.5	5.0	4.5	9.5	13.0	16.0	20.0	---
5	11.0	7.0	---	.0	3.0	5.0	5.0	10.0	---	16.0	20.5	17.5
6	11.5	7.5	4.0	.0	---	---	5.5	10.5	13.0	16.5	20.0	17.0
7	11.0	---	3.5	.5	3.5	5.5	5.0	10.5	14.0	16.5	---	17.5
8	10.0	7.0	4.0	.0	3.0	6.0	6.0	---	14.0	17.0	19.0	16.5
9	9.0	6.5	3.5	---	4.0	6.5	6.5	11.0	13.5	17.0	19.5	17.5
10	---	6.0	4.0	.5	3.5	7.0	---	11.0	13.0	---	20.0	17.0
11	9.5	5.5	3.5	.0	4.0	7.0	6.5	11.5	12.0	17.5	20.0	---
12	9.0	6.0	---	.0	3.5	6.5	7.0	12.0	---	18.0	19.0	17.0
13	9.5	6.5	3.0	.0	---	---	7.0	11.5	12.0	18.5	19.5	16.5
14	9.0	---	3.5	.0	4.0	7.0	6.5	12.0	12.0	19.0	---	16.0
15	8.5	6.0	3.0	.0	4.5	6.0	7.0	---	12.5	19.0	20.0	16.5
16	9.0	5.5	2.5	---	5.0	4.5	6.5	12.5	14.0	20.0	20.0	17.0
17	---	6.0	3.0	.0	4.5	5.0	---	13.0	14.0	---	19.5	16.5
18	8.5	5.0	3.5	.0	5.5	5.5	7.0	13.5	14.5	20.5	19.5	---
19	9.0	5.5	---	.5	5.0	5.0	7.5	13.0	---	20.0	19.0	16.0
20	9.5	5.0	2.5	1.0	---	---	7.5	13.5	15.0	19.5	19.5	15.0
21	---	---	2.0	2.0	4.5	5.5	7.0	14.0	15.5	19.0	---	14.0
22	8.5	4.5	1.5	1.0	5.0	5.0	6.5	---	16.0	19.5	18.0	13.5
23	9.0	5.0	1.0	---	5.5	4.5	7.0	14.5	16.5	20.0	17.0	14.0
24	---	5.5	.5	3.0	5.5	4.0	---	15.0	17.0	---	18.0	14.5
25	8.5	4.5	.0	2.5	6.0	4.5	7.5	15.0	13.0	20.0	18.5	---
26	8.0	5.0	---	3.0	6.0	5.0	7.5	15.5	---	20.0	19.0	16.0
27	8.5	5.5	.5	3.5	---	---	7.0	16.0	15.0	19.5	20.0	16.0
28	9.0	---	.0	4.0	5.5	5.5	6.5	15.5	15.0	19.5	---	15.5
29	8.5	6.0	.0	3.5	---	6.0	6.0	---	16.0	20.0	19.0	15.5
30	8.0	6.5	.0	---	---	6.5	6.0	15.0	16.5	20.0	19.5	15.0
31	---	---	.0	3.0	---	6.0	---	14.5	---	---	19.0	---
MEAN	9.5	6.0	2.5	1.0	4.0	5.5	6.5	12.5	14.0	18.5	19.5	16.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 27...	1030	4800	9.5	206	2670
NOV 23...	1300	4580	4.5	77	952
DEC 17...	1345	4180	3.5	64	722
JAN 25...	1200	3110	2.5	32	269
FEB 24...	1015	2530	3.0	26	178
MAR 22...	1015	3840	5.5	353	3660
APR 25...	1300	6530	11.5	2300	40600
MAY 25...	1000	13800	14.5	2170	80900
JUN 23...	1715	26800	16.5	649	47000
JUL 28...	1030	10000	15.5	440	11900
AUG 18...	1045	5180	19.0	326	4560
SEP 01...	1115	3390	17.5	86	787

09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT

LOCATION.--Lat 40°35'20", long 109°27'53", in NW1/4SE1/4NE1/4 sec.5, T.3 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank 950 ft below State Highway 44, 5.5 mi upstream from Little Brush Creek, and 10.5 mi northeast of Vernal.

DRAINAGE AREA.--77.2 mi^2.

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,625 ft from topographic map. Prior to September 1980, water-stage recorder at site 250 ft upstream at different datum.

REMARKS.--Records good. Water from Oaks Park Reservoir on headwaters, capacity, 6,250 acre-ft diverted through Oaks Park Canal to Ashley Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 375 ft^3/s June 2, 1983, maximum gage height, 3.06 ft May 23, 1980 at different datum; minimum daily, 9.5 ft^3/s Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 375 ft^3/s June 2, gage height, 2.40 ft; minimum daily, 14 ft^3/s Feb. 17, 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	24	20	18	16	19	17	33	268	285	65	30
2	39	23	20	18	17	20	17	32	304	275	71	30
3	39	21	21	18	17	17	17	32	302	261	69	33
4	42	22	21	18	17	18	17	32	297	251	80	40
5	42	22	21	18	17	18	17	34	297	238	71	37
6	39	22	21	18	16	16	16	37	302	231	64	33
7	35	22	21	18	16	15	16	39	302	207	61	31
8	35	22	20	18	15	16	15	47	302	191	59	32
9	33	22	20	18	15	16	15	72	309	174	56	32
10	32	22	20	18	15	16	15	95	309	162	56	31
11	30	22	20	18	15	17	15	110	311	132	60	29
12	31	21	19	18	15	17	16	97	314	113	58	28
13	31	21	20	18	15	17	15	90	322	101	57	28
14	30	21	20	18	15	18	15	83	319	92	53	28
15	29	21	20	18	15	17	15	77	319	80	53	28
16	28	20	20	17	15	17	15	75	316	69	51	27
17	28	21	20	17	14	18	15	72	316	63	49	27
18	28	21	20	18	15	18	16	68	316	62	49	27
19	27	21	19	18	15	17	17	65	324	61	51	27
20	26	21	19	18	14	17	17	63	327	60	49	27
21	25	21	19	18	14	17	17	66	330	60	47	27
22	25	21	19	17	15	17	17	81	333	60	45	27
23	25	21	20	17	15	17	19	114	333	74	44	26
24	24	21	19	17	16	18	22	175	336	99	43	26
25	24	21	19	17	17	18	25	205	330	85	37	27
26	24	21	19	17	15	17	28	222	333	80	33	27
27	27	21	19	16	15	16	31	249	327	77	33	28
28	25	21	19	16	17	17	31	263	316	75	32	31
29	24	20	19	16	---	17	31	270	306	70	31	29
30	25	21	19	16	---	16	33	280	297	68	31	37
31	25	---	19	16	---	17	---	275	---	66	30	---
TOTAL	936	641	612	541	433	531	572	3453	9417	3922	1588	890
MEAN	30.2	21.4	19.7	17.5	15.5	17.1	19.1	111	314	127	51.2	29.7
MAX	42	24	21	18	17	20	33	280	336	285	80	40
MIN	24	20	19	16	14	15	15	32	268	60	30	26
AC-FT	1860	1270	1210	1070	859	1050	1130	6850	18680	7780	3150	1770

CAL YR 1982	TOTAL	12854.3	MEAN	35.2	MAX	178	MIN	9.5	AC-FT	25500
WTR YR 1983	TOTAL	23536	MEAN	64.5	MAX	336	MIN	14	AC-FT	46680

09266500 ASHLEY CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°34'39", long 109°37'17", in NE1/4NW1/4NE1/4 sec.12, T.3 S., R.20 E., Uintah County, Hydrologic Unit 14060002, on right bank 0.8 mi upstream from head of Utah Power & Light Co.'s canal, 4.5 mi upstream from Dry Fork, and 10 mi northwest of Vernal.

DRAINAGE AREA.--101 mi^2.

PERIOD OF RECORD.--October 1911 to April 1912, August to December 1912, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,230.61 ft NGVD of 1929. Prior to Nov. 13, 1917, nonrecording and water-stage recorder at several sites within 1.5 mi of present site at various datums. Nov. 14, 1917 to July 30, 1968, water-stage recorder at site 75 ft downstream at various datums.

REMARKS.--Records good. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft^3/s, diverts water from tributary spring about 1,000 ft above station (diversion began Aug. 1, 1941); at times, part of this flow is returned to Ashley Creek 2.5 mi below station. Prior to September 1961, pipeline capacity was approximately 5 ft^3/s and the return flow entered Ashley Creek 0.5 mi below station.

AVERAGE DISCHARGE.--70 years (1913-83), 99.6 ft^3/s, 72,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,500 ft^3/s June 11, 1965, gage height, 4.42 ft, datum then in use from rating table extended above 1,060 ft^3/s; maximum gage height, 6.09 ft June 16, 1929, present datum; minimum discharge, 3.2 ft^3/s Mar. 16, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 11	unknown	*2,270	4.33
June 18	unknown	2,260	4.26

Minimum discharge, 21 ft^3/s Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	91	57	42	39	29	29	48	905	494	90	104
2	146	87	57	42	38	29	28	46	1090	471	99	104
3	156	78	59	40	39	29	29	46	926	454	108	129
4	164	82	58	39	38	29	28	45	1050	396	112	150
5	168	81	57	42	36	29	29	48	1160	363	92	140
6	146	81	56	41	36	29	28	52	954	358	86	114
7	145	80	55	41	35	28	28	54	898	355	85	106
8	137	79	55	41	35	28	28	59	898	335	80	114
9	126	78	54	41	35	28	26	81	891	386	78	145
10	120	77	53	41	33	28	26	95	1210	400	107	137
11	115	78	52	41	33	29	26	110	1620	295	128	130
12	116	72	50	40	33	30	28	112	1410	259	125	126
13	112	75	50	40	33	30	26	112	844	233	123	120
14	109	69	49	40	31	30	25	112	670	221	115	117
15	112	67	48	40	31	29	26	108	754	238	127	120
16	114	65	48	39	30	29	28	108	928	194	112	115
17	110	63	48	40	31	30	26	102	1310	176	103	116
18	107	62	48	39	31	29	28	95	1670	162	98	113
19	98	64	47	39	31	28	28	95	1530	153	109	113
20	96	66	46	39	31	29	26	93	1490	151	98	108
21	93	67	45	39	31	29	30	95	1360	149	90	107
22	93	67	45	38	30	29	29	120	1210	153	83	99
23	91	65	45	38	30	29	29	165	1150	151	65	96
24	91	64	45	35	29	28	33	238	1410	169	84	96
25	92	65	44	36	30	29	41	344	885	136	90	100
26	96	63	43	35	29	28	42	465	747	129	92	94
27	102	62	43	39	29	28	44	560	698	124	92	113
28	93	62	43	39	29	28	45	765	707	120	91	119
29	93	61	44	39	---	26	46	982	615	102	90	107
30	95	59	44	40	---	28	46	1050	542	101	87	173
31	96	---	44	40	---	30	---	989	---	95	64	---
TOTAL	3590	2130	1532	1225	916	891	931	7394	31532	7523	3003	3525
MEAN	116	71.0	49.4	39.5	32.7	28.7	31.0	239	1051	243	96.9	118
MAX	168	91	59	42	39	30	46	1050	1670	494	128	173
MIN	91	59	43	35	29	26	25	45	542	95	64	94
AC-FT	7120	4220	3040	2430	1820	1770	1850	14670	62540	14920	5960	6990

CAL YR 1982	TOTAL	39152	MEAN	107	MAX	911	MIN	10	AC-FT	77660
WTR YR 1983	TOTAL	64192	MEAN	176	MAX	1670	MIN	25	AC-FT	127300

09267500 MOSBY CANAL NEAR LAPOINT, UT

LOCATION.--Lat 40°36'30", long 109°53'00", in sec.27, T.2 S., R.18 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, on left bank 4.5 mi southeast of Paradise Park Reservoir, 8 mi downstream from diversion from Dry Fork, and 16 mi northwest of Lapoint.

PERIOD OF RECORD.--July 1954 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,500 ft from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Canal began diverting in 1942 or 1943 from Dry Fork for irrigation in Deep Creek basin. Since 1975 flow regulated by Julius Park Reservoir, capacity 200 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37 ft^3/s June 16, 17, 1969; no flow for extended periods each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	.00	.00	.00	.00	.00	.00	.00	7.0	3.2	18	13
2	2.3	.00	.00	.00	.00	.00	.00	.00	8.2	2.3	18	13
3	2.2	.00	.00	.00	.00	.00	.00	.00	7.5	1.8	19	15
4	2.4	.00	.00	.00	.00	.00	.00	.00	7.7	1.4	19	17
5	2.5	.00	.00	.00	.00	.00	.00	.00	8.3	.87	18	15
6	1.9	.00	.00	.00	.00	.00	.00	.00	8.2	.61	17	14
7	1.7	.00	.00	.00	.00	.00	.00	.00	8.1	.40	17	13
8	1.4	.00	.00	.00	.00	.00	.00	.00	8.0	.27	17	14
9	1.0	.00	.00	.00	.00	.00	.00	.00	8.0	3.8	17	15
10	.75	.00	.00	.00	.00	.00	.00	.00	12	19	16	14
11	.68	.00	.00	.00	.00	.00	.00	.00	11	20	17	14
12	.55	.00	.00	.00	.00	.00	.00	.00	5.6	19	17	13
13	.47	.00	.00	.00	.00	.00	.00	.00	3.7	19	16	13
14	.40	.00	.00	.00	.00	.00	.00	.00	6.5	18	16	13
15	.37	.00	.00	.00	.00	.00	.00	.00	10	18	17	12
16	.35	.00	.00	.00	.00	.00	.00	.00	15	18	17	12
17	.34	.00	.00	.00	.00	.00	.00	.00	16	18	16	12
18	.32	.00	.00	.00	.00	.00	.00	.00	17	17	16	12
19	.24	.00	.00	.00	.00	.00	.00	.00	16	17	18	11
20	.16	.00	.00	.00	.00	.00	.00	.00	14	20	17	10
21	.11	.00	.00	.00	.00	.00	.00	.00	13	21	16	11
22	.07	.00	.00	.00	.00	.00	.00	.00	12	20	16	11
23	.05	.00	.00	.00	.00	.00	.00	.00	11	21	15	11
24	.05	.00	.00	.00	.00	.00	.00	.00	10	20	15	12
25	.05	.00	.00	.00	.00	.00	.00	.10	10	19	15	13
26	.08	.00	.00	.00	.00	.00	.00	.25	9.7	19	15	12
27	.12	.00	.00	.00	.00	.00	.00	.46	11	19	15	14
28	.13	.00	.00	.00	.00	.00	.00	.95	9.1	19	15	16
29	.09	.00	.00	.00	---	.00	.00	1.5	7.6	18	14	14
30	.04	.00	.00	.00	---	.00	.00	3.0	5.1	18	14	17
31	.00	---	.00	.00	---	.00	---	4.9	---	18	14	---
TOTAL	23.72	.00	.00	.00	.00	.00	.00	11.16	296.3	429.65	507	396
MEAN	.77	.00	.00	.00	.00	.00	.00	.36	9.88	13.9	16.4	13.2
MAX	2.9	.00	.00	.00	.00	.00	.00	4.9	17	21	19	17
MIN	.00	.00	.00	.00	.00	.00	.00	.00	3.7	.27	14	10
AC-FT	47	.00	.00	.00	.00	.00	.00	22	588	852	1010	785

CAL YR 1982	TOTAL	2796.13	MEAN	7.66	MAX	30	MIN	.00	AC-FT	5550
WTR YR 1983	TOTAL	1663.83	MEAN	4.56	MAX	21	MIN	.00	AC-FT	3300

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT

LOCATION.--Lat 40°38'34", long 109°48'37", in NE1/4NW1/4SE1/4 sec.17, T.2 S., R.19 E., Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on left bank 2 mi upstream from mouth, and 9.5 mi northwest of town of Dry Fork.

DRAINAGE AREA.--8.62 mi^2.

PERIOD OF RECORD.--April 1946 to current year.

REVISED RECORDS.--WSP 2125: Drainage area. WDR UT-77-1: 1976.

GAGE.--Water-stage recorder. Datum of gage is 8,284.28 ft NGVD of 1929 (levels by Utah Water and Power Board).

REMARKS.--Records good except those for winter months, which are fair.

AVERAGE DISCHARGE.--37 years, 6.84 ft^3/s, 4,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 249 ft^3/s June 19, 1983, gage height, 3.68 ft; no flow for part of Apr. 21, 1961, May 1, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 11	1700	102	3.07
June 19	unknown	*249	3.68

Minimum daily, 1.3 ft^3/s Apr. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	6.6	4.3	2.6	2.3	1.8	1.5	1.7	68	63	17	5.1
2	14	6.0	4.2	2.6	2.2	1.8	1.5	1.7	74	61	17	6.0
3	15	5.3	4.0	2.6	2.2	1.8	1.5	1.7	66	56	16	6.0
4	16	5.9	4.0	2.5	2.2	1.7	1.5	1.7	65	51	15	6.3
5	16	6.3	4.0	2.6	2.3	1.8	1.4	1.8	69	49	15	5.2
6	15	6.1	4.1	2.7	2.3	1.7	1.3	1.8	69	48	15	4.9
7	15	5.8	4.1	2.8	2.0	1.7	1.3	1.9	69	48	14	4.7
8	14	5.5	4.0	2.9	2.1	1.7	1.4	2.3	66	45	14	5.4
9	13	5.6	4.0	2.8	2.2	1.7	1.4	2.9	69	51	13	5.4
10	12	5.5	4.0	2.8	2.1	1.8	1.5	3.1	73	48	13	4.7
11	12	5.2	4.1	2.8	2.0	1.6	1.5	3.8	88	42	12	4.5
12	12	4.7	4.1	2.7	2.0	1.6	1.5	3.3	84	41	13	4.4
13	12	4.9	4.0	2.6	2.0	1.7	1.4	3.2	67	39	12	4.1
14	11	4.7	3.9	2.7	2.0	1.6	1.4	3.2	60	37	11	4.1
15	11	4.3	3.7	2.7	2.0	1.7	1.4	2.9	62	35	11	4.1
16	11	4.0	3.5	2.7	2.0	1.6	1.4	2.9	74	33	9.2	3.8
17	11	4.1	3.4	2.7	1.9	1.6	1.4	2.8	85	31	9.2	3.8
18	10	4.4	3.3	2.8	1.9	1.6	1.5	2.8	119	29	8.6	3.7
19	9.2	4.6	3.4	2.9	2.1	1.5	1.5	2.7	152	28	9.2	3.7
20	9.0	4.8	3.4	2.7	2.0	1.5	1.7	2.7	150	27	8.2	3.7
21	8.7	4.5	3.3	2.8	1.9	1.4	1.7	3.4	146	27	7.9	3.7
22	8.3	4.3	3.4	2.9	1.8	1.5	1.7	4.4	124	27	7.3	3.7
23	8.2	4.1	3.5	2.7	1.8	1.6	1.7	7.6	109	25	7.0	3.6
24	8.0	3.9	3.4	2.6	1.8	1.4	2.0	13	118	25	6.6	3.7
25	7.9	4.1	3.1	2.5	1.8	1.5	1.9	22	87	22	6.3	3.7
26	8.1	3.9	3.0	2.5	1.7	1.5	1.8	32	78	22	6.0	3.5
27	7.8	4.0	2.9	2.5	1.8	1.5	1.8	44	71	21	6.0	5.2
28	6.8	4.2	2.8	2.5	1.8	1.6	1.8	56	72	21	5.8	3.9
29	7.4	4.3	2.6	2.4	---	1.5	1.8	68	69	19	5.6	3.7
30	7.2	4.2	2.6	2.4	---	1.5	1.8	66	67	18	5.4	8.2
31	6.9	---	2.6	2.4	---	1.4	---	62	---	18	5.1	---
TOTAL	337.5	145.8	110.7	82.4	56.2	49.9	47.0	429.3	2570	1107	321.4	136.5
MEAN	10.9	4.86	3.57	2.66	2.01	1.61	1.57	13.8	85.7	35.7	10.4	4.55
MAX	16	6.6	4.3	2.9	2.3	1.8	2.0	68	152	63	17	8.2
MIN	6.8	3.9	2.6	2.4	1.7	1.4	1.3	1.7	60	18	5.1	3.5
AC-FT	669	289	220	163	111	99	93	852	5100	2200	637	271

CAL YR 1982	TOTAL	3408.29	MEAN	9.34	MAX	68	MIN	.95	AC-FT	6760
WTR YR 1983	TOTAL	5393.7	MEAN	14.8	MAX	152	MIN	1.3	AC-FT	10700

09268900 BROWNIE CANYON CREEK ABOVE SINKS, NEAR DRY FORK, UT

LOCATION.--Lat 40°39'34", long 109°45'01", in NE1/4NE1/4SE1/4 sec.11, T.2 S., R.19 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on right bank 4.5 mi upstream from mouth and 8.5 mi northwest of town of Dry Fork.

DRAINAGE AREA.--8.24 mi^2.

PERIOD OF RECORD.--October 1960 to current year. Published as East Fork of Dry Fork above sinks, near Dry Fork prior to October 1967.

GAGE.--Water-stage recorder. Altitude of gage is 8,300 ft from topographic map. Prior to July 28, 1978 at 0.53 ft higher datum.

REMARKS.--Records good except those for winter months, which are fair. No diversion above station.

AVERAGE DISCHARGE.--23 years, 13.2 ft^3/s, 9,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 592 ft^3/s June 18, 1983, gage height, 3.52 ft, from rating curve extended above 200 ft^3/s; no flow for part of Apr. 23, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 11	1900	295	2.95
June 18	unknown	*592	3.52

Minimum daily, 0.68 ft^3/s Apr. 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	11	7.4	3.5	3.1	2.8	2.0	1.6	98	112	19	6.5
2	32	9.9	7.2	3.4	3.2	2.9	1.9	1.6	116	101	18	7.3
3	35	9.7	6.7	3.3	3.1	2.9	1.7	1.5	100	94	18	8.3
4	36	9.9	6.4	3.2	3.0	2.9	1.6	2.0	114	82	17	12
5	34	9.8	6.5	3.3	3.0	2.9	1.5	2.2	123	77	16	9.0
6	30	9.6	6.5	3.4	3.0	2.8	1.4	2.0	121	74	15	6.8
7	28	9.7	6.6	3.5	2.9	2.8	1.3	2.1	116	72	14	6.2
8	26	9.8	6.5	3.5	2.8	2.8	1.2	3.5	121	72	14	7.6
9	23	9.7	6.1	3.2	2.8	2.8	1.2	5.4	119	76	14	7.3
10	21	9.4	5.7	3.1	2.8	2.8	1.2	5.9	172	73	13	6.2
11	20	9.0	5.3	3.1	2.9	2.8	1.3	5.7	218	67	13	5.8
12	20	8.6	5.1	3.1	2.9	2.8	1.6	5.4	114	61	12	5.6
13	19	8.1	5.1	3.2	2.8	2.8	2.2	4.8	58	57	12	5.6
14	18	7.7	5.1	3.2	2.8	2.8	2.2	4.6	51	52	12	5.6
15	19	7.5	5.0	3.3	2.8	2.7	1.8	4.3	66	47	14	5.4
16	19	7.8	4.7	3.4	2.8	2.7	2.2	4.2	88	43	12	5.4
17	18	8.3	4.6	3.5	2.8	2.7	2.1	4.0	162	38	11	5.3
18	17	8.7	4.5	3.4	2.8	2.5	.91	3.6	274	35	10	5.2
19	15	8.6	4.4	3.5	2.8	2.4	.68	3.6	252	33	14	5.1
20	14	8.2	4.4	3.6	2.8	2.4	.68	3.8	232	31	10	5.0
21	14	7.8	4.6	3.3	2.8	2.4	.68	4.6	255	29	9.8	5.0
22	13	7.4	4.7	3.3	2.9	2.5	.72	6.2	295	28	9.3	4.8
23	13	7.1	4.5	3.4	2.9	2.7	.87	8.8	292	26	9.0	4.8
24	13	7.4	4.2	3.3	2.8	2.5	1.3	15	289	25	8.7	5.0
25	12	7.2	4.1	3.2	2.8	2.4	1.9	23	195	24	8.5	4.8
26	13	7.4	3.9	3.2	2.8	2.2	1.7	36	164	23	8.2	4.6
27	12	7.7	3.8	3.2	2.8	2.1	1.6	55	148	22	7.9	8.5
28	12	7.9	3.6	3.2	2.8	1.9	1.6	82	148	21	7.7	6.1
29	12	7.7	3.6	3.2	---	1.8	1.6	106	134	21	7.3	5.2
30	11	7.7	3.5	3.1	---	1.9	1.6	118	123	20	7.0	19
31	11	---	3.5	3.1	---	2.0	---	106	---	19	6.8	---
TOTAL	612	256.3	157.8	102.2	80.5	79.4	44.24	632.4	4758	1555	368.2	199.0
MEAN	19.7	8.54	5.09	3.30	2.87	2.56	1.47	20.4	159	50.2	11.9	6.63
MAX	36	11	7.4	3.6	3.2	2.9	2.2	118	295	112	19	19
MIN	11	7.1	3.5	3.1	2.8	1.8	.68	1.5	51	19	6.8	4.6
AC-FT	1210	508	313	203	160	157	88	1250	9440	3080	730	395

CAL YR 1982	TOTAL	5538.12	MEAN	15.2	MAX	135	MIN	.92	AC-FT	10980
WTR YR 1983	TOTAL	8845.04	MEAN	24.2	MAX	295	MIN	.68	AC-FT	17540

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT

LOCATION.--Lat 40°31'35", long 109°36'18", in SE1/4NE1/4SW1/4 sec.30, T.3 S., R.21 E., Uintah County, Hydrologic Unit 14060002, on left bank 900 ft upstream from mouth and 4 mi southeast of town of Dry Fork.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--July 1954 to current year.

REVISED RECORD.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,842.9 ft NGVD of 1929.

REMARKS.--Records fair. Several diversions above station for irrigation, including Mosby Canal (see station 09267500) which began diverting water for irrigation in Deep Creek basin during 1942 or 1943.

AVERAGE DISCHARGE.--29 years, 27.9 ft^3/s, 20,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,920 ft^3/s June 21, 1983, gage height, 6.98 ft; no flow for several periods in 1956-61, 1963, 1966, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 12	1300	1,560	5.58
June 21	unknown	*1,920	6.98

Minimum daily, 1.9 ft^3/s Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	21	5.6	2.6	2.3	5.4	6.4	6.9	340	638	105	5.6
2	44	17	5.1	2.4	2.1	6.2	6.3	6.9	426	602	100	4.4
3	47	13	5.3	2.3	2.3	6.5	6.9	4.9	367	525	95	7.1
4	50	9.3	5.7	2.2	2.2	7.1	6.9	4.2	412	455	138	8.8
5	56	8.2	5.4	2.2	2.0	9.5	6.6	3.9	434	405	86	7.9
6	59	7.4	5.2	2.3	1.9	10	6.4	4.0	550	401	83	11
7	60	6.9	4.9	2.5	2.1	8.3	5.9	3.9	518	415	79	9.2
8	61	8.0	4.4	2.6	2.2	7.4	5.7	3.5	521	388	73	9.0
9	61	10	4.3	2.5	2.3	8.4	5.5	3.2	434	437	73	7.3
10	61	10	4.1	2.3	2.3	9.8	5.4	3.0	511	475	73	6.5
11	60	9.3	4.0	2.2	2.4	11	5.4	4.7	828	369	75	5.5
12	57	8.2	3.8	2.1	2.5	11	6.9	4.4	1320	309	69	4.5
13	56	7.2	4.1	2.1	2.6	9.2	6.6	3.5	892	275	66	4.1
14	55	6.7	4.4	2.1	2.7	11	6.6	3.4	568	252	51	3.7
15	54	6.5	4.3	2.1	2.5	8.3	6.4	3.4	470	228	50	3.5
16	53	6.5	4.2	2.1	2.7	6.7	6.0	3.7	525	189	52	3.4
17	52	6.1	4.0	2.3	2.7	7.0	5.6	3.2	722	152	50	3.1
18	50	5.9	4.0	2.4	2.6	7.3	3.3	3.0	860	126	51	2.9
19	49	9.7	3.9	2.5	2.7	6.8	3.6	3.0	1230	115	54	2.8
20	48	7.0	3.8	2.4	2.8	6.2	3.2	3.0	1670	117	47	2.9
21	46	6.0	3.7	2.3	3.0	6.0	3.2	2.9	1290	113	45	3.2
22	42	5.7	3.5	2.4	3.1	6.4	3.5	2.7	1280	112	39	3.2
23	39	5.5	3.2	2.2	3.1	6.7	3.3	2.6	1390	112	36	3.3
24	36	7.5	3.0	2.1	3.2	7.2	3.2	2.6	1380	112	31	3.7
25	33	5.7	3.0	2.3	3.2	7.3	3.1	2.3	838	113	28	3.6
26	32	6.3	2.8	2.2	3.3	6.7	2.9	29	720	112	23	3.4
27	37	6.0	2.6	2.3	4.5	6.7	3.0	51	716	112	18	6.7
28	27	5.5	2.4	2.4	4.7	8.0	3.3	72	766	111	12	5.1
29	24	4.9	2.3	2.5	---	7.5	3.4	132	720	112	11	4.3
30	22	5.3	2.4	2.6	---	7.1	4.0	226	681	110	8.9	8.0
31	23	---	2.6	2.4	---	7.1	---	278	---	108	8.0	---
TOTAL	1434	242.3	122.0	71.9	76.0	239.8	148.5	880.8	23379	8100	1729.9	157.7
MEAN	46.3	8.08	3.94	2.32	2.71	7.74	4.95	28.4	779	261	55.8	5.26
MAX	61	21	5.7	2.6	4.7	11	6.9	278	1670	638	138	11
MIN	22	4.9	2.3	2.1	1.9	5.4	2.9	2.3	340	108	8.0	2.8
AC-FT	2840	481	242	143	151	476	295	1750	46370	16070	3430	313

CAL YR 1982	TOTAL	12529.01	MEAN	34.3	MAX	510	MIN	.55	AC-FT	24850
WTR YR 1983	TOTAL	36581.9	MEAN	100	MAX	1670	MIN	1.9	AC-FT	72560

09271500 ASHLEY CREEK NEAR JENSEN, UT

LOCATION.--Lat 40°22'29", long 109°24'27", in NE1/4NW1/4NE1/4 sec.23, T.5 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank just downstream from bridge on U.S. Highway 40, 3 mi upstream from mouth, and 3 mi west of Jensen.

DRAINAGE AREA.--383 mi^2.

PERIOD OF RECORD.--October 1946 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4,795.36 ft NGVD of 1929.

REMARKS.--Records good except those for winter months, which are fair. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft on Big Brush Creek and diverted to Ashley Creek basin for irrigation. Large diversions above station for irrigation and municipal water supply mostly above station, including diversion to Steinaker Reservoir, constructed by the Bureau of Reclamation in 1961, capacity, 38,090 acre-ft. Records of Steinaker Reservoir diversion are in the Bureau of Reclamation office at Provo, Utah.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,660 ft^3/s June 20, 1983, gage height, 7.14 ft; maximum gage height, 7.16 ft June 11, 1965; no flow part of Aug. 9, 1956, and several days in August and September 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,660 ft^3/s June 20, gage height, 7.14 ft; minimum daily, 15.0 ft^3/s Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	145	40	17	42	200	165	106	695	1060	44	29
2	230	66	40	17	43	188	167	125	985	864	50	30
3	242	53	36	17	42	162	172	71	881	780	42	26
4	252	48	34	18	41	128	167	54	870	627	36	34
5	269	44	33	20	42	148	161	47	885	530	29	38
6	252	43	33	23	41	134	161	48	1090	477	28	43
7	242	42	32	26	49	104	161	52	1020	452	21	32
8	231	47	32	30	53	90	162	44	915	448	21	29
9	215	62	32	34	61	88	159	45	998	532	21	40
10	210	59	33	32	63	86	158	51	1290	669	15	41
11	203	69	33	30	63	85	160	69	1720	453	16	35
12	203	54	33	28	57	89	188	79	2190	305	20	37
13	193	49	34	26	58	85	180	71	1490	231	30	37
14	190	44	33	27	63	96	151	72	1110	157	30	34
15	185	42	33	27	63	118	70	71	1270	52	27	34
16	186	40	32	33	64	114	60	74	1480	43	27	33
17	183	39	33	38	64	146	60	64	2120	33	27	32
18	178	39	24	58	63	174	64	43	2610	31	27	29
19	168	46	26	54	65	162	61	42	2830	29	32	28
20	164	45	25	51	68	154	57	39	3030	34	34	27
21	158	40	27	48	68	152	58	32	3010	48	39	32
22	156	37	28	46	66	152	58	28	2940	61	36	37
23	154	36	31	43	70	153	56	36	2880	70	28	35
24	149	34	30	49	82	155	56	82	2920	64	29	40
25	144	35	26	48	103	158	65	215	2560	75	31	36
26	146	32	20	47	111	153	62	242	1980	89	33	40
27	226	33	20	52	109	149	60	229	1620	79	32	50
28	178	32	18	54	140	157	69	397	1390	69	31	61
29	157	32	16	55	---	168	75	627	1270	59	32	66
30	156	35	17	54	---	166	83	748	1020	56	30	96
31	167	---	17	49	---	163	---	707	---	47	28	---
TOTAL	6029	1422	901	1151	1854	4277	3326	4610	51069	8524	926	1161
MEAN	194	47.4	29.1	37.1	66.2	138	111	149	1702	275	29.9	38.7
MAX	269	145	40	58	140	200	188	748	3030	1060	50	96
MIN	144	32	16	17	41	85	56	28	695	29	15	26
AC-FT	11960	2820	1790	2280	3680	8480	6600	9140	101300	16910	1840	2300

CAL YR 1982	TOTAL	21837.7	MEAN	59.8	MAX	410	MIN	4.0	AC-FT	43320
WTR YR 1983	TOTAL	85250	MEAN	234	MAX	3030	MIN	15	AC-FT	169100

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT

LOCATION.--Lat 40°27'01", long 110°53'01", in SE1/4NE1/4SE1/4 sec.27, T.1 N., R.9 W., Uinta Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 1,500 ft upstream from Wolf Creek, and 7.1 mi northwest of Hanna.

DRAINAGE AREA.--61.6 mi^2.

PERIOD OF RECORD.--May to October 1904 (gage heights only, fragmentary), August 1921 to March 1922, October 1922 to September 1923, October 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,218 ft from topographic map. Prior to Oct. 1, 1923, nonrecording gages at approximately same site at different datums.

REMARKS.--Records good except those for winter periods, which are poor. One small diversion for irrigation of about 100 acres above station.

AVERAGE DISCHARGE.--39 years (1922-23, 1945-83), 49.1 ft^3/s, 35,570 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 758 ft^3/s June 5, 1967, maximum gage height, 4.40 ft June 4, 1952; minimum discharge recorded, 0.19 ft^3/s Mar. 29, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	2400	576	2.96
June 10	2400	618	3.12
June 18	2330	*670	3.32

Minimum recorded, 7.5 ft^3/s Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	27	21	14	12	16	21	44	475	211	58	36
2	38	24	20	16	11	16	20	50	479	193	56	40
3	38	26	19	19	10	16	20	55	441	175	58	44
4	37	25	18	20	10	17	19	57	467	157	56	46
5	37	27	17	19	11	17	18	72	503	143	52	40
6	33	26	18	20	11	17	17	74	523	137	49	30
7	34	25	18	20	11	17	17	69	523	135	52	30
8	32	24	19	19	11	19	18	90	542	131	51	32
9	30	24	19	18	12	19	19	107	544	124	49	30
10	28	24	19	18	12	20	20	94	548	127	46	30
11	28	22	19	18	12	22	20	85	539	116	44	30
12	29	19	19	18	11	22	20	74	541	114	45	30
13	28	18	18	18	11	22	20	68	455	103	45	29
14	28	18	18	19	12	22	19	68	414	100	46	30
15	28	18	18	19	12	22	20	69	430	99	42	29
16	28	18	18	19	12	23	21	65	458	97	46	27
17	28	19	18	19	12	23	24	62	497	89	42	27
18	28	20	18	20	12	21	26	68	511	85	47	27
19	26	20	17	19	12	19	29	65	526	83	46	27
20	26	20	17	20	14	18	36	64	477	82	42	27
21	26	20	17	19	15	18	37	85	464	78	40	27
22	26	20	18	20	16	18	39	110	432	84	38	27
23	26	20	18	21	16	19	37	144	405	86	37	27
24	26	19	17	19	16	20	54	192	384	76	36	31
25	26	19	15	19	16	20	51	243	355	77	36	29
26	29	19	14	18	15	21	43	301	326	70	35	28
27	31	20	13	17	15	22	41	352	301	65	33	30
28	28	20	12	16	16	21	41	395	280	61	33	30
29	27	21	11	14	---	21	43	460	254	58	36	28
30	29	21	12	14	---	21	43	513	230	55	39	32
31	29	---	13	14	---	21	---	499	---	55	36	---
TOTAL	927	643	528	563	356	610	853	4694	13324	3266	1371	930
MEAN	29.9	21.4	17.0	18.2	12.7	19.7	28.4	151	444	105	44.2	31.0
MAX	40	27	21	21	16	23	54	513	548	211	58	46
MIN	26	18	11	14	10	16	17	44	230	55	33	27
AC-FT	1840	1280	1050	1120	706	1210	1690	9310	26430	6480	2720	1840

CAL YR 1982	TOTAL	27162.0	MEAN	74.4	MAX	513	MIN	8.4	AC-FT	53880
WTR YR 1983	TOTAL	28065	MEAN	76.9	MAX	548	MIN	10	AC-FT	55670

09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UT

LOCATION.--Lat 40°28'16", long 110°55'05", in NE1/4SW1/4NW1/4 sec.21, T.1 N., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060003, Wasatch National Forest, on left bank 1.5 mi upstream from Rhoades Canyon, 2.8 mi upstream from mouth, and 9 mi northwest of Hanna.

DRAINAGE AREA.--10.6 mi^2.

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and masonry control. Altitude of gage is 7,740 ft from topographic map.

REMARKS.--Records good. No diversions above station.

AVERAGE DISCHARGE.--38 years, 7.68 ft^3/s, 5,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft^3/s June 18, 1983, gage height, 2.85 ft; minimum, 0.2 ft^3/s sometime during Jan. 2-31, 1962, probably result of temporary obstruction upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 25 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 12	0500	131	2.72
June 18	2100	*181	2.85

Minimum daily, 2.8 ft^3/s Mar. 16, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.3	7.3	6.3	5.7	5.1	4.6	5.1	41	51	21	12
2	7.0	7.0	7.0	6.3	5.7	4.4	4.6	5.1	56	49	20	12
3	7.0	7.0	7.0	6.3	5.7	4.6	4.6	5.1	53	47	20	13
4	7.0	7.0	7.0	6.3	5.7	3.5	4.6	5.2	61	43	19	13
5	7.0	7.0	7.0	6.3	5.7	4.6	4.6	5.4	58	42	18	12
6	6.7	7.0	7.0	6.3	5.7	5.1	4.6	5.4	59	40	17	12
7	6.3	7.0	7.0	6.3	5.7	3.8	4.5	5.5	58	38	18	12
8	7.0	7.0	7.0	6.3	5.7	3.1	4.6	5.8	66	37	17	12
9	6.3	7.0	7.0	6.3	5.7	3.0	4.6	5.5	70	39	17	11
10	6.3	7.3	7.0	6.3	5.7	3.1	4.6	5.6	82	39	16	11
11	6.3	7.4	7.0	6.3	5.7	3.3	4.6	5.4	104	38	17	10
12	6.7	7.4	6.7	6.0	5.7	4.8	4.6	5.4	92	36	16	10
13	7.0	7.4	6.7	6.0	5.7	4.8	4.6	5.5	69	33	16	10
14	7.4	7.3	6.7	6.0	5.7	3.6	4.6	5.4	63	32	15	10
15	7.4	7.4	6.9	6.0	5.7	2.9	4.6	5.5	74	32	15	9.9
16	7.8	7.4	6.7	6.0	5.6	2.8	4.6	5.4	80	32	15	9.9
17	7.8	7.4	6.7	6.0	5.1	3.0	4.6	5.4	99	31	16	9.8
18	7.8	7.4	6.7	6.0	5.2	3.5	4.6	5.5	113	30	14	9.6
19	7.2	7.4	6.7	6.0	5.1	4.2	4.8	5.5	102	30	13	9.6
20	7.2	7.4	6.7	6.0	5.1	4.6	4.8	5.5	80	29	13	9.5
21	6.8	7.4	6.7	6.0	5.1	3.5	4.8	5.8	74	28	13	9.5
22	6.8	7.4	6.7	6.0	5.1	2.8	4.9	5.7	76	29	12	9.3
23	6.9	7.2	6.7	6.0	5.1	2.9	5.3	6.4	74	29	12	9.8
24	7.0	7.1	6.6	6.0	5.1	4.2	5.2	8.6	74	26	12	10
25	7.4	7.0	6.3	6.0	5.1	4.3	5.1	12	64	27	12	9.8
26	7.6	7.0	6.3	5.9	5.1	4.3	5.1	22	59	26	12	9.5
27	7.5	7.0	6.3	5.7	5.2	4.3	5.1	33	55	26	12	9.8
28	7.1	7.0	6.3	5.7	5.2	4.3	5.1	40	54	24	12	9.5
29	7.4	7.0	6.3	5.7	---	4.3	5.1	49	54	24	12	9.5
30	7.5	7.3	6.3	5.7	---	4.6	5.1	52	54	23	12	10
31	7.4	---	6.3	5.7	---	4.6	---	46	---	22	12	---
TOTAL	219.6	215.9	208.6	187.7	152.6	121.9	143.1	388.7	2118	1032	466	315.0
MEAN	7.08	7.20	6.73	6.05	5.45	3.93	4.77	12.5	70.6	33.3	15.0	10.5
MAX	7.8	7.4	7.3	6.3	5.7	5.1	5.3	52	113	51	21	13
MIN	6.3	7.0	6.3	5.7	5.1	2.8	4.5	5.1	41	22	12	9.3
AC-FT	436	428	414	372	303	242	284	771	4200	2050	924	625

CAL YR 1982	TOTAL	4036.1	MEAN	11.1	MAX	60	MIN	2.1	AC-FT	8010
WTR YR 1983	TOTAL	5569.1	MEAN	15.3	MAX	113	MIN	2.8	AC-FT	11050

09277500 DUCHESNE RIVER NEAR TABIONA, UT

LOCATION.--Lat 40°08'01", long 110°36'06", in SE1/4SW1/4SE1/4 sec.18, T.2 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank on upstream site of bridge on State Highway 35, 6 mi upstream from Rock Creek, and 7 mi southeast of Tabiona.

DRAINAGE AREA.--356 mi^2.

PERIOD OF RECORD.--October 1918 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,190 ft from topographic map. Prior to Oct. 15, 1934, nonrecording gage, and Oct. 16, 1934 to Nov. 6, 1953, water-stage recorder at site 0.5 mi upstream at various datums. Nov. 7, 1953 to Nov. 7, 1972, at site 1 mi upstream at different datum.

REMARKS.--Records good. Several diversions above station for irrigation, including a transmountain diversion through Duchesne Tunnel 20 mi upstream.

AVERAGE DISCHARGE.--65 years, 200 ft^3/s, 144,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft^3/s June 16, 1963, gage height, 7.97 ft from floodmarks, caused by failure of Little Deer Creek Dam 20 mi upstream. Rating curve extended above 400 ft^3/s on basis of slope-area measurement and area-velocity study of peak flow; minimum recorded, 27 ft^3/s Oct. 17, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	0900	1,770	5.13
June 12	0800	2,020	5.32
June 19	0700	*2,290	5.42

Minimum recorded, 87 ft^3/s Apr. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	214	166	98	107	117	121	167	1410	1200	209	187
2	196	204	165	100	106	119	125	172	1410	1110	192	184
3	190	183	160	100	100	119	121	178	1200	994	202	284
4	189	195	159	108	95	119	112	176	1230	931	205	337
5	261	192	163	115	100	119	119	202	1330	860	196	287
6	276	192	156	120	111	119	116	220	1410	832	184	254
7	283	186	152	121	113	118	114	205	1380	808	179	239
8	273	195	159	119	111	117	120	227	1520	802	187	263
9	264	204	153	117	110	115	117	278	1550	793	184	256
10	250	195	153	124	111	122	129	265	1650	846	183	243
11	250	201	145	119	106	132	126	251	1760	706	228	234
12	248	180	135	117	106	143	126	233	1730	629	218	232
13	240	192	133	120	115	140	124	218	1350	571	234	219
14	236	166	130	118	112	141	119	218	1190	531	218	198
15	237	163	120	116	108	127	115	216	1220	508	218	190
16	240	169	125	117	114	117	117	222	1360	496	236	183
17	240	172	120	119	105	130	117	211	1670	458	242	178
18	236	178	120	119	111	123	124	214	1890	410	294	173
19	228	189	112	119	111	122	123	216	1970	367	280	172
20	225	175	110	118	103	112	142	215	1890	294	270	181
21	217	175	110	112	111	112	143	224	1880	253	248	173
22	210	172	112	117	109	125	144	278	1830	256	236	164
23	210	153	115	114	111	120	157	345	1870	268	227	158
24	207	155	110	111	109	114	178	449	1740	240	218	172
25	207	178	105	115	118	119	194	594	1700	232	218	166
26	214	158	102	112	114	117	172	753	1570	238	209	158
27	240	153	98	112	112	114	170	917	1450	205	201	167
28	210	163	94	113	112	121	166	1100	1420	226	190	177
29	207	169	90	104	---	112	174	1330	1370	220	190	168
30	214	166	92	112	---	129	172	1470	1300	207	209	206
31	227	---	96	109	---	134	---	1580	---	202	190	---
TOTAL	7134	5387	3960	3535	3051	3788	4097	13344	46250	16693	6695	6203
MEAN	230	180	128	114	109	122	137	430	1542	538	216	207
MAX	283	214	166	124	118	143	194	1580	1970	1200	294	337
MIN	189	153	90	98	95	112	112	167	1190	202	179	158
AC-FT	14150	10690	7850	7010	6050	7510	8130	26470	91740	33110	13280	12300

CAL YR 1982	TOTAL	101584	MEAN	278	MAX	1330	MIN	75	AC-FT	201500
WTR YR 1983	TOTAL	120137	MEAN	329	MAX	1970	MIN	90	AC-FT	238300

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT

LOCATION.--Lat 40°33'27", long 110°41'50", in NW1/4SE1/4NE1/4 sec.20, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1,000 ft downstream from Upper Stillwater campground horse-trail bridge, 0.9 mi upstream from South Fork, and 11.2 mi north of Hanna.

DRAINAGE AREA.--98.9 mi^2.

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,967.7 ft (levels by Bureau of Reclamation).

REMARKS.--Records good except those for winter months, which are fair.

AVERAGE DISCHARGE.--18 years, 140 ft^3/s, 101,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft^3/s June 17, 1971, gage height, 4.95 ft; minimum measured, 6.9 ft^3/s Dec. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 11	2100	1,310	4.21
June 23	0100	*2,540	5.16

Minimum daily, 31 ft^3/s Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	102	66	43	36	40	36	49	829	927	204	90
2	231	98	68	45	34	39	35	48	765	897	214	132
3	225	92	69	46	37	39	34	48	690	794	226	151
4	219	97	68	46	36	38	35	50	742	736	200	285
5	217	93	66	45	31	38	36	55	783	756	172	156
6	195	90	63	44	37	37	36	53	836	762	168	127
7	185	86	62	41	39	37	34	55	876	778	174	117
8	167	85	60	40	40	37	34	70	943	813	165	147
9	162	89	60	40	40	37	34	86	976	817	146	120
10	155	91	55	41	40	38	33	82	1090	783	138	106
11	146	93	53	41	40	39	33	73	1180	583	146	97
12	138	93	53	40	39	40	34	66	1120	509	155	91
13	136	94	50	40	39	40	34	63	930	461	140	88
14	136	93	39	39	39	40	33	63	829	425	127	85
15	142	85	49	39	39	40	33	62	896	405	120	82
16	147	98	50	39	38	39	33	59	1060	363	139	77
17	143	100	49	39	38	37	34	59	1310	337	177	76
18	134	98	48	40	36	36	36	60	1710	311	224	73
19	126	98	46	40	37	36	37	58	2080	302	216	70
20	120	102	46	39	38	36	38	63	2000	318	177	66
21	115	100	47	39	38	37	39	83	1900	303	150	66
22	112	90	48	39	38	36	41	120	1950	323	134	64
23	110	85	48	40	37	35	44	177	1920	306	123	64
24	110	77	37	40	36	36	48	240	1750	263	115	78
25	111	75	41	41	36	37	49	336	1420	273	112	70
26	120	73	33	40	36	38	50	422	1220	269	103	66
27	115	68	38	40	36	37	49	508	1160	242	96	104
28	112	66	40	40	38	36	49	600	1190	218	92	84
29	110	65	40	39	---	36	49	725	1100	198	99	74
30	109	66	41	39	---	34	49	842	1000	186	104	137
31	111	---	42	38	---	35	---	862	---	190	95	---
TOTAL	4606	2642	1575	1262	1048	1160	1159	6137	36255	14848	4651	3043
MEAN	149	88.1	50.8	40.7	37.4	37.4	38.6	198	1209	479	150	101
MAX	247	102	69	46	40	40	50	862	2080	927	226	285
MIN	109	65	33	38	31	34	33	48	690	186	92	64
AC-FT	9140	5240	3120	2500	2080	2300	2300	12170	71910	29450	9230	6040

CAL YR 1982	TOTAL	69582	MEAN	191	MAX	1210	MIN	19	AC-FT	138000
WTR YR 1983	TOTAL	78386	MEAN	215	MAX	2080	MIN	31	AC-FT	155500

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT

LOCATION.--Lat 40°32'54", long 110°41'37", in SW1/4SW1/4SW1/4 sec.21, T.2, N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 175 ft upstream from road bridge, 0.5 mi upstream from mouth, and 10.6 mi northeast of Hanna.

DRAINAGE AREA.--15.7 mi^2.

PERIOD OF RECORD.--August 1953 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft from river-profile map. Prior to July 23, 1974, at site 75 ft downstream at different datum.

REMARKS.--Records good except those for winter months and of no gage-height record, Nov. 9 to Jan. 10, which are poor. Pipeline capacity approximately 1.5 ft^3/s that provides water for small hydroelectric plant and irrigation for dude ranch lying below station, diverts water from creek a short distance above station at times in summer months.

AVERAGE DISCHARGE.--30 years, 13.3 ft^3/s, 9,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189 ft^3/s June 16, 1975, gage height, 2.43 ft; minimum not determined, occurred during winter period of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 60 ft^3/s, 150 ft^3/s June 11, gage height 2.95 ft; minimum daily, 2.4 ft^3/s Dec. 30, 31, Apr. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.8	7.7	2.5	4.0	3.2	3.0	3.7	107	106	27	17
2	14	9.3	8.1	2.5	3.3	3.1	3.0	3.8	86	105	26	21
3	15	9.5	8.3	2.5	3.2	3.1	3.0	3.8	79	102	26	22
4	15	9.5	7.9	2.8	2.8	3.1	2.4	4.1	74	96	24	24
5	15	9.5	6.7	3.5	2.6	3.1	2.4	4.6	74	88	22	20
6	15	8.1	5.8	4.4	2.5	3.1	2.5	4.5	77	82	23	19
7	15	8.1	5.8	4.7	2.7	3.1	2.8	4.7	83	78	22	18
8	14	8.5	6.0	4.8	3.0	3.1	3.0	6.1	85	77	21	18
9	14	9.3	6.3	4.5	3.8	3.1	2.9	7.5	92	77	21	17
10	14	9.2	6.6	4.2	3.6	3.3	3.0	7.4	99	75	21	17
11	14	10	6.6	4.1	3.6	3.3	3.0	6.6	99	69	21	16
12	13	9.9	5.4	4.1	3.6	3.4	3.0	6.0	125	64	22	16
13	12	9.2	4.7	4.0	3.6	3.4	3.0	5.7	115	60	24	16
14	13	8.2	4.1	4.0	3.6	3.3	2.8	5.6	106	56	21	16
15	14	8.2	4.2	4.0	3.5	3.3	2.7	5.8	108	54	20	15
16	14	8.3	4.8	4.0	3.4	3.5	2.7	5.6	117	49	21	15
17	14	8.3	4.7	4.0	3.4	3.3	2.9	5.6	126	46	25	15
18	14	8.0	4.9	4.0	3.4	3.3	3.1	5.5	118	44	28	15
19	14	8.1	4.9	4.0	3.4	3.1	3.1	5.4	103	44	27	14
20	13	8.5	4.1	4.0	3.4	2.7	3.3	6.2	110	42	24	14
21	12	9.0	4.5	4.0	3.4	2.9	3.2	8.5	82	40	22	14
22	12	8.5	4.8	4.0	3.4	3.3	3.3	12	90	38	21	13
23	12	7.9	5.2	3.9	3.3	3.1	3.6	18	82	36	20	13
24	12	7.6	5.0	3.9	3.2	3.2	4.0	26	96	34	19	15
25	12	7.5	4.2	3.9	3.2	3.1	4.0	38	102	33	19	13
26	13	6.0	3.3	3.9	3.2	3.1	3.9	51	102	32	19	13
27	12	6.3	2.9	3.9	3.3	3.3	3.7	63	113	30	18	16
28	10	7.0	2.6	3.9	3.4	3.1	3.7	75	120	29	17	14
29	10	6.5	2.6	4.2	---	3.3	3.7	88	115	27	18	13
30	11	7.0	2.4	3.9	---	3.1	3.8	93	112	27	18	21
31	11	---	2.4	4.0	---	3.0	---	110	---	26	18	---
TOTAL	407	250.8	157.5	120.1	92.8	98.4	94.5	690.7	2997	1766	675	490
MEAN	13.1	8.36	5.08	3.87	3.31	3.17	3.15	22.3	99.9	57.0	21.8	16.3
MAX	15	10	8.3	4.8	4.0	3.5	4.0	110	126	106	28	24
MIN	10	6.0	2.4	2.5	2.5	2.7	2.4	3.7	74	26	17	13
AC-FT	807	497	312	238	184	195	187	1370	5940	3500	1340	972

CAL YR 1982	TOTAL	7207.1	MEAN	19.7	MAX	116	MIN	2.2	AC-FT	14300
WTR YR 1983	TOTAL	7839.8	MEAN	21.5	MAX	126	MIN	2.4	AC-FT	15550

09278500 ROCK CREEK NEAR HANNA, UT

LOCATION.--Lat 40°32'44", long 110°39'20", in NE1/4NE1/4NE1/4 sec.26, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1.2 mi downstream from South Fork and 11.5 mi northeast of Hanna.

DRAINAGE AREA.--122 mi^2.

PERIOD OF RECORD.--July 1949 to September 1969, August 1974 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,620 ft from river-profile map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--29 years (1950-69, 1975-83), 153 ft^3/s, 110,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,570 ft^3/s June 18, 1983, gage height, 7.98 ft, maximum gage height, 8.60 ft June 13, 1953; minimum recorded, 4.4 ft^3/s Feb. 7, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 10	2200	1,510	6.55
June 18	2300	*2,570	7.98

Minimum daily, 33 ft^3/s Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	126	89	57	46	44	40	55	969	1020	259	122
2	239	120	90	58	40	44	40	55	919	987	264	161
3	236	110	85	60	38	44	38	56	822	875	277	173
4	231	123	83	62	41	43	40	60	870	800	250	304
5	229	121	80	60	44	42	40	74	909	813	219	185
6	208	120	78	58	33	41	41	70	937	839	213	157
7	201	117	76	55	42	41	39	70	981	847	221	149
8	182	117	76	54	44	41	36	90	1070	889	211	176
9	178	120	76	53	46	40	38	109	1100	894	192	147
10	169	120	75	54	46	42	38	104	1240	855	184	139
11	162	120	66	52	45	44	37	93	1360	662	190	131
12	158	110	64	51	44	44	37	84	1320	589	199	126
13	156	114	64	50	43	43	37	80	1110	534	189	121
14	155	96	50	49	44	44	36	80	975	495	169	117
15	160	105	64	48	43	42	38	79	1040	472	162	110
16	165	105	66	48	43	41	37	76	1200	424	180	113
17	163	103	66	49	43	42	38	75	1410	387	212	110
18	155	95	62	49	41	42	41	77	1650	373	264	106
19	147	96	60	48	42	39	40	74	2080	359	253	103
20	144	95	60	48	43	39	42	76	1980	374	217	99
21	140	92	62	47	42	41	43	99	1960	357	190	98
22	139	92	62	47	41	40	46	134	1900	374	174	97
23	137	85	62	47	41	39	50	186	1860	349	161	97
24	138	84	45	46	40	38	59	244	1790	315	152	114
25	139	94	52	48	40	40	57	325	1580	323	150	104
26	149	83	40	47	40	40	51	419	1380	322	140	100
27	141	82	50	46	39	40	51	532	1270	296	133	134
28	135	85	52	46	44	40	51	661	1310	274	129	111
29	135	84	52	44	---	40	52	829	1230	254	136	93
30	136	84	54	47	---	41	56	983	1080	241	136	151
31	137	---	56	42	---	40	---	1000	---	245	125	---
TOTAL	5217	3098	2017	1570	1178	1281	1289	6949	39302	16838	5951	3948
MEAN	168	103	65.1	50.6	42.1	41.3	43.0	224	1310	543	192	132
MAX	253	126	90	62	46	44	59	1000	2080	1020	277	304
MIN	135	82	40	42	33	38	36	55	822	241	125	93
AC-FT	10350	6140	4000	3110	2340	2540	2560	13780	77960	33400	11800	7830

CAL YR 1982	TOTAL	76926	MEAN	211	MAX	1280	MIN	23	AC-FT	152600
WTR YR 1983	TOTAL	88638	MEAN	243	MAX	2080	MIN	33	AC-FT	175800

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE1/4NW1/4SW1/4 sec.9, T.1 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi^2.

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,250 ft from river-profile map. Prior to Apr. 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good except those for period of no gage-height record, Oct. 17 to Nov. 18, which are fair.

AVERAGE DISCHARGE.--46 years, 171 ft^3/s, 123,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft^3/s June 18, 1971, gage height, 5.98 ft; maximum gage height, 6.02 ft June 14, 1953; minimum recorded, 7 ft^3/s Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 11	2300	1,610	4.99
June 19	unknown	*2,530	5.79

Minimum daily, 48 ft^3/s Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	145	98	74	60	61	57	80	908	1090	273	158
2	268	130	102	76	57	62	57	78	922	1070	273	186
3	258	130	98	77	56	61	56	78	842	936	287	210
4	251	135	95	79	58	60	55	78	890	878	268	333
5	256	130	95	80	59	58	57	89	908	875	242	224
6	233	128	93	76	57	59	54	86	959	880	229	191
7	225	130	89	74	60	58	52	84	960	865	244	178
8	206	135	90	73	60	58	56	99	1050	882	235	205
9	202	135	89	70	62	59	56	117	1070	870	216	189
10	195	131	89	71	61	60	56	113	1160	879	208	171
11	189	128	84	70	59	63	56	103	1360	683	209	163
12	184	130	80	68	60	65	53	96	1170	611	220	154
13	180	118	81	68	60	65	54	93	950	580	220	146
14	178	109	62	67	59	65	50	94	768	552	199	144
15	182	113	84	66	60	63	50	93	804	521	191	139
16	190	113	86	66	59	60	53	93	901	473	203	135
17	186	111	82	67	59	62	54	90	1130	444	219	131
18	170	110	78	67	59	59	56	93	1520	415	286	142
19	160	109	75	65	59	57	57	94	1940	397	284	122
20	160	105	76	65	63	57	59	96	1860	408	246	117
21	160	103	79	65	59	58	61	111	1860	391	220	118
22	159	101	80	64	59	58	65	152	1750	392	203	117
23	156	89	79	64	58	57	72	184	1630	395	192	118
24	155	86	66	63	58	54	82	266	1540	349	182	135
25	160	82	67	64	57	58	80	343	1480	337	181	129
26	170	94	48	63	57	57	73	432	1290	349	171	118
27	160	92	62	62	57	56	75	535	1230	316	164	156
28	155	96	66	61	61	56	79	652	1250	293	156	146
29	160	96	67	61	---	56	80	762	1240	272	161	131
30	161	97	69	65	---	59	79	908	1180	257	170	200
31	160	---	71	61	---	60	---	943	---	262	156	---
TOTAL	5921	3411	2480	2112	1653	1841	1844	7135	36522	17922	6708	4806
MEAN	191	114	80.0	68.1	59.0	59.4	61.5	230	1217	578	216	160
MAX	292	145	102	80	63	65	82	943	1940	1090	287	333
MIN	155	82	48	61	56	54	50	78	768	257	156	117
AC-FT	11740	6770	4920	4190	3280	3650	3660	14150	72440	35550	13310	9530

CAL YR 1982	TOTAL	82038	MEAN	225	MAX	1340	MIN	35	AC-FT	162700
WTR YR 1983	TOTAL	92355	MEAN	253	MAX	1940	MIN	48	AC-FT	183200

09279100 ROCK CREEK NEAR TALMAGE, UT

LOCATION.--Lat 40°18'40", long 110°29'36", in SE1/4NE1/4NW1/4 sec.18, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi upstream from mouth, 4.1 mi southwest of Talmage and 11.1 mi northwest of Duchesne.

DRAINAGE AREA.--238 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,119.3 ft NGVD of 1929.

REMARKS.--Records good except those for winter months and of no gage-height record, Jan. 25 to Mar. 8, which are fair.

AVERAGE DISCHARGE.--20 years, 182 ft^3/s, 131,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft^3/s July 29, 1968, gage height, 4.37 ft; minimum recorded, 6.0 ft^3/s Nov. 28, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 12	0700	1,380	3.45
June 19	0700	*1,830	3.93

Minimum daily, 48 ft^3/s Jan. 24-26, 31, Feb. 1-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	140	112	78	48	58	63	95	932	975	293	150
2	259	140	106	78	48	59	63	97	940	979	268	168
3	251	117	115	78	48	59	63	99	795	853	287	240
4	243	134	112	79	48	59	56	97	821	793	268	300
5	247	129	112	78	48	60	60	117	859	785	240	223
6	224	129	112	72	48	59	59	115	903	806	221	180
7	220	123	107	68	48	60	58	106	920	794	233	166
8	202	129	109	66	49	61	64	126	1010	863	232	188
9	195	137	109	65	50	64	63	152	1020	856	209	175
10	185	129	107	64	50	67	68	148	1110	882	200	158
11	185	131	90	62	50	72	67	137	1270	666	208	149
12	178	109	85	61	49	77	68	121	1300	584	228	142
13	175	123	85	59	49	73	67	114	1100	542	228	135
14	175	102	81	57	49	74	68	114	910	513	205	134
15	175	102	74	57	49	66	63	112	944	485	194	132
16	182	115	92	56	50	63	67	115	1030	452	209	124
17	178	117	89	56	51	70	68	106	1240	417	214	121
18	171	117	87	55	52	65	74	109	1440	386	281	117
19	159	120	84	53	53	61	74	115	1630	372	286	116
20	159	107	82	52	52	58	80	111	1540	387	248	113
21	162	109	85	51	53	60	82	128	1510	373	221	114
22	156	107	86	50	54	66	83	165	1520	381	204	111
23	152	92	86	49	54	62	87	218	1520	395	191	112
24	152	94	60	48	53	57	102	278	1510	346	181	129
25	152	82	75	48	53	62	105	341	1410	332	179	124
26	162	100	55	48	54	60	87	431	1280	354	170	112
27	171	112	67	49	56	57	91	512	1170	314	162	138
28	146	112	73	50	57	62	92	636	1190	292	158	145
29	152	112	75	50	---	57	97	741	1180	271	164	124
30	156	112	76	49	---	65	94	897	1070	257	171	182
31	162	---	77	48	---	70	---	984	---	261	157	---
TOTAL	5769	3482	2765	1834	1423	1963	2233	7637	35074	16966	6710	4522
MEAN	186	116	89.2	59.2	50.8	63.3	74.4	246	1169	547	216	151
MAX	283	140	115	79	57	77	105	984	1630	979	293	300
MIN	146	82	55	48	48	57	56	95	795	257	157	111
AC-FT	11440	6910	5480	3640	2820	3890	4430	15150	69570	33650	13310	8970

CAL YR 1982	TOTAL	84330	MEAN	231	MAX	1250	MIN	42	AC-FT	167300
WTR YR 1983	TOTAL	90378	MEAN	248	MAX	1630	MIN	48	AC-FT	179300

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT

LOCATION.--Lat 40°16'14", long 110°26'31", in NE1/4NW1/4NW1/4 sec.34, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 50 ft downstream from bridge on State Highway 35, 1.7 mi upstream from Knight diversion dam, 3.9 mi downstream from Rock Creek, and 7.7 mi north-northwest of Duchesne.

DRAINAGE AREA.--623 mi^2.

PERIOD OF RECORD.--April 1970 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,840 ft from topographic map. Prior to Apr. 25, 1973, at site 150 ft upstream at different gage datum.

REMARKS.--Records good. Several diversions above station for irrigation, including a transmountain diversion to the Great Basin through Duchesne Tunnel.

AVERAGE DISCHARGE.--13 years, 360 ft^3/s, 260,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,360 ft^3/s June 21, 1983, gage height, 7.44 ft; minimum, 37 ft^3/s Jan. 31, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	1100	2,560	6.38
June 12	1130	4,020	6.69
June 21	1130	*4,360	7.44

Minimum daily, 142 ft^3/s Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	509	373	272	150	145	184	182	282	2170	2150	492	327
2	472	354	278	150	145	188	186	292	2210	2050	468	355
3	457	317	267	160	150	193	182	299	1960	1810	498	549
4	448	342	267	160	150	202	159	296	1960	1690	490	657
5	523	335	278	170	154	207	171	332	2120	1600	449	524
6	516	335	256	170	158	202	168	352	2320	1610	418	437
7	518	329	246	180	175	188	166	330	2410	1590	433	401
8	489	335	251	180	179	186	184	361	2520	1650	438	444
9	474	354	246	190	179	195	175	425	2390	1630	417	432
10	450	342	246	180	175	203	190	409	2600	1730	406	392
11	448	348	226	185	158	215	189	390	2920	1400	427	367
12	441	306	211	180	158	235	189	357	3030	1240	461	351
13	428	323	197	180	179	230	186	331	2700	1120	484	333
14	423	289	192	180	170	228	177	329	2240	1020	437	321
15	426	283	190	184	158	204	170	323	2110	963	423	308
16	435	300	190	193	179	188	179	323	2270	927	458	292
17	433	294	190	193	150	206	185	308	2320	856	473	285
18	421	294	192	193	170	194	203	309	2650	793	597	275
19	401	323	193	184	170	188	202	318	3360	730	594	269
20	393	289	185	184	142	167	229	316	3420	676	545	275
21	393	294	182	170	170	172	229	332	3580	618	488	272
22	386	289	180	175	162	192	233	410	3420	608	455	262
23	373	261	180	175	170	184	248	503	3580	658	428	258
24	373	256	180	162	162	171	278	632	3490	574	405	284
25	373	306	179	184	184	179	308	823	3150	552	406	281
26	386	272	158	179	175	175	282	1050	2860	620	388	262
27	420	261	156	175	170	170	281	1250	2590	526	359	295
28	367	272	150	179	179	186	283	1500	2580	514	336	330
29	367	272	148	150	---	167	296	1680	2530	489	347	297
30	386	278	146	145	---	191	290	2010	2350	463	372	379
31	406	---	154	145	---	206	---	2330	---	459	346	---
TOTAL	13335	9226	6386	5385	4616	5996	6400	19202	79810	33316	13738	10514
MEAN	430	308	206	174	165	193	213	619	2660	1075	443	350
MAX	523	373	278	193	184	235	308	2330	3580	2150	597	657
MIN	367	256	146	145	142	167	159	282	1960	459	336	258
AC-FT	26450	18300	12670	10680	9160	11890	12690	38090	158300	66080	27250	20850

CAL YR 1982	TOTAL	182240	MEAN	499	MAX	2840	MIN	110	AC-FT	361500
WTR YR 1983	TOTAL	207924	MEAN	570	MAX	3580	MIN	142	AC-FT	412400

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UT

LOCATION.--Lat 40°17'54", long 111°15'52", in NW1/4NW1/4NE1/4 sec.20, T.2 S., R.12 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank about 1,000 ft upstream from crossing of Hobble Creek ditch, 0.5 mi west of Daniels Summit on U.S. Highway 40, and 10.5 mi southeast of Wallsburg.

DRAINAGE AREA.--2.89 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,200 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--20 years, 2.96 ft^3/s, 2,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s June 7, 1975, gage height, 2.89 ft; no flow at times during February to April 1964, January to March 1966, Sept. 4, 1967, Aug. 10-17, 1970, on several days in August 1977, Dec. 28, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	1000	*83	3.11
June 10	1800	77	3.04
June 18	1900	75	3.03

No flow Dec. 28, result of temporary blockage upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	.83	.38	.25	.26	.43	.83	2.2	54	6.2	.79	.29
2	.69	.81	.40	.25	.25	.43	.79	2.2	48	5.4	.61	.39
3	.81	.77	.37	.27	.25	.43	.75	2.5	46	4.7	.59	.78
4	.88	.74	.34	.28	.25	.43	.75	2.9	52	4.1	.61	1.1
5	.95	.72	.36	.30	.25	.43	.75	4.4	56	3.7	.50	.59
6	.75	.70	.35	.32	.25	.43	.75	4.4	55	3.4	.43	.44
7	.71	.70	.36	.32	.25	.44	.75	4.6	54	3.3	.37	.97
8	.66	.70	.38	.32	.28	.43	.76	7.5	56	3.0	.34	1.2
9	.59	.91	.34	.36	.28	.46	.77	9.4	57	2.9	.29	1.0
10	.58	.90	.38	.36	.28	.61	.82	8.4	62	2.8	.29	.69
11	.56	.76	.39	.29	.28	.67	.75	6.7	64	2.4	.38	.55
12	.57	.69	.39	.30	.28	.81	.75	5.4	59	2.2	.44	.47
13	.69	.62	.39	.30	.28	.77	.75	4.6	44	2.0	.35	.42
14	.77	.50	.38	.30	.28	.70	.75	4.6	40	1.9	.29	.39
15	.89	.40	.36	.30	.32	.70	.75	4.0	44	1.8	.38	.35
16	.96	.42	.35	.30	.32	.70	.75	4.0	50	1.6	.47	.33
17	.90	.43	.34	.30	.32	.67	.82	3.8	54	1.4	1.1	.33
18	.87	.44	.34	.32	.32	.65	1.0	3.8	59	1.3	1.1	.30
19	.78	.45	.34	.28	.32	.65	1.1	3.4	57	1.2	.97	.28
20	.76	.45	.34	.28	.32	.65	1.3	3.8	50	1.1	.71	.28
21	.67	.43	.34	.28	.32	.65	1.4	6.4	44	1.0	.55	.27
22	.63	.41	.36	.28	.32	.63	1.6	10	37	1.2	.56	.26
23	.63	.39	.39	.28	.32	.60	2.0	15	31	1.5	.49	.36
24	.69	.37	.34	.28	.34	.60	3.1	22	26	1.1	.35	.68
25	.77	.39	.30	.28	.39	.60	3.2	28	21	1.5	.33	.40
26	.96	.41	.28	.28	.36	.60	2.8	34	15	1.1	.29	.41
27	1.0	.37	.27	.28	.36	.60	2.3	40	13	.90	.31	.88
28	.91	.35	.26	.29	.37	.60	2.3	49	10	.82	.24	.56
29	.86	.38	.25	.30	---	.65	2.3	64	8.5	.72	.36	.48
30	.82	.38	.25	.31	---	.94	2.3	70	7.1	.66	.40	.61
31	.85	---	.25	.26	---	1.1	---	60	---	.87	.28	---
TOTAL	23.83	16.82	10.57	9.12	8.42	19.06	39.74	491.0	1273.6	67.77	15.17	16.06
MEAN	.77	.56	.34	.29	.30	.61	1.32	15.8	42.5	2.19	.49	.54
MAX	1.0	.91	.40	.36	.39	1.1	3.2	70	64	6.2	1.1	1.2
MIN	.56	.35	.25	.25	.25	.43	.75	2.2	7.1	.66	.24	.26
AC-FT	47	33	21	18	17	38	79	974	2530	134	30	32

CAL YR 1982	TOTAL	1536.05	MEAN	4.21	MAX	64	MIN	.04	AC-FT	3050
WTR YR 1983	TOTAL	1991.16	MEAN	5.46	MAX	70	MIN	.24	AC-FT	3950

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT

LOCATION.--Lat 40°08'00", long 111°01'27", in SE1/4SW1/4NW1/4 sec.16, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 300 ft below Soldier Creek Dam, 1.5 mi upstream from Willow Creek, and 3.4 mi south of Soldier Springs.

DRAINAGE AREA.--213 mi^2, includes approximately 170 mi^2 tributary to Strawberry Reservoir, which includes area above diversion dams on Indian and Trail Hollow Creeks.

PERIOD OF RECORD.--October 1942 to September 1956, October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,360 ft from topographic map. Prior to June 1, 1971, water-stage recorder at site about 0.2 mi upstream at different datum. From June 1, 1971 to Aug. 8, 1974, at site about 0.8 mi downstream at different datum. From Aug. 25, 1983 at site about 300 ft downstream at different datum.

REMARKS.--Records fair. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972 and storage began June 30, 1973. When elevation of the new reservoir reaches the elevation of the old reservoir, the old dam will be destroyed by explosives. Water Hollow Tunnel will divert 600 ft^3/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

AVERAGE DISCHARGE.--23 years (1943-56, 1964-72), 31.0 ft^3/s, 22,500 acre-ft/yr prior to completion of Soldier Creek Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft^3/s May 4, 1952, gage height, 3.84 ft, from rating curve extended above 550 ft^3/s; minimum daily, 0.23 ft^3/s July and August 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 222 ft^3/s July 1 to Aug. 9; minimum daily, 7.0 ft^3/s Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	44	118	50	13	119	180	190	40	222	222	209
2	25	44	118	38	13	119	180	190	40	222	222	208
3	25	45	119	13	26	127	180	190	40	222	222	208
4	25	44	119	13	30	138	180	176	40	222	222	207
5	25	44	119	13	13	138	180	176	40	222	222	207
6	25	44	120	13	13	137	180	176	40	222	222	206
7	25	44	121	13	13	138	180	176	40	222	222	206
8	25	44	123	13	13	138	180	176	78	222	222	205
9	25	44	124	13	13	138	180	176	101	222	222	205
10	25	44	126	13	13	138	180	176	101	222	221	204
11	25	44	128	13	13	139	180	176	101	222	220	204
12	25	44	128	13	13	140	180	176	101	222	220	203
13	25	44	128	13	13	139	185	176	135	222	219	203
14	25	44	128	13	13	139	190	176	158	222	219	202
15	25	44	138	13	13	139	190	176	151	222	218	202
16	25	34	138	13	13	147	190	176	151	222	218	201
17	25	14	138	13	13	152	190	176	151	222	217	201
18	25	11	138	13	13	157	190	176	139	222	217	210
19	25	33	138	13	13	160	190	176	151	222	216	210
20	34	43	134	13	13	160	190	176	151	222	215	217
21	44	43	126	13	13	160	190	176	151	222	215	217
22	44	43	126	13	13	160	190	176	161	222	214	217
23	44	33	126	13	28	160	190	176	181	222	214	217
24	44	52	126	13	42	171	190	176	202	222	213	220
25	44	81	126	13	70	180	190	176	202	222	213	220
26	44	96	125	13	119	180	190	176	202	222	212	220
27	44	110	125	13	119	180	190	176	202	222	212	220
28	44	117	125	13	119	180	190	54	202	222	211	220
29	44	118	125	13	---	180	190	40	202	222	211	220
30	44	118	125	13	---	180	190	40	187	222	210	220
31	44	---	103	13	---	180	---	40	---	222	210	---
TOTAL	993	1607	3901	465	813	4713	5575	4968	3841	6882	6733	6309
MEAN	32.0	53.6	126	15.0	29.0	152	186	160	128	222	217	210
MAX	44	118	138	50	119	180	190	190	202	222	222	220
MIN	25	11	103	13	13	119	180	40	40	222	210	201
AC-FT	1970	3190	7740	922	1610	9350	11060	9850	7620	13650	13350	12510

CAL YR 1982	TOTAL	12132	MEAN	33.2	MAX	138	MIN	11	AC-FT	24060
WTR YR 1983	TOTAL	46800	MEAN	128	MAX	222	MIN	11	AC-FT	92830

09287000 CURRANT CREEK BELOW RED LEDGE HOLLOW, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'27", long 111°02'43", in NW1/4SW1/4NW1/4 sec.8, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on right bank 0.3 mi below Red Ledge Hollow, 13.5 mi northwest of Fruitland.

DRAINAGE AREA.--50.1 mi^2.

PERIOD OF RECORD.--October 1945 to September 1968 at site 0.2 mi upstream at different datum; August 1974 to September 1983 (discontinued).

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,520 ft from topographic map.

REMARKS.--Records good. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters to Strawberry Reservoir, from which it is diverted through Strawberry Tunnel to the Great Basin for irrigation in Strawberry Valley project. Flow partially regulated by Currant Creek Reservoir 0.6 mi upstream. Beginning Oct. 4, 1982, total capacity, 15,670 acre-ft.

AVERAGE DISCHARGE.--32 years (1945-68, 1975-82), 27.4 ft^3/s, 19,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 946 ft^3/s May 21, 1975, gage height, 5.58 ft; minimum, 0.7 ft^3/s Sept. 8, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 610 ft^3/s May 26, result of a discharge measurement; minimum, 0.78 ft^3/s Oct. 22, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	1.4	19	14	15	16	18	73	470	96	38	20
2	23	1.3	19	14	36	16	17	75	448	105	33	23
3	24	1.3	17	12	9.4	16	17	84	430	104	32	26
4	14	1.3	16	9.2	9.4	16	17	96	381	85	31	42
5	3.1	1.3	15	11	9.4	16	17	112	447	86	31	41
6	3.3	1.2	15	13	9.4	16	17	137	460	82	29	24
7	2.9	1.2	15	13	9.4	15	16	132	426	84	26	17
8	1.6	1.4	15	14	9.6	13	16	135	418	81	24	17
9	1.6	1.4	15	14	9.4	13	16	155	386	78	26	17
10	1.7	1.4	15	14	9.3	13	16	190	386	80	28	16
11	1.8	1.4	16	14	9.3	15	16	161	347	70	28	16
12	1.6	2.5	15	13	9.4	16	16	124	386	56	28	16
13	1.5	2.6	15	12	9.4	16	16	98	290	63	28	15
14	1.6	2.8	15	12	9.4	16	16	77	232	51	26	12
15	1.4	1.7	15	11	10	17	16	62	241	53	24	11
16	1.1	1.1	15	11	15	22	16	72	219	51	27	12
17	1.1	1.1	15	11	25	21	16	69	254	49	27	12
18	1.1	1.0	15	11	24	22	11	81	238	45	33	12
19	.82	1.2	14	11	22	23	4.8	85	220	40	45	12
20	.87	1.2	14	11	22	23	19	88	235	42	56	11
21	.82	1.1	14	12	22	23	37	152	209	43	52	15
22	.82	1.3	14	13	22	21	44	229	191	43	31	15
23	.86	1.6	14	13	18	21	47	329	192	58	17	17
24	.83	1.8	14	14	14	21	61	415	175	46	17	21
25	.97	1.8	14	15	13	17	96	442	164	40	17	22
26	1.5	1.8	14	15	13	17	86	487	164	40	16	21
27	1.4	1.8	14	15	14	17	64	559	131	41	19	20
28	4.4	23	14	15	15	17	52	541	131	38	19	20
29	14	38	14	15	---	17	69	607	114	35	22	20
30	1.4	18	14	15	---	17	73	579	101	32	28	23
31	1.6	---	14	15	---	18	---	501	---	31	28	---
TOTAL	141.69	120.0	464	402.2	412.8	547	942.8	6947	8486	1848	886	566
MEAN	4.57	4.00	15.0	13.0	14.7	17.6	31.4	224	283	59.6	28.6	18.9
MAX	25	38	19	15	36	23	96	607	470	105	56	42
MIN	.82	1.0	14	9.2	9.3	13	4.8	62	101	31	16	11
AC-FT	281	238	920	798	819	1080	1870	13780	16830	3670	1760	1120

CAL YR 1982	TOTAL	18690.39	MEAN	51.2	MAX	446	MIN	.82	AC-FT	37070
WTR YR 1983	TOTAL	21763.49	MEAN	59.6	MAX	607	MIN	.82	AC-FT	43170

09287500 WATER HOLLOW NEAR FRUITLAND, UT

LOCATION.--Lat 40°14'30", long 110°58'48", in SW1/4SW1/4SE1/4 sec.2, T.3 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 1.5 mi upstream from mouth and 7.7 mi northwest of Fruitland.

DRAINAGE AREA.--13.8 mi^2.

PERIOD OF RECORD.--April 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,110 ft from topographic map.

REMARKS.--Records good. Diversion into Water Hollow Tunnel for storage in Strawberry Reservoir began Dec. 9, 1971. Diversion 3.5 mi upstream from gage; all flows up to 20 ft^3/s diverted at this point except for 0.5 ft^3/s, which is usually bypassed.

AVERAGE DISCHARGE.--25 years (1946-71), 5.71 ft^3/s, 4,140 acre-ft/yr prior to diversion to Water Hollow Tunnel. 11 years (1973-83), 2.17 ft^3/s, 1,570 acre-ft/yr since completion of Water Hollow Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133 ft^3/s July 18, 1954, gage height, 3.24 ft, from rating curve extended above 56 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 3.59 ft Nov. 25, 1969 (backwater from ice); minimum recorded, no flow Jan. 6, 1973, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft^3/s July 23, gage height, 2.58 ft; minimum, 0.62 ft^3/s, several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	5.9	6.2	4.4	4.1	4.8	4.9	8.3	17	26	18	14
2	1.3	5.7	5.8	4.4	4.0	4.8	4.9	8.8	22	25	17	17
3	1.4	5.6	5.7	4.5	3.9	4.7	5.1	8.4	36	25	17	15
4	1.1	5.7	5.6	4.7	4.1	4.9	4.9	8.5	41	25	16	14
5	.97	5.7	5.6	4.8	4.0	4.4	4.7	8.9	40	24	16	13
6	.84	5.6	5.5	4.8	4.0	4.5	4.8	9.0	38	24	16	13
7	.79	6.0	5.5	4.8	4.0	4.8	4.8	9.5	37	24	16	12
8	.75	6.1	5.6	4.7	4.4	5.0	4.8	10	37	23	16	12
9	.71	6.0	5.5	4.6	4.5	5.0	5.0	11	37	24	15	12
10	.71	6.0	5.4	4.5	4.3	4.5	5.3	12	38	24	15	11
11	.71	6.1	5.2	4.4	4.2	4.9	5.3	13	39	23	15	11
12	.93	6.4	4.7	4.4	4.2	5.5	5.1	13	38	23	16	11
13	.78	6.3	4.9	4.4	4.2	5.2	5.1	12	37	22	15	11
14	.64	5.6	5.0	4.4	4.3	5.8	4.9	12	37	21	15	11
15	.68	5.2	5.1	4.4	4.2	5.1	5.0	12	36	20	20	11
16	.68	5.6	5.0	4.3	4.1	5.2	5.1	12	34	20	16	11
17	.68	6.0	4.9	4.4	4.1	5.2	5.4	11	33	20	15	11
18	.68	6.2	4.9	4.4	4.1	5.1	5.7	11	32	19	15	11
19	.67	6.5	4.7	4.5	4.1	5.0	6.4	11	33	19	15	10
20	.68	6.2	4.8	4.6	4.2	4.9	6.7	11	33	19	14	10
21	.68	6.1	4.8	4.4	4.1	4.9	7.1	11	33	19	14	10
22	.68	6.0	5.0	4.4	4.0	4.8	7.9	12	32	19	14	10
23	5.0	5.0	5.2	4.4	4.1	4.8	8.0	14	32	23	14	11
24	5.7	5.4	4.8	4.4	4.2	4.6	8.3	17	31	19	13	12
25	5.8	5.2	4.7	4.4	4.2	4.6	8.2	21	30	19	13	10
26	6.3	4.4	4.5	4.3	4.3	4.7	8.0	27	29	19	13	10
27	6.4	4.6	4.6	4.3	4.1	4.7	8.4	29	29	19	13	11
28	5.9	5.2	4.4	4.3	5.5	4.7	9.2	34	28	19	13	9.9
29	6.0	5.7	4.3	4.4	---	4.6	8.7	39	27	18	14	9.9
30	6.4	6.0	4.3	4.3	---	5.2	8.2	19	26	18	13	11
31	6.8	---	4.3	4.2	---	5.3	---	19	---	18	13	---
TOTAL	72.86	172.0	156.5	138.2	117.5	152.2	185.9	454.4	992	660	465	345.8
MEAN	2.35	5.73	5.05	4.46	4.20	4.91	6.20	14.7	33.1	21.3	15.0	11.5
MAX	6.8	6.5	6.2	4.8	5.5	5.8	9.2	39	41	26	20	17
MIN	.64	4.4	4.3	4.2	3.9	4.4	4.7	8.3	17	18	13	9.9
AC-FT	145	341	310	274	233	302	369	901	1970	1310	922	686

CAL YR 1982	TOTAL	674.65	MEAN	1.85	MAX	6.8	MIN	.38	AC-FT	1340
WTR YR 1983	TOTAL	3912.36	MEAN	10.7	MAX	41	MIN	.64	AC-FT	7760

09288000 CURRANT CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 40°12'01", long 110°54'25", in NE1/4SE1/4SW1/4 sec.21, T.3 S., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 150 ft downstream from Deep Creek, 150 ft upstream from bridge on U.S. Highway 40 and 3.5 mi southwest of Fruitland.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,670 ft from topographic map. Aug. 6, 1952 to Nov. 8, 1966, water-stage recorder at site 150 ft downstream at datum 1.30 ft lower. See WSP 1733 for history of changes prior to Aug. 6, 1952.

REMARKS.--Records good. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry Tunnel to the Great Basin for irrigation in Strawberry Valley project. Since 1962, Deep Creek has been diverted intermittently into private fish ponds and enters Currant Creek 400 ft below gage. Flow partially regulated by Currant Creek Reservoir 15 miles upstream, beginning Oct. 4, 1982. Total capacity, 15,670 acre-ft.

AVERAGE DISCHARGE.--48 years (water years 1935-83), 46.0 ft^3/s, 33,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft^3/s May 4, 1952, gage height, 2.72 ft, site and datum then in use; maximum gage height, 5.92 ft, Jan. 27, 1974, backwater from ice; minimum recorded, 3.6 ft^3/s Aug. 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 906 ft^3/s May 27, gage height, 3.77 ft; minimum, 18 ft^3/s Feb. 11. Due to development of upstream regulation, peak discharge above base will not be determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	36	49	31	35	44	49	124	520	172	87	77
2	53	33	53	33	35	44	50	133	584	178	86	114
3	54	33	48	35	34	44	50	137	483	184	82	95
4	51	33	48	37	34	44	50	153	504	157	82	108
5	34	33	46	43	33	44	48	170	535	150	80	100
6	31	33	45	48	33	43	50	204	530	157	77	87
7	30	34	45	48	34	43	50	192	483	157	75	72
8	29	34	44	48	34	41	48	201	494	158	76	72
9	28	38	50	46	34	41	48	218	464	150	74	70
10	27	35	50	46	34	43	51	265	468	163	74	68
11	27	35	50	46	35	47	52	250	449	139	81	65
12	27	33	45	44	35	53	51	203	478	120	90	65
13	26	34	43	44	36	52	50	164	395	126	87	64
14	26	30	41	43	36	53	48	138	348	118	80	62
15	26	31	39	41	34	50	49	115	317	100	87	59
16	26	32	39	44	36	49	50	119	321	113	91	55
17	26	33	39	46	46	53	53	113	317	103	85	56
18	25	34	39	46	46	53	55	104	321	98	87	56
19	25	36	41	44	46	53	50	136	308	93	99	56
20	25	33	43	42	45	52	54	115	316	90	110	56
21	25	34	50	41	45	52	74	153	309	91	113	54
22	25	33	50	42	45	52	89	279	285	93	95	56
23	27	29	50	42	42	51	95	375	288	140	75	61
24	29	30	46	40	42	48	106	420	286	114	69	84
25	29	37	40	41	41	47	142	599	271	103	69	73
26	31	31	34	40	40	48	138	620	273	98	69	72
27	35	32	32	40	40	47	115	720	237	93	67	72
28	33	35	30	40	42	48	104	700	223	90	69	72
29	41	38	29	40	---	46	116	801	210	87	75	70
30	39	46	28	36	---	50	122	772	186	82	86	79
31	37	---	29	35	---	53	---	625	---	81	83	---
TOTAL	1012	1018	1315	1292	1072	1488	2107	9318	11203	3798	2560	2150
MEAN	32.6	33.9	42.4	41.7	38.3	48.0	70.2	301	373	123	82.6	71.7
MAX	65	46	53	48	46	53	142	801	584	184	113	114
MIN	25	29	28	31	33	41	48	104	186	81	67	54
AC-FT	2010	2020	2610	2560	2130	2950	4180	18480	22220	7530	5080	4260

CAL YR 1982	TOTAL	27902	MEAN	76.4	MAX	579	MIN	22	AC-FT	55340
WTR YR 1983	TOTAL	38333	MEAN	105	MAX	801	MIN	25	AC-FT	76030

09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 39°59'35", long 110°48'51", in SE1/4NW1/4NW1/4 sec.5, T.6 S., R.8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, 0.2 mi upstream from mouth, and 15.2 mi south of Fruitland.

DRAINAGE AREA.--56.1 mi^2.

PERIOD OF RECORD.--June 1964 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,790 ft from topographic map.

REMARKS.--Records fair. One small diversion above station, constructed in 1976 for irrigation, may divert small quantities of water intermittently during the summer months.

AVERAGE DISCHARGE.--19 years, 15.5 ft^3/s, 11,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft^3/s Aug. 22, 1971, gage height, 5.40 ft, from rating curve extended above 320 ft^3/s; minimum recorded, 0.2 ft^3/s Jan. 24, 1965, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 11	1130	209	3.42
May 26	0830	378	3.13
May 30	1400	517	3.08
Aug. 12	1800	*1,160	3.90

Minimum, 1.4 ft^3/s Sept. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	4.1	3.4	2.0	2.8	4.8	6.3	60	318	40	16	7.0
2	9.3	3.8	3.2	1.9	2.7	5.0	6.9	62	220	40	14	7.5
3	8.8	3.2	3.2	1.9	2.6	5.3	7.0	67	211	38	19	7.7
4	8.4	3.7	3.2	1.9	2.6	5.9	6.6	72	198	36	14	9.2
5	8.0	3.8	3.4	2.2	3.2	6.2	6.8	79	182	33	12	6.9
6	7.2	3.9	3.4	2.3	3.0	5.8	6.4	83	182	30	11	6.5
7	6.8	3.9	3.3	2.3	3.5	6.0	6.6	88	179	28	11	6.3
8	6.2	4.2	3.4	2.3	3.4	6.6	7.0	97	185	28	11	6.7
9	5.5	4.2	3.5	2.3	3.4	8.0	7.6	114	170	32	9.8	7.2
10	5.2	3.6	3.7	2.4	3.4	9.4	8.1	116	178	33	14	6.4
11	4.9	3.8	3.7	2.4	3.3	11	8.5	156	190	26	12	5.9
12	4.9	2.9	3.5	2.4	3.3	13	8.8	129	173	26	78	5.8
13	4.9	2.8	3.4	2.6	3.4	15	8.4	108	137	25	23	5.6
14	4.6	2.6	3.6	2.7	3.4	14	8.0	101	110	23	15	5.0
15	4.6	2.4	3.7	2.7	3.4	13	7.9	99	100	22	13	4.9
16	4.6	2.2	3.7	2.7	3.4	11	7.9	88	95	21	13	4.8
17	4.6	2.3	3.5	2.7	3.5	10	8.5	83	94	20	12	4.6
18	4.4	2.4	3.6	3.0	3.7	8.8	9.5	85	110	19	11	4.2
19	3.9	2.6	3.1	3.0	3.8	8.0	12	88	110	19	11	3.0
20	4.1	2.6	3.2	3.0	3.7	7.4	20	88	96	19	10	1.5
21	4.2	2.9	3.4	3.0	3.6	7.6	25	96	84	20	9.5	1.6
22	4.2	3.0	3.4	3.0	3.8	7.6	34	117	72	22	9.1	2.1
23	4.3	2.9	3.6	3.1	3.9	6.6	48	226	61	21	8.7	2.5
24	4.3	2.7	3.4	3.1	4.0	6.2	58	262	58	18	8.7	3.0
25	4.2	2.9	2.8	3.0	4.4	6.0	74	266	53	23	8.2	2.9
26	4.4	2.9	2.1	3.0	4.3	5.6	67	301	51	20	8.0	2.7
27	4.4	3.0	2.1	3.2	4.0	5.5	61	266	47	17	7.9	3.5
28	3.8	3.1	2.0	3.3	4.0	5.8	59	277	42	16	7.9	3.7
29	3.8	3.2	1.9	3.0	---	5.3	62	212	41	15	8.2	4.4
30	4.4	3.3	1.9	3.1	---	6.0	59	368	41	15	7.4	5.5
31	4.4	---	1.9	3.1	---	6.1	---	339	---	17	7.2	---
TOTAL	167.3	94.9	97.2	82.6	97.5	242.5	715.8	4593	3788	762	420.6	148.6
MEAN	5.40	3.16	3.14	2.66	3.48	7.82	23.9	148	126	24.6	13.6	4.95
MAX	10	4.2	3.7	3.3	4.4	15	74	368	318	40	78	9.2
MIN	3.8	2.2	1.9	1.9	2.6	4.8	6.3	60	41	15	7.2	1.5
AC-FT	332	188	193	164	193	481	1420	9110	7510	1510	834	295

CAL YR 1982	TOTAL	7151.8	MEAN	19.6	MAX	200	MIN	1.3	AC-FT	14190
WTR YR 1983	TOTAL	11210.0	MEAN	30.7	MAX	368	MIN	1.5	AC-FT	22240

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT

LOCATION.--Lat 40°09'17", long 110°33'15", in SE1/4SW1/4SW1/4 sec.3, T.4 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, on right bank 150 ft downstream from County Road bridge, 2,000 ft upstream from maximum high-water line of Starvation Reservoir, and 7.9 mi west of Duchesne.

DRAINAGE AREA.--917 mi^2 (includes approximately 170 mi^2 tributary to Strawberry Reservoir).

PERIOD OF RECORD.--May 1968 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,722 ft (Rabbit Gulch Quadrangle which gives bridge elevation).

REMARKS.--Records good. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972 and storage began June 30, 1973. When elevation of new reservoir reaches the elevation of the old reservoir, the old dam will be destroyed by explosives. Water Hollow Tunnel will divert 600 ft^3/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

AVERAGE DISCHARGE.--15 years, 147 ft^3/s, 106,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft^3/s May 31, 1983, gage height, 8.29 ft; maximum gage height, 10.16 ft Jan. 2, 1983, result of an ice jam; minimum recorded, 17 ft^3/s June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 2	1130	ice jam	*10.16
May 10	1530	831	5.92
May 31	1430	*2,090	8.29
Aug. 12	2400	954	6.66

Minimum daily, 80 ft^3/s Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	134	195	120	96	207	348	551	1890	656	433	366
2	166	128	194	82	96	216	339	582	1850	637	432	369
3	151	122	195	80	96	222	347	572	1690	638	450	424
4	144	121	194	85	100	234	326	564	1560	606	430	420
5	131	122	205	90	110	245	324	586	1570	576	415	372
6	118	125	201	100	98	248	325	639	1540	569	406	366
7	113	126	202	105	96	244	325	661	1490	572	404	357
8	111	129	208	105	95	261	334	676	1460	568	407	355
9	108	137	205	105	94	262	335	746	1450	572	403	352
10	105	141	208	104	94	280	335	806	1420	626	414	348
11	103	135	214	102	94	297	335	809	1410	565	414	343
12	103	125	213	102	94	339	335	757	1400	543	461	342
13	99	130	204	100	94	356	335	707	1340	520	491	337
14	97	116	220	100	94	358	335	671	1230	509	406	337
15	99	118	222	100	94	333	335	645	1110	494	399	342
16	100	126	224	102	96	308	335	656	1080	495	410	340
17	99	113	212	105	108	307	337	643	998	485	401	344
18	99	108	218	106	110	309	342	612	1030	477	395	349
19	95	116	211	105	110	314	347	572	971	470	401	350
20	94	117	200	100	110	304	354	546	970	461	412	349
21	105	126	200	100	110	300	388	645	913	463	414	356
22	110	120	216	102	110	307	412	850	869	458	404	356
23	111	115	226	103	115	304	435	1030	865	493	389	362
24	116	106	219	102	125	300	471	1190	841	480	371	399
25	118	139	210	102	138	307	519	1360	811	468	364	381
26	120	155	198	100	187	307	537	1650	796	478	362	377
27	136	156	190	100	193	309	525	1780	771	458	355	384
28	127	174	188	100	196	317	515	1860	721	448	361	382
29	123	183	186	100	---	313	531	1930	697	428	369	378
30	135	188	184	98	---	317	557	1990	676	420	371	400
31	134	---	160	96	---	372	---	2010	---	425	362	---
TOTAL	3732	3951	6322	3101	3153	9097	11618	29296	35419	16058	12506	10937
MEAN	120	132	204	100	113	293	387	945	1181	518	403	365
MAX	262	188	226	120	196	372	557	2010	1890	656	491	424
MIN	94	106	160	80	94	207	324	546	676	420	355	337
AC-FT	7400	7840	12540	6150	6250	18040	23040	58110	70250	31850	24810	21690

CAL YR 1982	TOTAL	75580	MEAN	207	MAX	1050	MIN	60	AC-FT	149900
WTR YR 1983	TOTAL	145190	MEAN	398	MAX	2010	MIN	80	AC-FT	288000

09288900 SOWERS CREEK NEAR DUCHESNE, UT

LOCATION.--Lat 39°59'22", long 110°27'33", in SW1/4SW1/4NW1/4 sec.4, T.6 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on left bank 0.5 mi upstream from Ashley National Forest boundary, 5.7 mi upstream from mouth of Tabby Canyon, and 12.4 mi south of Duchesne.

DRAINAGE AREA.--40.6 mi^2.

PERIOD OF RECORD.--May 1964 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--19 years, 4.19 ft^3/s, 3,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 451 ft^3/s Aug. 12, 1983, gage height, 7.45 ft, from rating curve extended above 42 ft^3/s on basis of slope-area measurement of 1974 peak flow; no flow for part of winter period 1964, 1965, Feb. 18-21, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 35 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 11	0700	44	3.37
June 2	1000	69	4.20
Aug. 12	1800	*451	7.45

Minimum daily, 1.7 ft^3/s several days during the winter period.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	3.4	1.7	1.8	2.1	3.2	4.5	14	57	17	17	11
2	4.4	3.3	1.7	1.7	2.0	4.2	4.7	13	59	17	16	11
3	4.1	3.3	1.7	1.7	2.0	3.4	4.6	13	53	18	17	12
4	4.0	3.5	1.8	1.7	2.0	3.1	4.2	14	52	17	19	13
5	3.9	3.4	2.1	1.7	2.0	3.2	4.2	16	50	18	17	12
6	3.8	3.4	2.2	1.7	2.1	3.2	4.0	18	47	18	16	12
7	3.7	3.3	2.0	1.9	2.1	3.3	4.5	20	48	18	16	11
8	3.7	3.6	2.2	2.1	2.3	3.7	4.6	23	46	18	16	11
9	3.6	3.7	2.3	2.0	2.4	4.5	4.8	29	46	21	16	12
10	3.6	3.7	2.6	2.0	2.4	5.0	5.0	36	46	19	16	11
11	3.7	3.5	3.1	2.1	2.3	6.6	5.2	41	45	18	16	11
12	3.6	3.2	2.8	2.1	2.5	6.5	5.2	37	44	18	35	11
13	3.6	2.8	2.6	2.2	2.5	5.4	5.2	34	41	19	23	10
14	3.5	2.5	2.5	2.3	2.6	5.0	4.9	34	38	18	22	9.1
15	3.6	2.0	2.6	2.3	2.5	4.4	4.9	31	34	18	21	8.9
16	3.5	2.0	2.8	2.3	2.5	4.3	5.1	31	34	17	19	8.7
17	3.5	2.2	3.0	2.3	2.4	4.2	5.6	28	33	17	18	8.6
18	3.5	2.4	2.8	2.5	2.5	4.2	6.4	25	33	16	17	8.5
19	3.5	2.4	2.7	2.5	2.5	4.1	6.7	26	31	17	16	8.3
20	3.5	2.4	2.7	2.5	2.4	3.8	8.1	21	28	18	15	8.4
21	3.4	2.4	2.7	2.5	2.6	3.8	8.6	21	26	17	14	8.4
22	3.4	2.2	2.9	2.5	2.5	4.0	8.4	22	23	19	14	8.4
23	3.4	2.0	3.2	2.5	2.8	4.1	8.4	29	23	20	13	8.5
24	3.4	1.9	2.4	2.5	2.8	3.8	9.8	36	23	19	13	8.5
25	3.4	1.9	1.9	2.5	2.9	3.9	12	44	23	19	13	8.5
26	3.7	2.0	1.9	2.4	2.8	4.0	12	52	25	18	12	8.3
27	3.7	2.0	1.9	2.4	2.5	3.9	13	54	24	18	12	11
28	3.4	1.8	1.9	2.4	2.5	4.1	13	53	21	17	12	9.0
29	3.4	1.7	1.7	2.3	---	4.0	14	53	19	16	12	8.6
30	3.4	1.7	1.7	2.4	---	5.2	15	59	17	16	12	11
31	3.5	---	1.7	2.4	---	4.9	---	55	---	16	11	---
TOTAL	113.1	79.6	71.8	68.2	67.5	131.0	216.6	982	1089	552	506	298.7
MEAN	3.65	2.65	2.32	2.20	2.41	4.23	7.22	31.7	36.3	17.8	16.3	9.96
MAX	4.7	3.7	3.2	2.5	2.9	6.6	15	59	59	21	35	13
MIN	3.4	1.7	1.7	1.7	2.0	3.1	4.0	13	17	16	11	8.3
AC-FT	224	158	142	135	134	260	430	1950	2160	1090	1000	592

CAL YR 1982	TOTAL	1518.7	MEAN	4.16	MAX	12	MIN	1.2	AC-FT	3010
WTR YR 1983	TOTAL	4175.5	MEAN	11.4	MAX	59	MIN	1.7	AC-FT	8280

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°36'24", long 110°31'35", in SW1/4SE1/4SE1/4 sec.35, T.3 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft upstream from head of Moon Lake at maximum stage, 2 mi upstream from Brown Duck Creek, 16 mi northeast of Mountain Home.

DRAINAGE AREA.--77.9 mi^2.

PERIOD OF RECORD.--April 1933 to September 1934 (published as West Fork of Lake Fork above Moon Lake, near Mountain Home); July 1942 to September 1955, October 1963 to September 1965 (published as Lake Fork above Moon Lake, near Mountain Home); October 1965 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,180 ft from topographic map. April 1933 to September 1934, at site 2.5 mi upstream at different datum. July 13, 1942 to July 26, 1949, at datum 1.00 ft higher.

REMARKS.--Records good except those for winter months, which are poor.

AVERAGE DISCHARGE.--33 years (water years 1943-55, 1964-83), 113 ft^3/s, 81,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s June 26, 1944, gage height, 5.27 ft, present datum, from rating curve extended above 700 ft^3/s; minimum daily recorded, 13 ft^3/s Apr. 14, 1933.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,000 ft^3/s, 1,950 ft^3/s June 18, gage height, 4.61 ft; minimum daily, 21 ft^3/s Apr. 3-6, 13-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	93	86	29	40	30	23	30	536	680	178	98
2	220	90	76	30	39	31	22	29	460	664	195	133
3	214	91	59	31	38	32	21	30	425	585	193	149
4	205	90	60	31	37	32	21	33	398	546	170	243
5	201	84	62	32	36	30	21	37	425	572	147	144
6	183	83	64	33	33	28	21	38	473	617	181	126
7	176	80	67	37	31	27	23	40	529	654	184	121
8	158	80	65	42	32	28	24	51	597	688	167	157
9	154	83	68	45	33	30	25	63	612	756	147	124
10	148	83	76	45	35	31	26	61	778	691	137	112
11	143	81	82	42	36	32	27	54	911	507	173	101
12	139	91	84	42	34	33	25	48	822	447	163	94
13	137	82	75	43	34	33	21	45	743	407	153	89
14	136	80	53	40	37	31	21	43	676	383	138	85
15	139	75	56	37	38	29	22	41	745	360	150	81
16	142	73	60	37	35	28	23	40	868	311	151	77
17	139	79	64	37	34	27	24	39	1040	288	169	74
18	133	84	68	39	32	26	26	39	1330	268	221	72
19	121	88	63	42	30	25	27	38	1380	273	229	69
20	118	86	56	46	29	23	26	40	1270	296	197	68
21	115	76	60	44	30	23	26	52	1250	276	165	67
22	112	76	70	46	31	25	26	71	1210	314	146	65
23	110	77	80	48	32	25	27	101	1160	281	135	64
24	109	80	68	44	33	25	31	131	1230	236	137	77
25	109	64	58	43	33	27	31	168	950	270	132	67
26	114	66	51	41	31	27	27	232	871	252	122	64
27	102	62	41	41	29	26	28	307	829	220	114	100
28	101	67	34	43	29	24	30	371	805	196	110	75
29	100	73	32	44	---	24	29	460	750	180	124	71
30	101	85	31	46	---	28	29	574	701	173	130	148
31	100	---	30	43	---	26	---	591	---	171	104	---
TOTAL	4411	2402	1899	1243	941	866	753	3897	24774	12562	4862	3015
MEAN	142	80.1	61.3	40.1	33.6	27.9	25.1	126	826	405	157	101
MAX	232	93	86	48	40	33	31	591	1380	756	229	243
MIN	100	62	30	29	29	23	21	29	398	171	104	64
AC-FT	8750	4760	3770	2470	1870	1720	1490	7730	49140	24920	9640	5980

CAL YR 1982	TOTAL	53034	MEAN	145	MAX	760	MIN	17	AC-FT	105200
WTR YR 1983	TOTAL	61625	MEAN	169	MAX	1380	MIN	21	AC-FT	122200

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'43", long 110°29'21", in NW1/4NE1/4NE1/4 sec.19, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, at dam on Lake Fork River, 1.4 mi downstream from Brown Duck Creek, 10.5 mi upstream from Yellowstone River, and 12.5 mi northwest of Mountain Home.

DRAINAGE AREA.--108 mi^2.

PERIOD OF RECORD.--December 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: 1975.

GAGE.--Nonrecording gage read once daily on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir formed by earthfill, rock-faced dam with concrete core. Storage began Dec. 9, 1937. Capacity, 35,760 acre-ft between elevations 8,072.00 ft, crest of original outlet of lake, about 2,000 ft upstream from dam, and 8,137.00 ft, top of spillway gates. Elevation of spillway crest is 8,121.00 ft and elevation of sill of outlet works is 8,064.16 ft. Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft. Total dead storage, 13,740 acre-ft. Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users Association and Uintah Indian Irrigation projects.

COOPERATION.--Capacity table furnished by Bureau of Reclamation. Gage heights furnished by Moon Lake Water Users Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,560 acre-ft July 10, 11, 1950; elevation, 8,139.30 ft; minimum observed, 226 acre-ft Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 35,760 acre-ft June 22; elevation, 8,137.0 ft; minimum contents observed, 22,480 acre-ft Nov. 3, elevation, 8,118.5 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

8,118	22,150	8,130	30,490
8,119	22,810	8,140	38,110
8,120	23,470		

RESERVOIR STORAGE (ACRE-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	30490	31080	---	---	26340	---	---	---
2	---	---	---	---	---	---	---	---	26550	---	---	---
3	26200	22480	---	---	---	---	---	---	26620	---	---	---
4	---	---	---	---	---	---	---	---	26690	---	---	---
5	---	22610	---	---	---	---	---	---	26690	---	---	---
6	---	---	---	30490	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	26900	---	---	---
8	---	---	---	---	---	---	---	---	27250	---	---	---
9	---	---	---	---	---	---	---	31820	27600	---	---	---
10	---	---	---	---	---	---	---	---	28170	---	---	---
11	28320	---	---	---	---	---	---	---	29320	---	35450	---
12	---	---	---	---	---	---	---	---	29320	---	---	---
13	---	---	---	---	---	---	---	29180	30340	---	---	---
14	---	---	---	---	---	---	---	---	30340	---	---	---
15	---	---	---	---	---	31300	---	---	30340	---	---	---
16	---	---	---	---	30860	---	---	---	30410	---	---	---
17	---	---	---	30050	---	---	---	26760	31300	---	---	---
18	---	---	---	---	---	---	---	---	32860	---	---	---
19	26620	---	---	---	---	---	---	---	33920	---	---	---
20	---	---	---	---	---	---	---	24690	34760	---	---	28460
21	---	---	---	---	---	---	---	---	35380	---	---	---
22	---	---	---	---	---	---	---	---	35760	---	35220	---
23	---	---	---	---	---	---	---	23470	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	25170	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	30340	---	---	---	23140	---	---	35300	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	25860	---	---	(a)31080	---	---	---	---	---	---	---
29	---	---	---	---	---	31970	---	24010	---	---	35220	---
30	---	(a)26000	28890	---	---	---	(a)33090	---	(a)35760	---	---	(a)25650
31	(a)23270	---	(a)28890	(a)30490	---	(a)31970	---	(a)25650	---	(a)35760	(a)35140	---
(*)	-2370	+2730	+2890	+1600	+590	+890	+1120	-7440	+10110	0	-620	-9490

CAL YR 1982 . . . . . (*) +14330
WTR YR 1983 . . . . . (*) +10

(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE-HEIGHT READING, CONTENTS INTERPOLATED.

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'23", long 110°29'02", in SW1/4SW1/4NW1/4 sec.20, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft downstream from Moon Lake Dam, 2 mi downstream from Brown Duck Creek, and 12 mi northwest of Mountain Home.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34, and as Lake Fork below Moon Lake, near Mountain Home 1942-65.

REVISED RECORDS.--WSP 1313: 1930 (M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,970 ft by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

AVERAGE DISCHARGE.--41 years (1942-1983), 127 ft^3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft^3/s June 19, 1949 (gage height, 4.83 ft), from rating curve extended above 860 ft^3/s; maximum gage height, 5.46 ft June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,140 ft^3/s June 22, gage height, 5.20 ft; no flow Nov. 10-16, 18-22 when reservoir gates were closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	240	14	12	29	29	13	130	600	743	197	337
2	80	241	8.6	12	29	29	13	130	650	801	233	335
3	80	169	11	12	29	29	13	130	645	623	233	334
4	91	60	11	12	29	29	13	129	645	567	204	332
5	115	60	11	12	29	29	13	129	639	625	178	330
6	113	60	11	12	29	29	12	128	635	670	161	327
7	112	60	11	12	29	29	12	128	633	712	183	325
8	109	35	11	12	29	29	11	128	639	766	214	324
9	105	.98	11	12	29	29	11	310	636	820	191	322
10	103	.00	11	12	29	29	11	393	646	856	163	319
11	204	.00	11	12	29	29	11	392	670	540	170	319
12	266	.00	11	12	29	29	11	389	829	480	243	316
13	267	.00	11	12	29	29	11	385	870	445	224	314
14	264	.00	11	26	29	29	11	381	874	366	218	312
15	262	.00	11	29	29	25	11	380	855	402	215	310
16	261	.00	11	29	29	15	11	376	816	311	213	309
17	261	2.2	11	29	29	15	11	402	688	296	212	305
18	258	.00	11	29	29	15	12	415	801	276	209	303
19	256	.00	11	29	29	15	12	412	1180	280	208	300
20	254	.00	12	29	29	15	13	350	1260	296	204	300
21	253	.00	12	29	29	15	14	292	1350	303	201	295
22	253	.00	12	29	29	15	14	291	1590	319	199	293
23	250	3.8	12	29	29	15	14	291	1510	303	198	288
24	250	5.7	12	29	29	15	14	290	1620	265	194	285
25	248	5.8	12	29	29	15	16	290	1280	262	191	285
26	246	6.3	12	29	29	15	17	317	1150	288	191	281
27	244	7.3	12	29	29	15	16	338	1070	239	189	277
28	244	7.6	12	29	29	15	66	338	1030	223	185	276
29	242	6.6	12	29	---	14	130	426	949	192	213	273
30	240	7.9	12	29	---	14	130	466	831	196	342	272
31	240	---	12	29	---	13	---	524	---	196	339	---
TOTAL	6251	979.18	353.6	675	812	667	667	9480	27591	13661	6515	9198
MEAN	202	32.6	11.4	21.8	29.0	21.5	22.2	306	920	441	210	307
MAX	267	241	14	29	29	29	130	524	1620	856	342	337
MIN	80	.00	8.6	12	29	13	11	128	600	192	161	272
AC-FT	12400	1940	701	1340	1610	1320	1320	18800	54730	27100	12920	18240

CAL YR 1982	TOTAL	54139.78	MEAN	148	MAX	896	MIN	.00	AC-FT	107400
WTR YR 1983	TOTAL	76849.78	MEAN	211	MAX	1620	MIN	.00	AC-FT	152400

09291200 LAKE FORK RIVER BELOW TASKEECH DAMSITE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°30'05", long 110°24'17", in NE1/4NE1/4NW1/4 sec.12, T.1 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 4.5 mi north of Mountain Home, and 4.9 mi upstream from Yellowstone River, and 6.8 mi below Moon Lake Reservoir.

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,375 ft from topographic map.

REMARKS.--Records good except those for winter period and no gage-height record, Jan. 13 to Feb. 15, which are poor. Flow regulated by Moon Lake Reservoir (see station 09290500) and diversion into Twin Potts Reservoir (capacity, 4,133 acre-ft).

AVERAGE DISCHARGE.--7 years, 92.8 ft^3/s, 67,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft^3/s June 22, 1983, gage height, 6.07 ft (from rating curve extended above 1,200 ft^3/s); minimum daily, 3.1 ft^3/s Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,920 ft^3/s June 22, gage height, 6.07 ft (from rating curve extended above 1,200 ft^3/s); minimum daily, 12 ft^3/s several days during winter period.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	260	15	12	28	30	17	74	413	633	69	324
2	25	256	16	13	25	30	17	75	512	713	103	310
3	24	205	14	18	23	30	17	74	507	480	117	293
4	23	66	12	22	22	30	17	74	504	408	91	294
5	28	60	13	23	19	30	17	76	496	430	70	290
6	28	60	14	24	19	30	18	74	491	522	61	286
7	27	59	13	24	22	29	15	74	488	582	61	281
8	25	52	14	21	25	30	15	75	489	665	72	278
9	23	27	13	21	30	30	14	214	493	680	64	280
10	22	24	14	19	36	30	15	307	497	882	52	318
11	99	21	14	18	33	31	15	289	516	450	49	312
12	218	18	16	19	29	32	16	281	651	355	230	298
13	216	19	21	19	31	31	15	266	734	316	225	257
14	201	18	23	32	34	31	14	264	750	237	222	252
15	200	16	22	37	40	30	15	263	779	254	214	241
16	199	15	19	37	29	23	15	261	753	182	210	207
17	198	15	18	39	26	22	15	283	590	152	206	205
18	196	16	21	41	31	22	16	304	703	140	202	205
19	193	16	23	37	30	21	17	298	1100	130	199	197
20	229	15	26	34	26	22	18	250	1140	163	191	188
21	269	15	22	38	32	21	17	178	1160	151	185	187
22	269	15	18	32	32	20	17	172	1860	146	181	186
23	269	15	16	33	30	20	18	171	1860	191	178	182
24	267	12	13	31	30	20	18	159	1940	135	174	187
25	265	12	13	28	30	20	17	145	1440	134	169	193
26	268	14	12	27	30	20	16	144	1190	162	166	194
27	263	13	12	28	29	20	16	176	1080	116	160	196
28	259	13	12	32	28	20	20	178	1030	106	135	192
29	258	14	12	33	---	20	63	239	924	72	140	191
30	260	14	12	27	---	19	72	302	772	67	287	241
31	262	---	12	28	---	19	---	332	---	66	331	---
TOTAL	5111	1375	495	847	799	783	592	6072	25862	9720	4814	7265
MEAN	165	45.8	16.0	27.3	28.5	25.3	19.7	196	862	314	155	242
MAX	269	260	26	41	40	32	72	332	1940	882	331	324
MIN	22	12	12	12	19	19	14	74	413	66	49	182
AC-FT	10140	2730	982	1680	1580	1550	1170	12040	51300	19280	9550	14410

CAL YR 1982	TOTAL	36594.3	MEAN	100	MAX	780	MIN	4.9	AC-FT	72580
WTR YR 1983	TOTAL	63735	MEAN	175	MAX	1940	MIN	12	AC-FT	126400

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT

LOCATION.--Lat 40°30'43", long 110°20'27", in SW1/4SW1/4NE1/4 sec.4, T.1 N., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi downstream from powerplant of Moon Lake Electric Association, Inc., 2 mi downstream from Hell Canyon, 8.2 mi northwest of Altonah.

DRAINAGE AREA.--132 mi^2.

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1965, published as Yellowstone Creek near Altonah.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,430 ft from river-profile map.

REMARKS.--Records good except those of no gage-height record, Oct. 27 to Feb. 15, which are poor. Some diurnal fluctuation caused by powerplant 1.5 mi upstream.

AVERAGE DISCHARGE.--39 years, 139 ft^3/s, 100,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft^3/s June 19, 1983, gage height, 4.24 ft; minimum daily, 25 ft^3/s Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 19	0200	*2,240	4.24
July 10	0300	1,680	3.66

Minimum daily, 52 ft^3/s Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	140	112	53	72	60	55	63	739	736	276	179
2	339	139	100	54	70	61	54	64	698	761	301	200
3	323	137	90	54	67	60	55	64	583	648	316	230
4	311	133	93	55	64	60	55	64	565	608	291	311
5	303	128	96	57	62	59	62	72	582	638	277	226
6	277	125	98	61	59	59	58	70	632	683	255	217
7	268	126	100	66	57	58	57	71	707	715	251	205
8	245	127	108	73	57	57	52	82	791	753	245	243
9	237	126	113	77	59	57	55	90	750	786	245	229
10	230	127	120	77	61	58	53	91	940	1030	234	204
11	222	138	123	77	59	60	54	87	1150	628	335	193
12	214	133	118	73	60	61	55	79	1090	545	310	185
13	210	122	99	69	63	60	54	76	917	503	295	189
14	205	117	95	66	66	61	55	76	791	476	283	189
15	205	115	94	64	65	58	56	73	888	455	299	182
16	207	118	100	64	61	57	55	73	993	411	311	177
17	203	125	105	65	68	59	54	70	1160	388	289	171
18	195	130	109	68	65	58	56	69	1540	366	312	168
19	178	132	106	75	61	55	56	71	1800	362	333	163
20	179	122	96	78	66	61	57	70	1580	398	304	158
21	165	118	104	78	65	59	58	77	1480	390	272	160
22	158	117	109	81	62	60	58	92	1410	399	247	156
23	155	117	116	80	60	56	60	122	1360	389	233	156
24	156	116	105	79	60	57	65	164	1450	346	221	176
25	154	97	88	77	59	57	66	208	1150	348	216	162
26	164	97	74	76	59	55	61	266	1030	360	208	143
27	149	99	67	75	61	57	62	348	957	329	198	171
28	149	104	62	77	63	56	62	436	917	353	194	164
29	148	109	57	80	---	56	63	550	881	303	204	156
30	145	113	54	79	---	55	64	696	793	317	205	214
31	147	---	53	75	---	56	---	783	---	283	188	---
TOTAL	6605	3647	2964	2183	1751	1803	1727	5217	30324	15707	8148	5677
MEAN	213	122	95.6	70.4	62.5	58.2	57.6	168	1011	507	263	189
MAX	364	140	123	81	72	61	66	783	1800	1030	335	311
MIN	145	97	53	53	57	55	52	63	565	283	188	143
AC-FT	13100	7230	5880	4330	3470	3580	3430	10350	60150	31150	16160	11260

CAL YR 1982	TOTAL	65350	MEAN	179	MAX	920	MIN	30	AC-FT	129600
WTR YR 1983	TOTAL	85753	MEAN	235	MAX	1800	MIN	52	AC-FT	170100

09295000 DUCHESNE RIVER AT MYTON, UT

LOCATION.--Lat 40°12'01", long 110°03'47", in NE1/4NW1/4NW1/4 sec.25, T.3 S., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at Myton, 3 mi downstream from Lake Fork.

DRAINAGE AREA.--2,643 mi^2.

PERIOD OF RECORD.--October 1899 to December 1902, April to December 1903, March to December 1904, March to July and September to November 1905, April to July 1906, April to December 1907, March to December 1908, April to December 1909, March to November 1910, July 1911 to current year. Published as "at Price road bridge" 1899-1902.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,061.40 ft NGVD of 1929. Prior to Oct. 14, 1933, nonrecording gages at several sites within 0.5 mi of present site at various datums.

AVERAGE DISCHARGE.--75 years (1899-1902, 1911-1983), 512 ft^3/s, 370,900 acre-ft/yr.

REMARKS.--Records good. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobble Creek ditch, and Strawberry River and Willow Creek ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,800 ft^3/s June 10, 1922, gage height, 7.94 ft site and datum then in use, from rating curve extended above 8,000 ft^3/s; maximum gage height, 8.35 ft June 22, 24, 1983; minimum, less than 1 ft^3/s July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,820 ft^3/s June 22, 24, gage height, 8.35 ft; minimum daily, 296 ft^3/s Apr. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	816	923	597	646	709	624	801	390	3920	3570	578	453
2	661	874	564	660	693	678	786	685	4250	3400	664	458
3	608	846	748	657	675	689	799	666	4490	3040	796	592
4	583	701	754	699	696	791	761	640	4300	2730	741	1020
5	583	670	766	719	707	958	737	633	4230	2540	694	941
6	628	660	748	772	694	937	738	661	4250	2520	616	699
7	842	650	748	845	703	896	746	585	4390	2520	576	636
8	830	664	760	820	730	866	745	531	4470	2690	555	729
9	767	742	804	774	732	866	751	569	4590	2960	546	785
10	742	722	811	777	723	878	760	685	4680	3690	516	681
11	722	723	804	740	699	896	789	614	5190	2800	470	652
12	866	658	779	744	690	955	801	574	5740	2250	545	641
13	934	646	754	772	714	956	758	484	5730	1940	1040	614
14	921	619	773	763	712	934	764	390	4990	1650	894	602
15	932	575	779	732	578	899	744	375	4570	1490	812	575
16	942	597	811	720	582	843	701	422	4310	1350	763	570
17	949	608	779	735	571	829	733	441	4530	1160	809	575
18	919	630	792	756	570	846	738	486	4920	1070	943	570
19	871	675	754	756	587	844	738	612	5790	1010	978	538
20	854	636	754	760	571	806	750	707	6520	958	952	543
21	889	636	792	753	574	791	764	614	6380	857	862	614
22	857	630	798	749	576	792	706	645	6510	920	746	636
23	888	602	804	749	574	792	663	694	6520	1110	641	669
24	872	548	779	736	574	787	675	782	6450	989	523	675
25	869	693	748	747	597	784	688	903	6110	910	513	748
26	878	699	735	746	607	790	609	1290	5300	935	488	711
27	970	663	729	745	597	779	518	1650	4970	841	473	818
28	908	681	711	748	598	790	466	2020	4490	751	453	435
29	885	699	658	729	---	777	319	2440	4350	673	473	315
30	890	717	641	724	---	777	296	2960	4030	605	488	331
31	951	---	614	739	---	831	---	3540	---	571	503	---
TOTAL	25827	20387	23088	23012	18033	25681	20844	28688	150970	54500	20651	18826
MEAN	833	680	745	742	644	828	695	925	5032	1758	666	628
MAX	970	923	811	845	732	958	801	3540	6520	3690	1040	1020
MIN	583	548	564	646	570	624	296	375	3920	571	453	315
AC-FT	51230	40440	45800	45640	35770	50940	41340	56900	299400	108100	40960	37340

CAL YR 1982	TOTAL	237062	MEAN	649	MAX	2670	MIN	42	AC-FT	470200
WTR YR 1983	TOTAL	430507	MEAN	1179	MAX	6520	MIN	296	AC-FT	853900

09297000 UINTA RIVER NEAR NEOLA, UT

LOCATION.--Lat 40°32'08", long 110°03'46", in SE1/4SW1/4SW1/4 sec.25, T.2 N., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1,000 ft downstream from Moon Lake Electric Association, Inc. hydroelectric plant 0.8 mi upstream from Pole Creek, and 7 mi north of Neola.

DRAINAGE AREA.--163 mi^2.

PERIOD OF RECORD.--July 1921 to September 1927 (no winter records 1922-25, 1927), September 1929 to September 1983 (discontinued).

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,910 ft from river-profile map. Prior to Aug. 4, 1951, water-stage recorder or nonrecording gages at several sites within 2,000 ft of present site at various datums. Aug. 4, 1951 to June 11, 1965, water-stage recorder at site 50 ft upstream at various datums.

REMARKS.--Records good except those for winter months and those for period of no gage-height record, June 18 to Sept. 30, which are poor. Flow regulated by powerplant. Summer flow slightly regulated by storage in several small lakes and reservoirs. Water from Pole Creek diverted into forebay. Uinta power canal enlargement completed in August 1944 with flow increase Oct. 12, 13, 1944, which has held fairly constant since. Prior to Nov. 18, 1948, spill from forebay entered river 0.5 mi below station. Discharge measurements, in cubic feet per second, during the water year 1983 Pole Creek canal are as follows:

Nov. 16	1.5	May 20	1.4
Jan. 18	2.7	June 17	2.6
Mar. 8	2.9		

AVERAGE DISCHARGE.--55 years (1925-26, 1929-83), 180 ft^3/s, 130,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 5,000 ft^3/s June 11, 1965, gage height, 7.00 ft from floodmarks, site and datum then in use, from rating curve extended above 1,200 ft^3/s; minimum recorded, 14 ft^3/s Jan. 14, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 12	0100	1,840	4.83
June 18	--	*2,790	maximum daily
July 10	unknown	1,470	unknown

Minimum daily, 61 ft^3/s Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445	161	121	101	80	71	82	96	960	1110	349	257
2	430	151	129	97	79	68	73	94	932	1090	372	235
3	411	140	131	94	71	69	74	97	796	978	376	246
4	398	149	132	91	70	70	73	95	806	874	390	313
5	405	143	125	91	71	72	81	105	803	882	395	231
6	358	142	115	92	61	71	81	107	825	930	349	219
7	329	142	112	90	64	70	82	108	924	938	327	250
8	290	146	107	89	73	70	85	122	1100	922	322	280
9	273	155	105	89	77	73	88	136	1040	1080	318	260
10	262	145	101	89	79	78	88	138	1300	1470	313	240
11	255	148	99	88	79	83	79	148	1620	1000	363	230
12	240	136	98	88	80	90	81	130	1660	874	358	220
13	233	140	95	88	79	89	78	121	1310	754	340	230
14	228	131	92	83	78	84	78	118	1120	719	340	230
15	225	134	94	85	74	78	82	114	1220	677	474	220
16	225	131	98	86	71	77	85	116	1340	618	523	210
17	220	131	99	86	70	80	92	106	1820	575	479	205
18	211	134	96	86	71	81	100	106	2790	545	463	200
19	193	136	96	86	71	79	103	112	2500	518	501	195
20	192	137	93	86	72	83	104	102	2290	529	474	190
21	186	133	90	86	69	84	96	103	2340	518	446	190
22	181	138	93	84	68	87	95	121	2220	496	410	190
23	177	134	93	83	67	84	99	162	2000	490	385	190
24	177	118	92	82	68	78	108	229	2290	452	363	210
25	174	106	90	81	69	84	113	303	2050	425	345	190
26	188	125	80	81	67	82	108	394	2040	425	336	190
27	194	133	75	79	69	83	110	498	1770	400	336	210
28	165	135	69	75	73	88	107	610	1650	390	340	200
29	170	137	74	79	---	84	92	742	1440	372	345	190
30	172	130	82	75	---	91	97	888	1210	376	340	260
31	174	---	92	76	---	96	---	988	---	363	322	---
TOTAL	7781	4121	3068	2666	2020	2477	2714	7309	46166	21790	11794	6681
MEAN	251	137	99.0	86.0	72.1	79.9	90.5	236	1539	703	380	223
MAX	445	161	132	101	80	96	113	988	2790	1470	523	313
MIN	165	106	69	75	61	68	73	94	796	363	313	190
AC-FT	15430	8170	6090	5290	4010	4910	5380	14500	91570	43220	23390	13250

CAL YR 1982	TOTAL	81840	MEAN	224	MAX	1040	MIN	34	AC-FT	162300
WTR YR 1983	TOTAL	118587	MEAN	325	MAX	2790	MIN	61	AC-FT	235200

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION.--Lat 40°33'54", long 109°55'37", in SE1/4SE1/4SW1/4 sec.18, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on left bank 0.8 mi upstream from heading of United States Whiterocks Canal, and 6.5 mi north of Whiterocks.

DRAINAGE AREA.--113 mi^2.

PERIOD OF RECORD.--September 1899 to December 1903, April to December 1907, March 1908 to November 1910, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as Whiterocks River in Canyon, 1899, and as Whiterocks Creek near Whiterocks, 1918-25. November 1917 to June 1921 United States Whiterocks Canal diverted above station (records equivalent if flow of Whiterocks Canal is included).

GAGE.--Water-stage recorder. Altitude of gage is 6,980 ft from river-profile map. Prior to Oct. 16, 1930, nonrecording gages at several sites within 1 mi of present site at various datums, Oct. 16, 1930 to Nov. 7, 1979, water-stage recorder at site 60 ft downstream at different datum. Nov. 8, 1949 to June 14, 1975, water-stage recorder at site 40 ft upstream at different datum.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, June 23 to Aug. 23, which are fair. Flow slightly regulated by small mountain lakes. One small diversion 2 mi above station for irrigation of about 100 acres above and below station.

AVERAGE DISCHARGE.--76 years (1899-1903, 1908-10, 1913-83), 123 ft^3/s, 89,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft^3/s, June 22, 1983, gage height, 5.28 ft, from rating curve extended above 2,000 ft^3/s; minimum recorded, 9.2 ft^3/s Apr. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 11	2300	3,790	5.17
June 22	2200	*4,640	5.28

Minimum daily, 28 ft^3/s Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	90	57	52	38	34	33	49	799	940	200	105
2	243	82	68	48	38	31	33	49	875	820	190	106
3	240	75	66	46	33	31	33	49	714	740	180	127
4	241	80	66	45	34	31	28	48	743	660	190	185
5	243	77	60	46	38	30	32	52	776	760	190	129
6	216	74	57	46	40	31	35	53	840	770	200	117
7	208	71	55	46	37	31	36	56	865	680	200	104
8	187	73	53	45	36	32	30	69	886	590	200	101
9	174	77	51	44	35	34	33	85	811	550	200	106
10	163	72	50	44	35	35	34	90	1070	500	200	78
11	155	72	49	44	35	37	35	91	1950	460	210	70
12	150	65	49	44	35	39	36	80	1670	510	210	69
13	147	72	47	44	34	39	31	76	938	560	230	67
14	144	62	46	41	34	42	32	70	825	460	200	66
15	144	55	50	44	34	37	33	66	970	400	180	62
16	146	55	54	44	34	36	34	65	1180	440	170	62
17	138	60	49	44	33	37	35	63	1330	450	180	62
18	133	66	48	43	33	37	38	63	1090	390	200	66
19	119	69	48	42	33	31	37	64	2060	340	180	59
20	116	67	44	42	32	34	40	62	1930	300	160	70
21	114	66	46	41	32	35	43	68	2110	270	150	109
22	111	68	47	40	32	35	43	90	2300	300	140	107
23	107	62	46	40	32	35	44	128	1400	340	135	103
24	108	55	46	39	32	31	49	208	1100	300	135	87
25	105	55	48	39	32	35	52	268	1050	270	138	86
26	111	66	41	39	32	33	49	337	1000	250	141	77
27	110	66	37	38	31	32	49	419	900	230	160	121
28	95	68	36	34	34	35	50	594	1000	220	159	119
29	92	69	40	36	---	33	50	698	1100	210	145	102
30	93	64	45	34	---	35	50	762	1050	250	121	183
31	96	---	50	38	---	37	---	791	---	210	108	---
TOTAL	4713	2053	1549	1312	958	1065	1157	5663	35332	14170	5402	2905
MEAN	152	68.4	50.0	42.3	34.2	34.4	38.6	183	1178	457	174	96.8
MAX	264	90	68	52	40	42	52	791	2300	940	230	185
MIN	92	55	36	34	31	30	28	48	714	210	108	59
AC-FT	9350	4070	3070	2600	1900	2110	2290	11230	70080	28110	10710	5760

CAL YR 1982	TOTAL	51737	MEAN	142	MAX	850	MIN	18	AC-FT	102600
WTR YR 1983	TOTAL	76279	MEAN	209	MAX	2300	MIN	28	AC-FT	151300

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

LOCATION.--Lat 40°12'56", long 109°46'58", in SW1/4SW1/4SW1/4 sec.16, T.3 S., R.2 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 0.25 mi downstream from Uintah River, 1.2 mi southeast of Randlett, and 6.5 mi southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,756.1 ft NGVD of 1929. Prior to Aug. 23, 1944 at site 300 ft downstream at different datum. Aug. 23, 1944 to Sept. 4, 1964 at site 200 ft upstream at datum 1.87 ft higher. Sept. 5, 1964 to June 6, 1968 at site 700 ft upstream at datum 1.68 ft higher. June 7, 1968 to Aug. 31, 1970 at site 200 ft upstream at datum 1.87 ft higher. Sept. 1, 1970 to June 7, 1975 at site 300 ft upstream at datum 2.23 ft higher. June 7, 1975 to May 5, 1977 at site 200 ft upstream at datum 1.87 ft higher.

REMARKS.--Water-discharge records good except those for winter months and no gage-height record, June 19 to July 29, which are fair. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobble Creek ditch, Strawberry River, and Willow Creek Ditch.

AVERAGE DISCHARGE.--41 years, 582 ft^3/s, 421,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft^3/s June 20, 1983; maximum gage height, 9.03 ft Feb. 13, 1962 (backwater from ice); minimum discharge, 2.2 ft^3/s Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 11,500 ft^3/s June 20; minimum daily, 477 ft^3/s June 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	1480	978	880	894	1290	993	501	6080	5290	780	581
2	1570	1340	874	890	894	1350	936	969	6750	4960	821	567
3	1420	1250	1010	920	873	1300	962	1030	7850	4490	1060	619
4	1390	1110	1020	940	894	1280	922	883	6880	3970	998	1160
5	1330	1040	1010	980	915	1490	865	832	6610	3540	1010	1360
6	1390	1020	1010	1020	922	1520	870	872	6270	3450	945	997
7	1510	1000	990	1080	901	1380	870	845	6440	3460	831	833
8	1510	992	1010	1080	974	1290	860	706	6850	3620	786	877
9	1390	1160	1030	1070	958	1270	874	759	7250	3890	722	957
10	1340	1230	1050	1040	950	1270	875	890	7540	5000	654	883
11	1300	1240	1050	1020	922	1300	893	888	8190	4680	620	799
12	1390	1110	1020	1000	908	1370	936	835	8880	3460	681	769
13	1510	1030	976	1000	943	1380	960	711	9360	2810	1120	743
14	1470	963	959	1010	943	1320	913	543	7950	2300	1190	724
15	1460	874	1000	980	866	1350	873	530	5980	2000	1100	716
16	1450	872	1050	960	831	1250	826	633	6260	1720	1140	705
17	1440	894	997	970	831	1140	840	860	7280	1490	1090	682
18	1390	917	1030	980	817	1190	861	775	7540	1340	1120	655
19	1290	1020	1000	990	859	1180	873	880	9900	1210	1290	637
20	1240	1050	919	980	873	1130	872	1530	11500	1150	1310	590
21	1290	964	954	990	880	1100	902	1190	11100	1100	1190	672
22	1260	934	1000	980	880	1070	875	1010	10800	1230	1000	717
23	1300	905	1010	960	873	1050	788	1050	10200	1640	877	742
24	1270	764	964	946	908	1030	794	1170	10300	1600	737	781
25	1250	886	920	937	982	1040	833	1410	10100	1390	638	854
26	1260	964	965	942	1020	1010	807	1920	8620	1380	598	849
27	1600	896	970	926	1020	1010	635	2460	7620	1270	583	912
28	1490	910	960	932	1040	991	595	2840	6920	1160	558	956
29	1340	960	960	916	---	987	501	3560	6590	1040	569	656
30	1340	985	930	908	---	944	477	4560	6030	846	585	639
31	1450	---	890	936	---	999	---	5480	---	769	609	---
TOTAL	43540	30760	30506	30163	25571	37281	25081	43122	239640	77255	27212	23632
MEAN	1405	1025	984	973	913	1203	836	1391	7988	2492	878	788
MAX	1900	1480	1050	1080	1040	1520	993	5480	11500	5290	1310	1360
MIN	1240	764	874	880	817	944	477	501	5980	769	558	567
AC-FT	86360	61010	60510	59830	50720	73950	49750	85530	475300	153200	53980	46870

CAL YR 1982	TOTAL	323292	MEAN	886	MAX	3480	MIN	118	AC-FT	641200
WTR YR 1983	TOTAL	633763	MEAN	1736	MAX	11500	MIN	477	AC-FT	1257000

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.
SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year, once daily.
WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year, once daily.
SEDIMENT DATA: October 1976 to current year, periodically.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 4,490 micromhos Aug. 24, 1960; minimum observed, 225 micromhos June 22, 1983.
WATER TEMPERATURES: Maximum, 29.0°C July 22, 1982; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,250 micromhos May 17; minimum observed, 225 micromhos June 22.
WATER TEMPERATURES: Maximum daily, 26.0°C Aug. 6; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT 27...	1400	1720	790	8.0	9.5	8.0	9.7	644	240	4.7
NOV 22...	1100	915	720	8.2	2.0	1.0	12.4	645	270	5.3
DEC 21...	1000	922	690	8.1	0.5	0.5	12.3	645	260	5.2
JAN 27...	1000	929	690	8.1	0.0	0.5	12.1	643	250	5.1
FEB 24...	1330	831	860	8.2	8.0	3.5	12.6	641	290	5.7
MAR 29...	1045	990	890	8.0	10.0	6.0	11.8	648	320	6.3
APR 26...	1230	796	780	7.9	13.0	10.0	9.9	642	260	5.3
MAY 24...	0930	1050	840	8.1	18.5	15.5	8.2	648	300	5.9
JUN 22...	1600	11000	225	8.2	31.5	17.0	7.4	647	80	1.6
JUL 28...	1345	1100	910	8.2	30.5	21.5	8.1	650	310	6.2
AUG 18...	1400	1080	890	8.1	31.5	23.0	8.3	646	310	6.3
SEP 01...	1445	580	1120	8.0	27.5	21.0	9.6	650	370	7.4

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT										
27...	47	29	72	40	2.1	2.4	140	200	45	0.3
NOV										
22...	56	31	61	33	1.7	1.7	180	180	24	0.3
DEC										
21...	53	31	59	33	1.6	1.6	200	170	23	0.3
JAN										
27...	52	30	58	33	1.6	1.7	190	160	31	0.3
FEB										
24...	57	35	78	37	2.1	2.4	200	200	36	0.4
MAR										
29...	64	38	76	34	1.9	2.0	230	200	34	0.4
APR										
26...	55	31	62	34	1.7	2.3	200	170	27	0.3
MAY										
24...	61	35	73	35	1.9	2.5	200	210	31	0.4
JUN										
22...	20	7.4	13	25	0.7	2.1	60	40	9.1	<0.1
JUL										
28...	64	37	73	33	1.8	2.8	230	210	28	0.4
AUG										
18...	66	36	72	33	1.8	3.0	220	220	27	0.5
SEP										
01...	78	43	97	36	2.2	3.1	240	280	41	0.4

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT										
27...	8.8	490	491	0.67	2280	<0.06	0.08	0.12	<0.01	0.03
NOV										
22...	8.6	463	469	0.63	1140	<0.06	0.08	<0.1	<0.01	0.03
DEC										
21...	9.0	457	465	0.62	1140	0.08	0.1	0.14	<0.01	0.03
JAN										
27...	9.0	444	455	0.6	1110	0.11	0.14	0.14	<0.01	0.03
FEB										
24...	9.0	556	538	0.76	1250	0.10	0.13	<0.1	0.02	0.06
MAR										
29...	8.4	563	559	0.77	1500	0.07	0.09	<0.1	0.02	0.06
APR										
26...	9.2	481	478	0.65	1030	0.09	0.12	<0.1	0.03	0.09
MAY										
24...	10	553	540	0.75	1570	0.06	0.08	<0.1	0.02	0.06
JUN										
22...	4.7	115	133	0.16	3420	0.07	0.09	<0.1	0.02	0.06
JUL										
28...	11	593	562	0.81	1760	0.06	0.08	<0.1	0.00	--
AUG										
18...	13	562	572	0.76	1640	0.05	0.06	0.14	0.02	0.06
SEP										
01...	12	723	700	0.98	1130	0.02	0.03	<0.1	0.03	0.09

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 27...	1400	210
NOV 22...	1100	290
DEC 21...	1000	290
JAN 27...	1000	280
FEB 24...	1330	310
MAR 29...	1045	360
APR 26...	1230	370
MAY 24...	0930	410
JUN 22...	1600	30
JUL 28...	1345	480
AUG 18...	1400	470
SEP 01...	1445	540

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	660	800	---	730	1200	810	---	350	---	940	1010
2	---	620	700	---	720	1200	800	1140	480	---	---	1020
3	---	---	720	---	740	1150	840	1050	600	350	900	820
4	---	610	680	940	760	1060	840	960	---	380	870	---
5	580	690	---	1000	730	1020	840	900	---	400	---	750
6	570	690	670	810	750	930	820	830	400	380	890	790
7	540	700	670	640	740	880	820	---	---	370	930	840
8	550	700	690	---	710	890	820	810	380	370	930	820
9	540	---	---	710	680	880	860	780	380	370	990	780
10	530	800	710	770	---	860	820	840	360	390	---	780
11	530	920	---	790	690	---	800	---	410	440	---	---
12	520	850	---	---	710	840	840	960	410	---	1010	850
13	500	---	780	640	720	820	---	910	370	480	910	870
14	455	---	---	650	730	820	870	1000	340	520	860	910
15	500	720	730	670	750	870	840	---	310	570	800	---
16	510	700	740	790	770	900	870	1140	---	580	830	870
17	510	670	700	810	800	890	870	1250	350	630	810	860
18	510	730	---	650	780	910	820	1050	320	690	730	860
19	---	770	720	710	810	890	820	950	---	---	750	900
20	510	740	730	670	820	890	820	1200	360	750	720	900
21	530	740	690	680	870	910	790	1000	330	770	750	870
22	520	720	710	710	820	900	---	900	350	820	790	860
23	530	740	720	710	810	870	780	840	310	800	820	860
24	530	740	800	730	810	870	810	840	320	770	890	890
25	550	670	790	720	880	900	780	630	340	780	910	---
26	---	650	760	---	---	890	780	550	390	820	1010	860
27	730	660	790	730	940	870	820	490	390	820	960	880
28	630	700	780	730	910	870	890	470	340	840	1030	1090
29	570	---	840	---	---	840	960	420	330	850	1030	1100
30	560	770	820	---	---	840	---	380	350	890	1020	1060
31	630	---	850	730	---	840	---	---	---	920	1010	---
MEAN	545	718	744	---	776	917	831	857	371	620	892	888

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.0	1.0	---	.5	5.0	10.0	---	---	---	---	22.5
2	---	7.0	2.5	---	1.0	5.0	10.0	12.5	---	---	---	22.0
3	14.0	---	.0	---	.5	5.5	7.0	12.0	---	16.5	22.0	---
4	---	4.5	1.0	.0	---	6.0	4.5	16.0	---	---	24.5	---
5	11.0	4.0	---	.0	.5	5.5	5.0	14.5	---	---	---	19.5
6	10.5	3.5	.5	.0	---	3.5	---	14.0	15.5	19.5	26.0	21.0
7	10.0	5.5	.0	.0	.0	6.0	8.5	---	---	18.0	22.5	20.5
8	9.0	---	.0	---	1.5	8.0	10.0	16.0	---	23.0	24.0	21.0
9	6.0	---	---	.0	2.5	4.5	7.0	14.5	16.0	20.0	22.5	21.5
10	8.5	4.5	1.0	.5	---	9.0	8.5	15.5	---	19.0	---	20.5
11	8.5	4.5	---	.0	2.5	---	9.0	---	---	20.5	---	---
12	8.0	3.5	---	---	1.0	8.0	8.0	12.5	---	---	24.5	20.5
13	---	---	.0	.0	2.0	9.0	---	14.5	14.0	21.5	20.5	21.5
14	---	---	---	.0	4.0	6.5	8.0	13.0	---	18.5	24.5	20.0
15	---	3.0	1.0	.0	3.0	6.0	11.0	---	---	21.5	24.0	---
16	9.0	3.0	.0	.5	4.0	7.5	6.0	10.0	---	19.5	23.5	20.0
17	8.0	3.0	.0	.0	2.5	6.5	7.0	13.0	16.5	22.5	24.0	19.0
18	7.5	3.0	---	.0	3.0	6.5	7.5	13.0	16.0	21.5	23.0	19.0
19	---	2.5	.0	.0	4.5	6.0	6.5	12.0	---	---	23.5	15.5
20	7.0	2.0	.0	.5	1.0	7.0	10.0	16.0	---	21.0	21.0	15.0
21	6.5	1.0	1.0	.5	2.5	7.0	12.5	17.5	---	22.0	23.0	15.0
22	9.0	1.0	.0	.0	2.0	8.0	---	17.0	17.0	19.0	22.5	16.0
23	8.5	.0	.5	.5	3.0	8.5	11.5	18.0	18.0	---	23.0	---
24	9.0	.5	.0	.5	4.0	6.5	14.5	15.5	18.0	22.5	23.5	18.5
25	8.5	.0	.0	.0	4.0	5.5	12.0	19.0	16.5	21.5	24.0	---
26	---	.0	.0	---	---	7.0	13.0	19.5	17.5	21.5	24.5	18.0
27	8.5	.0	.0	.0	3.0	9.0	14.0	18.5	18.5	23.0	22.0	18.0
28	8.5	.0	.5	.5	4.0	7.5	12.0	15.0	19.0	24.0	21.0	16.5
29	8.0	---	.0	---	---	10.0	---	17.0	18.0	24.5	---	17.0
30	7.5	2.5	.0	---	---	12.5	---	---	15.5	21.5	---	16.0
31	8.0	---	.5	1.0	---	8.5	---	---	---	21.5	---	---
MEAN	---	---	.5	---	2.5	7.0	---	15.0	---	---	---	---

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
27...	1400	1720	8.0	265	1230
NOV					
22...	1100	915	1.0	25	62
DEC					
21...	1000	922	0.5	19	47
JAN					
27...	1000	929	0.5	29	73
FEB					
24...	1330	831	3.5	144	323
MAR					
29...	1045	990	6.0	85	227
APR					
26...	1230	796	10.0	192	413
MAY					
24...	0930	1050	15.5	375	1060
JUN					
22...	1600	11000	17.0	322	9560
JUL					
28...	1345	1100	21.5	175	520
AUG					
18...	1400	1080	23.0	276	805
SEP					
01...	1445	580	21.0	66	103

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 40°00'50", long 109°04'48", in NW1/4NE1/4NE1/4 sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft upstream from small right bank tributary, 2.7 mi downstream from Colorado-Utah State line, and 7.5 mi upstream from Evacuation Creek.

DRAINAGE AREA.--3,680 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Diversions for irrigation of about 31,900 acres above station.

AVERAGE DISCHARGE.--7 years, 704 ft^3/s, 510,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,850 ft^3/s June 28, 1983, gage height, 8.68 ft; minimum, 10 ft^3/s July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,850 ft^3/s June 28, gage height, 8.68 ft; minimum daily, 230 ft^3/s Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	644	528	230	400	1100	533	1110	4730	3930	1160	650
2	600	663	520	240	390	1250	514	1220	4350	3710	1180	644
3	620	606	500	250	380	1350	511	1250	4310	3500	1160	631
4	620	570	480	280	380	1160	528	1200	3970	3510	1120	628
5	575	551	450	330	370	1150	486	1150	3960	3470	1160	687
6	654	534	430	390	370	1550	445	1170	4030	3050	1140	657
7	630	542	420	460	370	973	429	1250	3870	2820	1150	633
8	620	538	420	450	390	691	425	1240	3670	2750	1060	616
9	590	554	410	440	400	634	450	1290	3780	2840	1010	603
10	590	546	410	420	420	634	468	1450	3860	2800	977	595
11	580	580	440	410	430	642	479	1710	3880	2610	975	574
12	570	590	450	410	420	801	541	2000	4080	2310	1120	555
13	560	550	360	390	400	898	550	1880	4520	2000	1100	542
14	560	510	320	380	380	845	503	1740	4930	1780	1000	535
15	550	470	300	370	370	800	472	1700	3680	1670	906	516
16	550	460	300	370	390	693	465	1660	3160	1530	868	497
17	540	490	300	380	420	573	467	1770	3220	1430	841	507
18	540	530	300	410	430	553	489	2000	3380	1340	787	502
19	520	560	320	430	430	535	532	1880	3670	1280	833	491
20	510	560	340	420	420	516	619	1790	4080	1220	829	479
21	500	560	360	420	400	495	660	1610	4520	1220	829	462
22	500	540	380	440	400	467	692	1560	4730	1280	818	449
23	500	500	360	450	400	475	733	1660	4730	1550	767	487
24	500	490	310	440	450	489	725	1840	4720	1640	727	517
25	510	480	300	420	550	489	807	2190	4810	1460	718	572
26	550	470	290	410	660	482	967	2750	5020	1430	718	573
27	580	500	290	410	780	490	1000	3120	5550	1500	702	569
28	570	500	280	410	950	481	978	3670	5560	1440	685	530
29	615	500	265	410	---	477	964	4060	5110	1330	668	517
30	574	510	250	410	---	476	998	4410	4380	1220	668	531
31	595	---	240	410	---	470	---	4620	---	1160	715	---
TOTAL	17693	16098	11323	12090	12550	22639	18430	61950	128260	64780	28391	16749
MEAN	571	537	365	390	448	730	614	1998	4275	2090	916	558
MAX	720	663	528	460	950	1550	1000	4620	5560	3930	1180	687
MIN	500	460	240	230	370	467	425	1110	3160	1160	668	449
AC-FT	35090	31930	22460	23980	24890	44900	36560	122900	254400	128500	56310	33220

CAL YR 1982	TOTAL	293461	MEAN	804	MAX	2560	MIN	160	AC-FT	582100
WTR YR 1983	TOTAL	410953	MEAN	1126	MAX	5560	MIN	230	AC-FT	815100

NOTE.--No gage-height record Dec. 16 to Jan. 19.

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURES: October 1976 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Specific conductance and temperature recorder since October 1976.

REMARKS.--Sediment loads computed based on U.S.P.S. 69 pumping sediment sampler concentrations for days where concentrations are given.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,570 micromhos July 22, 1977; minimum recorded, 120 micromhos April 29, 1981.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 31.0°C Aug. 9, 1978; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 61,000 mg/L Sept. 8, 1978; minimum daily mean, 40 mg/L Sept. 21, 1983.
SEDIMENT LOADS: Maximum daily, 412,000 tons Sept. 8, 1978; minimum daily, 1.0 ton July 2, 3, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 950 micromhos Mar. 22; minimum recorded, 319 micromhos, July 5.
WATER TEMPERATURES: Maximum recorded, 27.0°C Aug. 10; minimum, 0.0°C several days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 12,700 mg/L May 30; minimum daily mean, 40 mg/L Sept. 21.
SEDIMENT LOADS: Maximum daily, 152,000 tons May 31; minimum daily, 50 tons Sept. 21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)
OCT											
12...	1100	610	625	7.9	11.0	8.0	10	39	11.0	21	639
29...	1000	625	700	8.1	2.0	4.0	--	--	10.2	--	633
NOV											
30...	1500	518	650	7.3	8.0	.3	--	--	--	--	--
JAN											
20...	1400	415	685	8.1	3.5	.0	--	--	11.0	--	625
MAR											
22...	1100	455	950	8.5	14.5	5.0	--	--	10.3	--	625
MAY											
03...	1530	1180	920	8.4	18.0	11.0	--	--	8.9	--	633
JUN											
07...	1100	3910	530	8.3	21.0	12.0	5	1700	8.5	170	635
AUG											
30...	1100	664	700	8.5	29.0	21.0	5	320	7.6	42	643
SEP											
06...	1330	620	770	8.4	30.0	20.0	--	--	7.5	--	635

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT											
12...	255	74	62	24	47	29	1.3	1.5	181	<.5	160
29...	250	75	62	23	45	28	1.3	1.4	175	--	150
NOV											
30...	261	79	65	24	48	28	1.3	1.3	183	--	160
JAN											
20...	241	67	62	21	40	26	1.2	1.4	175	--	150
MAR											
22...	326	100	71	36	87	37	2.2	2.3	227	--	240
MAY											
03...	316	--	64	38	87	37	2.2	2.5	213	--	260
JUN											
07...	201	--	44	22	33	26	1.0	1.4	156	<2.5	120
AUG											
30...	276	--	64	28	49	28	1.3	1.7	193	<.5	170
SEP											
06...	300	--	69	31	58	29	1.5	2.2	214	--	190

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT											
12...	21	.2	14	434	439	.59	715	157	<.020	<.10	.080
29...	21	.3	14	--	422	.57	712	--	--	<.10	--
NOV											
30...	24	.3	14	--	446	.61	624	--	--	<.10	--
JAN											
20...	15	.3	14	421	409	.57	472	45	<.020	.22	.060
MAR											
22...	35	.3	13	625	621	.85	768	218	<.020	.14	.220
MAY											
03...	20	.3	11	--	611	.83	1950	--	--	.81	--
JUN											
07...	7.3	.3	11	335	334	.46	3540	928	<.020	.75	<.060
AUG											
30...	14	.2	14	441	458	.60	791	573	<.020	.25	.040
SEP											
06...	14	.3	16	--	509	.69	852	--	--	.39	--

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT										
12...	.10	.82	45.0	44	.90	.080	.25	<.010	<.010	--
29...	--	--	--	--	--	--	--	--	<.010	--
NOV										
30...	--	--	--	--	--	--	--	--	<.010	--
JAN										
20...	.08	--	--	--	--	--	--	--	.020	.06
MAR										
22...	.28	--	--	--	--	--	--	--	.060	.18
MAY										
03...	--	--	--	--	--	--	--	--	.020	.06
JUN										
07...	--	--	1.00	--	--	.430	1.3	--	.030	.09
AUG										
30...	.05	--	1.20	--	--	.020	.06	--	.040	.12
SEP										
06...	--	--	--	--	--	--	--	--	.030	.09

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT										
12...	1100	20	1	43	<1	<1	<10	10	34	2
JUN										
07...	1100	60	1	240	<1	<1	<10	10	57	5
AUG										
30...	1100	30	2	59	1	<1	<10	10	40	4

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
12...	24	3	<.1	1	<1	2	1	740	<1.0	12
JUN										
07...	21	8	<.1	6	2	2	<1	440	3.4	190
AUG										
30...	--	1	<.1	3	3	2	<1	790	2.8	73

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT		
12...	1100	50
29...	1000	40
NOV		
30...	1500	40
JAN		
20...	1400	50
MAR		
22...	1100	60
MAY		
03...	1530	100
JUN		
07...	1100	80
AUG		
30...	1100	60
SEP		
06...	1330	70

DATE	TIME	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)
JUN								
07...	1100	130	<9.6	190	<4.1	130	<4.0	110
AUG								
30...	1100	--	<11	<18	6.5	12	6.2	11

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT					
12...	1100	3.4	<.01	<1	<1
JAN					
20...	1400	3.7	--	--	--
MAR					
22...	1100	5.4	--	--	--
JUN					
07...	1100	6.1	<.01	7	<1
AUG					
30...	1100	4.2	<.01	4	<1

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	588	588	588									
2	608	574	595									
3	616	572	600									
4	596	554	584									
5	600	592	596									
6	590	590	590									
7	580	580	580									
8	569	569	569									
9	559	559	559									
10	549	549	549									
11	539	539	539									
12	529	529	529									
13	519	519	519									
14	508	508	508									
15	498	498	498									
16	488	488	488									
17	478	478	478									
18	468	468	468									
19	457	457	457									
20	447	447	447									
21	437	437	437									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	634	584	606	394	374	386	---	---	---	788	728	757
2	649	599	616	383	353	366	---	---	---	802	762	784
3	603	573	591	371	352	362	---	---	---	856	776	802
4	627	587	606	370	350	354	---	---	---	860	770	800
5	611	561	579	349	319	337	---	---	---	---	---	---
6	566	526	541	387	347	365	---	---	---	939	769	840
7	570	520	544	396	376	384	---	---	---	833	793	806
8	562	542	554	405	385	393	595	550	590	807	777	793
9	554	504	524	403	363	379	612	571	592	---	---	---
10	527	496	509	382	362	370	638	608	623	845	755	774
11	519	479	491	391	371	379	635	595	615	769	739	754
12	491	461	468	419	369	392	871	581	675	773	733	755
13	473	443	453	478	418	447	848	628	729	817	747	773
14	485	455	463	497	467	482	785	654	697	821	741	774
15	527	487	503	515	485	502	671	621	649	795	755	770
16	550	440	514	534	504	520	708	668	679	800	739	772
17	552	512	523	563	533	546	754	654	681	784	744	766
18	514	464	482	591	551	567	691	651	668	778	738	756
19	486	436	455	590	560	573	797	648	692	762	722	742
20	438	408	419	570	550	562	694	634	657	736	696	720
21	421	391	408	830	630	720	681	621	648	750	680	708
22	403	373	388	---	---	---	647	597	621	790	710	737
23	395	365	378	---	---	---	634	614	622	770	710	744
24	384	364	374	---	---	---	690	630	670	790	710	736
25	392	372	380	---	---	---	707	657	686	840	760	795
26	411	371	389	---	---	---	764	674	709	810	760	788
27	420	390	399	---	---	---	720	680	701	800	750	776
28	418	398	406	---	---	---	697	667	680	790	740	760
29	407	387	401	---	---	---	833	663	723	770	720	749
30	405	376	390	---	---	---	760	680	703	780	760	768
31	---	---	---	---	---	---	784	714	738	---	---	---
MONTH	649	364	478	---	---	---	871	550	669	939	680	773

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	10.0	11.0									
2	12.5	9.5	11.0									
3	12.5	9.5	11.0									
4	14.0	10.0	12.0									
5	12.5	9.0	10.5									
6	11.5	8.0	9.5									
7	11.0	8.5	10.0									
8	10.0	8.0	9.0									
9	9.0	7.0	8.0									
10	9.0	6.0	7.5									
11	9.0	6.0	7.5									
12	10.0	6.5	8.0									
13	11.0	7.5	9.0									
14	11.0	7.5	9.5									
15	12.0	8.0	10.0									
16	11.5	8.5	10.0									
17	11.5	8.0	10.0									
18	12.0	8.5	10.0									
19	10.0	7.5	9.0									
20	9.5	6.0	8.0									
21	8.0	6.0	7.0									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---				---	---	---
2				---	---	---				---	---	---
3				---	---	---				---	---	---
4				---	---	---				---	---	---
5				---	---	---				---	---	---
6				---	---	---				---	---	---
7				---	---	---				---	---	---
8				---	---	---				---	---	---
9				---	---	---				---	---	---
10				8.5	6.0	7.5				---	---	---
11				8.5	5.5	7.5				---	---	---
12				10.0	6.5	8.0				---	---	---
13				9.0	7.0	8.0				---	---	---
14				8.0	6.0	7.0				---	---	---
15				6.0	4.5	5.0				---	---	---
16				5.5	3.0	4.0				---	---	---
17				5.0	3.5	4.5				---	---	---
18				4.5	3.0	4.0				8.5	8.0	8.5
19				5.0	2.0	3.5				10.0	8.0	9.0
20				5.5	2.0	4.0				11.5	9.5	10.5
21				6.0	2.5	4.5				13.5	10.0	11.5
22				7.5	3.5	5.5				16.0	12.0	14.0
23				8.0	5.0	6.0				16.5	13.5	15.0
24				5.5	3.5	4.5				17.0	14.5	15.5
25				6.0	3.5	4.5				17.5	15.0	16.0
26				6.5	3.0	5.0				16.5	14.5	15.5
27				7.0	3.5	5.5				17.0	14.5	16.0
28				8.0	5.0	6.5				16.5	14.5	15.5
29				9.0	4.5	7.0				16.0	14.0	15.0
30				10.0	6.0	8.0				15.5	14.0	14.5
31				8.0	6.0	7.5				14.0	12.0	13.0
MONTH				---	---	---				---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.5	11.0	12.5	16.0	14.0	15.0	---	---	---	21.5	18.5	20.0
2	13.0	11.5	12.0	15.5	14.5	15.0	---	---	---	22.5	18.5	20.5
3	13.0	11.0	12.0	17.0	14.5	15.5	---	---	---	23.5	19.0	21.0
4	13.5	12.0	13.0	17.0	15.0	16.0	---	---	---	23.5	20.0	21.5
5	13.5	12.0	12.5	17.0	14.5	16.0	---	---	---	21.5	18.5	20.0
6	13.0	12.0	12.5	18.0	15.5	16.5	---	---	---	21.5	17.0	19.5
7	14.0	11.5	13.0	19.0	16.5	18.0	---	---	---	21.0	17.5	19.5
8	14.5	13.0	14.0	19.5	18.0	18.5	---	---	---	21.5	18.0	19.5
9	13.5	12.0	13.0	19.5	17.5	18.5	26.5	23.0	24.5	21.5	18.0	19.5
10	14.5	13.0	13.5	19.5	17.0	18.5	27.0	23.0	24.5	21.0	17.0	19.0
11	15.0	13.5	14.5	19.0	17.0	18.0	25.5	23.0	24.5	21.0	17.0	19.0
12	14.5	12.5	13.5	19.5	17.0	18.0	24.5	22.5	23.5	21.0	16.5	19.0
13	12.5	11.0	11.5	20.5	17.5	19.0	24.0	21.0	22.5	21.0	16.5	19.0
14	13.5	9.5	11.5	20.5	18.0	19.5	25.0	21.5	23.0	20.0	17.5	19.0
15	14.5	11.5	13.0	20.0	18.5	19.0	25.5	22.0	23.5	20.5	16.5	18.5
16	15.5	13.5	14.5	20.0	17.0	18.0	24.0	22.0	23.0	20.0	16.0	18.0
17	16.5	14.5	15.5	20.5	17.5	19.0	25.5	21.5	23.5	20.0	16.0	18.0
18	17.0	15.0	16.0	21.5	18.0	19.5	25.5	22.0	23.5	19.5	15.5	17.5
19	17.5	15.5	16.5	21.5	19.5	20.5	24.0	21.5	23.0	18.5	15.0	17.0
20	17.5	15.5	16.5	22.0	20.0	21.0	23.5	21.5	22.5	15.0	11.5	13.5
21	17.0	15.0	16.0	22.0	19.5	20.5	22.5	19.5	21.0	15.0	10.0	12.5
22	17.5	15.0	16.0	21.0	20.0	20.5	23.0	19.5	21.0	15.5	11.0	13.0
23	17.5	15.5	16.5	20.0	20.0	20.0	22.5	19.0	20.5	14.5	12.5	13.5
24	16.5	15.0	16.0	---	---	---	21.5	18.0	20.0	16.5	13.5	15.0
25	16.5	15.0	15.5	---	---	---	22.5	18.5	20.5	17.5	13.5	15.5
26	16.5	15.0	16.0	---	---	---	22.5	18.5	20.5	17.5	14.0	16.0
27	15.5	14.0	15.0	---	---	---	22.5	18.5	20.5	17.5	15.0	16.5
28	16.5	13.5	14.5	---	---	---	21.5	19.0	20.5	17.5	14.0	16.0
29	17.0	14.0	15.5	---	---	---	21.5	18.0	19.5	17.0	14.5	16.0
30	16.0	14.5	15.0	---	---	---	21.5	18.0	20.0	16.0	14.0	15.0
31	---	---	---	---	---	---	22.0	18.5	20.5	---	---	---
MONTH	17.5	9.5	14.0	---	---	---	27.0	.5	22.0	---	---	---

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3570	6940	280	487	115	164	115	71	60	65	1140	3390
2	1580	2560	280	501	115	161	115	75	62	65	1200	4050
3	1020	1710	235	385	115	155	115	78	58	60	1030	3750
4	812	1360	230	354	115	149	115	87	75	77	970	3040
5	581	902	200	298	115	140	115	102	93	93	1000	3110
6	735	1300	180	260	115	134	115	121	95	95	1120	4690
7	518	881	125	183	115	130	115	143	90	90	1160	3050
8	410	686	120	174	115	130	115	140	97	102	1090	2030
9	210	335	120	179	115	127	115	137	105	113	1050	1800
10	259	413	115	170	115	127	115	130	107	121	1000	1710
11	213	334	115	180	115	137	115	127	112	130	980	1700
12	164	252	115	183	115	140	115	127	107	121	1020	2210
13	202	305	115	171	115	112	115	121	125	135	1040	2520
14	204	308	115	158	115	99	115	118	145	149	1010	2300
15	224	333	115	146	115	93	115	115	148	148	950	2050
16	188	279	115	143	115	93	115	115	177	186	840	1570
17	194	283	115	152	115	93	115	118	205	232	740	1140
18	176	257	115	165	115	93	112	124	215	250	600	896
19	147	206	115	174	115	99	110	128	340	395	490	708
20	150	207	115	174	115	106	110	125	380	431	430	599
21	145	196	115	174	115	112	110	125	430	464	390	521
22	142	192	115	168	115	118	110	131	470	508	350	441
23	172	232	115	155	115	112	107	130	510	551	330	423
24	185	250	115	152	115	96	102	121	610	741	372	491
25	185	255	115	149	115	93	105	119	660	980	468	618
26	200	297	115	146	115	90	82	91	970	1730	444	578
27	248	388	115	155	115	90	80	89	770	1620	348	460
28	330	508	115	155	115	87	77	85	820	2100	684	888
29	345	573	115	155	115	82	83	92	---	---	600	773
30	305	473	115	158	115	78	83	92	---	---	564	725
31	295	474	---	---	115	75	70	77	---	---	420	533
TOTAL	---	23689	---	6204	---	3515	---	3454	---	11752	---	52764

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1940	2790	4050	12100	11800	151000	2750	29200	856	2680	650	1140
2	1360	1890	5400	17800	10000	117000	2550	25500	1580	5030	590	1030
3	744	1030	5830	19700	10300	120000	2500	23600	656	2050	530	903
4	225	321	5880	19100	9400	101000	2450	23200	552	1670	530	899
5	220	289	4720	14700	9700	104000	2400	22500	1680	5260	470	872
6	245	294	4400	13900	9500	103000	2250	18500	2420	7450	410	727
7	295	342	4100	13800	8000	83600	2200	16800	784	2430	360	615
8	310	356	3720	12500	7500	74300	2050	15200	430	1230	300	499
9	310	377	4220	14700	9100	92900	1950	15000	340	927	235	383
10	340	430	6600	25800	10100	105000	1950	14700	377	994	210	337
11	450	582	9400	43400	10500	110000	1900	13400	348	916	185	287
12	680	993	11000	59400	10200	112000	1600	9980	5500	16600	165	247
13	810	1200	7900	40100	10700	131000	1300	7020	9000	26700	150	220
14	1010	1370	6400	30100	8800	117000	1200	5770	6900	18600	145	209
15	1200	1530	6100	28000	6700	66600	1100	4960	5200	12700	130	181
16	1510	1900	8200	36800	4900	41800	900	3720	4600	10800	120	161
17	1600	2020	5300	25300	3500	30400	760	2930	4200	9540	110	151
18	1580	2090	8400	45400	2950	26900	720	2600	3100	6590	100	136
19	1350	1940	10300	52300	2800	27700	660	2280	4000	9000	85	113
20	1800	3010	10400	50300	3600	39700	710	2340	2900	6490	60	78
21	1810	3230	7700	33500	3650	44500	1230	4050	1900	4250	40	50
22	2300	4300	6600	27800	3600	46000	4900	16900	1200	2650	45	55
23	2100	4160	7300	32700	3050	39000	5700	23900	960	1990	55	72
24	2000	3920	7900	39200	2850	36300	6480	28700	930	1830	65	91
25	4400	9590	9800	57900	2700	35100	4050	16000	880	1710	85	131
26	5200	13600	10900	80900	3300	44700	6480	25000	840	1630	125	193
27	3850	10400	12200	103000	3650	54700	5220	21100	790	1500	155	238
28	2700	7130	12500	124000	3400	51000	3920	15200	740	1370	170	243
29	2390	6220	11300	124000	3050	42100	1120	4020	730	1320	155	216
30	2550	6870	12700	151000	2900	34300	680	2240	760	1370	160	229
31	---	---	12200	152000	---	---	576	1800	740	1430	---	---
TOTAL	---	94174	---	1501200	---	2182600	---	418110	---	168707	---	10706

TOTAL LOAD FOR YEAR: 4476875 TONS.

09306405 HELLS HOLE CANYON CREEK AT MOUTH, NEAR WATSON, UT

LOCATION.--Lat 39°58'24", long 109°07'40", in NW1/4SE1/4SW1/4, sec.5, T.10 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.1 mi upstream from mouth and 6.5 mi north of Watson.

DRAINAGE AREA.--24.5 mi^2.

PERIOD OF RECORD.--October 1974 to January 1976, and February 1976 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,040 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--8 years (1975, 1977-83), 0.060 ft^3/s, 44 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 473 ft^3/s Aug. 12, 1975, gage height, 3.75 ft, from rating curve extended above 88 ft^3/s on basis of slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.00	.00
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.0	.00

CAL YR 1982	TOTAL	21.50	MEAN	.06	MAX	5.0	MIN	.00	AC-FT	43
WTR YR 1983	TOTAL	2.00	MEAN	.00	MAX	2.0	MIN	.00	AC-FT	4.0

09306410 EVACUATION CREEK ABOVE MISSOURI CREEK, NEAR DRAGON, UT

LOCATION.--Lat 39°47'52", long 109°04'27", in SW1/4SW1/4SW1/4 sec.1, T.12 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.5 mi upstream from Missouri Creek and 0.8 mi north of Dragon.

DRAINAGE AREA.--100 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 2.32 ft^3/s, 1,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft^3/s Aug. 21, 1982, gage height, 10.48 ft, from rating curve extended above 835 ft^3/s; minimum, 0.04 ft^3/s Feb. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft^3/s July 31, gage height, 8.48 ft; minimum daily, 0.14 ft^3/s Nov. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.2	.90	.40	.40	25	9.0	16	96	11	12	5.3
2	2.4	.41	.80	.35	.40	15	7.0	9.2	86	9.7	13	5.6
3	2.4	.15	.75	.35	.40	3.5	8.3	8.5	78	8.7	9.2	4.3
4	2.2	.25	.90	.35	.40	2.2	8.6	9.2	70	8.2	8.8	3.0
5	7.8	.27	.85	.35	.40	11	7.3	7.5	65	7.9	7.8	2.4
6	1.0	.28	.76	.45	.45	7.3	7.0	6.2	60	7.7	7.8	2.3
7	.36	.29	.74	.55	.43	4.1	6.7	4.1	60	8.8	7.8	2.5
8	.42	.30	.90	.60	.47	3.9	6.3	3.9	61	11	7.3	2.7
9	.38	.31	.90	.60	.50	4.0	6.1	4.8	60	8.3	7.3	2.6
10	.34	.32	.80	.55	.48	3.9	5.6	5.8	55	8.8	52	1.8
11	.33	.43	.75	.55	.60	5.0	5.2	12	54	8.8	33	1.4
12	.33	.50	.92	.50	1.0	6.4	5.2	12	62	6.1	30	1.4
13	.32	.48	.70	.50	1.9	5.6	6.4	9.5	63	4.8	15	1.7
14	.32	.44	.60	.45	11	4.5	5.7	7.3	35	4.4	9.5	1.8
15	.32	.40	.60	.45	11	4.9	5.3	8.8	28	4.0	8.6	1.8
16	.32	.40	.55	.45	12	2.7	5.1	18	25	3.7	10	1.8
17	.33	.39	.55	.45	11	3.0	4.9	51	24	3.4	6.5	1.7
18	.34	.50	.55	.50	8.1	2.6	4.8	22	20	3.2	4.5	1.6
19	.39	.56	.50	.50	5.0	3.5	6.8	24	19	3.0	4.0	1.5
20	.40	.57	.50	.50	3.2	3.0	7.8	24	18	2.8	5.0	1.5
21	.39	.57	.50	.45	3.1	2.3	7.5	18	17	91	3.3	1.6
22	.40	.57	.60	.45	3.6	1.9	8.2	17	15	33	2.9	1.7
23	.39	.48	.70	.40	11	2.7	6.8	17	14	33	2.8	2.2
24	.39	.45	.70	.45	18	2.4	6.0	20	15	16	3.1	2.8
25	.39	.42	.65	.45	35	2.4	11	26	16	41	3.4	2.1
26	.40	.34	.60	.45	6.3	5.6	9.1	30	17	44	3.4	2.4
27	.43	.33	.55	.45	2.8	5.0	7.5	43	15	44	3.1	2.2
28	.40	.19	.55	.45	11	4.1	6.0	57	19	11	3.4	2.1
29	.39	.17	.50	.40	---	3.4	5.0	83	16	6.9	16	1.9
30	.39	.14	.45	.40	---	4.3	21	95	13	5.1	22	3.1
31	.57	---	.40	.40	---	8.4	---	97	---	71	6.0	---
TOTAL	28.04	12.11	20.72	14.15	159.93	163.6	217.2	766.8	1196	530.3	328.5	70.8
MEAN	.90	.40	.67	.46	5.71	5.28	7.24	24.7	39.9	17.1	10.6	2.36
MAX	7.8	1.2	.92	.60	35	25	21	97	96	91	52	5.6
MIN	.32	.14	.40	.35	.40	1.9	4.8	3.9	13	2.8	2.8	1.4
AC-FT	56	24	41	28	317	325	431	1520	2370	1050	652	140

CAL YR 1982	TOTAL	516.00	MEAN	1.41	MAX	50	MIN	.14	AC-FT	1020
WTR YR 1983	TOTAL	3508.15	MEAN	9.61	MAX	97	MIN	.14	AC-FT	6960

09306410 EVACUATION CREEK ABOVE MISSOURI CREEK, NEAR DRAGON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.
SPECIFIC CONDUCTANCE: October 1976 to September 1977, daily.
WATER TEMPERATURES: October 1975 to September 1977, daily.
SEDIMENT DATA: January 1975 to August 1977, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
18...	1500	.34	3000	8.1	19.0	18.0	7.9	615	876
MAY									
06...	1300	5.9	2500	8.4	13.5	14.0	7.9	614	794
JUN									
07...	1500	58	1100	8.2	24.5	19.0	7.5	619	387
AUG									
24...	1700	3.1	2620	8.2	28.0	23.0	6.8	621	699

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
18...	420	120	140	660	62	9.9	3.8	461	1800
MAY									
06...	--	120	120	370	50	5.8	3.9	381	1100
JUN									
07...	--	71	51	120	40	2.7	2.5	273	380
AUG									
24...	--	82	120	420	57	7.0	3.2	368	1300

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT								
18...	24	.6	12	3037	4.1	2.8	<.10	<.01
MAY								
06...	15	.5	11	1969	2.7	31.4	<.10	.02
JUN								
07...	6.8	.3	16	811	1.1	127	.79	.01
AUG								
24...	17	.4	14	2178	3.0	18.2	<.10	.02

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT			
18...	1500	180	50
MAY			
06...	1300	110	20
JUN			
07...	1500	50	50
AUG			
24...	1700	140	50

09306625 ASPHALT WASH NEAR MOUTH, NEAR WATSON, UT

LOCATION.--Lat 39°56'05", long 109°16'00" in NE1/4NE1/4SE1/4 sec.24, T.10 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on right bank 1.3 mi upstream from mouth, and 6.7 mi northwest of Watson.

DRAINAGE AREA.--97.5 mi^2.

PERIOD OF RECORD.--October 1974 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,950 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--9 years, 0.22 ft^3/s, 159 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft^3/s Sept. 5, 1982, gage height, 9.70 ft, from slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81 ft^3/s Aug. 29, gage height, 1.39 ft; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	3.0	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.80	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.02	.00	.00	.00	.00	.50	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	1.0	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.02	3.00	.00	.00	.00	.70	1.80	.00
MEAN	.00	.00	.00	.00	.00	.10	.00	.00	.00	.02	.06	.00
MAX	.00	.00	.00	.00	.02	3.0	.00	.00	.00	.50	1.0	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.04	6.0	.00	.00	.00	1.4	3.6	.00

CAL YR 1982	TOTAL	252.73	MEAN	.69	MAX	200	MIN	.00	AC-FT	501
WTR YR 1983	TOTAL	5.52	MEAN	.01	MAX	3.0	MIN	.00	AC-FT	11

09306800 BITTER CREEK NEAR BONANZA, UT

LOCATION.--Lat 39°45'12", long 109°21'15", in SE1/4SW1/4SW1/4 sec.21, T.12 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on left bank 150 ft upstream from road bridge, 3 mi downstream from Sweetwater Canyon Creek, 17 mi upstream from mouth, and 18 mi south-southwest of Bonanza.

DRAINAGE AREA.--324 mi^2.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,570 ft from topographic map.

REMARKS.--Records good except those for winter period and no gage-height record Dec. 1 to Jan. 11., which are fair. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--13 years, 2.37 ft^3/s, 1,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft^3/s Sept. 5, 1982, gage height, 13.82 ft from floodmarks; rating curve extended above 6 ft^3/s on basis of slope-area measurement of peak flow; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 25 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 2	0145	87	7.17
July 26	0845	45	6.12
Aug. 3	0145	*302	8.66
Aug. 12	2300	104	7.44
Aug. 16	2100	41	5.92

Minimum recorded, 0.65 ft^3/s Oct. 5, 6, 15, 16, may have been less during period of ice effect or no gage-height record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	1.3	1.5	1.0	1.3	9.9	6.5	8.8	73	22	39	11
2	.74	1.3	1.4	.98	1.3	9.4	6.5	8.3	84	21	41	11
3	.74	1.3	1.4	.98	1.2	11	7.0	7.8	79	20	49	11
4	.70	1.3	1.3	.99	1.3	7.8	6.8	7.9	72	19	23	9.8
5	.70	1.3	1.3	1.0	1.3	8.0	6.5	7.8	71	19	23	10
6	.74	1.4	1.3	1.0	1.2	6.7	6.3	7.6	68	18	16	9.0
7	.79	1.3	1.2	1.1	1.3	5.9	6.2	7.5	66	17	13	8.6
8	.74	1.3	1.2	1.2	1.3	5.2	6.5	7.5	65	17	12	8.3
9	.70	1.3	1.3	1.2	1.2	5.2	6.3	7.6	69	16	11	8.5
10	.70	1.4	1.3	1.2	1.2	5.5	6.5	7.7	64	18	11	8.2
11	.74	1.7	1.3	1.2	1.2	6.2	7.0	8.1	58	17	11	8.1
12	.74	1.8	1.3	1.2	1.2	7.1	8.1	8.6	55	16	24	8.0
13	.74	1.7	1.2	1.2	1.3	6.7	7.6	8.4	56	15	22	7.9
14	.70	1.5	1.2	1.2	1.3	6.5	6.8	8.2	51	15	15	7.9
15	.65	1.4	1.1	1.2	1.3	6.2	6.5	8.8	47	16	13	8.2
16	.70	1.5	1.1	1.2	1.8	5.5	6.3	10	43	15	18	8.2
17	.88	1.6	1.0	1.2	1.6	5.7	6.3	12	40	12	14	8.0
18	.88	1.9	1.0	1.2	1.8	5.7	6.7	13	38	11	11	7.6
19	.84	2.2	1.0	1.2	2.6	5.4	6.7	12	34	11	11	7.4
20	.88	2.6	1.1	1.3	2.5	5.2	7.0	13	33	13	11	7.4
21	.93	2.2	1.1	1.3	2.2	5.2	7.0	11	31	17	9.7	8.1
22	.93	2.0	1.1	1.4	2.3	5.1	7.0	10	29	25	9.1	8.7
23	.93	1.7	1.2	1.3	2.8	5.7	6.8	9.9	28	28	9.0	9.1
24	.93	1.6	1.2	1.3	4.0	6.2	6.7	9.9	29	28	9.1	11
25	.93	1.5	1.2	1.3	5.8	5.9	6.8	10	30	20	10	11
26	.93	1.5	1.1	1.2	3.7	5.7	6.8	11	28	24	9.8	10
27	1.1	1.5	1.1	1.3	4.4	5.7	7.0	9.3	32	18	9.8	11
28	1.1	1.5	.94	1.3	6.8	6.0	7.1	9.9	31	23	10	11
29	1.3	1.5	.96	1.3	---	5.9	7.3	17	27	17	12	10
30	1.3	1.5	.98	1.3	---	5.7	8.3	42	25	14	14	11
31	1.2	---	.99	1.3	---	6.5	---	58	---	14	12	---
TOTAL	26.67	47.6	36.37	37.05	61.2	198.4	204.9	378.6	1456	556	502.5	275.0
MEAN	.86	1.59	1.17	1.20	2.19	6.40	6.83	12.2	48.5	17.9	16.2	9.17
MAX	1.3	2.6	1.5	1.4	6.8	11	8.3	58	84	28	49	11
MIN	.65	1.3	.94	.98	1.2	5.1	6.2	7.5	25	11	9.0	7.4
AC-FT	53	94	72	73	121	394	406	751	2890	1100	997	545

CAL YR 1982	TOTAL	935.78	MEAN	2.56	MAX	150	MIN	.06	AC-FT	1860
WTR YR 1983	TOTAL	3780.29	MEAN	10.4	MAX	84	MIN	.65	AC-FT	7500

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UT

LOCATION.--Lat 39°57'56", long 109°24'59", in NE1/4SE1/4NE1/4 sec.10, T.10 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on left bank 0.6 mi upstream from mouth and 13 mi southwest of Bonanza.

DRAINAGE AREA.--398 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to September 1983 (discontinued).

REVISED RECORDS.--WDR UT-82-1: 1981(M).

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,770 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 1.92 ft^3/s, 1,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 772 ft^3/s Sept. 6, 1982, gage height, 5.90 ft, on basis of slope-area measurement; minimum daily, 0.10 ft^3/s July 2, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft^3/s Aug. 10, gage height, 4.05 ft; minimum daily, 0.44 ft^3/s Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.54	.54	.49	.49	5.8	3.7	5.7	50	14	20	9.3
2	1.4	.54	.54	.49	.49	7.2	3.8	5.8	62	13	23	9.2
3	1.0	.54	.54	.52	.54	7.2	4.5	5.6	64	12	42	9.4
4	.90	.54	.54	.53	.56	6.5	4.0	5.3	61	11	39	8.7
5	.78	.54	.54	.52	.55	6.4	3.8	5.3	57	11	22	8.1
6	.78	.54	.54	.52	.56	5.5	3.5	5.3	53	10	17	8.0
7	.76	.54	.54	.49	.56	4.5	3.6	5.2	50	9.8	14	7.6
8	.58	.54	.54	.49	.55	3.1	3.5	5.2	49	9.2	8.9	7.4
9	.50	.54	.54	.49	.55	2.7	3.7	5.2	52	9.1	9.0	7.2
10	.50	.56	.54	.49	.54	2.4	3.6	5.3	54	9.0	24	6.8
11	.50	.60	.54	.49	.54	2.1	3.8	5.6	48	9.5	12	6.6
12	.48	.54	.54	.49	.54	1.9	4.3	5.9	44	8.7	15	6.4
13	.48	.54	.54	.49	.54	1.8	4.7	6.0	44	8.3	21	6.4
14	.46	.54	.54	.49	.54	4.1	4.5	6.0	40	7.7	22	6.9
15	.47	.54	.54	.49	.54	3.3	4.3	6.1	37	8.0	16	7.0
16	.46	.54	.49	.49	.54	3.1	4.0	7.5	33	8.2	12	7.2
17	.47	.54	.49	.51	.54	2.9	3.9	8.2	30	7.3	14	7.1
18	.46	.56	.49	.50	.54	2.8	4.0	8.2	28	6.3	8.8	6.9
19	.44	.57	.49	.52	.54	2.8	4.2	8.4	25	5.7	8.8	6.6
20	.47	.54	.49	.53	.54	3.0	4.2	8.6	23	10	8.3	6.5
21	.46	.54	.49	.52	.54	3.0	4.4	8.0	21	10	7.8	7.0
22	.46	.54	.49	.51	.63	2.9	4.5	7.0	19	12	7.4	8.1
23	.47	.54	.49	.51	.95	3.9	4.2	6.5	18	17	7.6	8.5
24	.47	.54	.49	.51	1.3	3.9	4.1	6.6	18	15	7.8	8.9
25	.46	.54	.49	.51	2.0	3.5	4.1	6.9	19	13	8.0	9.6
26	.49	.54	.49	.51	3.0	3.3	4.4	7.2	18	14	8.1	9.3
27	.49	.54	.49	.52	4.5	3.1	4.4	7.3	18	12	7.9	9.3
28	.48	.54	.49	.50	4.6	3.1	4.6	6.9	20	13	7.9	9.5
29	.49	.54	.49	.50	---	3.3	4.8	7.8	17	12	8.4	9.7
30	.49	.54	.49	.50	---	3.2	5.2	13	16	11	15	10
31	.49	---	.49	.50	---	3.2	---	39	---	10	9.7	---
TOTAL	19.04	16.33	15.94	15.62	28.31	115.5	124.3	240.6	1088	326.8	452.4	239.2
MEAN	.61	.54	.51	.50	1.01	3.73	4.14	7.76	36.3	10.5	14.6	7.97
MAX	1.9	.60	.54	.53	4.6	7.2	5.2	39	64	17	42	10
MIN	.44	.54	.49	.49	.49	1.8	3.5	5.2	16	5.7	7.4	6.4
AC-FT	38	32	32	31	56	229	247	477	2160	648	897	474

CAL YR 1982	TOTAL	760.94	MEAN	2.08	MAX	139	MIN	.44	AC-FT	1510
WTR YR 1983	TOTAL	2682.04	MEAN	7.35	MAX	64	MIN	.44	AC-FT	5320

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to September 1983 (discontinued). Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to September 1978.
WATER TEMPERATURES: April to September 1977.
SEDIMENT DATA: October 1976 to August 1978, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
13...	1300	.48	17000	8.0	15.0	14.0	--	--	3112
JAN									
12...	1530	.51	15000	7.9	-1.0	6.5	11.7	648	3046
APR									
26...	1230	4.2	7100	8.2	15.0	11.0	9.1	636	2552
AUG									
09...	1600	9.0	4160	8.0	34.0	29.0	6.2	639	1611

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
13...	2400	290	580	3500	71	28	11	702	9400
JAN									
12...	2400	280	570	3300	70	26	9.8	681	9300
APR									
26...	--	280	450	1100	48	9.6	8.9	423	4100
AUG									
09...	--	200	270	590	44	6.5	6.4	319	2500

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT									
13...	240	.8	12	14467	19.7	18.8	1.5	.01	.03
JAN									
12...	240	.8	12	14133	19.2	19.5	2.2	<.01	--
APR									
26...	86	.7	6.0	6289	8.5	71.3	.31	.04	.12
AUG									
09...	46	.4	16	3822	5.2	92.9	.12	.02	.06

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT				
13...	1300	12000	80	310
JAN				
12...	1530	12000	60	190
APR				
26...	1230	3300	50	50
AUG				
09...	1600	1600	40	20

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
18...	1530	.57	9.5	50	.08
JAN					
12...	1530	.51	6.5	158	.22
FEB					
24...	1400	.56	11.0	144	.22
MAR					
23...	1415	3.1	9.0	381	3.2
APR					
26...	1230	4.2	11.0	429	4.9
MAY					
24...	1345	6.4	26.5	638	11
JUN					
06...	1945	53	17.5	11350	1620
15...	1400	37	19.0	4940	494
24...	1630	18	20.0	2220	108
AUG					
09...	1600	9.0	29.0	413	10

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT

LOCATION.--Lat 40°03'15", long 109°28'36", in SW1/4NE1/4NE1/4 sec.7, T.9 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.1 mi upstream from jeep trail, 1.1 mi upstream from mouth, and 11 mi southeast of Ouray.

DRAINAGE AREA.--228 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1983 (discontinued).

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,700 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 4.60 ft^3/s, 3,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 852 ft^3/s Oct. 5, 1981, gage height, 5.27 ft; maximum gage height, 5.65 ft Feb. 20, 1980 (shifting control); no flow most of the time each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 608 ft^3/s Mar. 5, gage height, 4.47 ft; no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	7.6	.00	.00	.00	203	.00	51	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	135	.04	90	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	48	28	4.0	.00	.00	.00	.13
4	.00	.00	.00	.00	.00	15	11	.43	.00	.00	.00	.05
5	1.7	.00	.00	.00	.00	296	1.8	.04	.00	.00	.00	.00
6	27	.00	.00	.00	.00	56	.50	.00	.00	.00	.00	.00
7	2.0	.00	.00	.00	.00	18	.00	.00	.00	20	.00	.00
8	.05	.00	.00	.00	.00	12	.00	.00	.00	.73	.00	.00
9	.00	.00	.00	.00	.00	4.0	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	3.0	.00	.00	.00	.00	.00	.00
11	.00	40	.00	.00	.00	2.0	.00	.00	.00	.00	12	.00
12	.00	19	.00	.00	.00	1.0	.00	.00	.00	.00	57	.00
13	.00	5.0	.00	.00	.00	.50	.00	.00	.00	.00	17	.00
14	.00	1.0	.00	.00	.00	220	.00	.00	.00	.00	2.0	.00
15	.00	.00	.00	.00	.00	76	.00	.00	.00	.00	22	.00
16	.00	.00	.00	.00	.00	11	.00	41	.00	.00	6.0	.00
17	.00	.00	.00	.00	.00	4.0	.00	50	.00	.00	3.0	.00
18	.00	.00	.00	.00	.00	2.0	.00	2.4	.00	.00	.50	.00
19	.00	.00	.00	.00	.00	.73	.00	.50	.00	.00	9.5	.00
20	.00	.00	.00	.00	.00	.50	.00	.00	.00	30	1.0	.00
21	.00	.00	.00	.00	.00	.07	.00	.00	.00	8.6	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50	.00	.00
23	.00	.00	.00	.00	2.2	.00	.00	.00	.00	11	.00	.00
24	.00	.00	.00	.00	11	2.9	.00	.00	.00	.50	.00	.00
25	.00	.00	.00	.00	21	7.7	.00	.00	.00	.67	.00	.00
26	.00	.00	.00	.00	35	2.4	.00	.00	14	14	.00	.00
27	.00	.00	.00	.00	82	.64	.00	.00	10	10	.00	.00
28	.00	.00	.00	.00	135	.14	.00	.00	.13	3.6	.00	.00
29	.00	.00	.00	.00	---	.06	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	2.6	.00	.00	.00	.00	.00
31	6.8	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	37.55	72.60	.00	.00	286.20	1121.64	43.94	239.37	24.13	99.60	130.00	.18
MEAN	1.21	2.42	.00	.00	10.2	36.2	1.46	7.72	.80	3.21	4.19	.01
MAX	27	40	.00	.00	135	296	28	90	14	30	57	.13
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	74	144	.00	.00	568	2220	87	475	48	198	258	.4

CAL YR 1982	TOTAL	1870.44	MEAN	5.12	MAX	244	MIN	.00	AC-FT	3710
WTR YR 1983	TOTAL	2055.21	MEAN	5.63	MAX	296	MIN	.00	AC-FT	4080

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1977 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to September 1978, October 1979 to current year, daily. March 1979 to August 1979, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT LOADS: Maximum daily, 107,900 tons Feb. 20, 1980; no flow many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAY										
02...	1500	39	477	9.0	17.5	16.0	8.4	640	3.5	1.4

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAY									
02...	55	1.0	64	37	13	.7	17	.44	.100

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAY				
02...	1500	180	750	7

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT

LOCATION.--Lat 40°03'54", long 109°38'06", in SE1/4SE1/4NW1/4 sec.2, T.9 S., R.20 E., Uintah County, Hydrologic Unit 14050007, Uintah and Ouray Indian Reservation, on left bank 2.8 mi southeast of Ouray and 3.9 mi upstream from mouth.

DRAINAGE AREA.--5,120 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Diversions for irrigation of about 33,200 acres above station.

AVERAGE DISCHARGE.--9 years, 710 ft^3/s, 514,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,510 ft^3/s June 28, 1983, gage height, 9.65 ft; minimum, 1.6 ft^3/s July 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,510 ft^3/s June 28, gage height, 9.65 ft; minimum daily, 230 ft^3/s Jan. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	716	601	533	250	420	1050	481	1150	4960	4580	1220	727
2	608	644	559	230	410	1200	550	1300	4870	4210	1160	657
3	627	660	515	230	400	1400	636	1300	4650	4000	1240	627
4	599	607	492	260	380	1550	560	1250	4520	3820	1190	591
5	579	557	477	300	380	1650	545	1240	4340	3670	1130	571
6	627	523	447	350	370	1700	486	1290	4390	3570	1210	655
7	630	536	459	400	370	1600	434	1360	4320	3390	1160	612
8	623	531	460	460	370	903	440	1370	4180	3210	1180	587
9	593	541	457	470	370	702	440	1370	4090	3190	1080	583
10	578	532	450	460	380	636	450	1430	4020	3100	1030	567
11	583	601	430	440	400	648	480	1690	3980	2990	993	559
12	576	644	420	410	410	714	520	1780	3880	2800	1240	548
13	550	603	450	390	410	966	540	1850	3930	2580	1370	502
14	536	581	350	380	400	1310	560	1760	4070	2330	1130	473
15	541	529	280	370	390	987	530	1630	4000	2080	1080	466
16	527	493	290	370	390	910	495	1800	3400	1850	1000	456
17	519	458	290	380	400	774	490	1710	3250	1590	910	442
18	522	507	300	390	420	612	490	1750	3400	1440	835	449
19	535	534	310	400	430	560	500	1820	3550	1320	800	449
20	526	581	320	420	440	560	560	1810	3790	1310	870	442
21	520	552	340	430	440	560	600	1730	4170	1310	823	439
22	515	549	370	430	440	525	650	1650	4390	1340	846	432
23	517	523	390	430	440	495	700	1660	4480	1430	801	449
24	507	468	380	440	440	495	760	1900	4540	1680	746	477
25	504	473	360	430	500	480	820	2100	4640	1710	719	498
26	501	469	300	420	580	490	900	2610	4880	1470	721	544
27	497	477	290	410	700	490	980	3060	5160	1530	714	563
28	535	520	290	410	840	490	1020	3460	5420	1560	713	567
29	606	501	280	420	---	480	1000	3990	5380	1430	691	540
30	605	504	275	420	---	480	1050	4360	5030	1310	748	532
31	568	---	270	420	---	476	---	4630	---	1210	759	---
TOTAL	17470	16299	11834	12020	12320	25893	18667	61810	129680	73010	30109	16004
MEAN	564	543	382	388	440	835	622	1994	4323	2355	971	533
MAX	716	660	559	470	840	1700	1050	4630	5420	4580	1370	727
MIN	497	458	270	230	370	476	434	1150	3250	1210	691	432
AC-FT	34650	32330	23470	23840	24440	51360	37030	122600	257200	144800	59720	31740

CAL YR 1982	TOTAL	291493	MEAN	799	MAX	2510	MIN	160	AC-FT	578200
WTR YR 1983	TOTAL	425116	MEAN	1165	MAX	5420	MIN	230	AC-FT	843200

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily sediment samples collected at bridge 3.4 mi downstream from gaging station and by U.S.P.S. pumping sediment sampler at gaging station since March 1977.

PERIOD OF RECORD.--February 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURES: April 1977 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. Prior to 1979 water year, specific conductance and water temperature values, published in "Hydrologic and Climatologic Data" reports for Utah.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,900 micromhos July 6, 1977; minimum recorded, 250 micromhos Aug. 1, 3, 1982.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.5°C June 26, 1981; minimum 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 48,400 mg/L Sept. 13, 1982; minimum daily mean, 20 mg/L Jan. 8, 1976.
SEDIMENT LOADS: Maximum daily, 268,000 tons Mar. 29, 1979; minimum daily, 0.69 ton July 2, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily mean, 1,210 micromhos Aug. 31; minimum daily mean, 342 micromhos Aug. 16.
WATER TEMPERATURES: Maximum recorded, 26.5°C Aug. 16; minimum, 0.0°C many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,300 mg/L May 2; minimum daily mean, 51 mg/L Feb. 3.
SEDIMENT LOADS: Maximum daily, 175,000 tons June 3; minimum daily, 55 tons Feb. 3, 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
22...	1300	555	680	8.2	2.5	1.5	4.5	11.5	646	K10
JAN										
27...	1230	500	700	8.2	0.0	0.0	15	10.8	643	K3
MAR										
29...	1230	487	1070	8.2	12.0	9.5	260	9.8	650	K2
MAY										
24...	1230	1960	970	8.2	24.0	17.0	1800	7.8	650	450
JUL										
26...	1315	1360	720	8.2	30.5	22.0	2400	6.6	650	2100
SEP										
13...	1130	477	850	8.2	23.5	20.0	--	7.5	652	K26

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV									
22...	K220	250	5.0	61	24	55	32	1.6	1.5
JAN									
27...	32	250	4.9	62	22	54	32	1.5	1.5
MAR									
29...	130	350	7.0	75	39	110	41	2.6	2.5
MAY									
24...	850	350	7.0	67	44	82	34	2.0	3.0
JUL									
26...	6000	250	5.1	58	26	54	32	1.5	2.9
SEP									
13...	1600	--	--	--	--	--	--	--	--

K Results based on colony count outside acceptable range (nonideal colony count).

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
NOV 22...	190	170	20	0.3	13	459	460	0.62	688
JAN 27...	180	170	18	0.3	13	469	449	0.64	633
MAR 29...	230	300	35	0.3	13	693	714	0.94	911
MAY 24...	220	260	14	0.4	15	645	616	0.88	3410
JUL 26...	180	180	11	0.3	14	463	458	0.63	1700
SEP 13...	--	--	--	--	--	--	0.13	0.00	0.17

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV 22...	<0.06	0.08	1.10	<0.1	0.14	0.43	0.01	<0.01	0.03
JAN 27...	0.10	0.13	0.5	0.18	0.05	0.15	0.01	0.01	0.03
MAR 29...	0.06	0.08	1.00	<0.1	0.27	0.83	0.03	0.03	0.09
MAY 24...	<0.06	0.08	3.80	1.7	0.81	2.5	0.02	0.02	0.06
JUL 26...	0.07	0.09	20.0	0.33	3.60	11	0.03	0.00	--
SEP 13...	0.10	0.13	0.8	0.14	0.15	0.46	<0.00	0.00	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 22...	1300	20	2	62	<1	<1	<1	<3	1	12	2
MAR 29...	1230	30	2	88	1	<1	<1	<3	3	22	1
MAY 24...	1230	20	3	75	1	<1	<1	<3	4	16	<1
JUL 26...	1315	40	3	85	1	<1	<1	<3	4	33	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 22...	24	3	<.1	<10	3	1	<1	760	<6.0	6
MAR 29...	27	5	<.1	<10	7	2	<1	1000	<6.0	19
MAY 24...	36	3	<.1	10	6	8	<1	900	<6.0	7
JUL 26...	31	2	<.1	<10	<1	2	<1	700	<6.0	7

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	710	---	---	680	660	665	760	660	689			
2	680	670	676	680	660	670	730	640	682			
3	---	---	---	680	660	666	680	640	660			
4	---	---	---	710	650	685	700	640	665			
5	---	---	---	700	630	673	710	660	677			
6	---	---	---	660	620	634	680	640	662			
7	772	652	709	650	620	631	650	640	648			
8	744	674	706	630	590	608	710	640	665			
9	696	676	688	600	580	593	760	660	691			
10	708	678	690	600	580	587	760	680	713			
11	730	650	686	590	560	575	710	670	680			
12	712	682	692	660	560	610	670	640	656			
13	694	684	690	650	620	636	640	640	640			
14	706	686	696	710	620	659	---	---	---			
15	708	688	697	670	640	655	---	---	---			
16	690	660	681	670	650	660	---	---	---			
17	742	662	697	700	650	677	---	---	---			
18	714	694	699	670	630	648	---	---	---			
19	696	686	692	680	630	646	---	---	---			
20	688	678	685	700	650	675	---	---	---			
21	700	690	694	650	620	635	---	---	---			
22	712	692	701	650	630	636	---	---	---			
23	704	694	698	660	640	645	---	---	---			
24	716	706	708	690	640	654	---	---	---			
25	718	708	712	760	660	695	---	---	---			
26	720	700	711	810	690	742	---	---	---			
27	670	640	650	800	690	726	---	---	---			
28	680	660	670	710	680	694	---	---	---			
29	680	640	661	710	660	681	---	---	---			
30	660	630	645	720	650	672	---	---	---			
31	680	650	663	---	---	---	---	---	---			
MONTH	772	630	688	810	560	654	---	---	---			

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	1050	986	1000	838	808	822
2				---	---	---	1160	974	1040	915	735	826
3				---	---	---	1010	912	966	1020	892	954
4				---	---	---	990	940	968	1010	929	959
5				---	---	---	1070	968	1020	1030	976	1000
6				---	---	---	1110	976	1050	993	953	978
7				---	---	---	1100	985	1040	990	940	960
8				---	---	---	1150	993	1050	927	887	906
9				970	870	907	1040	1020	1030	884	864	877
10				1020	870	955	1040	1010	1030	901	871	883
11				1060	990	1020	1020	987	1000	878	818	855
12				1050	1000	1030	995	965	974	875	755	793
13				1040	930	1000	993	963	983	768	708	728
14				930	580	788	1070	971	1010	751	721	736
15				830	590	750	1140	969	1060	764	744	748
16				860	820	838	1150	997	1070	787	657	747
17				970	840	935	1050	985	1000	820	660	731
18				1040	950	997	1000	973	984	863	823	841
19				990	940	964	992	962	972	986	816	880
20				1110	970	1010	1090	950	1010	1090	889	984
21				1120	990	1040	1100	958	1010	1110	1070	1090
22				1020	970	991	986	916	954	1100	1040	1080
23				1130	1010	1060	974	894	927	1050	1010	1040
24				1130	960	1050	932	872	892	1000	941	966
25				1110	1000	1050	910	870	888	944	894	913
26				1120	1000	1040	---	---	---	907	837	856
27				1120	980	1050	970	940	961	840	780	802
28				1080	980	1020	927	837	869	776	726	749
29				1090	980	1020	834	---	784	702	672	684
30				1110	970	1030	821	801	810	658	628	638
31				1060	968	1000	---	---	---	634	604	619
MONTH				---	---	---	1160	801	978	1110	604	860

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	600	570	584	450	430	440	---	---	---	847	787	819
2	607	587	597	450	430	438	---	---	---	844	794	820
3	644	604	621	430	410	422	---	---	---	840	770	798
4	621	591	603	430	410	420	---	---	---	847	767	807
5	638	609	629	430	400	407	---	---	---	864	654	773
6	626	586	599	408	378	393	---	---	---	910	820	852
7	603	583	588	437	407	422	---	---	---	917	847	875
8	630	600	615	455	425	437	---	---	---	903	813	851
9	620	590	604	444	434	438	---	---	---	865	750	828
10	581	561	571	432	402	417	---	---	---	858	678	802
11	561	541	549	421	411	416	---	---	---	802	372	535
12	531	521	529	429	409	419	---	---	---	385	355	366
13	502	492	497	458	418	434	---	---	---	838	348	612
14	502	482	492	506	456	479	---	---	---	842	832	837
15	502	472	486	515	495	506	795	345	661	885	835	850
16	513	493	501	533	513	526	702	342	615	866	846	854
17	513	483	498	551	531	543	678	408	479	877	847	857
18	503	463	485	570	550	561	445	425	437	868	838	852
19	462	432	447	---	---	---	691	451	574	859	839	847
20	442	422	428	---	---	---	678	558	619	850	830	835
21	422	402	412	---	---	---	725	655	684	841	821	831
22	421	391	411	---	---	---	711	661	679	852	822	837
23	411	391	404	---	---	---	748	688	718	863	843	855
24	411	391	403	---	---	---	774	744	757	894	854	873
25	420	400	410	---	---	---	791	751	768	905	885	895
26	460	420	438	---	---	---	798	768	784	996	876	908
27	470	420	445	---	---	---	794	774	785	907	877	889
28	470	450	457	---	---	---	811	771	794	878	848	863
29	470	450	460	---	---	---	807	777	792	879	859	867
30	450	440	449	---	---	---	974	774	827	870	850	861
31	---	---	---	---	---	---	1210	781	922	---	---	---
MONTH	644	391	507	---	---	---	---	---	---	996	348	812
YEAR	1210	342	742									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	9.5	---	7.5	5.0	6.0	.0	.0	.0			
2	10.0	9.0	9.5	7.5	5.5	6.5	.0	.0	.0			
3	---	---	---	6.0	4.0	5.0	.0	.0	.0			
4	---	---	---	5.0	3.0	4.0	.0	.0	.0			
5	---	---	---	4.5	2.5	3.5	.0	.0	.0			
6	---	---	---	5.0	2.0	3.5	.0	.0	.0			
7	11.0	9.0	10.5	5.0	2.5	3.5	.0	.0	.0			
8	11.0	8.5	10.0	4.5	3.5	4.0	.0	.0	.0			
9	10.0	8.0	9.0	6.5	4.5	5.0	.0	.0	.0			
10	10.0	7.0	8.5	6.5	4.5	5.0	.0	.0	.0			
11	9.5	7.0	8.5	5.0	4.0	4.5	.0	.0	.0			
12	10.5	7.5	9.0	4.5	2.5	3.5	.0	.0	.0			
13	11.5	8.5	10.0	4.0	2.0	3.0	.0	.0	.0			
14	11.5	8.5	10.0	2.5	.5	1.5	---	---	---			
15	12.5	9.0	10.5	1.0	.0	.5	---	---	---			
16	12.5	9.5	11.0	.5	.0	.0	---	---	---			
17	12.5	9.5	10.5	.5	.0	.0	---	---	---			
18	12.0	9.0	10.5	1.0	.0	.5	---	---	---			
19	10.0	8.0	9.0	2.0	.5	1.0	---	---	---			
20	9.5	7.0	8.0	1.5	.0	1.0	---	---	---			
21	9.5	6.5	8.0	1.5	.0	1.0	---	---	---			
22	9.0	6.5	7.5	1.0	.0	.5	---	---	---			
23	9.0	6.5	7.5	1.0	.0	.5	---	---	---			
24	10.0	7.0	8.5	.0	.0	.0	---	---	---			
25	11.0	9.0	9.5	.0	.0	.0	---	---	---			
26	10.0	9.0	9.5	.0	.0	.0	---	---	---			
27	8.5	7.0	8.0	.0	.0	.0	---	---	---			
28	8.0	5.5	6.5	.0	.0	.0	---	---	---			
29	6.5	5.5	6.0	.0	.0	.0	---	---	---			
30	6.5	6.0	6.0	.0	.0	.0	---	---	---			
31	7.0	6.0	6.5	---	---	---	---	---	---			
MONTH	12.5	5.5	9.0	7.5	.0	2.0	---	---	---			

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	11.0	6.0	8.5	11.5	9.5	10.5
2				---	---	---	10.0	7.0	8.5	12.5	8.5	10.5
3				---	---	---	7.5	5.5	6.5	12.5	10.0	11.5
4				---	---	---	5.5	3.0	4.5	13.5	10.5	12.0
5				---	---	---	5.5	3.0	4.0	14.0	12.5	13.0
6				---	---	---	7.0	2.5	4.5	13.5	11.0	12.0
7				---	---	---	7.5	3.5	5.5	14.0	10.0	12.0
8				---	---	---	9.5	5.0	7.0	15.0	11.5	13.5
9				6.5	5.5	6.0	11.5	6.5	9.0	14.5	12.5	13.5
10				8.0	5.0	6.5	12.0	9.0	10.5	15.0	11.5	13.5
11				9.0	6.5	7.5	11.0	9.0	9.5	14.0	11.5	12.5
12				10.0	7.0	8.5	9.5	7.5	8.5	11.5	10.0	11.0
13				9.0	7.5	8.5	9.5	6.0	7.5	12.5	10.0	11.0
14				8.5	5.5	7.0	7.5	4.5	6.0	11.5	10.0	10.5
15				6.0	5.0	5.5	10.0	5.0	7.5	12.0	9.5	11.0
16				6.5	4.0	5.0	11.0	6.5	9.0	11.5	8.5	10.0
17				6.5	5.0	5.5	13.0	7.5	10.5	10.0	8.0	9.0
18				7.0	5.0	5.5	12.5	9.5	11.0	9.5	8.5	9.0
19				6.5	3.5	4.5	14.5	8.5	11.5	9.0	8.5	8.5
20				7.0	4.0	5.5	14.0	11.5	12.5	12.0	8.5	10.0
21				7.0	4.5	5.5	13.0	11.0	12.0	13.5	10.5	12.0
22				8.0	4.5	6.0	13.5	10.5	12.0	15.5	11.5	13.5
23				8.0	6.0	7.0	15.0	11.5	13.0	17.0	14.0	15.5
24				6.0	4.0	4.5	15.0	12.0	13.5	18.0	15.0	16.5
25				6.0	3.5	4.5	14.0	12.0	13.0	18.5	16.0	17.5
26				7.5	4.0	6.0	---	---	---	18.5	16.5	17.5
27				8.5	5.5	7.0	13.0	12.0	12.5	18.0	16.5	17.5
28				8.5	6.5	7.5	12.0	11.0	11.5	18.0	16.5	17.5
29				9.5	5.5	7.5	13.0	10.5	11.5	17.5	16.5	17.0
30				11.0	7.5	9.0	12.0	10.5	11.0	17.0	16.0	16.5
31				9.0	7.0	8.5	---	---	---	16.0	14.0	15.0
MONTH				---	---	---	15.0	2.5	9.5	18.5	8.0	13.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.0	13.0	13.5	17.0	16.0	16.5	---	---	---	23.0	20.5	21.5
2	14.0	13.0	13.5	17.0	15.5	16.0	---	---	---	23.5	20.0	21.5
3	14.5	12.5	13.5	17.5	16.0	16.5	---	---	---	24.0	20.5	22.0
4	14.0	13.5	14.0	18.0	16.0	17.0	---	---	---	24.0	20.5	22.5
5	14.5	13.0	13.5	18.5	16.5	17.5	---	---	---	23.0	20.0	21.5
6	14.5	13.5	14.0	18.5	17.5	18.0	---	---	---	22.5	19.0	20.5
7	15.0	13.0	14.0	19.5	17.0	18.5	---	---	---	21.5	19.0	20.5
8	15.0	13.5	14.5	20.5	18.5	19.5	---	---	---	22.5	19.5	21.0
9	15.0	14.0	14.5	21.0	19.5	20.0	---	---	---	22.5	19.5	21.0
10	16.0	13.5	14.5	20.0	18.5	19.5	---	---	---	22.5	19.0	20.5
11	16.0	15.0	15.5	20.5	18.0	19.5	---	---	---	22.0	18.5	20.0
12	15.5	14.0	15.0	20.5	18.5	20.0	---	---	---	22.0	18.0	20.0
13	14.0	13.0	13.5	21.5	19.0	20.5	---	---	---	22.5	18.5	20.0
14	13.5	11.5	13.0	22.0	20.0	21.0	---	---	---	21.0	18.5	19.5
15	14.5	12.5	13.5	21.0	19.5	20.5	25.5	24.0	25.0	21.0	17.0	19.0
16	16.0	14.0	15.0	21.0	18.5	19.5	26.5	23.0	24.5	21.5	17.0	19.0
17	17.5	15.0	16.0	21.0	19.0	20.0	26.0	23.5	25.0	21.0	17.5	19.0
18	18.5	16.5	17.5	22.0	19.0	20.0	25.0	23.0	24.0	20.5	17.0	18.5
19	18.0	16.5	17.5	---	---	---	24.0	23.0	23.5	19.0	14.5	17.0
20	18.0	17.0	17.5	---	---	---	25.0	22.0	23.5	15.5	11.5	13.5
21	18.0	16.5	17.5	---	---	---	24.0	21.0	22.5	16.0	11.5	13.5
22	18.0	16.5	17.5	---	---	---	24.0	20.5	22.5	16.5	11.5	14.0
23	18.5	17.0	17.5	---	---	---	23.5	21.0	22.0	16.5	13.5	15.0
24	18.0	16.5	17.5	---	---	---	23.0	20.0	21.5	18.5	14.5	16.5
25	17.0	16.5	16.5	---	---	---	24.0	20.0	21.5	19.0	15.0	17.0
26	17.5	16.5	17.0	---	---	---	23.5	20.5	22.0	18.5	16.0	17.0
27	17.5	16.5	17.0	---	---	---	24.5	20.5	22.5	18.0	17.0	17.0
28	17.0	16.0	16.5	---	---	---	24.0	21.0	22.0	18.5	15.0	17.0
29	17.5	16.0	16.5	---	---	---	22.5	20.0	21.5	17.5	16.0	16.5
30	17.5	16.5	17.0	---	---	---	23.0	20.0	21.5	16.0	14.5	15.5
31	---	---	---	---	---	---	23.0	20.0	21.5	---	---	---
MONTH	18.5	11.5	15.5	---	---	---	---	---	---	24.0	11.5	18.5

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10100	19500	687	1110	298	429	120	81	66	75	4460	12600
2	5060	8310	635	1100	288	435	110	68	55	61	6400	20700
3	2620	4440	625	1110	255	355	106	66	51	55	5690	21500
4	1880	3040	585	959	270	359	105	74	54	55	5250	22000
5	1400	2190	580	872	250	322	95	77	61	63	5020	22400
6	2740	4640	590	833	272	328	138	130	75	75	4910	22500
7	1720	2930	597	864	290	359	155	167	90	90	4940	21300
8	1340	2250	602	863	290	360	160	199	135	135	5310	12900
9	1080	1730	620	906	265	327	200	254	167	167	4630	8780
10	864	1350	600	862	258	313	216	268	190	195	4090	7020
11	742	1170	625	1010	228	265	206	245	234	253	3250	5690
12	717	1120	712	1240	292	331	198	219	278	308	2510	4840
13	746	1110	681	1110	293	356	185	195	925	1020	2590	6760
14	783	1130	635	996	205	194	168	172	525	567	2760	9760
15	690	1010	530	757	214	162	133	133	500	526	2850	7590
16	688	979	620	825	225	176	121	121	630	663	2320	5700
17	680	953	632	782	242	189	91	93	750	810	1820	3800
18	675	951	710	972	217	176	80	84	770	873	1160	1920
19	650	939	680	980	189	158	69	75	925	1070	1000	1510
20	650	923	620	973	205	177	94	107	980	1160	924	1400
21	672	943	615	917	194	178	88	102	1020	1210	812	1230
22	663	922	290	430	191	191	72	84	1180	1400	700	992
23	660	921	261	369	212	223	68	79	1190	1410	862	1150
24	653	894	258	326	202	207	62	74	1250	1490	762	1020
25	665	905	250	319	205	199	61	71	1990	2690	680	881
26	674	912	297	376	135	109	61	69	3090	4840	662	876
27	670	899	255	328	106	83	61	68	4480	8470	710	939
28	648	936	272	382	88	69	66	73	5150	11700	985	1300
29	762	1250	262	354	109	82	65	74	---	---	525	680
30	725	1180	301	410	104	77	63	71	---	---	825	1070
31	672	1030	---	---	115	84	69	78	---	---	682	877
TOTAL	---	71457	---	23335	---	7273	---	3671	---	41431	---	231685

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	755	981	3240	10100	12600	169000	4560	56400	1800	5930	1990	3910
2	1230	1830	15300	53700	12000	158000	4280	48700	2500	7830	1390	2470
3	2090	3590	7250	25400	13900	175000	4420	47700	2500	8370	1050	1780
4	955	1440	5930	20000	13100	160000	4370	45100	1900	6100	670	1070
5	955	1410	6230	20900	12700	149000	4840	48000	1530	4670	800	1230
6	880	1150	5160	18000	13100	155000	3860	37200	2140	6990	825	1460
7	815	955	4380	16100	12100	141000	3890	35600	2100	6580	650	1070
8	845	1000	4340	16100	11100	125000	4280	37100	2320	7390	605	959
9	865	1030	4080	15100	10600	117000	3300	28400	1950	5690	605	952
10	826	1000	5000	19300	9790	106000	3180	26600	2080	5780	550	842
11	745	966	6890	31400	9520	102000	2950	23800	2150	5760	500	755
12	710	997	10200	49000	8680	90900	2840	21500	9270	31000	430	636
13	735	1070	10600	52900	8450	89700	2420	16900	10300	38100	390	529
14	640	968	7510	35700	9500	104000	1860	11700	9200	28100	352	450
15	580	830	5660	24900	10900	118000	1610	9040	8000	23300	314	395
16	550	735	5940	28900	8090	74300	1470	7340	6820	18400	308	379
17	575	761	7620	35200	6380	56000	1340	5750	5730	14100	287	343
18	460	609	5760	27200	6380	58600	1210	4700	4790	10800	274	332
19	340	459	7740	38000	6250	59900	1120	3990	3920	8470	302	366
20	490	741	6360	31100	5990	61300	1100	3890	3880	9110	310	370
21	1210	1960	5680	26500	6060	68200	3720	13200	3600	8000	227	269
22	1750	3070	3300	14700	6400	75900	14700	53200	3150	7200	199	232
23	1850	3500	3060	13700	5960	72100	5120	19800	2320	5020	227	275
24	2180	4470	4960	25400	5670	69500	9020	40900	1300	2620	336	433
25	2040	4520	4180	23700	5680	71200	9080	41900	820	1590	308	414
26	2640	6420	6310	44500	5530	72900	8470	33600	720	1400	1380	2030
27	4940	13100	10400	85900	5490	76500	8180	33800	900	1740	550	836
28	4220	11600	12200	114000	5480	80200	10800	45500	1000	1930	338	517
29	3150	8500	12400	134000	5300	77000	5120	19800	1050	1960	270	394
30	2780	7880	11400	134000	5030	68300	2250	7960	1700	3430	217	312
31	---	---	12200	153000	---	---	1580	5160	2550	5230	---	---
TOTAL	---	87542	---	1338400	---	3001500	---	834230	---	292590	---	26010

TOTAL LOAD FOR YEAR: 5959124 TONS.

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
NOV										
22...	1300	555	1.5	--	280	420	--	--	--	--
JAN										
27...	1230	500	0.0	--	60	81	--	--	--	--
MAR										
29...	1230	487	9.5	86	404	531	--	--	--	--
MAY										
12...	1400	1770	--	--	10300	49200	27	30	48	68
24...	1230	1960	17.0	85	11700	61900	--	--	--	--
JUN										
01...	1800	4950	14.0	--	11800	158000	28	31	60	83
JUL										
26...	1315	1360	22.0	81	6330	23200	--	--	--	--
SEP										
13...	1130	477	20.0	54	531	684	--	--	--	--

09307200 PARIETTE DRAW NEAR OURAY, UT

LOCATION.--Lat 40°04'58", long 109°52'22", in SW1/4SE1/4SE1/4 sec.27, T.8 S., R.18 E., Uintah County, Hydrologic Unit 14060005, on right bank 1.2 mi upstream from Castle Peak Draw and 10.5 mi west of Ouray.

DRAINAGE AREA.--153 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft from topographic map.

REMARKS.--Records good except those for winter months and those for period of no gage-height record, Jan. 5 to Mar. 31, which are poor. Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--8 years, 26.8 ft^3/s, 19,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 626 ft^3/s Sept. 10, 1980, gage height, 9.76 ft; minimum daily, 3.0 ft^3/s Feb. 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 242 ft^3/s Aug. 2, gage height, 6.30 ft; minimum daily, 5.40 ft^3/s Mar. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	53	15	7.4	7.2	9.8	7.5	97	17	39	92	63
2	46	52	15	7.5	7.2	9.8	7.8	50	43	36	99	68
3	44	52	15	7.5	7.3	9.8	6.8	15	41	42	96	108
4	42	50	13	7.5	7.2	9.8	6.5	12	33	41	83	123
5	41	49	15	7.9	7.2	9.8	5.7	11	43	33	101	121
6	40	50	16	8.4	7.4	9.8	5.9	9.6	37	23	84	86
7	39	53	18	8.6	7.7	9.8	5.9	8.5	30	22	78	94
8	39	51	15	8.7	8.1	9.8	5.7	46	23	20	74	102
9	39	46	16	8.7	8.2	9.8	6.1	48	23	25	62	78
10	40	26	13	8.6	8.2	9.8	5.9	27	24	42	47	109
11	40	29	13	8.5	8.3	9.8	7.2	38	23	53	46	117
12	38	29	12	8.4	8.4	9.8	8.8	39	36	39	68	118
13	37	20	11	8.4	8.4	9.8	17	32	57	24	62	89
14	37	17	11	8.4	8.5	9.5	10	55	36	21	61	68
15	35	16	11	8.4	8.5	9.2	8.2	80	41	21	48	62
16	28	15	10	8.4	8.5	8.6	7.5	105	51	23	41	68
17	25	16	9.5	8.4	8.5	8.1	7.2	114	41	33	38	66
18	24	13	9.2	8.4	8.6	7.9	7.2	83	47	43	37	60
19	30	16	9.3	8.4	8.5	7.6	7.5	122	52	31	37	66
20	46	16	9.4	8.4	8.3	7.3	7.0	113	51	34	37	84
21	53	15	9.4	8.3	7.8	6.9	8.0	64	43	37	37	95
22	54	14	9.4	8.3	7.8	6.7	8.0	46	33	39	53	83
23	49	13	9.3	8.4	7.8	7.4	21	36	35	81	66	88
24	48	13	9.2	8.5	7.9	9.4	74	34	34	66	52	95
25	48	16	9.1	8.5	8.0	9.5	76	24	41	75	53	110
26	48	22	7.7	8.5	8.5	9.4	63	20	39	68	55	104
27	56	21	7.6	8.5	9.5	8.0	41	15	42	60	43	100
28	53	30	7.5	8.4	9.7	7.0	40	20	42	52	39	109
29	52	21	7.6	8.3	---	6.1	42	17	33	57	63	91
30	51	15	7.5	8.2	---	5.4	76	16	31	68	95	78
31	52	---	7.4	7.3	---	5.5	---	17	---	80	65	---
TOTAL	1338	849	348.1	256.1	227.2	266.9	600.4	1414.1	1122	1328	1912	2703
MEAN	43.2	28.3	11.2	8.26	8.11	8.61	20.0	45.6	37.4	42.8	61.7	90.1
MAX	64	53	18	8.7	9.7	9.8	76	122	57	81	101	123
MIN	24	13	7.4	7.3	7.2	5.4	5.7	8.5	17	20	37	60
AC-FT	2650	1680	690	508	451	529	1190	2800	2230	2630	3790	5360

CAL YR 1982	TOTAL	11230.8	MEAN	30.8	MAX	164	MIN	6.1	AC-FT	22280
WTR YR 1983	TOTAL	12364.8	MEAN	33.9	MAX	123	MIN	5.4	AC-FT	24530

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT 28...	1530	53	1890	8.1	10.0	6.0	10.8	647	450
NOV 30...	1430	14	3940	8.2	2.0	1.0	12.6	627	890
DEC 20...	1445	9.3	4120	8.1	0.0	0.0	13.2	645	980
FEB 15...	1430	11	3900	8.2	4.5	0.0	13.2	647	910
MAR 24...	1430	9.5	4540	8.2	2.0	4.5	12.4	632	1100
APR 29...	1330	43	2060	8.1	12.5	11.5	9.2	640	470
MAY 26...	1430	22	3050	8.1	30.0	22.0	8.0	646	700
JUN 28...	1445	45	1750	8.2	30.5	22.0	7.6	645	430
JUL 27...	1445	67	1750	8.2	27.5	20.5	7.9	648	430
AUG 22...	1445	80	1690	8.2	32.0	21.0	8.8	647	460
SEP 06...	1500	87	1390	8.2	32.0	18.0	8.4	646	390

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 28...	9.0	100	49	270	56	5.7	2.5	230	740
NOV 30...	18	190	100	630	61	9.5	2.8	320	1800
DEC 20...	20	210	110	710	61	10	2.9	380	1900
FEB 15...	18	200	100	660	61	9.8	2.7	350	1700
MAR 24...	21	230	120	790	62	11	3.5	310	2100
APR 29...	9.3	100	53	320	60	6.6	2.8	250	770
MAY 26...	14	150	79	460	59	7.8	3.8	300	1300
JUN 28...	8.6	100	44	250	56	5.4	3.1	220	670
JUL 27...	8.6	99	45	230	53	5.0	2.7	260	610
AUG 22...	9.1	110	44	220	51	4.6	3.2	260	590
SEP 06...	7.9	90	41	180	50	4.1	2.5	240	450

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 28...	51	0.4	10	1360	1.9	196	1.4	<0.01
NOV 30...	110	0.6	16	3040	4.1	117	5.7	0.02
DEC 20...	110	0.7	9.1	3280	4.5	82.9	5.6	0.05
FEB 15...	120	0.7	16	3010	4.1	89.3	5.5	0.03
MAR 24...	140	0.7	11	3580	4.9	91.4	4.9	0.00
APR 29...	65	0.4	10	1470	2.0	171	1.8	0.03
MAY 26...	93	0.6	13	2280	3.1	135	3.2	0.03
JUN 28...	41	0.5	12	1250	1.7	152	1.1	0.03
JUL 27...	39	0.5	13	1200	1.6	217	0.82	0.03
AUG 22...	38	0.5	15	1180	1.6	254	0.69	0.05
SEP 06...	31	0.4	13	953	1.3	224	0.87	0.03

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 28...	1530	710
NOV 30...	1430	1400
DEC 20...	1445	1400
FEB 15...	1430	1300
MAR 24...	1430	1500
APR 29...	1330	720
MAY 26...	1430	1200
JUN 28...	1445	710
JUL 27...	1445	700
AUG 22...	1445	690
SEP 06...	1500	560

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, FALL DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
OCT									
28...	1530	53	6.0	607	87	--	--	--	--
NOV									
30...	1430	14	1.0	288	11	--	--	--	--
FEB									
15...	1430	11	0.0	188	5.6	--	--	--	--
MAR									
24...	1430	9.5	4.5	92	2.3	--	--	--	--
APR									
29...	1330	43	11.5	873	101	27	32	52	77
MAY									
26...	1430	22	22.0	445	26	--	--	--	--
JUN									
28...	1445	45	22.0	779	95	--	--	--	--
JUL									
27...	1445	67	20.5	727	132	--	--	--	--
AUG									
22...	1445	80	21.0	585	126	16	24	40	55
SEP									
06...	1500	87	18.0	1090	256	20	27	38	62

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT

LOCATION.--Lat 40°01'48", long 109°45'23", in NW1/4NW1/4SW1/4 sec.14, T.9 S., R.19 E., Uintah County, Hydrologic Unit 14060005, on right bank 120 ft downstream from dike for waterfowl habitat area, 0.8 mi upstream from mouth, and 5.8 mi southwest of Ouray.

DRAINAGE AREA.--298 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Flow regulated by waterfowl habitat area. Diversions above station for irrigation of about 250 acres above and 100 acres below.

AVERAGE DISCHARGE.--8 years, 22.0 ft^3/s, 15,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 450 ft^3/s July 24, 1977 (may have been higher when the dam broke Mar. 29, 1979); no flow July 21-23, Aug. 16, 17, Dec. 25-27, 1976, Jan. 25-27, 1977, July 24-30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 125 ft^3/s Oct. 1, gage height, 3.12 ft; minimum daily, 0.45 ft^3/s Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	46	17	7.0	7.0	90	3.8	52	10	29	62	64
2	108	46	17	7.0	7.0	87	4.4	70	13	29	71	63
3	78	46	15	7.0	7.0	38	5.8	57	27	28	90	64
4	52	46	14	7.0	7.0	24	5.0	28	33	29	82	77
5	44	45	12	7.0	7.0	22	4.6	17	29	31	70	92
6	40	45	12	7.8	7.0	18	4.1	12	31	28	75	100
7	38	46	12	8.0	7.0	15	4.0	7.6	30	21	77	88
8	36	48	13	8.0	7.4	13	4.1	6.5	23	16	72	79
9	35	49	13	8.0	8.0	6.7	4.1	20	9.4	10	67	81
10	36	43	15	8.0	8.0	1.0	4.1	31	4.9	8.0	60	76
11	36	37	15	8.0	8.0	1.4	3.5	29	3.9	14	50	81
12	36	48	15	8.0	8.0	4.0	3.7	35	3.3	27	48	85
13	36	33	15	8.0	8.0	6.7	5.7	33	16	31	78	88
14	34	23	13	8.0	8.0	8.4	14	28	32	21	82	81
15	33	18	12	8.0	8.4	9.3	14	39	32	16	71	67
16	32	16	10	8.0	8.0	8.4	9.7	69	32	13	51	57
17	28	15	9.6	8.0	8.1	6.5	7.0	88	36	13	38	57
18	26	15	8.6	8.0	8.0	5.7	5.9	91	35	16	40	51
19	24	14	8.4	8.0	9.9	5.7	5.0	83	33	22	43	39
20	28	15	8.4	8.0	11	5.5	4.8	89	28	22	50	39
21	38	16	8.5	8.0	4.3	5.3	4.8	94	27	22	66	47
22	45	17	8.5	8.0	.45	4.8	5.0	86	26	26	74	55
23	47	18	8.5	8.0	1.1	4.6	5.0	54	26	29	75	52
24	45	19	8.5	8.0	9.1	4.8	16	39	26	43	67	50
25	43	18	8.5	8.0	22	5.6	43	32	25	40	56	54
26	38	18	7.0	8.0	25	5.9	53	24	28	44	52	74
27	32	18	7.0	8.0	27	6.2	51	15	30	42	51	78
28	32	17	7.0	8.0	32	5.9	39	11	31	35	45	78
29	32	16	7.1	8.0	---	5.1	35	9.3	31	29	39	80
30	34	16	7.1	8.0	---	4.5	36	9.4	29	29	48	73
31	43	---	7.0	8.0	---	3.8	---	8.1	---	46	65	---
TOTAL	1330	867	339.7	242.8	278.75	432.8	405.1	1266.9	740.5	809.0	1915	2070
MEAN	42.9	28.9	11.0	7.83	9.96	14.0	13.5	40.9	24.7	26.1	61.8	69.0
MAX	121	49	17	8.0	32	90	53	94	36	46	90	100
MIN	24	14	7.0	7.0	.45	1.0	3.5	6.5	3.3	8.0	38	39
AC-FT	2640	1720	674	482	553	858	804	2510	1470	1600	3800	4110

CAL YR 1982	TOTAL	8844.2	MEAN	24.2	MAX	133	MIN	2.8	AC-FT	17540
WTR YR 1983	TOTAL	10697.55	MEAN	29.3	MAX	121	MIN	.45	AC-FT	21220

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
28...	1245	31	1970	8.0	7.0	5.5	10.8	652	460
NOV									
30...	1200	16	4090	8.1	1.0	1.5	13.2	632	890
DEC									
20...	1200	8.5	4510	8.1	0.5	0.5	12.4	650	1000
FEB									
15...	1215	8.4	4570	8.1	2.0	0.5	12.2	650	1000
MAR									
24...	1145	4.5	4180	8.2	2.0	6.5	12.5	638	660
APR									
29...	1100	36	2310	8.2	11.0	12.0	10.3	644	490
MAY									
26...	1140	25	2290	8.2	24.5	21.0	8.0	649	420
JUN									
28...	1230	32	2040	8.1	25.5	21.5	7.1	649	420
JUL									
27...	1230	43	2040	8.1	27.0	22.5	6.1	651	440
AUG									
22...	1145	75	2060	8.0	25.0	22.0	7.5	651	460
SEP									
06...	1230	90	1610	8.0	27.5	19.0	7.8	650	410

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
28...	9.3	100	52	300	58	6.2	2.3	250	770
NOV									
30...	18	190	100	670	62	10	3.3	330	1800
DEC									
20...	21	220	120	810	63	11	4.1	400	2200
FEB									
15...	20	220	110	780	63	11	3.1	380	2000
MAR									
24...	13	120	88	770	72	13	4.6	290	1800
APR									
29...	9.7	98	59	360	61	7.3	3.1	230	850
MAY									
26...	8.4	80	54	370	65	8.0	3.8	240	860
JUN									
28...	8.4	91	47	310	61	6.8	3.5	250	830
JUL									
27...	8.8	95	49	300	60	6.4	3.5	240	720
AUG									
22...	9.3	100	52	290	57	6.0	4.2	260	740
SEP									
06...	8.2	90	45	210	52	4.6	3.2	260	520

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 28...	53	0.4	8.8	1430	1.9	122	1.1	<0.01
NOV 30...	83	0.6	13	3060	4.2	134	4.0	0.03
DEC 20...	150	0.7	16	3760	5.1	86.2	4.8	0.05
FEB 15...	170	0.6	15	3530	4.8	79.9	4.9	0.03
MAR 24...	180	0.6	8.0	3140	4.3	37.8	1.5	0.00
APR 29...	76	0.5	6.6	1590	2.2	155	0.68	0.03
MAY 26...	80	0.5	6.7	1600	2.2	108	0.39	0.02
JUN 28...	57	0.5	11	1500	2.0	130	0.3	0.02
JUL 27...	55	0.5	13	1380	1.9	160	0.18	0.00
AUG 22...	57	0.6	16	1420	1.9	287	0.87	0.00
SEP 06...	41	0.4	13	1080	1.5	262	0.37	0.02

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 28...	1245	790
NOV 30...	1200	1500
DEC 20...	1200	1600
FEB 15...	1215	1500
MAR 24...	1145	1400
APR 29...	1100	940
MAY 26...	1140	1000
JUN 28...	1230	920
JUL 27...	1230	870
AUG 22...	1145	900
SEP 06...	1230	670

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
28...	1245	31	5.5	166	14
NOV					
30...	1200	16	1.5	202	8.8
DEC					
20...	1200	8.5	0.5	163	3.7
FEB					
15...	1215	8.4	0.5	141	3.2
MAR					
24...	1145	4.5	6.5	99	1.2
APR					
29...	1100	36	12.0	44	4.3
MAY					
26...	1140	25	21.0	142	9.6
JUN					
28...	1230	32	21.5	83	7.2
JUL					
27...	1230	43	22.5	107	12
AUG					
22...	1145	75	22.0	81	16
SEP					
06...	1230	90	19.0	89	22

09307500 WILLOW CREEK ABOVE DIVERSIONS, NEAR OURAY, UT

LOCATION.--Lat 39°33'59", long 109°35'12", in NE1/4SW1/4SE1/4 sec.29, T.14 S., R.21 E., Uintah County, Uintah and Ouray Indian Reservation, Hydrologic Unit 14060006, on right bank 0.1 mi downstream from Big Canyon and 36 mi southeast of Ouray.

DRAINAGE AREA.--297 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to September 1970, October 1974 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft from topographic map. Prior to Nov. 7, 1952, at site 0.9 mi downstream at different datum. Nov. 7, 1952 to Sept. 30, 1970, at site 0.8 mi downstream at different datum, Oct. 1, 1974 to July 18, 1977, at site 60 ft downstream at different datum, June 5 to Sept. 30, 1982, at present site at different datums.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--27 years (water years 1951-55, 1958-70, 1975-83), 21.4 ft^3/s, 15,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft^3/s July 19, 1977, gage height, 9.55 ft, from rating curve extended above 100 ft^3/s on basis of slope-area measurements of peak flow; minimum, 0.3 ft^3/s Aug. 21-23, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 140 ft^3/s, 266 ft^3/s May 28, gage height, 2.18 ft, minimum daily, 9.8 ft^3/s Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	15	13	15	19	25	65	212	68	42	25
2	15	14	15	14	14	19	22	70	199	70	42	29
3	14	9.8	15	14	14	19	23	76	191	68	41	26
4	13	10	15	14	14	20	22	83	182	62	44	25
5	13	10	14	15	14	20	20	88	183	62	63	21
6	13	15	14	15	14	20	19	93	171	62	58	19
7	13	18	14	16	15	20	17	76	170	61	53	18
8	12	17	15	15	16	23	19	79	158	62	43	29
9	12	17	16	15	16	22	21	85	156	62	40	29
10	13	16	16	15	16	24	24	89	150	65	39	29
11	13	16	16	15	16	26	24	93	145	59	54	29
12	13	16	16	14	16	27	23	97	145	55	37	29
13	13	16	15	14	16	27	21	96	149	55	38	29
14	14	15	15	14	16	27	22	92	136	54	30	29
15	17	14	15	14	16	26	22	105	129	53	67	30
16	17	13	14	15	16	23	22	110	118	52	32	30
17	17	15	13	15	16	22	22	105	110	50	31	30
18	16	16	13	15	16	23	23	105	106	48	29	30
19	17	16	13	15	18	22	24	110	102	49	29	30
20	17	16	14	15	16	22	24	120	99	46	29	30
21	17	16	14	15	15	20	27	123	93	53	27	30
22	17	14	14	15	15	22	30	145	90	53	27	31
23	17	13	14	14	16	24	30	160	87	54	27	32
24	19	13	15	13	17	21	33	180	86	56	27	32
25	18	13	14	13	18	20	43	200	89	50	26	34
26	18	13	13	14	18	23	47	210	81	51	27	34
27	18	13	12	15	18	22	48	234	87	47	26	38
28	14	14	12	15	19	23	51	250	87	47	26	37
29	11	15	12	15	---	22	57	254	76	44	26	36
30	11	16	12	15	---	22	61	236	72	43	26	43
31	12	---	12	15	---	26	---	214	---	43	27	---
TOTAL	461	434.8	437	451	446	696	866	4043	3859	1704	1133	893
MEAN	14.9	14.5	14.1	14.5	15.9	22.5	28.9	130	129	55.0	36.5	29.8
MAX	19	18	16	16	19	27	61	254	212	70	67	43
MIN	11	9.8	12	13	14	19	17	65	72	43	26	18
AC-FT	914	862	867	895	885	1380	1720	8020	7650	3380	2250	1770

CAL YR 1982	TOTAL	7007.0	MEAN	19.2	MAX	156	MIN	7.0	AC-FT	13900
WTR YR 1983	TOTAL	15423.8	MEAN	42.3	MAX	254	MIN	9.8	AC-FT	30590

09307500 WILLOW CREEK ABOVE DIVERSIONS, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.
SEDIMENT DATA: November 1975 to September 1976, November 1978 to September 1979, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
27...	1500	18	495	8.2	4.5	5.5	--	--	348
MAY									
25...	1230	199	592	8.6	27.0	12.5	8.2	613	262
SEP									
08...	1230	29	680	8.0	25.5	17.0	7.7	611	327

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
27...	38	75	39	46	22	1.1	2.2	310	140
MAY									
25...	--	62	26	28	19	.8	1.0	230	100
SEP									
08...	--	70	37	38	20	.9	1.9	268	120

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT									
27...	5.7	0.3	16	510	0.69	24.1	<0.10	0.03	0.09
MAY									
25...	3.6	0.4	15	374	0.51	201	0.48	0.03	0.09
SEP									
08...	5.3	0.2	18	451	0.61	35.3	0.16	0.04	0.12

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT			
27...	1500	70	36
MAY			
25...	1230	40	31
SEP			
08...	1230	40	38

09307500 WILLOW CREEK ABOVE DIVERSIONS, NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
OCT									
27...	1500	18	5.5	438	21	--	--	--	--
JAN									
11...	1500	15	.0	272	11	--	--	--	--
MAR									
08...	1030	21	1.5	771	44	12	19	43	90
MAY									
05...	1145	88	8.5	7510	1780	17	25	51	81
25...	1230	199	12.5	15000	8060	--	--	--	--
JUL									
08...	1030	63	17.0	2140	364	--	--	--	--
AUG									
02...	1330	42	23.5	1250	142	--	--	--	--

09308000 WILLOW CREEK NEAR OURAY, UT

LOCATION.--Lat 39°56'20", long 109°38'52", in NE1/4NW1/4NE1/4 sec.22, T.10 S., R.20 E., Uintah County, Hydrologic Unit 14060006, on left bank 0.3 mi upstream from Black Bridge, 1.6 mi downstream from Hill Creek, and 10 mi south of Ouray.

DRAINAGE AREA.--897 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1947 to September 1955, October 1974 to September 1983 (discontinued). Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah. Annual maximums, water years 1960-68.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,860 ft from topographic map. Prior to October 1974 at different sites and datums.

REMARKS.--Records good except those for winter periods, which are fair. Diversions for irrigation above station.

AVERAGE DISCHARGE.--17 years (water years 1948-55, 1975-83), 26.6 ft^3/s, 19,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 11,000 ft^3/s February 1962, gage height, 17.73 ft, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 743 ft^3/s July 23, gage height, 4.19 ft; minimum daily, 10 ft^3/s on several days during December, Janauary, and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	20	18	10	17	53	36	79	384	104	44	38
2	20	22	17	10	14	71	34	78	365	104	44	37
3	18	21	15	10	13	60	35	71	386	98	82	40
4	16	19	14	10	12	42	34	68	353	89	67	36
5	15	18	14	10	11	43	32	73	336	84	65	34
6	15	20	15	11	10	38	27	80	281	81	55	31
7	15	20	17	13	10	41	28	88	277	78	46	29
8	14	21	17	16	11	35	30	95	252	71	44	28
9	13	21	17	16	13	34	30	99	248	69	40	27
10	12	22	23	14	15	34	31	123	266	72	37	25
11	12	25	24	13	16	35	33	140	264	74	50	25
12	12	23	24	12	16	38	35	163	231	66	133	24
13	12	19	21	12	15	40	36	151	202	61	69	24
14	12	15	16	13	15	55	32	141	204	58	49	23
15	14	14	14	14	20	48	29	137	189	50	60	22
16	13	15	14	17	22	40	30	144	150	45	54	20
17	13	17	14	19	24	37	29	156	141	43	49	20
18	13	24	14	21	27	39	30	147	138	38	45	19
19	13	27	14	22	29	48	32	145	135	37	44	18
20	13	24	15	19	32	35	33	149	135	40	63	18
21	14	20	17	17	33	35	35	157	132	47	45	20
22	13	18	21	16	32	33	36	138	126	46	42	22
23	13	17	25	17	30	36	37	145	123	92	40	28
24	12	13	25	16	30	36	37	168	123	143	40	29
25	14	12	18	14	33	33	42	180	139	76	35	30
26	15	12	14	16	37	32	52	218	132	63	35	29
27	16	12	12	17	42	35	58	274	124	60	33	28
28	21	14	11	18	50	34	57	300	126	58	31	33
29	19	15	10	19	---	34	63	322	113	46	38	33
30	18	18	10	20	---	31	66	354	108	46	36	36
31	18	---	10	19	---	32	---	388	---	43	38	---
TOTAL	461	558	510	471	629	1237	1119	4971	6183	2082	1553	826
MEAN	14.9	18.6	16.5	15.2	22.5	39.9	37.3	160	206	67.2	50.1	27.5
MAX	23	27	25	22	50	71	66	388	386	143	133	40
MIN	12	12	10	10	10	31	27	68	108	37	31	18
AC-FT	914	1110	1010	934	1250	2450	2220	9860	12260	4130	3080	1640

CAL YR 1982	TOTAL	6783.16	MEAN	18.6	MAX	108	MIN	.00	AC-FT	13450
WTR YR 1983	TOTAL	20600	MEAN	56.4	MAX	388	MIN	10	AC-FT	40860

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to September 1978.
WATER TEMPERATURES: October 1976 to September 1978.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. Sediment record computed based on concentrations collected once daily by observer and periodically by U.S.P.S. 69 automatic sediment sampler. Although daily concentrations are shown only for part of the year, daily values are available in district files.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 10,200 micromhos June 22, 1978; minimum recorded, 950 micromhos Feb. 23, 1977.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.0°C June 26, 1977; minimum, 0.0°C many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 82,700 mg/L July 22, 1977; no flow for several days most years.
SEDIMENT LOADS: Maximum daily, 49,400 tons July 20, 1977; 0 tons many days most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
14...	1500	12	1850	8.3	20.0	12.0	9.6	645	542
MAY									
26...	1100	208	890	8.5	27.5	14.5	8.5	640	288
AUG									
25...	1400	40	1060	8.4	31.0	21.0	7.4	643	380

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
14...	110	82	82	250	50	4.8	4.3	430	660
MAY									
26...	--	56	36	66	33	1.7	2.5	255	180
AUG									
25...	--	68	51	110	38	2.5	3.0	315	290

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT									
14...	25	.7	17	1381	1.9	44.0	<.10	.090	.28
MAY									
26...	8.3	.5	14	517	.70	290	.50	.050	.15
AUG									
25...	14	.4	16	742	1.0	80.2	.16	.040	.12

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT							
14...	1500	40	21	1600	<1	<10	5
MAY							
26...	1100	20	8	330	1	<10	11
AUG							
25...	1400	40	13	670	2	<10	7

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
OCT						
14...	30	<1	7	.2	1	17
MAY						
26...	46	2	4	<.1	2	390
AUG						
25...	13	4	3	.2	1	26

09308500 MINNIE MAUD CREEK NEAR MYTON, UT

LOCATION.--Lat 39°47'55", long 110°33'55", in SE1/4SE1/4SW1/4 sec.3, T.12 S., R.12 E., Carbon County, Hydrologic Unit 14060005, on left bank 38.4 mi southwest of Myton.

DRAINAGE AREA.--32.0 mi^2.

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,190 ft by barometer.

REMARKS.--Records poor. No diversion above station.

AVERAGE DISCHARGE.--31 years, 5.52 ft^3/s, 4,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge unknown, occurred Oct. 13, 1975, gage height, 11.67 ft; maximum known discharge, 1,370 ft^3/s Aug. 25, 1961, gage height, 9.40 ft, from rating curve extended above 110 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 10	unknown	156	7.17
May 23	2400	205	7.40
May 31	2330	*593	7.55
July 23	unknown	168	6.54
Sept. 3	1530	200	7.04
Sept. 27	1100	105	6.81

Minimum, 0.85 ft^3/s Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.1	1.8	1.1	1.8	2.7	3.7	28	190	26	12	2.5
2	2.8	2.9	1.7	1.1	1.7	2.7	4.0	37	170	25	11	2.4
3	3.1	2.6	1.5	1.2	1.6	3.1	4.6	44	130	24	10	13
4	3.4	2.5	1.5	1.4	1.6	3.3	5.2	52	110	23	10	4.3
5	3.1	2.5	1.6	1.3	1.7	3.7	4.7	54	90	22	10	4.5
6	2.8	2.4	1.5	1.3	1.9	4.1	4.9	56	84	21	9.5	4.3
7	3.0	2.6	1.4	1.3	2.1	4.4	5.2	72	82	20	9.5	4.4
8	2.9	2.5	1.5	1.4	1.9	3.9	4.7	90	81	20	9.0	4.4
9	3.3	2.6	1.6	1.4	2.1	4.0	5.3	110	82	23	9.0	4.5
10	3.4	2.7	1.7	1.2	2.0	4.3	5.7	88	85	21	8.8	3.9
11	3.8	2.1	1.8	1.1	2.0	4.8	6.0	57	78	19	8.8	3.8
12	3.2	1.8	1.8	1.1	1.9	5.2	6.4	61	72	18	9.2	3.6
13	3.0	1.6	1.6	1.1	1.8	6.0	7.0	65	77	17	8.5	3.4
14	3.4	1.4	1.7	1.1	1.8	7.0	6.8	64	68	17	8.2	3.5
15	2.7	1.3	1.8	1.1	1.9	8.2	6.6	54	60	17	8.2	3.3
16	2.6	1.3	1.8	1.2	1.9	7.4	7.0	53	57	16	7.8	3.1
17	2.4	1.2	1.8	1.7	1.9	6.8	7.4	56	53	17	7.5	2.9
18	2.6	1.3	1.7	1.7	2.0	6.4	8.2	56	51	16	7.3	2.7
19	3.0	1.4	1.5	1.7	2.0	5.5	10	55	49	16	6.9	2.6
20	3.2	1.4	1.6	1.8	2.2	5.0	15	55	45	16	6.2	2.5
21	3.4	1.5	1.4	1.9	2.4	4.6	19	62	42	16	5.7	3.2
22	2.5	1.6	1.5	2.0	2.4	4.4	20	85	40	17	5.3	3.9
23	2.3	1.7	1.6	2.0	2.2	4.6	21	107	39	18	4.8	4.0
24	2.4	1.6	1.8	2.0	2.4	4.1	22	160	38	14	4.5	4.3
25	2.5	1.4	1.8	2.0	2.5	3.9	22	148	36	13	4.2	4.1
26	3.0	1.4	1.7	2.0	2.7	3.7	22	145	41	14	3.8	4.0
27	3.9	1.5	1.5	1.9	2.9	4.0	23	150	30	13	3.6	15
28	3.2	1.5	1.4	1.9	2.8	4.0	25	122	29	12	3.4	5.9
29	3.1	1.6	1.1	2.1	---	3.9	28	92	28	11	3.2	5.2
30	2.9	1.7	.96	2.2	---	3.8	30	97	27	11	2.9	14
31	2.8	---	1.1	1.9	---	3.5	---	90	---	12	2.7	---
TOTAL	92.8	56.7	48.76	48.2	58.1	143.0	360.4	2465	2064	545	221.5	143.2
MEAN	2.99	1.89	1.57	1.55	2.07	4.61	12.0	79.5	68.8	17.6	7.15	4.77
MAX	3.9	3.1	1.8	2.2	2.9	8.2	30	160	190	26	12	15
MIN	2.3	1.2	.96	1.1	1.6	2.7	3.7	28	27	11	2.7	2.4
AC-FT	184	112	97	96	115	284	715	4890	4090	1080	439	284

CAL YR 1982	TOTAL	2943.90	MEAN	8.07	MAX	68	MIN	.26	AC-FT	5840
WTR YR 1983	TOTAL	6246.66	MEAN	17.1	MAX	190	MIN	.96	AC-FT	12390

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW1/4NW1/4NE1/4 sec.25, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft upstream from tunnel portal, 7.3 mi east-northeast of Fairview.

PERIOD OF RECORD.--July 1967 to current year. Seasonal records only. (July to September 1967, gage height only.)

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 8,660 ft from topographic map.

REMARKS.--Records fair. Fairview Tunnel diverts from San Rafael River and Price River drainages in the Colorado River Basin to San Pitch River in the Great Basin. Due to the location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft^3/s June 29, 1983, gage height, 1.32 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38 ft^3/s June 29, gage height, 1.32 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	25	13	7.6
2									---	23	13	6.3
3									---	21	12	6.3
4									---	18	13	6.1
5									---	16	14	5.8
6									---	17	14	5.6
7									---	15	15	5.3
8									---	9.6	15	5.3
9									---	9.6	14	---
10									---	8.3	14	---
11									---	7.6	14	---
12									---	8.3	14	---
13									12	8.8	14	---
14									18	8.1	14	---
15									19	9.8	14	---
16									28	.00	14	---
17									29	.00	14	---
18									29	.00	14	---
19									27	9.1	14	---
20									25	7.3	14	---
21									24	.00	14	---
22									23	.00	14	---
23									22	.00	14	---
24									21	.00	14	---
25									19	.00	13	---
26									18	.00	13	---
27									17	.00	13	---
28									16	.00	13	---
29									26	8.6	13	---
30									30	9.6	13	---
31									---	12	8.3	---
TOTAL									---	251.70	419.3	---
MEAN									---	8.12	13.5	---
MAX									---	25	15	---
MIN									---	.00	8.3	---
AC-FT									---	499	832	---

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW1/4SE1/4SW1/4 sec.6, T.13 S., R.6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft downstream from old Mammoth Dam, 5.5 mi upstream from mouth, and 7 mi west of Scofield.

DRAINAGE AREA.--16.8 mi^2.

PERIOD OF RECORD.--October 1930 to September 1931, May 1940 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,400 ft from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records fair. Transmountain diversion above station for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir on Gooseberry Creek 5 mi above station, capacity about 1,900 acre-ft is used to regulate these diversions. Flow also affected by small reservoir 1 mi above station.

AVERAGE DISCHARGE.--44 years, 18.8 ft^3/s, 13,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414 ft^3/s May 30, 1952; maximum gage height, 2.98 ft June 6, 1957; no flow Nov. 11, 1964, Sept. 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 333 ft^3/s June 10; minimum daily, 5.0 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	11	6.2	6.2	7.2	9.6	15	264	124	20	10
2	12	14	10	6.6	5.4	8.0	8.6	15	278	114	20	11
3	12	13	9.2	7.0	5.4	8.0	9.4	15	252	106	18	10
4	13	13	9.4	7.4	5.8	7.6	8.4	16	247	98	16	15
5	14	12	9.4	7.8	6.2	7.6	7.8	21	242	90	16	12
6	12	12	9.4	7.8	5.8	7.2	7.4	23	256	83	15	11
7	11	12	9.4	7.4	6.4	7.2	7.4	21	267	72	15	10
8	11	13	9.2	7.4	6.8	7.2	8.0	27	276	67	15	10
9	11	14	8.9	7.4	7.6	7.2	8.8	38	322	66	14	9.7
10	10	13	8.9	7.4	6.8	7.2	9.6	41	333	60	13	9.4
11	9.9	13	8.9	6.8	6.8	7.3	9.8	44	283	52	16	9.4
12	9.5	12	8.9	6.4	6.8	8.1	9.2	39	245	46	16	9.0
13	10	12	9.4	6.4	7.2	8.1	8.8	35	240	38	15	9.0
14	11	11	9.7	6.8	7.8	8.9	8.4	34	257	35	14	9.0
15	12	11	9.0	6.8	7.4	8.5	8.0	33	304	31	14	8.8
16	13	10	8.8	6.8	7.2	7.6	8.0	34	305	30	16	8.4
17	14	11	8.5	6.4	6.4	7.8	8.4	33	316	28	14	8.8
18	14	11	7.8	6.4	6.8	7.4	9.0	31	301	26	14	8.0
19	13	12	7.2	6.4	6.8	7.7	9.6	31	262	25	14	8.0
20	12	12	8.1	6.8	6.8	7.2	9.6	30	236	25	17	8.0
21	11	12	8.1	6.8	6.8	8.0	10	38	217	25	14	8.0
22	11	11	8.4	6.8	6.8	9.2	11	55	202	27	13	8.8
23	12	10	7.6	6.8	6.8	8.2	13	75	190	33	12	9.4
24	13	9.4	6.6	6.8	7.2	7.8	16	98	178	28	11	10
25	15	9.3	5.8	7.2	7.6	8.2	19	120	167	30	11	9.8
26	23	9.8	5.4	7.6	7.2	8.6	17	149	154	25	11	9.4
27	24	9.4	6.6	7.2	6.8	9.0	15	183	148	23	10	14
28	20	9.4	6.0	7.2	6.8	8.6	15	218	136	22	10	13
29	17	10	5.6	7.2	---	8.2	16	226	149	19	10	11
30	16	11	5.0	6.6	---	8.8	16	254	136	18	10	14
31	18	---	5.8	6.6	---	10	---	293	---	19	10	---
TOTAL	418.4	348.3	252.0	215.2	188.4	247.6	321.8	2285	7163	1485	434	301.9
MEAN	13.5	11.6	8.13	6.94	6.73	7.99	10.7	73.7	239	47.9	14.0	10.1
MAX	24	16	11	7.8	7.8	10	19	293	333	124	20	15
MIN	9.5	9.3	5.0	6.2	5.4	7.2	7.4	15	136	18	10	8.0
AC-FT	830	691	500	427	374	491	638	4530	14210	2950	861	599

CAL YR 1982	TOTAL	9580.1	MEAN	26.2	MAX	228	MIN	1.5	AC-FT	19000
WTR YR 1983	TOTAL	13660.6	MEAN	37.4	MAX	333	MIN	5.0	AC-FT	27100

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT

LOCATION.--Lat 39°46'28", long 111°11'25", in NW1/4NE1/4SW1/4 sec.18, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.8 mi upstream from bridge, 1.2 mi downstream from French Creek, and 4.5 mi north of Scofield.

DRAINAGE AREA.--60.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1931, April to September 1932, October 1938 to current year. Published as Price River above Scofield Reservoir, near Scofield, October 1938 to September 1967.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mi downstream at different datums.

REMARKS.--Records good except those for winter period, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin.

AVERAGE DISCHARGE.--45 years (1938-83), 48.6 ft^3/s, 35,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft^3/s May 30, 1983, gage height, 5.91 ft; minimum recorded, 0.6 ft^3/s Oct. 31, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 270 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	2100	*1,310	5.91
June 11	2300	1,230	5.73

Minimum daily, 11 ft^3/s Dec. 30, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	30	25	14	14	17	19	68	1100	227	52	28
2	27	28	22	14	11	19	19	66	1110	208	52	29
3	26	33	20	15	12	19	18	67	1050	195	45	28
4	26	36	21	16	13	18	18	73	986	178	42	44
5	26	36	21	17	14	18	17	93	931	165	42	32
6	26	33	20	17	13	17	17	99	947	153	40	30
7	26	33	20	17	15	17	19	99	931	138	39	27
8	26	34	20	16	16	18	20	132	954	133	39	27
9	25	37	19	17	18	17	23	169	950	131	38	26
10	24	33	19	17	16	19	25	173	974	121	37	25
11	24	31	19	17	16	21	22	171	1040	106	46	25
12	23	28	18	15	16	22	21	157	1040	100	45	23
13	24	28	19	15	17	23	20	143	858	88	40	23
14	24	25	20	16	18	22	19	139	720	83	37	23
15	24	26	20	16	16	20	19	134	686	78	39	23
16	25	28	19	16	17	19	20	132	713	75	44	23
17	25	31	19	16	13	21	21	126	765	70	39	23
18	25	32	19	15	16	20	24	124	782	66	38	22
19	24	32	17	14	17	19	28	122	772	64	38	22
20	22	29	18	16	16	18	34	122	679	62	45	22
21	22	30	19	16	16	17	38	155	595	61	37	22
22	21	27	21	16	16	19	40	203	524	64	34	23
23	21	21	20	15	16	19	50	268	471	70	32	26
24	22	23	18	16	17	18	71	360	429	65	29	28
25	26	24	15	18	18	19	79	500	396	69	29	27
26	39	22	12	17	17	21	74	651	370	61	29	26
27	42	21	13	18	16	19	68	764	334	56	27	34
28	34	22	13	17	16	18	68	907	302	53	27	34
29	30	24	12	15	---	18	73	943	280	49	27	29
30	31	27	11	16	---	20	71	1060	252	48	28	35
31	35	---	13	16	---	20	---	1220	---	50	27	---
TOTAL	828	864	562	496	436	592	1055	9440	21941	3087	1163	809
MEAN	26.7	28.8	18.1	16.0	15.6	19.1	35.2	305	731	99.6	37.5	27.0
MAX	42	37	25	18	18	23	79	1220	1110	227	52	44
MIN	21	21	11	14	11	17	17	66	252	48	27	22
AC-FT	1640	1710	1110	984	865	1170	2090	18720	43520	6120	2310	1600

CAL YR 1982	TOTAL	24047.0	MEAN	65.9	MAX	615	MIN	6.6	AC-FT	47700
WTR YR 1983	TOTAL	41273	MEAN	113	MAX	1220	MIN	11	AC-FT	81860

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March to August 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR												
02...	1030	19	400	--	--	0.0	--	--	--	--	--	--
APR												
19...	0950	25	395	--	4.0	1.5	--	--	--	--	--	--
MAY												
25...	1040	417	410	--	17.5	4.5	--	--	--	--	--	--
JUN												
29...	0815	295	640	--	11.5	9.0	--	--	0.95	67	11	2.7
AUG												
30...	1345	36	360	7.9	--	13.0	7.9	580	--	52	12	3.1
30...	1425	37	390	8.0	--	--	--	--	--	49	11	2.9

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
MAR											
02...	--	220	14	--	--	--	207	0.28	10.8	--	0.21
APR											
19...	--	130	16	--	--	--	222	0.3	15.0	--	0.18
MAY											
25...	--	170	7.8	--	--	--	197	0.27	222	--	0.59
JUN											
29...	0.7	--	9.3	3.1	0.1	4.0	226	0.31	180	--	0.35
AUG											
30...	--	--	16	4.1	--	--	195	0.27	19.0	<0.1	<0.1
30...	--	--	15	3.5	--	--	190	0.26	19.0	<0.1	<0.1

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
MAR											
02...	--	0.07	0.09	0.5	--	--	0.02	0.06	0.01	0.02	0.06
APR											
19...	--	<0.06	0.08	0.5	--	--	0.00	0.03	0.00	0.03	0.09
MAY											
25...	--	<0.00	--	1.30	--	--	0.23	0.71	0.05	0.03	0.09
JUN											
29...	<0.06	--	--	0.7	0.1	0.6	0.08	0.25	0.02	--	--
AUG											
30...	--	--	--	0.7	0.4	0.3	0.00	0.03	0.00	--	--
30...	--	--	--	1.60	1.1	0.5	0.65	2.0	0.00	--	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
MAR									
02...	1030	--	190	170	20	20	--	--	--
APR									
19...	0950	--	210	190	20	30	--	--	--
MAY									
25...	1040	--	2700	2600	100	150	--	--	--
JUN									
29...	0815	20.00	1100	1100	10	70	50	24	--
AUG									
30...	1345	--	500	480	20	50	30	25	<0.1
30...	1425	--	11000	11000	40	400	390	14	0.1

09310575 BOARDINGHOUSE CREEK AT MOUTH, NEAR SCOFIELD, UT

LOCATION.--Lat 39°39'00", long 111°09'18", in SE1/4NE1/4NE1/4 sec.32, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 800 ft above mouth and 5.2 mi south of Scofield.

DRAINAGE AREA.--2.04 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1982 to September 1983.

GAGE.--Water-stage recorder. Altitude of gage is 8,280 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 236 ft^3/s about May 30, gage height, 5.51 ft from slope-area measurement of peak flow; minimum daily 0.66 ft^3/s several days during March and April.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	.91	.75	.71	.71	.72	1.5	32	7.0	2.2	1.3
2		---	.91	.75	.71	.71	.72	1.6	30	6.7	2.4	1.5
3		---	.85	.75	.71	.75	.72	1.6	28	6.3	2.2	1.7
4		---	.85	.75	.71	.80	.72	1.7	26	6.0	2.0	1.5
5		---	.80	.75	.71	.80	.66	2.1	23	5.6	2.1	1.2
6		---	.80	.71	.71	.80	.66	2.4	22	5.6	1.9	1.4
7		---	.80	.71	.71	.80	.66	2.7	23	5.4	1.9	1.4
8		---	.85	.71	.71	.80	.72	2.6	22	5.0	1.9	1.5
9		---	.85	.71	.71	.80	.72	3.2	21	4.9	1.8	1.4
10		---	.85	.71	.71	.75	.78	3.7	21	4.9	1.8	1.4
11		---	.85	.71	.71	.75	.72	3.2	22	5.1	2.0	1.3
12		---	.85	.71	.71	.75	.66	3.0	19	4.5	1.9	1.3
13		---	.85	.71	.71	.75	.66	2.9	17	4.2	1.8	1.4
14		---	.85	.71	.71	.80	.66	2.9	15	3.9	1.7	1.2
15		---	.85	.71	.71	.80	.66	2.8	13	3.8	1.8	1.2
16		---	.85	.71	.71	.80	.66	2.8	14	3.6	1.9	1.3
17		---	.85	.71	.71	.72	.78	2.8	14	3.7	1.8	1.3
18		.91	.80	.71	.71	.72	.84	2.9	16	3.3	1.8	1.2
19		.91	.80	.71	.71	.72	.84	3.0	14	3.0	1.6	1.3
20		.91	.80	.71	.71	.72	.90	3.2	13	2.8	1.5	1.2
21		.91	.80	.71	.71	.72	.90	3.7	12	2.6	1.5	1.3
22		.96	.80	.71	.71	.72	.97	4.6	11	2.7	1.6	1.4
23		.96	.80	.71	.71	.72	1.1	6.1	11	2.9	1.6	1.5
24		.96	.80	.71	.71	.78	1.4	8.0	10	3.1	1.5	1.4
25		.91	.80	.71	.71	.72	1.6	14	9.8	2.7	1.4	1.3
26		.91	.80	.71	.71	.66	1.4	21	9.1	2.7	1.5	1.5
27		.91	.80	.71	.71	.66	1.4	30	8.6	2.5	1.4	1.9
28		.91	.80	.71	.71	.66	1.4	34	8.3	2.4	1.4	1.5
29		.96	.80	.71	---	.66	1.5	37	7.9	2.3	1.5	1.6
30		.96	.80	.71	---	.72	1.5	39	7.5	2.2	1.4	1.7
31		---	.75	.71	---	.84	---	35	---	2.1	1.5	---
TOTAL		---	25.57	22.21	19.88	23.11	27.63	285.0	500.2	123.5	54.3	42.1
MEAN		---	.82	.72	.71	.75	.92	9.19	16.7	3.98	1.75	1.40
MAX		---	.91	.75	.71	.84	1.6	39	32	7.0	2.4	1.9
MIN		---	.75	.71	.71	.66	.66	1.5	7.5	2.1	1.4	1.2
AC-FT		---	51	44	39	46	55	565	992	245	108	84

09310575 BOARDINGHOUSE CANYON AT MOUTH, NEAR SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December to September, 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
DEC												
09...	1230	0.84	495	--	--	4.5	--	--	--	--	--	--
FEB												
02...	1435	0.69	510	--	--	2.0	--	--	--	--	--	--
15...	0930	0.69	510	8.2	0.5	2.0	9.9	558	--	--	--	--
MAR												
02...	1555	0.71	470	--	--	2.0	--	--	--	--	--	--
APR												
18...	1805	0.84	490	--	2.0	4.0	--	--	--	--	--	--
MAY												
04...	0925	1.6	530	--	5.0	4.5	--	--	--	--	--	--
JUN												
07...	1600	23	235	--	--	8.0	--	--	--	<0.1	--	--
10...	1245	21	270	8.3	21.5	6.0	8.5	560	1.8	--	42	9.4
JUL												
07...	1045	E7.0	630	--	--	13.0	--	--	0.78	--	56	15
19...	1500	E2.2	480	8.6	--	13.0	8.2	567	--	--	--	--
AUG												
02...	1550	E2.0	465	8.0	--	13.5	9.0	570	0.83	--	--	--
31...	1300	E1.0	495	8.4	24.0	10.5	8.4	562	--	--	68	22
SEP												
28...	1450	E1.2	510	8.5	13.0	7.0	9.4	568	0.52	--	75	23

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
DEC												
09...	--	--	240	30	--	--	--	262	0.36	0.59	--	0.58
FEB												
02...	--	--	250	30	--	--	--	303	0.41	0.56	--	0.15
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	--	--	220	30	--	--	--	232	0.32	0.44	0.2	0.15
APR												
18...	--	--	190	36	--	--	--	295	0.4	0.67	--	0.22
MAY												
04...	--	--	250	45	--	--	--	312	0.42	1.3	--	0.49
JUN												
07...	--	--	120	15	--	--	--	155	0.21	9.6	--	--
10...	2.4	1.1	--	16	3.1	0.1	5.3	163	0.22	9.2	--	0.98
JUL												
07...	2.8	--	--	26	3.3	--	--	223	0.3	4.2	0.3	0.28
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	0.00	0.1	0.13
31...	3.4	1.9	--	33	4.6	0.2	5.9	264	0.36	0.71	--	<0.1
SEP												
28...	3.4	--	--	32	4.3	--	--	283	0.38	0.92	0.1	0.12

E Estimate

09310575 BOARDINGHOUSE CANYON AT MOUTH, NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC											
09...	--	0.06	0.08	0.4	--	--	0.04	0.12	0.05	<0.01	0.03
FEB											
02...	--	0.07	0.09	0.3	--	--	0.02	0.06	0.01	<0.01	0.03
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	--	<0.06	0.08	0.3	--	--	0.04	0.12	0.01	0.02	0.06
APR											
18...	--	<0.06	0.08	0.3	--	--	0.04	0.12	0.00	0.04	0.12
MAY											
04...	--	<0.06	0.08	0.5	--	--	0.05	0.15	0.04	0.00	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
10...	0.08	--	--	2.10	1.3	0.8	0.70	2.1	0.05	--	--
JUL											
07...	--	--	--	0.5	0.00	0.5	0.64	2.0	0.02	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	0.5	0.00	0.7	0.05	0.15	0.00	--	--
31...	0.04	--	--	0.5	0.00	0.5	0.00	--	0.00	--	--
SEP											
28...	--	--	--	0.6	0.2	0.4	0.03	0.09	0.03	--	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)
MAR										
02...	1555	--	--	--	<1	100	50.00	47.00	--	--
APR										
18...	1805	--	--	--	--	--	--	--	--	--
MAY										
04...	0925	--	--	--	--	--	--	--	--	--
JUN										
10...	1245	--	1	0.00	1	--	--	--	<10.00	<0.50
JUL										
07...	1045	--	--	--	--	--	--	--	--	--
AUG										
02...	1550	200	2	1	1	--	--	--	<10.00	0.50
31...	1300	--	--	--	--	--	--	--	--	--
SEP										
28...	1450	--	--	--	--	--	--	--	--	--

DATE	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
MAR										
02...	--	--	<1	--	--	--	--	--	--	--
APR										
18...	--	<1	<1	<1	<10	<10	--	<10	6.00	<1
MAY										
04...	--	<1	<1	<1	<10	10	--	<10	4.00	<1
JUN										
10...	30.00	<1	<1	20	<10	20	20	1	20	<1
JUL										
07...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	<1	<1	<10	<10	10	10	3	<1.00	<1
31...	20.00	--	--	--	--	--	--	--	--	--
SEP										
28...	--	--	--	--	--	--	--	--	--	--

09310575 BOARDINGHOUSE CANYON AT MOUTH, NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
18...	0.2	--	--	--	--	--	--	10	0.00	10
MAY										
04...	0.3	--	--	--	--	--	--	10	0.00	10
JUN										
10...	0.1	<0.1	20	20	1	1	<1	70	70	5.00
JUL										
07...	<0.1	--	--	--	--	--	--	--	--	--
AUG										
02...	0.2	<0.1	5.00	2.00	3	1	<1	40	20	20
31...	--	--	--	--	--	--	--	--	--	--
SEP										
28...	<0.1	--	--	--	--	--	--	--	--	--

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOV-ERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
DEC							
09...	1230	240	230	10	20	--	--
FEB							
02...	1435	160	150	10	20	--	--
MAR							
02...	1555	130	--	<3.00	20	--	--
APR							
18...	1805	310	310	4.00	20	--	--
MAY							
04...	0925	720	710	7.00	40	--	--
JUN							
07...	1600	11000	11000	30	450	--	--
10...	1245	13000	13000	40	500	490	8
JUL							
07...	1045	1300	1300	20	80	60	20
AUG							
31...	1300	220	220	5.00	30	9	21
SEP							
28...	1450	310	310	5.00	40	20	19

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
FEB												
15...	0930	4	1.00	6.00	<10	30	3600	10	330	0.02	<1	30

09310575 BOARDINGHOUSE CANYON AT MOUTH, NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)
FEB 15...	0930	--	--	6
JUN 10...	1245	5.2	3.8	--
JUL 19...	1500	--	--	10
AUG 31...	1300	1.8	0.2	4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 10...	1245	21	6.0	52	1750	99
AUG 31...	1300	1.0	10.5	50	28	0.08

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	COAL IN BOTTOM MATE-RIAL (GM/KG)
FEB 15...	0930	0.69	2.0	8.90

09310600 ECCLES CANYON NEAR SCOFIELD, UT

LOCATION.--Lat 39°41'07", long 111°09'22", in NW1/4SW1/4SE1/4 sec.17, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank about 0.4 mi upstream from State Highway 96, and 2.9 mi south of Scofield.

DRAINAGE AREA.--5.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,980 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 62 ft^3/s May 30, 1983; minimum, 0.62 ft^3/s Jan. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 62 ft^3/s May 30; minimum daily, 1.1 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	2.1	1.8	1.4	1.7	1.8	2.8	3.9	54	13	5.0	3.8
2	3.0	1.9	1.8	1.6	1.3	1.8	2.2	3.5	56	12	4.6	3.0
3	2.6	2.2	1.6	1.9	1.4	1.8	1.9	3.9	52	12	4.2	3.2
4	2.4	2.9	1.5	2.3	1.6	1.6	1.8	4.5	49	11	3.8	4.2
5	2.8	2.6	1.8	2.7	1.7	1.8	1.7	5.5	47	10	4.2	3.2
6	2.3	2.3	1.8	2.5	1.9	1.8	1.8	5.2	46	10	3.8	2.9
7	2.1	2.1	1.5	2.5	1.9	1.6	1.9	5.0	45	9.2	4.0	2.9
8	2.1	1.9	1.8	2.3	2.2	1.8	2.3	6.7	44	8.8	4.2	3.4
9	1.9	1.8	1.8	2.1	1.9	2.0	2.5	7.4	44	8.6	4.0	3.2
10	1.9	1.8	1.8	1.8	1.7	2.0	2.7	7.8	45	9.2	4.2	3.2
11	1.9	1.8	1.7	1.5	1.7	2.2	2.5	6.4	49	8.2	4.5	2.9
12	1.9	1.6	1.5	1.5	1.9	2.2	2.3	6.1	42	7.6	4.0	2.9
13	1.9	1.5	1.7	1.7	2.0	2.2	2.0	5.2	34	7.2	3.8	3.4
14	1.9	1.3	1.8	1.9	2.2	2.0	2.0	5.2	29	6.9	3.4	2.7
15	2.1	1.5	1.8	2.1	1.8	2.0	2.2	5.2	26	6.9	3.8	2.5
16	2.3	1.7	1.8	2.3	1.6	2.2	2.5	5.0	27	6.9	4.2	2.7
17	2.3	1.9	1.8	2.3	1.8	2.2	2.7	5.0	28	6.1	4.2	2.7
18	2.1	2.1	1.8	2.1	1.9	2.1	2.9	5.5	30	5.4	3.8	2.5
19	1.7	1.9	1.6	1.9	1.9	1.9	3.2	5.0	27	4.9	3.6	2.4
20	1.9	1.7	1.8	2.1	1.5	1.7	2.7	5.2	25	4.6	3.4	2.5
21	1.8	1.7	2.0	1.9	1.7	1.9	3.3	6.4	23	4.6	3.6	2.9
22	1.7	1.7	1.8	1.9	1.7	2.1	3.3	7.8	21	5.0	3.8	3.4
23	1.7	1.2	1.8	2.1	1.7	2.3	4.3	12	20	6.4	3.6	3.8
24	1.9	1.5	1.8	2.1	1.8	2.1	4.8	20	19	5.2	3.4	3.2
25	2.2	1.7	1.6	2.3	1.8	2.3	4.3	37	18	5.6	3.2	2.5
26	2.6	1.5	1.3	2.3	1.8	2.5	4.1	43	17	5.2	3.8	3.0
27	3.1	1.4	1.3	2.3	1.8	2.7	4.1	49	16	4.9	3.4	4.2
28	2.6	1.7	1.4	2.1	1.6	2.5	4.1	52	15	4.6	3.4	3.4
29	2.3	2.1	1.3	2.1	---	2.4	4.3	56	14	4.4	4.0	3.6
30	2.1	2.0	1.1	2.1	---	2.7	4.1	62	13	4.3	3.6	4.0
31	2.3	---	1.3	1.9	---	3.2	---	56	---	4.6	3.8	---
TOTAL	69.4	55.1	51.2	63.6	49.5	65.4	87.3	508.4	975	223.3	120.3	94.2
MEAN	2.24	1.84	1.65	2.05	1.77	2.11	2.91	16.4	32.5	7.20	3.88	3.14
MAX	4.0	2.9	2.0	2.7	2.2	3.2	4.8	62	56	13	5.0	4.2
MIN	1.7	1.2	1.1	1.4	1.3	1.6	1.7	3.5	13	4.3	3.2	2.4
AC-FT	138	109	102	126	98	130	173	1010	1930	443	239	187

CAL YR 1982	TOTAL	1735.90	MEAN	4.76	MAX	35	MIN	.78	AC-FT	3440
WTR YR 1983	TOTAL	2362.7	MEAN	6.47	MAX	62	MIN	1.1	AC-FT	4690

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.
SEDIMENT DATA: December 1979 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)
DEC										
09...	1350	E1.5	--	--	--	2.5	--	--	--	--
15...	1040	1.7	520	8.2	0.0	0.0	--	--	0.67	320
FEB										
02...	1225	2.4	600	--	--	1.0	--	--	--	--
15...	1130	1.8	580	8.3	0.0	1.5	9.1	562	--	--
MAR										
02...	1430	1.9	610	--	--	3.5	--	--	--	0.04
AFR										
19...	1345	3.5	580	--	6.0	5.0	--	--	--	--
MAY										
04...	1255	3.8	600	--	7.5	6.0	--	--	--	--
JUN										
08...	0930	43	--	--	--	4.0	--	--	--	--
10...	1530	46	305	8.4	19.5	8.0	8.2	562	2.3	160
JUL										
07...	0900	9.6	450	8.2	--	12.5	--	--	0.95	250
19...	1330	5.2	550	8.4	--	14.0	7.8	575	--	--
AUG										
02...	1515	3.0	405	7.4	--	14.0	8.0	575	0.95	--
31...	1500	3.4	560	8.1	18.0	11.5	7.9	567	0.56	290
SEP										
28...	1355	3.0	530	8.5	14.0	7.0	9.3	568	0.83	310

DATE	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
DEC										
09...	--	--	--	--	--	--	--	180	55	--
15...	--	80	28	6.4	4	0.2	1.3	--	54	9.8
FEB										
02...	--	--	--	--	--	--	--	260	53	--
15...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	250	51	--
APR										
19...	--	--	--	--	--	--	--	210	51	--
MAY										
04...	--	--	--	--	--	--	--	230	48	--
JUN										
08...	<0.1	--	--	--	--	--	--	150	17	--
10...	--	48	9.7	2.7	4	0.1	1.3	--	22	4.1
JUL										
07...	--	68	19	3.9	3	0.1	--	--	35	5.8
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
31...	--	72	27	5.8	4	0.2	3.1	--	67	10
SEP										
28...	--	81	27	6.0	4	0.2	--	--	60	11

E Estimate

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
DEC										
09...	--	--	533	0.72	2.2	--	77	--	0.08	0.1
15...	0.2	7.3	243	0.33	1.1	--	0.17	<0.06	--	--
FEB										
02...	--	--	372	0.51	2.4	--	0.21	--	<0.06	0.08
15...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	351	0.48	1.8	0.2	0.24	--	<0.06	0.08
APR										
19...	--	--	331	0.45	3.1	--	0.52	--	<0.06	0.08
MAY										
04...	--	--	342	0.47	3.5	--	0.64	--	<0.06	0.08
JUN										
08...	--	--	194	0.26	22.5	--	--	--	--	--
10...	0.1	5.6	192	0.26	23.8	--	1.2	0.06	--	--
JUL										
07...	--	--	282	0.38	7.3	0.5	0.55	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	0.00	0.3	0.25	--	--	--
31...	0.2	7.0	317	0.43	2.9	--	0.16	0.03	--	--
SEP										
28...	--	--	338	0.46	2.7	0.2	0.23	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
DEC										
09...	0.6	--	--	0.6	2.7	0.03	0.09	0.03	<0.01	0.03
15...	0.6	0.1	0.5	0.6	2.7	0.05	0.15	0.02	--	--
FEB										
02...	0.8	--	--	0.8	3.5	0.08	0.25	0.01	0.01	0.03
15...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	0.4	--	--	0.6	2.7	0.06	0.18	<0.01	0.01	0.03
APR										
19...	4.10	--	--	4.1	18	0.22	0.67	0.05	0.06	0.18
MAY										
04...	1.00	--	--	1.0	4.4	0.59	1.8	0.06	0.00	--
JUN										
08...	--	--	--	--	--	--	--	--	--	--
10...	6.10	5.0	1.1	6.1	27	0.50	1.5	0.06	--	--
JUL										
07...	0.5	0.1	0.4	1.0	4.4	0.08	0.25	0.02	--	--
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	0.7	0.00	0.7	1.0	4.4	0.12	0.37	0.00	--	--
31...	0.4	0.00	0.4	0.4	1.8	0.00	--	0.00	--	--
SEP										
28...	0.9	0.3	0.6	1.1	4.9	0.28	0.86	0.00	--	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)
DEC										
15...	1040	--	<1	--	<1	100	40	58	<10	<1
MAR										
02...	1430	--	--	--	<1	100	50	55	--	--
APR										
19...	1345	--	--	--	--	--	--	--	--	--
MAY										
04...	1255	--	--	--	--	--	--	--	--	--
JUN										
10...	1530	--	1	0	1	--	--	--	<10	<1
JUL										
07...	0900	--	--	--	--	--	--	--	--	--
AUG										
02...	1515	480	1	0	1	--	--	--	<10	2
31...	1500	--	--	--	--	--	--	--	--	--
SEP										
28...	1355	--	--	--	--	--	--	--	--	--

DATE	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
DEC										
15...	40	<1	<1	<10	<10	1	--	<1	1	0
MAR										
02...	--	--	<1	--	--	--	--	--	--	--
APR										
19...	--	<1	<1	25	<10	40	--	<10	27	26
MAY										
04...	--	<1	<1	14	<10	10	--	<10	13	--
JUN										
10...	30	1	<1	20	<10	76	75	1	37	35
JUL										
07...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	<1	<1	<10	<10	10	9	1	<1	--
31...	40	--	--	--	--	--	--	--	--	--
SEP										
28...	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)
DEC									
15...	1	10	0	14	<.1	<.1	2	1	1
MAR									
02...	--	--	--	--	--	--	--	--	--
APR									
19...	1	--	--	--	.3	--	--	--	--
MAY									
04...	<1	--	--	--	.2	--	--	--	--
JUN									
10...	2	--	--	--	.1	<.1	40	39	1
JUL									
07...	--	--	--	--	.1	--	--	--	--
AUG									
02...	1	--	--	--	<.1	<.1	5	--	<1
31...	--	--	--	--	--	--	--	--	--
SEP									
28...	--	--	--	--	.1	--	--	--	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)	STRONTIUM, SUSPENDED RECOV. (UG/L AS SR)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
DEC 15...	<1	--	<1	160	0	190	70	40	28
MAR 02...	--	--	--	--	--	--	--	--	--
APR 19...	--	--	--	--	--	--	160	130	28
MAY 04...	--	--	--	--	--	--	70	50	17
JUN 10...	1	0	2	--	--	--	330	320	7
JUL 07...	--	--	--	--	--	--	--	--	--
AUG 02...	1	0	1	--	--	--	40	30	13
31...	--	--	--	--	--	--	--	--	--
SEP 28...	--	--	--	--	--	--	--	--	--

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
FEB 15...	1130	3	1	4	<10	3	3400	10	240	.03	<1	27

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)
DEC 09...	1350	440	390	50	--	120	--	--	--
15...	1040	480	--	<3	--	120	30	87	--
FEB 02...	1225	800	790	10	--	130	--	--	--
15...	1130	--	--	--	3400	--	--	--	240
MAR 02...	1430	1600	--	<3	--	170	--	--	--
APR 19...	1345	28000	28000	68	--	860	--	--	--
MAY 04...	1255	9500	9500	16	--	320	--	--	--
JUN 08...	0930	5900	5900	30	--	200	--	--	--
10...	1530	11000	11000	25	--	420	400	16	--
JUL 07...	0900	750	740	15	--	90	30	63	--
AUG 31...	1500	650	640	11	--	110	20	87	--
SEP 28...	1355	4700	4700	7	--	230	140	90	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)
DEC					
15...	1040	1.9	.4	<.01	6
JUN					
10...	1530	4.5	3.5	--	--
JUL					
19...	1330	--	--	--	8
AUG					
31...	1500	1.7	.3	--	4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
08...	1300	1.9	--	63	273	1.4
DEC						
09...	1445	*1.8	--	--	189	0.92
JAN						
03...	1710	*1.9	--	--	154	0.79
08...	1345	*2.3	--	--	48	0.3
11...	1020	*1.5	--	--	49	0.2
18...	1400	*2.1	--	--	85	0.48
24...	1715	*2.1	--	--	66	0.37
31...	1800	*1.9	--	--	94	0.48
FEB						
14...	1530	*2.2	--	--	1040	6.2
21...	1500	*1.7	--	--	236	1.1
MAR						
01...	1735	*1.8	--	--	23300	113
07...	1700	*1.6	--	--	1540	6.7
15...	0850	*2.0	--	--	454	2.5
21...	1915	*2.4	--	--	615	4.0
28...	1715	*2.5	--	--	12800	86
APR						
05...	1830	*1.7	--	--	256	1.2
11...	1815	*2.5	--	--	749	5.1
18...	1230	*2.9	--	--	475	3.7
25...	1315	*4.3	--	--	2190	25
MAY						
02...	2025	*3.5	--	--	1700	16
09...	1800	*7.4	--	--	3200	64
16...	1945	*5.0	--	--	673	9.1
23...	1750	*12	--	--	10400	337
29...	2045	*56	--	--	13700	2071
30...	1620	*62	--	--	45100	7550
JUN						
04...	1910	*49	--	--	3170	419
07...	2115	*45	--	--	2050	249
10...	1530	46	8.0	70	1080	134
15...	2045	*26	--	--	306	21
30...	1915	*13	--	--	242	8.5
JUL						
04...	2020	*11	--	--	134	4.0
06...	1620	*10	--	--	105	2.8
AUG						
31...	1500	3.4	11.5	74	61	0.56
SEP						
05...	1920	*3.2	--	--	78	0.67
09...	2012	*3.2	--	--	246	2.1
12...	1150	*2.9	--	--	27	0.21
20...	1620	*2.5	--	--	155	1.0
26...	1820	*3.0	--	--	143	1.2

* DAILY MEAN

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT

LOCATION.--Lat 39°43'18", long 111°09'38", in SW1/4NE1/4 sec.5, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.3 mi upstream from mouth, 0.1 mi below Winter Quarters Canyon, 0.2 mi upstream from Scofield.

DRAINAGE AREA.--29.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,720 ft from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--5 years, 15.7 ft^3/s, 11,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 291 ft^3/s May 30, 1983; minimum, 1.4 ft^3/s Sept. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 291 ft^3/s May 30; minimum, 1.6 ft^3/s Feb. 2, result of a discharge measurement.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	9.2	5.6	4.4	4.6	7.8	9.4	18	221	53	20	13
2	12	8.4	5.2	4.8	3.4	8.6	8.0	17	217	50	17	14
3	12	11	4.7	5.8	4.4	8.0	7.4	19	202	48	17	14
4	12	13	4.2	6.8	5.0	7.4	7.0	21	191	44	17	20
5	12	12	4.4	7.7	5.6	7.6	6.4	27	175	42	16	14
6	10	10	4.7	7.4	5.2	7.4	6.8	27	175	41	16	13
7	10	11	4.5	6.9	6.2	7.0	7.2	27	183	39	15	12
8	10	8.1	4.0	6.2	7.4	6.6	8.0	37	191	38	14	13
9	10	7.7	4.3	5.6	7.0	6.8	8.4	40	188	38	14	13
10	10	6.6	4.3	5.0	6.4	7.2	9.0	38	192	37	15	12
11	9.6	5.6	4.0	4.2	6.2	7.8	8.6	43	196	35	15	12
12	9.2	5.2	3.8	4.4	6.2	7.8	8.0	38	177	32	14	12
13	9.2	4.7	4.0	5.2	6.6	7.4	7.6	35	143	32	12	12
14	9.2	4.3	4.5	6.0	7.1	6.8	8.0	33	123	30	12	12
15	9.2	4.6	4.7	6.4	6.3	7.1	8.6	31	116	29	13	12
16	9.2	5.4	4.7	6.8	5.8	7.8	9.0	31	114	28	15	12
17	8.8	5.8	4.7	6.8	5.4	7.8	9.8	29	115	26	14	12
18	8.8	6.4	4.8	6.4	6.0	7.4	11	29	119	25	14	12
19	8.1	6.2	4.5	5.8	6.4	7.0	13	30	115	25	14	12
20	8.8	5.8	5.2	6.2	5.6	6.7	16	29	107	25	13	11
21	8.4	5.6	5.6	6.4	6.2	7.4	14	38	98	24	13	12
22	8.4	5.6	5.2	6.4	6.4	8.0	15	49	92	24	13	12
23	8.8	4.8	5.0	6.0	6.6	8.0	19	63	87	25	14	13
24	8.4	5.4	4.8	6.2	7.0	7.4	22	81	84	22	15	15
25	9.6	5.6	4.5	6.6	7.4	7.8	23	118	81	22	15	12
26	11	5.2	4.2	6.8	8.2	8.2	20	157	75	22	14	12
27	11	4.9	3.7	6.8	7.8	8.8	19	181	69	21	14	16
28	10	5.6	4.2	6.6	7.4	8.0	19	240	65	20	14	13
29	11	6.1	3.7	6.2	---	8.0	20	231	61	19	15	15
30	10	5.8	3.3	6.0	---	9.4	19	291	57	18	14	17
31	11	---	3.9	5.8	---	11	---	273	---	20	14	---
TOTAL	308.7	205.6	138.9	188.6	173.8	240.0	367.2	2321	4029	954	452	394
MEAN	9.96	6.85	4.48	6.08	6.21	7.74	12.2	74.9	134	30.8	14.6	13.1
MAX	13	13	5.6	7.7	8.2	11	23	291	221	53	20	20
MIN	8.1	4.3	3.3	4.2	3.4	6.6	6.4	17	57	18	12	11
AC-FT	612	408	276	374	345	476	728	4600	7990	1890	897	781

CAL YR 1982	TOTAL	7197.5	MEAN	19.7	MAX	149	MIN	2.9	AC-FT	14280
WTR YR 1983	TOTAL	9772.8	MEAN	26.8	MAX	291	MIN	3.3	AC-FT	19380

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)
DEC											
15...	1230	4.3	565	8.3	1.5	0.0	--	--	0.64	320	--
FEB											
02...	1050	1.5	510	--	--	0.0	--	--	--	--	--
15...	1315	6.3	620	8.2	0.0	0.0	9.3	570	--	--	--
MAR											
02...	1255	8.8	550	--	--	0.5	--	--	--	0.04	--
APR											
19...	1240	11	560	--	5.0	6.0	--	--	--	--	--
MAY											
04...	1730	22	485	--	3.0	9.0	--	--	--	--	<0.1
JUN											
10...	1645	210	255	8.2	22.5	9.0	8.3	570	1.4	130	--
JUL											
19...	1610	25	480	8.5	--	17.5	9.8	578	--	--	--
AUG											
02...	1630	17	485	8.2	--	18.5	--	580	0.74	270	--
31...	1600	14	530	8.1	21.5	15.0	7.4	573	--	270	--
SEP											
28...	1540	14	550	8.6	15.0	12.0	8.3	568	--	300	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
DEC										
15...	86	26	12	7	0.3	2.2	--	48	19	0.2
FEB										
02...	--	--	--	--	--	--	260	54	--	--
15...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	250	47	--	--
APR										
19...	--	--	--	--	--	--	190	46	--	--
MAY										
04...	--	--	--	--	--	--	240	43	--	--
JUN										
10...	41	7.0	3.0	5	0.1	1.2	--	19	4.3	0.1
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	72	23	5.9	4	0.2	--	--	52	8.9	--
31...	68	25	7.2	5	0.2	5.3	--	53	10	0.2
SEP										
28...	78	25	6.8	5	0.2	--	--	57	11	--

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
DEC										
15...	7.5	361	0.49	4.2	--	0.14	0.08	--	--	0.52
FEB										
02...	--	359	0.49	1.5	--	0.14	--	<0.06	0.08	0.4
15...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	333	0.45	8.0	0.1	0.13	--	<0.06	0.08	1.0
APR										
19...	--	335	0.46	9.9	--	<0.1	--	<0.06	0.08	0.7
MAY										
04...	--	296	0.4	17.6	--	0.29	--	<0.06	0.08	1.4
JUN										
10...	6.3	162	0.22	91.9	--	0.6	<0.06	--	--	3.9
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	315	0.43	14.5	0.1	0.14	--	--	--	0.7
31...	6.6	297	0.4	11.2	--	<0.1	0.03	--	--	0.37
SEP										
28...	--	318	0.43	12.0	<0.1	<0.1	--	--	--	0.8

DATE	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC										
15...	0.6	0.1	0.5	0.6	2.7	0.08	0.25	0.03	--	--
FEB										
02...	0.4	--	--	0.4	1.8	0.04	0.12	0.02	0.01	0.03
15...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	1.00	--	--	1.1	4.9	0.30	0.92	0.01	0.01	0.03
APR										
19...	0.7	--	--	0.7	3.1	0.11	0.34	0.00	0.03	0.09
MAY										
04...	1.40	--	--	1.4	6.2	0.10	0.31	0.00	0.05	0.15
JUN										
10...	4.00	3.2	0.8	4.0	18	0.40	1.2	0.03	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	0.7	0.1	0.6	0.8	3.5	0.07	0.21	0.00	--	--
31...	0.4	0.00	0.4	0.4	1.8	0.00	--	0.00	--	--
SEP										
28...	0.8	0.4	0.4	0.9	4.0	0.04	0.12	0.00	--	--

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
DEC												
15...	1230	<1	--	<1	<100	--	61	<10	<1	40	1	<1
MAR												
02...	1255	--	--	<1	200	200	50	--	--	--	--	<1
JUN												
10...	1645	1	0	1	--	--	--	<10	<1	30	1	<1
AUG												
02...	1630	--	--	--	--	--	--	--	--	--	--	--
31...	1600	--	--	--	--	--	--	--	--	40	--	--
SEP												
28...	1540	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
DEC												
15...	<10	<10	3	2	1	2	1	1	10	0	16	<.1
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	10	<10	11	10	1	10	--	<1	--	--	--	<.1
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	.1
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	<.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC												
15...	<.1	1	0	2	<1	<1	180	0	190	30	0	35
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	<.1	12	11	1	1	<1	--	--	--	60	60	3
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
DEC							
15...	1230	660	--	<3	80	30	52
FEB							
02...	1050	400	380	20	70	--	--
MAR							
02...	1255	4000	4000	6	170	--	--
APR							
19...	1240	2000	2000	30	150	--	--
JUN							
10...	1645	5800	5800	46	180	170	10
AUG							
02...	1630	670	660	13	80	40	43
31...	1600	260	250	7	60	30	34
SEP							
28...	1540	590	580	11	60	20	36

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
FEB 15...	1315	2	1	3	<10	4	4500	10	230	.03	<1	25

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)
DEC 15...	1230	2.7	.4	<.01	4
JUN 10...	1645	6.5	--	--	--
JUL 19...	1610	--	--	--	12
AUG 31...	1600	2.0	--	--	3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JUN 10...	1645	210	9.0	63	587	333
31...	1600	14	15.0	64	36	1.4

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	COAL IN BOTTOM MATERIAL (GM/KG)
FEB 15...	1315	6.3	.0	8.90

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UT

LOCATION.--Lat 39°47'15", long 111°07'30", in NW1/4SE1/4 sec.10, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft upstream from face of dam on Price River and 4.7 mi northeast of Scofield.

DRAINAGE AREA.--154 mi^2.

PERIOD OF RECORD.--October 1941, April 1942 to current year. Fragmentary records 1926-41 in files of Office of State Engineer.

REVISED RECORDS.--WSP 1089: 1946. WDR UT-77-1: Drainage area.

GAGE.--Staff gage read twice daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1945, at site 800 ft upstream 200 ft from old dam at datum 4.51 ft higher.

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft downstream from old dam in use prior to Nov. 8, 1945. Storage began in May 1926. Usable capacity of reservoir formed by new dam is 65,780 acre-ft between elevations 7,586.0 ft (bottom of outlet works) and 7,617.5 ft (crest of spillway). Dead storage, 8,000 acre-ft below elevation 7,586.0 ft. Figures given herein represent usable contents. Water used for irrigation in vicinity of Price.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 77,280 acre-ft June 12, 13, 1983; elevation, 7,621.85 ft; minimum observed, 280 acre-ft Oct. 3, 1945; elevation, 7,586.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 77,280 acre-ft June 12, 13, elevation, 7,621.5 ft; minimum, 34,760 acre-ft Apr. 22-26, elevation, 7,605.5 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

7,605	33,600	7,621	75,830
7,610	45,720	7,622	78,740
7,615	58,870		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48280	49830	52710	53230	52710	45980	38790	36890	65780	72640	67190	59960
2	48280	49830	52710	53500	52710	45980	38790	37120	68620	72350	66910	59690
3	48540	49830	52710	53500	52440	45980	38790	37590	71200	72060	66910	59410
4	48540	49830	52970	53500	52440	45470	38790	37590	72930	71770	66630	59140
5	48540	50090	52970	53500	52440	45470	38790	38070	74090	71480	66630	58870
6	48540	50090	52970	54030	51920	45470	38310	38550	74380	71200	66350	58600
7	48790	50090	52970	54030	51920	43460	38310	38790	74960	70910	66350	58320
8	48790	50090	52970	53760	51650	43460	38070	39030	76410	70910	66060	58050
9	48790	50350	52970	53760	51130	43460	37830	40000	76410	70620	66060	57510
10	48540	50350	53230	53760	51130	41970	37830	40740	76700	70330	65780	57240
11	48540	50870	53230	53760	50870	41970	37830	41230	76990	70330	65500	56970
12	48540	50870	53230	53760	50870	41480	37350	41480	77280	70040	65220	56430
13	48540	51390	53230	53760	50610	41480	37120	44970	77280	70040	65220	55900
14	48540	51390	53230	53760	50350	41480	37120	42220	76700	69760	64940	55630
15	48790	51390	53500	53760	50350	40740	36640	42460	76120	69760	64660	55360
16	48790	51650	53500	53500	49830	40740	36400	42960	75830	69470	64660	54830
17	49050	51650	53500	53500	49830	39760	36400	43210	75540	69190	64660	54560
18	49050	51650	53500	53500	49570	39760	35700	43460	75830	69190	64380	54030
19	49050	51920	53500	53500	49570	38550	35700	43710	75830	68900	64380	53760
20	49310	51920	53760	53500	49310	38550	35230	43710	75540	68620	63820	53230
21	49310	52180	53760	53500	49310	38550	35230	43960	75250	68620	63550	52710
22	49310	52180	53760	53500	48020	38310	34760	44210	75250	68330	63270	52180
23	49310	52180	54030	53500	48020	38310	34760	44960	74960	68330	62990	51920
24	49310	52440	54030	53230	47250	38310	34760	45980	74380	68040	62710	51650
25	49310	52440	54030	53230	47250	38310	34760	47000	74090	68040	62440	51390
26	49310	52440	54030	53230	47250	38070	34760	48540	74090	68040	62160	51130
27	49570	52440	54030	53230	46740	38070	35230	50090	73800	67480	61610	50870
28	49570	52440	54030	52970	46740	38310	34760	52440	73510	67480	61330	50610
29	49570	52440	54030	52970	---	38310	35930	54560	73220	67190	61060	50350
30	49570	52440	53500	52970	---	38550	36400	57780	72930	67190	60780	50350
31	49830	---	53230	52710	---	38550	---	61880	---	67190	60230	---
MAX	49830	52440	54030	54030	52710	45980	38790	61880	77280	72640	67190	59960
MIN	48280	49830	52710	52710	46740	38070	34760	36890	65780	67190	60230	50350
(#)	7611.6	7612.6	7612.9	7612.7	7610.4	7607.1	7606.2	7616.1	7620.0	7618.0	7615.5	7611.8
(*)	+1550	+2610	+790	-520	-5970	-8190	-2150	+25480	+11050	-5740	-6960	-9880

CAL YR 1982 . . . . . (*) +20770
WTR YR 1983 . . . . . (*) +2070

(#) ELEVATION, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°52'33", long 111°02'12", in NE1/4SE1/4SW1/4 sec.9, T.11 S., R.8 E., Utah County, Hydrologic Unit 14060007, 50 ft downstream from bridge on U.S. Highways 6-50, 1.5 mi downstream from Tabbyune Creek, 2.5 mi northwest of the Colton railroad siding, and 4.5 mi southeast of Soldier Summit.

DRAINAGE AREA.--75.6 mi^2.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--16 years, 30.7 ft^3/s, 22,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft^3/s May 27, 1983, gage height, 5.82 ft; no flow many days August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 27	0100	*962	5.82
Aug. 12	unknown	165	2.50

Minimum daily, 3.2 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	14	10	4.2	6.0	7.0	14	119	605	63	26	11
2	12	12	10	3.8	4.5	8.0	13	125	524	61	24	12
3	12	12	9.0	4.8	3.5	9.0	12	135	445	60	33	11
4	12	11	8.0	5.6	4.5	9.0	11	142	393	55	24	16
5	12	9.0	10	9.0	5.0	9.0	10	166	365	52	22	12
6	11	7.7	8.0	7.8	4.0	8.0	12	174	340	51	22	11
7	10	8.3	7.5	7.8	4.5	7.5	14	172	316	50	21	10
8	9.7	13	9.0	8.4	5.0	8.0	17	202	298	53	20	10
9	9.7	15	9.5	7.6	6.5	8.0	18	240	274	54	20	10
10	9.7	14	10	7.2	5.5	8.0	19	240	250	52	23	9.7
11	10	17	8.5	6.8	5.0	9.0	19	229	233	44	22	9.4
12	9.7	13	7.0	6.2	4.8	10	18	210	219	43	110	9.2
13	8.8	12	7.5	6.2	5.5	11	18	197	199	42	50	9.2
14	8.3	8.0	8.0	6.6	6.0	11	18	189	176	40	27	8.8
15	8.3	9.0	9.0	6.6	4.5	10	18	184	159	36	23	9.1
16	8.3	11	9.0	7.2	5.0	9.0	21	182	145	35	21	9.5
17	9.0	12	9.5	7.8	4.8	10	27	175	134	33	20	10
18	9.7	12	10	8.6	5.0	9.5	38	178	125	32	18	9.2
19	9.7	11	9.0	6.8	6.5	9.0	46	189	118	30	18	9.1
20	10	9.0	8.0	7.6	5.0	8.0	64	194	111	30	17	9.7
21	11	9.7	9.0	7.4	4.6	7.0	78	224	103	30	16	12
22	10	5.6	10	6.8	4.6	9.0	83	309	97	31	15	14
23	9.7	4.8	10	7.8	4.8	10	105	415	93	33	14	17
24	10	6.1	7.5	7.2	5.0	9.0	128	542	89	29	13	14
25	11	7.0	6.0	7.8	7.0	10	135	720	85	30	13	11
26	12	6.0	4.4	7.8	6.5	10	121	899	84	29	13	9.2
27	14	6.0	4.9	7.4	6.0	9.0	116	927	81	78	12	12
28	12	7.0	5.6	7.8	6.0	10	116	903	74	26	12	10
29	12	6.0	4.4	7.0	---	9.0	125	882	70	25	14	9.6
30	13	9.0	3.2	7.8	---	13	121	746	67	24	12	12
31	14	---	3.6	7.8	---	15	---	720	---	26	11	---
TOTAL	334.6	297.2	245.1	219.2	145.6	289.0	1555	10929	6272	1277	706	326.7
MEAN	10.8	9.91	7.91	7.07	5.20	9.32	51.8	353	209	41.2	22.8	10.9
MAX	16	17	10	9.0	7.0	15	135	927	605	78	110	17
MIN	8.3	4.8	3.2	3.8	3.5	7.0	10	119	67	24	11	8.8
AC-FT	664	589	486	435	289	573	3080	21680	12440	2530	1400	648

CAL YR 1982	TOTAL	17730.2	MEAN	48.6	MAX	433	MIN	1.4	AC-FT	35170
WTR YR 1983	TOTAL	22596.4	MEAN	61.9	MAX	927	MIN	3.2	AC-FT	44820

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°49'50", long 110°58'07", in NW1/4SW1/4SW1/4 sec.30, T.11 S., R.9 E., Utah County, Hydrologic Unit 14060007, on left bank 0.5 mi upstream from mouth, 2.5 mi southeast of Colton, and 9.1 mi southeast of Soldier Summit.

DRAINAGE AREA.--26.1 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,200 ft from topographic map.

REMARKS.--Records good except those for winter months, which are poor.

AVERAGE DISCHARGE.--23 years, 4.31 ft^3/s, 3,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 204 ft^3/s May 27, 1983, maximum gage height, 2.71 ft May 19, 1973 and May 17, 1979; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 23 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 8	2400	41	1.57
May 27	0100	*204	2.63

Minimum daily, 0.05 ft^3/s Dec. 31, Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	.33	.24	.05	.09	.30	.50	13	174	22	8.0	2.7
2	1.4	.33	.20	.07	.06	.28	.45	12	164	22	7.4	3.0
3	1.1	.29	.16	.09	.09	.28	.40	15	179	19	7.2	3.2
4	1.1	.30	.16	.10	.10	.28	.38	16	177	18	6.5	4.2
5	1.1	.28	.18	.12	.10	.30	.34	22	174	17	5.8	4.4
6	.96	.29	.16	.12	.08	.32	.30	22	144	14	5.8	2.9
7	.70	.29	.14	.12	.10	.36	.30	21	139	14	5.6	2.1
8	.60	.33	.14	.12	.10	.40	.40	27	128	15	5.2	2.3
9	.50	.35	.14	.12	.10	.45	.60	35	113	16	4.6	2.2
10	.40	.34	.14	.12	.10	.50	.70	35	107	15	4.2	2.2
11	.40	.34	.12	.10	.10	.60	.70	34	101	13	4.4	2.0
12	.35	.32	.12	.10	.10	.60	.60	32	95	14	4.6	1.7
13	.32	.30	.12	.10	.10	.60	.55	31	86	12	4.5	1.5
14	.32	.20	.14	.10	.10	.55	.55	32	76	11	4.3	1.5
15	.31	.30	.14	.10	.10	.50	.50	30	66	9.4	4.2	1.6
16	.27	.33	.12	.10	.10	.50	.53	29	61	8.2	4.6	1.5
17	.26	.33	.12	.10	.10	.50	.62	27	56	8.2	4.4	1.3
18	.25	.33	.12	.10	.10	.45	.67	28	53	7.9	4.2	1.2
19	.25	.35	.12	.10	.10	.40	.84	29	50	7.9	4.5	1.2
20	.25	.32	.14	.10	.10	.35	1.1	28	47	7.5	4.6	1.2
21	.25	.32	.12	.10	.10	.30	1.2	38	42	7.5	4.4	1.3
22	.25	.32	.12	.10	.10	.40	1.3	49	38	7.9	4.0	1.3
23	.25	.14	.12	.10	.10	.38	1.6	56	35	8.2	3.5	1.5
24	.25	.14	.10	.10	.12	.45	4.1	69	34	7.9	3.0	2.0
25	.25	.20	.10	.10	.20	.45	8.8	86	33	7.9	3.0	2.4
26	.36	.18	.09	.10	.19	.45	11	114	37	8.1	3.0	2.4
27	.41	.18	.07	.10	.18	.45	11	170	31	8.1	2.7	3.4
28	.36	.20	.09	.10	.17	.50	12	174	27	7.8	2.5	2.7
29	.35	.23	.07	.10	---	.55	13	177	25	6.4	3.2	2.7
30	.32	.25	.07	.10	---	.60	13	188	25	5.9	3.0	4.9
31	.39	---	.05	.10	---	.60	---	162	---	7.6	2.8	---
TOTAL	17.08	8.41	3.92	3.13	3.08	13.65	88.03	1801	2517	354.4	139.7	68.5
MEAN	.55	.28	.13	.10	.11	.44	2.93	58.1	83.9	11.4	4.51	2.28
MAX	2.8	.35	.24	.12	.20	.60	13	188	179	22	8.0	4.9
MIN	.25	.14	.05	.05	.06	.28	.30	12	25	5.9	2.5	1.2
AC-FT	34	17	7.8	6.2	6.1	27	175	3570	4990	703	277	136

CAL YR 1982	TOTAL	1532.80	MEAN	4.20	MAX	44	MIN	.04	AC-FT	3040
WTR YR 1983	TOTAL	5017.90	MEAN	13.7	MAX	188	MIN	.05	AC-FT	9950

09312800 WILLOW CREEK NEAR CASTLE GATE, UT

LOCATION.--Lat 39°46'37", long 110°47'30", in SW1/4SE1/4SW1/4 sec.15, T.12 S., R.10 E., Carbon County, Hydrologic Unit 14060007, on right bank 130 ft upstream from Deep Canyon, 170 ft east of State Highway 33, 1.5 mi downstream from junction with two major tributaries, 5.1 mi northeast of Castle Gate, 5.4 mi upstream from mouth, and 12.3 mi north of Price.

DRAINAGE AREA.--62.8 mi^2.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,000 ft from topographic map.

REMARKS.--Records good except those for winter months, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--21 years, 9.33 ft^3/s, 6,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft^3/s Aug. 6, 1973, gage height, 6.47 ft from floodmarks; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 8	2200	278	3.70
May 27	2100	353	3.97
July 9	2200	209	3.44
July 23	1900	409	4.33
Aug. 12	1800	*605	5.20
Sept. 27	1200	112	3.01

Minimum daily, 1.1 ft^3/s Dec.30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	3.4	3.6	1.9	2.6	3.0	13	78	238	31	19	7.1
2	4.7	2.7	3.4	1.7	1.7	3.0	11	100	209	30	14	7.8
3	4.4	2.2	3.2	2.8	1.5	2.8	10	155	172	28	14	10
4	4.4	3.1	3.0	3.4	2.2	2.6	9.4	159	172	28	12	9.5
5	4.7	2.9	3.7	4.2	2.6	2.8	9.4	186	170	25	12	7.1
6	4.4	2.8	3.7	3.8	2.2	2.6	8.8	181	161	25	17	6.7
7	4.4	2.7	2.8	4.2	2.6	2.4	9.4	184	150	24	11	6.6
8	4.4	3.1	3.3	3.7	3.1	2.6	11	215	138	24	10	7.5
9	4.2	4.2	3.5	3.9	3.8	2.9	14	215	131	53	8.7	7.1
10	4.2	2.9	3.8	3.5	2.9	3.3	15	211	106	42	8.2	6.4
11	4.2	3.6	3.6	3.2	2.6	3.7	14	200	95	26	8.1	6.0
12	4.4	2.4	2.6	2.6	2.8	4.0	13	179	91	23	49	6.0
13	4.2	3.0	3.0	2.8	2.6	4.2	13	166	81	22	16	5.7
14	4.2	1.7	3.2	2.8	3.2	4.5	13	157	73	21	11	5.7
15	4.2	2.1	3.4	3.0	2.4	4.0	14	150	66	20	10	5.7
16	3.9	2.3	3.5	3.2	2.8	3.8	11	150	61	19	9.8	5.4
17	3.9	2.7	3.7	3.7	2.8	4.5	7.5	127	57	18	9.8	5.4
18	3.9	3.3	3.7	3.5	2.8	4.8	8.2	125	54	16	9.4	5.4
19	3.1	3.8	3.2	2.8	3.2	4.6	9.5	127	50	15	9.8	5.0
20	3.6	2.8	3.2	3.2	2.2	4.3	10	134	45	16	9.0	5.0
21	3.4	3.1	3.5	3.0	2.5	4.0	15	157	39	16	8.6	5.4
22	3.6	3.0	3.7	2.8	2.2	5.0	16	200	36	18	8.2	5.0
23	3.6	1.9	3.2	3.4	2.5	6.0	24	213	32	60	7.8	6.0
24	3.6	2.3	2.5	3.0	2.7	5.6	44	249	31	22	7.8	6.7
25	3.6	2.8	1.8	3.4	3.2	6.0	72	283	28	29	7.8	5.7
26	4.2	2.3	1.3	3.2	2.9	6.6	73	330	36	21	7.5	5.7
27	4.2	2.3	1.8	3.4	2.5	7.0	69	335	40	18	7.1	21
28	3.0	2.8	1.5	3.5	2.7	6.6	66	330	37	15	7.1	7.1
29	3.0	3.0	1.5	2.8	---	7.6	72	314	35	15	7.5	8.2
30	3.9	3.7	1.1	3.1	---	9.8	81	308	34	14	7.1	36
31	4.2	---	1.6	3.2	---	12	---	292	---	19	6.8	---
TOTAL	127.5	84.9	90.6	98.7	73.8	146.6	756.2	6210	2668	753	351.1	237.9
MEAN	4.11	2.83	2.92	3.18	2.64	4.73	25.2	200	88.9	24.3	11.3	7.93
MAX	7.8	4.2	3.8	4.2	3.8	12	81	335	238	60	49	36
MIN	3.0	1.7	1.1	1.7	1.5	2.4	7.5	78	28	14	6.8	5.0
AC-FT	253	168	180	196	146	291	1500	12320	5290	1490	696	472

CAL YR 1982	TOTAL	3443.6	MEAN	9.43	MAX	59	MIN	1.0	AC-FT	6830
WTR YR 1983	TOTAL	11598.3	MEAN	31.8	MAX	335	MIN	1.1	AC-FT	23010

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT

LOCATION.--Lat 39°41'43", long 110°36'52", in NW1/4NW1/4SE1/4 sec.18, T.13 S., R.12 E., Carbon County, Hydrologic Unit 14060007, on right bank 16 mi upstream from mouth, 0.4 mi downstream from Soldier Creek Mine, 14 mi northeast of Wellington.

DRAINAGE AREA.--17.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1978 to current year (seasonal records).

REVISED RECORDS.--WDR UT-81-1: 1979, 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 472 ft^3/s Sept. 23, 1981, gage height, 4.50 ft; minimum, 0.08 ft^3/s Aug. 5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 236 ft^3/s Sept. 30, gage height, 3.85 ft; minimum recorded, 0.30 ft^3/s Nov. 7, may have been lower during period of nonoperation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.6					---	24	59	14	5.8	3.4
2	1.0	1.6					---	28	55	14	5.4	3.4
3	.88	.81					---	36	53	13	4.6	2.8
4	1.7	.82					---	40	51	13	8.0	2.8
5	1.3	.85					---	49	49	13	4.4	2.4
6	1.6	.72					---	49	47	13	4.2	3.2
7	1.1	.68					---	54	45	13	3.7	3.8
8	1.5	.66					---	66	43	9.8	3.6	4.2
9	.67	.79					---	69	42	27	3.6	3.8
10	.69	.86					---	58	40	13	6.3	2.8
11	.69	.84					---	49	38	11	5.8	2.6
12	.65	.78					---	48	37	10	11	3.2
13	.65	.78					---	51	36	9.4	7.3	3.6
14	.65	.74					---	50	35	9.4	6.3	3.4
15	.65	.76					---	49	34	9.0	7.8	3.2
16	.65	.77					---	46	34	8.6	6.0	2.6
17	.66	.75					---	45	32	8.6	6.6	2.4
18	.65	.84					---	45	31	8.2	9.0	2.2
19	.64	.94					---	48	30	7.6	5.1	3.0
20	.68	.88					---	53	29	8.0	4.0	3.4
21	.68	.88					19	75	28	8.6	3.4	2.8
22	.66	.92					18	74	28	11	4.0	2.6
23	.66	.86					19	77	27	17	3.6	4.9
24	.65	.86					20	74	27	11	3.4	3.2
25	.64	.90					21	88	26	9.0	8.2	2.4
26	1.0	.90					21	81	34	15	7.2	2.8
27	1.6	.90					21	83	18	7.0	6.0	29
28	1.5	.89					22	73	17	6.0	5.0	9.8
29	.84	.89					24	67	16	5.0	4.5	10
30	.68	.86					26	68	15	5.0	4.2	27
31	1.0	---					---	60	---	5.5	3.6	---
TOTAL	29.02	26.33					---	1777	1056	332.7	171.6	156.7
MEAN	.94	.88					---	57.3	35.2	10.7	5.54	5.22
MAX	2.1	1.6					---	88	59	27	11	29
MIN	.64	.66					---	24	15	5.0	3.4	2.2
AC-FT	58	52					---	3520	2090	660	340	311

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: November 1978 to September 1981, periodically (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN									
09...	1515	54	560	8.5	17.5	13.0	8.3	598	62
JUL									
07...	1535	13	720	8.5	26.5	17.5	7.3	601	50
AUG									
09...	1500	4.0	820	8.5	31.5	24.0	6.7	599	38

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUN								
09...	39	28	1.5	67	7.6	0.4	8.2	353
JUL								
07...	42	56	2.9	84	12	0.4	8.3	394
AUG								
09...	42	90	5.6	94	17	0.6	9.0	474

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN								
09...	1.00	<0.1	<0.06	0.7	0.3	0.06	0.18	0.00
JUL								
07...	1.80	<0.1	0.08	1.3	0.5	0.09	0.28	0.00
AUG								
09...	0.5	<0.1	0.13	0.00	0.5	0.03	0.09	0.02

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
JUN											
09...	1515	1	0.0	1	--	--	--	<10	<0.5	60	<1
JUL											
07...	1535	--	--	--	--	--	--	--	--	110	--
AUG											
09...	1500	2	1	1	100	0.0	200	<10	0.5	190	<1

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
JUN 09...	<1	<10	<10	2.0	1.0	1	930	930	4.0	2.0	0.0
JUL 07...	--	--	--	--	--	--	1400	1400	9.0	--	--
AUG 09...	<1	<10	<10	4.0	2.0	2	290	280	7.0	2.0	0.0

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)
JUN 09...	2	--	--	--	40	30	7	1.8	1.1	0.7	10
JUL 07...	--	--	--	--	80	70	13	--	--	--	--
AUG 09...	2	50	0.0	60	30	20	15	1.7	0.4	1.3	10

DATE	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 09...	10	1	2	0.00	2	--	--	--	50	0.00	60
JUL 07...	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	8.00	3	1	0.00	1	410	0.00	460	50	50	4.00

DATE	TIME	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
AUG 09...	1500	1	<1.00	3.00	<10	4.00	1400	10	220	0.00	<1	8.00

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
JUN 09...	1515	3.1	0.3	--	--
JUL 07...	1535	2.5	0.5	--	38
AUG 09...	1500	2.3	0.1	0.00	19

09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT

LOCATION.--Lat 39°26'59", long 110°37'38", in NE1/4SE1/4NE1/4 sec.12, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 100 ft downstream from highway bridge, and 8.5 mi southeast of Wellington.

DRAINAGE AREA.--956 mi^2.

PERIOD OF RECORD.--April 1972 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,150 ft from topographic map.

REMARKS.--Records poor. Diversions for irrigation above station. Flow affected by storage in Scofield Reservoir.

AVERAGE DISCHARGE.--11 years, 117 ft^3/s, 84,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft^3/s Sept. 11, 1975, gage height, 9.97 ft from floodmark; minimum, 0.68 ft^3/s June 30, July 1, 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	maximum daily	*2,810	--
July 26	1800	2,520	10.73
Sept. 27	1700	1,150	6.92

Minimum, 19 ft^3/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	46	42	26	80	480	132	677	2210	660	305	133
2	144	43	40	28	78	464	129	702	2010	607	211	122
3	106	41	41	30	76	420	139	794	1890	562	227	159
4	88	42	42	33	78	408	122	786	2070	511	313	153
5	87	41	43	35	82	413	117	952	2300	463	203	172
6	74	43	42	34	80	402	127	970	2460	421	198	154
7	65	42	39	36	78	352	173	912	2450	390	217	140
8	62	61	43	38	78	341	196	1020	2480	353	210	131
9	61	86	41	40	80	345	235	1230	2490	355	195	118
10	61	79	44	34	78	341	320	1160	2510	529	174	118
11	63	65	40	33	88	338	351	1110	2490	346	184	101
12	59	52	38	35	86	348	351	962	2430	294	177	93
13	53	45	37	34	92	350	344	904	2390	250	303	94
14	59	37	41	36	161	357	351	876	2350	209	209	89
15	61	34	42	38	190	380	344	943	2060	187	180	102
16	62	48	42	44	208	361	317	1010	1890	153	166	99
17	58	34	40	47	227	351	327	898	1750	131	161	101
18	58	36	43	78	222	368	340	912	1640	114	146	102
19	51	38	43	82	279	356	357	914	1570	115	138	92
20	49	37	41	83	302	339	419	952	1530	120	182	85
21	44	39	40	78	291	328	483	999	1450	129	160	93
22	40	40	42	72	295	321	459	1280	1390	116	137	114
23	39	34	40	80	312	207	462	1430	1260	133	130	158
24	41	29	38	72	337	154	571	1600	1180	164	112	164
25	40	40	36	77	323	149	657	1830	1080	485	106	184
26	40	37	31	82	293	156	612	2050	1010	810	99	167
27	137	38	32	84	287	140	513	2210	970	354	110	459
28	56	44	29	80	348	140	489	2390	856	259	108	273
29	50	42	28	80	---	130	591	2500	795	201	139	242
30	48	41	24	82	---	135	718	2810	729	182	124	460
31	49	---	24	83	---	149	---	2620	---	227	135	---
TOTAL	2192	1334	1188	1714	5129	9523	10746	40403	53690	9830	5459	4672
MEAN	70.7	44.5	38.3	55.3	183	307	358	1303	1790	317	176	156
MAX	287	86	44	84	348	480	718	2810	2510	810	313	460
MIN	39	29	24	26	76	130	117	677	729	114	99	85
AC-FT	4350	2650	2360	3400	10170	18890	21310	80140	106500	19500	10830	9270

CAL YR 1982	TOTAL	49600	MEAN	136	MAX	873	MIN	14	AC-FT	98380
WTR YR 1983	TOTAL	145880	MEAN	400	MAX	2810	MIN	24	AC-FT	289400

09314280 DESERT SEEP WASH NEAR WELLINGTON, UT

LOCATION.--Lat 39°25'16", long 110°38'44", in NW1/4SW1/4NW1/4 sec.24, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 2,000 ft above mouth, and 9.5 mi southeast of Wellington.

DRAINAGE AREA.--191 mi^2.

PERIOD OF RECORD.--May 1972 to current year.

REVISED RECORDS.--WDR UT-77-1: 1972-76. WDR UT-80-1: 1979, 1978-79(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,235 ft from topographic map.

REMARKS.--Records good except the winter period and those of no gage height, Aug. 8 to Sept. 22, which are poor. Diversions above station for irrigation.

AVERAGE DISCHARGE.--11 years, 25.6 ft^3/s, 18,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft^3/s July 24, 1977, gage height, 10.00 ft from floodmarks from rating curve extended above 70 ft^3/s on basis of slope-area measurements; no flow July 15-17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 25	2000	*1,040	7.37
July 31	1500	214	4.00
Aug. 4	0030	374	4.90
Aug. 11	1630	208	3.96
Sept. 23	1900	447	5.25
Sept. 27	1530	254	4.25

Minimum daily, 8.0 ft^3/s Dec. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	71	22	8.6	18	87	28	44	30	73	149	36
2	93	71	20	9.0	16	92	42	45	32	74	101	31
3	91	68	19	9.6	16	95	48	46	40	74	92	39
4	99	56	19	11	17	91	48	52	47	79	128	37
5	91	46	18	12	16	92	53	67	52	77	94	42
6	81	43	16	11	14	91	62	81	51	71	97	40
7	60	41	14	12	14	83	53	68	56	64	99	35
8	49	50	16	14	14	75	53	57	62	65	99	33
9	47	80	15	15	15	72	52	52	64	63	108	36
10	46	100	17	14	18	63	52	50	77	66	110	40
11	49	90	15	12	20	60	52	47	70	70	106	39
12	53	70	14	13	21	54	49	44	68	69	86	38
13	52	50	13	12	22	52	45	42	63	69	74	37
14	45	34	15	12	31	52	43	39	46	65	83	36
15	43	27	16	12	30	50	40	37	43	61	81	40
16	38	29	16	11	35	39	39	40	42	56	61	41
17	36	31	14	12	32	41	36	39	38	56	70	40
18	37	47	16	12	34	42	36	40	43	55	69	39
19	36	54	16	13	41	35	36	47	45	52	75	43
20	38	50	15	13	41	32	42	45	50	58	71	48
21	41	45	14	14	43	30	41	42	48	65	73	51
22	43	43	16	15	56	27	40	39	55	67	49	59
23	45	37	15	16	69	29	38	48	55	72	44	123
24	44	33	14	15	70	32	36	42	51	100	40	118
25	42	34	13	15	76	35	39	44	61	180	32	97
26	45	36	11	16	69	35	58	44	69	191	29	104
27	63	33	11	17	73	31	50	40	75	151	34	158
28	68	29	9.6	17	77	31	43	37	74	133	36	132
29	61	26	9.0	17	---	30	43	30	71	130	37	119
30	60	23	8.0	17	---	28	44	31	68	97	34	218
31	67	---	8.0	18	---	27	---	29	---	123	32	---
TOTAL	1777	1447	454.6	415.2	998	1633	1341	1408	1646	2626	2293	1949
MEAN	57.3	48.2	14.7	13.4	35.6	52.7	44.7	45.4	54.9	84.7	74.0	65.0
MAX	114	100	22	18	77	95	62	81	77	191	149	218
MIN	36	23	8.0	8.6	14	27	28	29	30	52	29	31
AC-FT	3520	2870	902	824	1980	3240	2660	2790	3260	5210	4550	3870

CAL YR 1982	TOTAL	12317.8	MEAN	33.7	MAX	132	MIN	2.5	AC-FT	24430
WTR YR 1983	TOTAL	17987.8	MEAN	49.3	MAX	218	MIN	8.0	AC-FT	35680

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT

LOCATION.--Lat 39°33'20", long 110°22'46", in NE1/4NW1/4NW1/4 sec.5, T.15 S., R.14 E., Carbon County, Hydrologic Unit 14060007, on left bank 13 mi upstream from mouth, 0.1 mi downstream from Slaughter Canyon in Sunnyside.

DRAINAGE AREA.--40.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,540 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 10.4 ft^3/s, 7,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 631 ft^3/s May 31, 1983, gage height, 5.40 ft; no flow several days in February 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 631 ft^3/s May 31, gage height, 5.40 ft; minimum, 0.29 ft^3/s Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	2.6	2.5	.90	1.9	3.1	3.2	17	236	35	11	8.6
2	5.3	2.3	2.4	.90	1.8	2.8	3.3	17	234	33	10	8.9
3	6.3	2.0	2.4	.90	1.6	2.6	3.3	17	230	32	10	8.4
4	6.1	2.2	2.4	1.0	1.6	2.6	3.1	17	211	29	9.6	8.2
5	5.9	2.2	2.4	1.0	1.7	2.6	3.9	18	200	28	9.5	7.9
6	5.7	2.2	2.4	1.1	1.8	2.6	12	18	194	25	9.2	7.9
7	5.0	2.2	2.4	1.1	2.0	2.5	7.4	18	195	28	8.9	7.7
8	4.2	2.5	2.5	1.2	1.7	2.5	7.9	17	190	29	8.6	7.7
9	4.2	2.8	2.4	1.2	1.7	2.6	7.5	24	198	42	9.1	7.8
10	4.0	2.2	2.5	1.1	1.7	2.6	7.3	26	181	47	9.5	7.6
11	3.8	2.3	2.6	1.2	1.7	3.3	6.7	25	180	25	8.7	7.6
12	2.9	2.1	2.6	1.2	1.6	4.0	8.4	43	170	21	13	7.4
13	2.7	1.9	2.6	1.3	1.6	4.7	8.1	45	129	19	10	7.4
14	1.6	2.1	2.6	1.4	1.7	5.0	7.9	47	121	21	10	7.4
15	1.9	2.1	2.6	1.5	2.0	4.5	9.0	48	117	18	10	6.6
16	2.8	2.2	2.6	1.5	2.0	4.0	12	52	133	17	9.8	4.6
17	2.7	2.2	2.6	1.5	2.0	4.2	12	48	106	16	9.5	4.5
18	2.7	2.3	2.5	1.7	1.6	4.2	12	48	109	15	9.6	4.3
19	2.6	2.3	2.5	1.7	1.8	3.9	13	45	120	15	9.6	4.3
20	2.7	2.3	2.6	1.5	1.4	3.8	13	47	116	14	9.6	4.2
21	2.7	2.3	2.5	1.6	1.0	3.8	14	57	94	14	9.4	4.2
22	2.7	2.3	2.5	1.8	.60	4.0	13	81	79	15	9.4	4.3
23	2.7	2.4	2.6	1.8	.40	3.9	13	112	70	15	9.4	4.5
24	2.6	2.3	2.5	1.8	.50	3.9	15	171	58	16	9.2	4.7
25	2.5	2.4	2.5	2.0	.60	4.7	16	190	47	13	9.2	4.4
26	2.7	2.4	2.4	2.0	.58	4.8	16	233	51	12	9.0	4.3
27	2.8	2.3	2.2	1.9	.58	5.0	17	279	48	13	9.0	17
28	2.6	2.3	2.1	1.9	1.4	5.2	17	349	46	12	8.9	7.5
29	2.5	2.4	1.6	2.0	---	5.2	17	328	41	11	8.7	6.1
30	2.5	2.4	.80	2.0	---	4.4	17	262	40	10	8.5	15
31	3.2	---	.90	2.0	---	3.2	---	248	---	11	8.4	---
TOTAL	107.9	68.5	72.70	45.70	40.56	116.2	316.0	2947	3944	651	294.3	211.0
MEAN	3.48	2.28	2.35	1.47	1.45	3.75	10.5	95.1	131	21.0	9.49	7.03
MAX	6.3	2.8	2.6	2.0	2.0	5.2	17	349	236	47	13	17
MIN	1.6	1.9	.80	.90	.40	2.5	3.1	17	40	10	8.4	4.2
AC-FT	214	136	144	91	80	230	627	5850	7820	1290	584	419

CAL YR 1982	TOTAL	2710.93	MEAN	7.43	MAX	91	MIN	.13	AC-FT	5380
WTR YR 1983	TOTAL	8814.86	MEAN	24.2	MAX	349	MIN	.40	AC-FT	17480

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to September 1981, periodically (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)
JUN									
09...	1130	204	510	8.4	21.5	9.0	9.2	600	.32
JUL									
07...	1155	32	820	8.5	24.5	16.0	7.7	605	--
AUG									
09...	1200	8.6	980	8.5	26.0	16.5	7.7	601	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUN									
09...	51	33	23	1.3	58	2.9	.2	16	332
JUL									
07...	50	45	71	2.0	160	7.7	.3	15	478
AUG									
09...	48	46	110	2.7	220	12	.3	14	614

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN								
09...	0.50	0.12	<0.06	0.30	0.20	0.05	0.15	0.02
JUL								
07...	1.4	<0.10	0.03	0.90	0.50	0.02	0.06	0.01
AUG								
09...	0.30	<0.10	0.07	0.00	0.30	0.02	0.06	0.02

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
JUN											
09...	1130	1	0	1	--	--	<10	<1	40	<1	<1
JUL											
07...	1155	--	--	--	--	--	--	--	70	--	--
AUG											
09...	1200	1	0	1	<100	56	<10	<1	100	<1	<1

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
JUN 09...	10	<10	8	7	1	4700	4700	7	6	4	2
JUL 07...	--	--	--	--	--	310	300	8	--	--	--
AUG 09...	<10	<10	3	1	2	110	100	6	1	0	1

DATE	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
JUN 09...	--	--	--	180	180	4	2.6	1.5	1.1	<1	--
JUL 07...	--	--	--	30	20	7	--	--	--	--	--
AUG 09...	20	0	31	30	30	5	1.5	.1	1.4	14	10

DATE	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)	STRONTIUM, SUSPENDED RECOV. (UG/L AS SR)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUN 09...	2	2	1	1	--	--	--	30	0	40
AUG 09...	4	2	0	2	340	0	360	20	20	4

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 09...	1200	4	1	3	10	9	2900	20	280	.03	<1	22

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)
JUN 09...	1130	2.5	.6	--	--
JUL 07...	1155	2.2	.3	--	--
AUG 09...	1200	5.6	<.1	<.01	12

09314500 PRICE RIVER AT WOODSIDE, UT

LOCATION.--Lat 39°15'50", long 110°20'45", in SW1/4SE1/4SE1/4 sec.9, T.18 S., R.14 E., Emery County, Hydrologic Unit 14060007, on left downstream wingwall of old highway bridge, 200 ft downstream from railroad bridge at Woodside, and 16.3 mi upstream from mouth.

DRAINAGE AREA.--1,540 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to December 1910, January to August 1911 (gage heights only), November 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft by barometer. September 1909 to August 1911, reference point at site about 100 ft upstream at different datum. Nov. 27, 1945 to Oct. 16, 1954, water-stage recorder at site 15 ft downstream at datum 1.85 ft higher.

REMARKS.--Records good. Diversions above station for irrigation of about 18,000 acres. Flow affected by storage in Scofield Reservoir, usable capacity, 65,780 acre-ft, since 1926 (see station 09311000).

AVERAGE DISCHARGE.--37 years, 115 ft^3/s, 83,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft^3/s Sept. 11, 1980, gage height, 11.16 ft, from rating curve extended above 1,200 ft^3/s; no flow for several days in 1960, 1961, and part of July 8, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	1830	*3,430	9.60
July 27	0200	2,610	8.92

Minimum daily, 32 ft^3/s Dec. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	555	146	64	35	98	598	180	680	2840	748	534	169
2	300	148	60	37	94	584	169	666	2330	695	360	153
3	237	145	60	40	93	498	182	721	2140	648	298	198
4	211	136	61	44	94	461	189	799	2240	604	380	190
5	206	120	61	47	96	472	176	909	2590	555	358	214
6	190	117	58	45	94	468	182	1040	2700	500	267	194
7	172	115	53	48	92	417	213	1050	2700	456	280	175
8	152	111	59	52	93	400	270	1060	2730	423	284	164
9	144	130	56	55	95	401	286	1270	2740	394	281	154
10	141	222	61	48	96	392	341	1350	2800	564	267	158
11	139	235	55	45	108	391	400	1270	2750	473	261	140
12	144	120	52	48	107	404	424	1170	2710	372	316	131
13	139	84	50	46	114	410	409	1080	2690	326	298	131
14	134	84	56	48	192	416	406	1040	2580	291	278	125
15	127	79	58	50	220	437	402	1030	2400	257	230	142
16	123	76	58	55	243	400	377	1060	2200	226	208	140
17	117	80	54	64	280	390	377	1020	1960	197	225	141
18	118	75	59	95	275	409	402	982	1830	176	213	141
19	115	91	59	99	281	398	431	984	1760	166	202	135
20	114	92	56	101	365	373	461	1040	1720	224	253	133
21	114	90	54	97	362	359	513	1060	1650	231	233	140
22	114	84	58	92	352	357	560	1270	1560	196	186	148
23	111	82	55	101	382	334	490	1510	1460	197	174	165
24	112	72	52	92	437	212	572	1750	1320	247	152	488
25	114	68	49	99	476	194	683	1990	1220	242	138	271
26	112	69	42	108	438	203	759	2290	1270	1370	128	264
27	155	69	43	111	385	186	684	2500	1130	1260	144	457
28	175	69	39	102	391	176	584	2660	918	428	144	671
29	151	66	37	97	---	179	600	2960	922	280	176	340
30	142	64	32	99	---	169	666	3270	824	238	158	535
31	142	---	32	101	---	173	---	3180	---	238	167	---
TOTAL	5020	3139	1643	2201	6353	11261	12388	44661	60684	13222	7593	6607
MEAN	162	105	53.0	71.0	227	363	413	1441	2023	427	245	220
MAX	555	235	64	111	476	598	759	3270	2840	1370	534	671
MIN	111	64	32	35	92	169	169	666	824	166	128	125
AC-FT	9960	6230	3260	4370	12600	22340	24570	88590	120400	26230	15060	13100

CAL YR 1982	TOTAL	63818	MEAN	175	MAX	954	MIN	20	AC-FT	126600
WTR YR 1983	TOTAL	174772	MEAN	479	MAX	3270	MIN	32	AC-FT	346700

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1946 to September 1949, February 1951 to current year.
SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978, once daily (discontinued).
WATER TEMPERATURES: February 1951 to September 1959, November 1961 to September 1963, October 1964 to Sept. 30, 1978, once daily (discontinued).
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT										
22...	1100	114	3170	8.4	11.0	7.0	10.3	650	1100	22
NOV										
24...	1100	74	3440	8.3	6.5	0.0	13.1	650	1300	25
DEC										
29...	1330	32	3920	8.3	0.0	0.5	11.6	648	1600	31
JAN										
26...	1130	112	2190	8.3	4.5	0.0	11.7	651	830	17
FEB										
25...	1115	605	1570	8.2	12.0	4.0	10.9	641	510	10
MAR										
30...	1110	155	2830	8.4	17.5	9.0	10.1	648	980	20
APR										
28...	1055	520	1110	8.4	18.5	9.0	9.4	642	460	9.1
MAY										
25...	1045	1900	1000	8.2	28.0	13.5	8.0	646	400	8.0
JUN										
24...	1110	1410	830	8.3	24.5	17.0	7.8	646	330	6.7
JUL										
18...	1100	185	1940	8.4	30.0	19.5	7.4	643	700	14
AUG										
31...	1100	167	2310	8.4	28.5	20.0	7.3	646	760	15
SEP										
07...	1115	195	1810	8.3	25.5	19.0	7.5	642	300	6.0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT										
22...	170	160	410	45	5.5	7.1	250	1600	57	0.3
NOV										
24...	210	180	500	46	6.2	7.2	320	1800	59	0.3
DEC										
29...	260	220	520	42	5.9	8.9	340	2200	79	0.3
JAN										
26...	150	110	270	41	4.2	4.9	280	1000	26	0.3
FEB										
25...	98	65	180	43	3.5	4.8	200	680	25	0.3
MAR										
30...	160	140	360	44	5.1	5.7	290	1400	55	0.3
APR										
28...	85	59	100	32	2.1	2.3	250	380	26	0.3
MAY										
25...	85	46	70	27	1.6	3.4	250	290	17	0.3
JUN										
24...	76	35	55	26	1.3	2.5	210	210	15	0.2
JUL										
18...	130	90	210	39	3.6	4.9	250	860	35	--
AUG										
31...	140	100	240	40	3.9	5.2	250	880	45	0.2
SEP										
07...	120	--	--	--	--	4.8	230	700	37	0.3

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 22...	5.5	2760	2560	3.8	850	--	--	--	--
NOV 24...	6.4	3200	2950	4.4	637	1.0	0.09	0.12	2.10
DEC 29...	9.5	3580	3510	4.9	306	1.2	0.60	0.77	1.70
JAN 26...	6.2	1890	1740	2.6	572	0.9	0.44	0.57	1.40
FEB 25...	4.6	1210	1180	1.6	1980	0.5	0.23	0.3	5.50
MAR 30...	6.7	2530	2300	3.4	1060	0.7	0.07	0.09	1.00
APR 28...	10	807	813	1.1	1130	0.5	0.07	0.09	1.20
MAY 25...	11	691	670	0.94	3540	0.4	<0.06	0.08	1.00
JUN 24...	5.9	540	526	0.73	2060	0.4	<0.06	0.08	1.30
JUL 18...	7.5	1550	1490	2.1	774	0.5	0.04	0.05	1.00
AUG 31...	18	1840	1580	2.5	830	0.5	0.03	0.04	1.10
SEP 07...	--	1450	1000	2.0	763	0.4	0.05	0.06	1.90

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT 22...	0.77	--	--	--	--	--	--	--	--
NOV 24...	0.96	0.12	2.0	3.1	14	0.30	0.92	0.05	0.15
DEC 29...	1.3	0.61	1.1	2.9	13	0.19	0.58	0.10	0.31
JAN 26...	0.9	0.42	0.98	2.3	10	0.34	1.0	0.12	0.37
FEB 25...	0.49	0.22	5.3	6.0	27	5.40	17	0.05	0.15
MAR 30...	0.62	0.08	0.92	1.7	7.5	0.40	1.2	0.05	0.15
APR 28...	0.45	0.10	1.1	1.7	7.5	0.14	0.43	0.04	0.12
MAY 25...	0.45	<0.06	0.94	1.4	6.2	0.26	0.8	0.00	--
JUN 24...	0.33	<0.06	1.2	1.7	7.5	0.19	0.58	0.00	--
JUL 18...	0.47	0.04	0.96	1.5	6.6	0.38	1.2	0.03	0.09
AUG 31...	0.44	0.02	1.1	1.6	7.1	0.31	0.95	0.03	0.09
SEP 07...	0.42	0.05	1.9	2.3	10	0.24	0.74	0.03	0.09

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
JUN 24...	1110	20000	6	<10	<1	20	40	36000

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
JUN 24...	29	70	960	6.0	<1	36	3	170

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT		
22...	1100	310
NOV		
24...	1100	330
DEC		
29...	1330	400
JAN		
26...	1130	210
FEB		
25...	1115	120
MAR		
30...	1110	210
APR		
28...	1055	100
MAY		
25...	1045	90
JUN		
24...	1110	70
JUL		
18...	1100	210
AUG		
31...	1100	230
SEP		
07...	1115	210

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
JAN			
26...	1130	5.0	.4
APR			
28...	1055	3.3	2.2
JUL			
18...	1100	6.1	1.2

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC					
29...	1330	32	0.5	110	9.4
JAN					
26...	1130	112	0.0	328	99
FEB					
25...	1115	605	4.0	12300	20100
MAR					
30...	1110	155	9.0	459	192
APR					
28...	1055	520	9.0	4300	6040
JUN					
24...	1110	1410	17.0	3750	14300
AUG					
31...	1100	167	20.0	841	379

09315000 GREEN RIVER AT GREEN RIVER, UT

LOCATION.--Lat 38°59'10", long 110°09'02", in NW1/4NW1/4SW1/4 sec.15, T.21 S., R.16 E., Emery County, Hydrologic Unit 14060008, on right bank 100 ft upstream from site of old highway bridge, 500 ft upstream from railroad bridge, 1.1 mi southeast of town of Green River, 22.5 mi upstream from San Rafael River, at mile 117.4 upstream from mouth.

DRAINAGE AREA.--44,850 mi^2 approximately, of which about 4,260 mi^2 (including 3,959 mi^2 in Great Divide Basin in southern Wyoming) is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to October 1899, October 1904 to current year. Published as "at Blake" 1894-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23.

REVISED RECORDS.--WSP 918: 1895-1900. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft NGVD of 1929. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi downstream at different datum. June 21 to Sept. 18, 1924, chain gage, and Sept. 19, 1924 to May 7, 1947, water-stage recorder, at site 100 ft downstream at present datum.

REMARKS.--Records good. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

AVERAGE DISCHARGE.--84 years, 6,316 ft^3/s, 4,576,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft^3/s June 27, 1917, gage height, 14.53 ft, site and datum then in use; minimum, 255 ft^3/s Nov. 26, 1931; minimum gage height, 4.08 ft Aug. 1, Dec. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 17,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 14	2230	17,600	10.07
June 27	0515	*44,800	15.34

Minimum daily, 1,510 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7890	7330	6260	1590	4590	5920	5160	11700	33100	39600	12900	5930
2	7810	7200	6190	1540	4520	7070	5150	11200	35600	37000	12600	5430
3	7110	5390	6640	1530	4690	6700	5600	11600	37400	34700	12000	5080
4	6910	4470	6590	1830	4390	7530	5710	12100	38300	32400	12200	5290
5	6500	5190	6680	2000	4240	8370	6090	11900	38100	30700	12100	5590
6	5880	6290	6690	2500	3680	8080	6090	12000	36900	29100	12000	6400
7	6210	6860	6560	2750	3660	8650	5650	11400	36000	28500	11800	6590
8	6620	6590	6470	2630	3980	9300	5430	10600	35800	27500	11700	6510
9	7850	5710	6500	3000	5130	8820	5720	11400	35800	25600	11700	5970
10	8300	6570	6600	2840	5330	7920	5760	12400	36500	25100	11500	6350
11	8590	7440	6420	3020	5310	7190	5740	12300	36100	26300	11400	6460
12	8790	7210	6100	3230	5000	6730	6040	12300	35600	27000	11200	6540
13	8670	7280	4630	3200	4760	6480	6540	14700	37000	25600	10800	5920
14	8750	7100	5380	3130	4660	6350	6840	17100	38600	24000	10100	6290
15	8790	6970	6280	3320	4640	7000	7470	17100	39800	22000	9000	5960
16	8790	6810	6080	3790	4830	8320	7500	15800	39800	20500	8460	5980
17	8750	6630	6120	4650	4860	8720	7480	14700	38000	19200	8200	6050
18	8630	6460	5730	4500	5000	9100	7370	13700	34600	18300	7910	5830
19	8510	6260	4890	4270	5010	8750	6590	13200	32500	17800	7810	5680
20	8270	6150	4970	4200	4940	8060	5400	14000	33100	17100	7890	5590
21	8240	6050	5040	4060	5110	7380	5070	14100	35200	15900	7960	5490
22	7790	6090	5500	4660	4460	6840	5810	14100	37900	15300	7900	5630
23	7430	6560	6090	4760	4280	6490	6890	13700	39600	14300	7650	5830
24	7400	6710	6080	5200	4390	6120	7860	14900	41200	13700	7590	6010
25	7350	6550	5490	5410	4420	5880	8520	16000	42600	14300	7260	6010
26	7250	6230	5100	5570	4660	5930	9470	18200	43700	15100	6940	6110
27	7210	6060	4440	5100	4360	5930	9990	21200	44200	15300	6770	6250
28	6890	5490	3280	4700	4670	5880	9750	24300	42800	14700	6630	6100
29	6880	5920	2000	4580	---	5910	12100	26300	41600	13500	6550	6090
30	7450	6190	1510	4610	---	5910	12800	29000	41100	12800	6430	7170
31	7210	---	1590	4630	---	5650	---	31300	---	12600	6170	---
TOTAL	238720	191760	167900	112800	129570	222980	211590	484300	1138500	685500	291120	180130
MEAN	7701	6392	5416	3639	4628	7193	7053	15620	37950	22110	9391	6004
MAX	8790	7440	6690	5570	5330	9300	12800	31300	44200	39600	12900	7170
MIN	5880	4470	1510	1530	3660	5650	5070	10600	32500	12600	6170	5080
AC-FT	473500	380400	333000	223700	257000	442300	419700	960600	2258000	1360000	577400	357300

CAL YR 1982	TOTAL	2465020	MEAN	6753	MAX	19900	MIN	1420	AC-FT	4889000
WTR YR 1983	TOTAL	4054870	MEAN	11110	MAX	44200	MIN	1510	AC-FT	8043000

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mi from gaging station.

PERIOD OF RECORD.--August 1928 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1941 to September 1981, March 1982 to current year.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1930 to current year.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,250 micromhos Dec. 1, 1967; minimum daily, 255 micromhos June 30, 1978.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 66,000 mg/L July 11, 1936; minimum daily, 19 mg/L Sept. 30, 1974.
SEDIMENT LOADS: Maximum daily, 2,230,000 tons July 11, 1936; minimum daily, 54 tons Sept. 27, 1956.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 960 micromhos Mar. 5; minimum daily, 400 micromhos June 23, 25, 26, 30, July 2.
WATER TEMPERATURES: Maximum, 25.0°C Aug. 13, 15, 16, 17; minimum observed, 0.0°C several days during December and January.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,650 mg/L Oct. 2; minimum daily mean, 64 mg/L Jan. 2, 3.
SEDIMENT LOADS: Maximum daily, 562,000 tons June 4; minimum daily, 264 tons Jan. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
20...	1130	8400	710	8.0	11.5	10.0	130	9.5	662	160
NOV										
22...	1400	5770	880	8.2	5.5	3.0	--	11.2	655	--
DEC										
28...	1045	3390	750	8.2	-1.0	.0	28	--	666	<1
JAN										
24...	1230	5330	810	8.0	7.5	.5	--	11.8	661	--
FEB										
22...	1130	4490	790	8.0	11.5	2.0	110	12.8	664	K19
MAR										
25...	1300	5910	810	8.4	13.5	7.5	--	11.1	661	--
APR										
26...	1100	9100	870	8.3	14.5	12.5	720	8.0	656	<1
MAY										
26...	1215	17700	670	8.3	30.0	18.5	--	7.7	651	--
JUN										
23...	1130	40200	400	8.2	34.0	18.0	310	7.8	662	K8
JUL										
21...	1230	15500	710	8.2	29.0	19.5	--	7.6	650	--
AUG										
29...	1100	6660	770	8.2	26.5	21.5	200	7.4	658	K62
SEP										
06...	1200	6160	830	8.2	30.0	22.0	--	7.3	656	--

K Results based on colony count outside acceptable range (nonideal colony count).

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 20...	190	259	110	59	27	65	35	1.8	2.3
NOV 22...	--	304	130	69	32	73	34	1.9	2.4
DEC 28...	K50	287	100	67	29	68	34	1.8	2.4
JAN 24...	--	271	100	64	27	60	32	1.6	2.2
FEB 22...	K81	282	110	63	30	72	36	1.9	2.1
MAR 25...	--	297	--	68	31	73	35	1.9	2.7
APR 26...	<1	306	--	66	34	76	35	1.9	2.2
MAY 26...	--	250	--	59	25	44	27	1.2	2.6
JUN 23...	K100	157	--	38	15	29	28	1.0	2.0
JUL 21...	--	241	--	62	21	45	29	1.3	2.3
AUG 29...	190	264	--	61	27	70	36	1.9	2.8
SEP 06...	--	282	--	65	29	70	35	1.9	2.9

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 20...	154	220	25	.3	5.6	494	497	.67	11200
NOV 22...	170	250	24	.3	5.3	--	558	.76	8690
DEC 28...	184	230	22	.3	6.1	553	535	.75	5060
JAN 24...	170	210	19	.3	6.3	--	491	.67	7060
FEB 22...	170	220	25	.3	6.4	529	522	.72	6410
MAR 25...	181	220	23	.3	7.7	--	534	.73	8530
APR 26...	179	270	20	.3	6.9	589	584	.80	14500
MAY 26...	160	160	13	.3	11	--	411	.56	19600
JUN 23...	111	98	9.3	.2	8.1	267	266	.36	29000
JUL 21...	137	190	14	.3	7.3	--	424	.58	17800
AUG 29...	167	210	22	.3	8.9	505	503	.69	9080
SEP 06...	177	210	24	.3	8.3	--	516	.70	8580

K Results based on colony count outside acceptable range (nonideal colony count).

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT									
20...	0.10	0.06	0.08	1.20	0.18	0.55	0.03	<0.01	0.06
NOV									
22...	0.14	--	--	--	--	--	--	<0.01	--
DEC									
28...	0.17	0.12	0.15	0.60	0.07	0.21	0.02	0.01	0.03
JAN									
24...	0.20	--	--	--	--	--	0.03	--	--
FEB									
22...	0.19	0.10	0.13	1.00	0.32	0.98	0.01	0.02	0.06
MAR									
25...	0.36	--	--	--	--	--	--	0.03	0.09
APR									
26...	0.40	0.09	0.12	2.50	0.45	1.4	0.02	0.02	0.06
MAY									
26...	0.41	--	--	--	--	--	--	0.01	0.03
JUN									
23...	--	--	--	--	--	--	--	--	--
JUL									
21...	0.15	--	--	--	--	--	--	<0.01	--
AUG									
29...	0.18	0.05	0.06	0.90	0.04	0.12	0.02	0.02	0.06
SEP									
06...	0.14	--	--	--	--	--	--	0.03	0.09

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT											
20...	1130	10	1	95	<1	<1	<1	<3	1	7	8
FEB											
22...	1130	20	1	110	<1	<1	<1	<3	<1	6	<1
APR											
26...	1100	20	2	170	<1	<1	<1	<3	2	18	1
AUG											
29...	1100	10	2	100	<1	<1	<1	<3	3	31	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
20...	32	3	<.1	<10	1	2	<1	670	<6.0	33
FEB										
22...	40	3	.1	<10	5	1	<1	700	<6.0	71
APR										
26...	45	3	3.0	<10	5	4	<1	740	<6.0	160
AUG										
29...	35	130	.2	<10	3	2	1	660	<6.0	45

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
NOV		
22...	1400	140
JAN		
24...	1230	140
MAR		
25...	1300	150
MAY		
26...	1215	110
JUL		
21...	1230	100
SEP		
06...	1200	170

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
DEC										
28...	1045	2.6	<13	3.8	<5.9	4.3	<5.7	4.1	.18	5.9
JUN										
23...	1130	41	<9.4	61	4.8	34	4.0	29	.06	2.8

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	950	770	740	840	760	930	900	610	500	420	720	800
2	---	770	710	910	770	890	900	620	490	400	730	800
3	930	780	---	---	790	---	---	660	---	410	700	---
4	850	810	---	900	790	---	890	680	490	---	700	---
5	840	---	740	900	790	960	860	---	---	430	720	---
6	840	---	700	920	800	930	870	---	480	440	720	810
7	820	770	680	---	810	890	---	---	480	---	---	810
8	760	780	---	---	810	850	880	690	460	---	---	790
9	---	780	670	720	800	840	---	680	---	450	720	790
10	760	790	690	---	790	830	880	660	480	470	720	790
11	---	810	710	750	790	---	---	---	490	490	720	780
12	---	810	740	730	780	860	860	660	490	470	740	---
13	760	800	---	720	770	860	850	610	490	480	790	780
14	760	810	750	660	770	870	---	590	480	500	---	800
15	---	820	720	750	790	870	840	550	470	---	780	790
16	---	820	---	770	780	870	840	530	470	530	780	790
17	750	790	---	770	770	---	860	520	460	550	750	800
18	760	800	720	770	770	800	860	580	460	570	760	800
19	760	820	730	780	780	790	850	640	470	580	760	800
20	760	830	750	790	800	800	860	610	460	630	---	800
21	760	830	690	780	800	780	870	630	450	630	770	800
22	770	830	700	760	830	800	---	700	440	---	760	800
23	---	---	740	---	860	820	870	700	430	---	760	810
24	---	800	690	750	---	---	870	---	410	660	850	840
25	750	800	---	750	---	920	860	---	400	720	---	---
26	750	800	700	760	870	---	880	670	400	720	760	840
27	750	810	740	770	870	920	790	610	430	750	790	870
28	760	820	750	770	890	930	750	560	---	680	790	870
29	760	820	830	780	---	910	710	540	---	660	790	880
30	770	---	---	780	---	900	680	520	400	710	770	900
31	770	---	940	---	---	900	---	490	---	---	770	---
MEAN	---	803	---	783	801	869	---	612	459	---	755	814

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	8.0	2.0	.0	1.5	6.0	10.0	11.5	17.0	19.0	22.0	24.0
2	---	7.0	3.0	.0	1.0	5.0	7.0	11.5	17.0	19.0	22.0	24.0
3	13.0	8.0	---	---	1.0	---	---	12.0	---	19.0	24.0	---
4	13.0	7.0	---	.0	1.0	---	7.0	13.0	16.0	---	24.0	---
5	12.0	---	2.5	.0	1.5	6.0	8.0	---	---	19.0	24.0	---
6	13.0	---	2.0	1.0	2.0	6.0	8.0	---	16.0	19.0	24.0	21.0
7	12.0	6.5	2.0	---	2.5	6.0	---	---	16.0	---	---	21.0
8	11.5	7.0	---	---	2.5	7.0	10.0	14.0	16.0	---	---	21.0
9	---	7.5	2.0	1.0	3.0	7.0	---	14.0	---	19.0	24.0	21.0
10	11.5	7.5	3.0	---	3.0	8.0	10.0	13.0	16.0	20.0	23.0	21.0
11	---	7.5	2.0	1.0	3.0	---	---	---	16.0	20.0	23.0	21.0
12	---	5.0	2.0	1.0	3.0	10.0	10.0	13.0	16.0	20.0	23.0	---
13	12.0	5.0	---	1.0	2.0	10.0	8.5	12.5	16.0	20.0	25.0	21.0
14	12.0	4.0	1.0	1.0	4.0	9.0	---	13.0	16.0	20.0	---	21.0
15	---	4.0	1.0	1.0	3.0	9.0	9.0	12.5	16.0	---	25.0	21.0
16	---	3.5	---	1.0	3.0	8.0	10.0	12.0	18.0	20.0	25.0	21.0
17	12.5	4.0	---	1.0	3.0	---	10.5	12.0	18.0	20.0	25.0	20.0
18	12.0	4.0	1.0	1.0	2.5	7.0	10.5	11.5	20.0	21.0	24.0	20.0
19	11.0	3.5	1.0	1.0	3.0	7.0	13.0	12.0	18.0	20.0	24.5	19.0
20	11.0	3.5	.0	2.0	3.0	6.0	13.5	12.5	18.0	20.0	---	17.0
21	10.0	3.0	.0	1.0	2.0	6.5	14.0	13.5	18.0	20.0	24.0	16.0
22	10.0	3.0	1.0	1.0	3.0	7.5	---	15.0	18.0	---	22.0	16.0
23	---	---	1.0	---	4.0	7.0	15.0	16.0	18.0	---	22.0	16.0
24	---	3.0	1.0	1.0	---	---	15.0	---	18.0	21.0	22.0	18.0
25	10.0	2.5	---	1.5	---	8.0	13.0	---	18.0	21.0	---	---
26	10.0	3.0	1.0	1.5	4.0	---	14.0	18.5	18.0	21.0	23.5	18.0
27	10.5	1.0	.5	2.0	4.0	8.0	13.0	18.0	18.0	20.5	22.0	18.0
28	10.0	2.0	.5	3.0	6.0	8.0	12.0	18.0	---	21.0	22.0	16.0
29	8.0	2.0	.0	2.5	---	9.0	12.0	17.0	---	21.0	22.0	16.0
30	8.0	---	---	2.0	---	11.5	12.0	17.0	18.0	22.0	22.0	16.0
31	8.0	---	.0	---	---	9.5	---	17.0	---	---	23.0	---
MEAN	---	4.5	---	1.0	3.0	7.5	---	14.0	17.0	---	23.5	19.5

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5100	109000	280	5540	178	3010	73	313	93	1150	820	13100
2	5650	119000	247	4800	152	2540	64	266	79	964	1500	28600
3	5040	96800	196	2850	193	3460	64	264	87	1100	1410	25500
4	1990	37100	211	2550	215	3830	109	539	85	1010	1830	37200
5	2290	40200	274	3840	218	3930	309	1670	77	881	2620	59200
6	1900	30200	320	5430	175	3160	287	1940	70	696	2230	48600
7	1990	33400	333	6170	163	2890	284	2110	86	850	2080	48600
8	1810	32400	316	5620	161	2810	300	2130	98	1050	2590	65000
9	1550	32900	183	2820	150	2630	319	2580	190	2630	2640	62900
10	1340	30000	224	3970	136	2420	331	2540	235	3380	2250	48100
11	1120	26000	272	5460	141	2440	342	2790	231	3310	1900	36900
12	1020	24200	269	5240	149	2450	346	3020	194	2620	1560	28300
13	890	20800	260	5110	131	1640	334	2890	164	2110	1170	20500
14	830	19600	247	4730	160	2320	282	2380	200	2520	1000	17100
15	800	19000	230	4330	175	2970	226	2030	241	3020	940	17800
16	760	18000	209	3840	170	2790	206	2110	269	3510	1400	31400
17	660	15600	188	3370	193	3190	185	2320	246	3230	1680	39600
18	600	14000	161	2810	210	3250	147	1790	215	2900	2350	57700
19	490	11300	161	2720	199	2630	140	1610	201	2720	2260	53400
20	470	10500	160	2660	206	2760	154	1750	210	2800	1940	42200
21	400	8900	150	2450	221	3010	181	1980	398	5490	1650	32900
22	320	6730	132	2170	210	3120	200	2520	380	4580	1200	22200
23	320	6420	158	2800	207	3400	187	2400	365	4220	870	15200
24	340	6790	159	2880	205	3370	186	2610	395	4680	610	10100
25	370	7340	154	2720	198	2930	201	2940	412	4920	460	7300
26	360	7050	120	2020	182	2510	208	3130	483	6080	430	6880
27	280	5450	121	1980	163	1950	147	2020	430	5060	420	6720
28	180	3350	119	1760	141	1250	100	1270	344	4340	330	5240
29	280	5200	130	2080	108	583	94	1160	---	---	300	4790
30	600	12100	161	2690	98	400	134	1670	---	---	280	4470
31	420	8180	---	---	86	369	135	1690	---	---	305	4650
TOTAL	---	817510	---	107410	---	80012	---	60432	---	81821	---	902150

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	295	4110	2290	72300	4660	416000	2180	233000	1900	66200	270	4320
2	350	4870	2260	68300	4920	473000	1700	170000	3000	102000	300	4400
3	550	8320	2050	64200	5410	546000	1520	142000	3120	101000	250	3430
4	405	6240	2530	82700	5430	562000	1630	143000	2140	70500	230	3290
5	605	9950	2480	79700	5190	534000	1680	139000	1970	64400	305	4600
6	660	10900	2490	80700	4440	442000	1600	126000	1270	41100	345	5960
7	500	7630	2370	72900	3660	356000	1540	119000	1210	38600	367	6530
8	430	6300	2040	58400	3010	291000	1520	113000	1210	38200	333	5850
9	600	9270	2250	69300	2880	278000	1480	102000	1190	37600	315	5080
10	680	10600	2650	88700	2960	292000	1460	98900	1200	37300	304	5210
11	580	8990	2380	79000	2450	239000	1850	131000	1300	40000	251	4380
12	500	8150	2480	82400	2140	206000	1750	128000	1450	43800	262	4630
13	550	9710	3370	134000	2460	246000	1250	86400	1390	40500	243	3880
14	520	9600	4130	191000	2540	265000	1160	75200	2150	58600	284	4820
15	670	13500	3860	178000	2040	219000	1160	68900	2130	51800	222	3570
16	650	13200	3210	137000	1750	188000	1200	66400	2410	55000	154	2490
17	870	17600	2890	115000	1730	177000	1250	64800	1620	35900	240	3920
18	785	15600	2540	94000	1900	177000	1230	60800	1640	35000	312	4910
19	530	9430	2260	80500	2090	183000	1090	52400	910	19200	311	4770
20	440	6420	2400	90700	1850	165000	1070	49400	730	15600	284	4290
21	285	3900	2290	87200	1620	154000	1160	49800	740	15900	188	2790
22	470	7370	2990	114000	1780	182000	1150	47500	750	16000	150	2280
23	800	14900	2870	106000	1930	206000	1030	39800	600	12400	130	2050
24	1210	25700	2900	117000	1500	167000	1000	37000	1690	34600	225	3650
25	1520	35000	2790	121000	1660	191000	1130	43600	1640	32100	277	4490
26	2000	51100	2310	114000	2320	274000	2850	116000	1230	23000	278	4590
27	2520	68000	3060	175000	2740	327000	4320	178000	680	12400	284	4790
28	2370	62400	5070	333000	2610	302000	2510	99600	480	8590	2310	38000
29	3510	115000	5270	374000	2510	282000	1490	54300	380	6720	2130	35000
30	3340	115000	5160	404000	2370	263000	1380	47700	330	5730	2940	56900
31	---	---	4930	417000	---	---	1320	44900	300	5000	---	---
TOTAL	---	688760	---	4281000	---	8603000	---	2927400	---	1164740	---	244870

TOTAL LOAD FOR YEAR: 19959105 TONS.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
JAN 24...	1230	5330	0.5	80	190	2730	--	--	--	--
FEB 22...	1130	4490	2.0	92	429	5200	34	36	55	90
MAR 25...	1145	5910	7.5	--	549	8760	46	55	75	86
APR 26..	1230	9900	12.5	--	2340	62500	32	39	58	82
MAY 26...	1140	17700	18.5	--	2070	98900	38	50	83	99
JUN 23...	1130	39900	18.0	50	1050	113000	25	28	45	77
JUL 21...	1200	15500	19.5	--	1270	53100	17	43	79	98
AUG 29...	1100	6630	21.5	95	540	9670	40	47	70	82
SEP 06...	1220	6160	22.0	--	466	7750	22	30	54	66

09316100 FLOY WASH NEAR GREEN RIVER, UT

LOCATION.--Lat 38°55'24", long 109°56'30", in SE1/4SW1/4 sec.4, T.22 S., R.18 E., Grand County, Hydrologic Unit 14060008, on left bank, 200 ft below Amtrak Railroad and 7.3 mi west of Crescent Junction.

DRAINAGE AREA.--56.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1983.

GAGE.--Water-stage recorder. Altitude of gage is 4,590 ft from topographic map.

REMARKS.--Records good. Diversions for irrigation of approximately 200 acres above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 695 ft^3/s Sept. 30, gage height, 7.80 ft; minimum daily, 0.04 ft^3/s several days in August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.51	.60	.28	.11	.06
2							---	.51	.56	.28	.10	.25
3							---	.49	.53	.25	.10	.07
4							---	.47	.53	.28	.13	.06
5							---	.46	.56	.28	.11	.06
6							---	.49	.56	.25	6.6	.06
7							---	.52	.53	.28	.06	.06
8							---	.52	.48	.28	.05	.06
9							---	.51	.46	.28	.05	.06
10							---	.53	.48	.25	.06	.06
11							---	.57	.48	.23	.06	.06
12							---	.59	.64	.25	12	.06
13							---	.57	.36	.25	.06	.06
14							---	.62	.36	.23	.04	.06
15							.30	.60	.31	.23	.04	.06
16							.33	.78	.28	.23	.04	.07
17							.33	.64	.28	.25	.04	.07
18							.34	.56	.23	.23	.73	.07
19							.34	.60	.20	.25	5.9	.06
20							.34	.60	.20	1.4	.08	.06
21							.35	.52	.23	.20	.08	.06
22							.35	.51	.23	.09	.07	.06
23							.33	.51	.18	.10	.07	.06
24							.32	.53	.25	.11	.07	.06
25							.33	.48	.31	.10	.07	.06
26							.35	.48	13	.10	.08	.06
27							.35	.53	.50	.11	.10	.08
28							.38	.53	.30	.10	.08	.06
29							.43	.53	.28	.11	.08	.07
30							.49	.56	.25	.10	.08	18
31							---	.60	---	.11	.06	---
TOTAL							---	16.92	24.16	7.49	27.20	20.00
MEAN							---	.55	.81	.24	.88	.67
MAX							---	.78	13	1.4	12	18
MIN							---	.46	.18	.09	.04	.06
AC-FT							---	34	48	15	54	40

09316100 FLOY WASH NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to July 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
APR									
26...	1050	0.31	3640	8.3	14.0	15.5	120	170	540
MAY									
25...	0945	0.63	3300	8.4	20.5	16.5	110	180	450
JUN									
28...	1030	0.36	3700	8.3	24.0	24.0	150	170	530
JUL									
29...	1000	0.11	3760	8.4	31.0	20.0	140	180	570

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
APR								
26...	3.9	340	1700	47	0.2	16	<0.1	0.00
MAY								
25...	4.2	400	1400	42	0.2	16	<0.1	0.00
JUN								
28...	5.4	370	1700	52	0.3	17	<0.1	0.03
JUL								
29...	4.0	340	1800	49	0.3	17	<0.1	0.02

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
APR		
26...	1050	170
MAY		
25...	0945	140
JUN		
28...	1030	180
JUL		
29...	1000	190

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR					
26...	1050	0.31	15.5	28	0.02
MAY					
25...	0945	0.63	16.5	671	1.1
JUN					
28...	1030	0.36	24.0	201	0.2

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT

LOCATION.--Lat 39°27'48", long 111°08'54", in NW1/4SE1/4NW1/4 sec.4, T.16 S., R.7 E., Emery County, Hydrologic Unit 14060009, on right bank 0.1 mi from State Highway 31, 15.5 mi northwest of Huntington.

DRAINAGE AREA.--5.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year (seasonal records).

GAGE.--Water-stage recorder. Altitude of gage is 7,350 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 88 ft^3/s May 30, 1983; minimum, 0.24 ft^3/s Mar. 10, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 88 ft^3/s May 30; minimum daily, 0.40 ft^3/s Nov. 15 (may have been lower during period of nonoperation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.5					---	3.8	70	22	6.9	2.9
2	1.3	1.4					---	4.2	58	21	6.9	2.9
3	1.3	1.3					---	4.5	55	18	7.9	2.6
4	1.3	1.2					---	4.7	51	15	6.5	3.2
5	1.3	1.2					---	5.3	49	14	5.9	2.4
6	1.2	1.3					---	5.7	45	13	5.5	2.4
7	1.3	1.2					---	5.7	47	12	6.6	2.4
8	1.3	1.5					---	6.5	52	14	5.9	2.4
9	1.2	2.0					---	6.9	50	15	5.0	2.4
10	1.3	.90					---	7.9	50	13	4.2	1.9
11	1.4	.80					---	7.9	52	13	4.0	1.9
12	1.4	.60					---	7.4	53	12	4.9	1.9
13	1.3	.60					---	7.9	48	10	4.2	1.9
14	1.3	.50					---	8.4	42	10	4.2	1.6
15	1.2	.40					---	8.4	37	10	3.8	1.6
16	1.2	.45					---	8.4	38	10	3.8	1.6
17	1.3	---					---	8.4	42	10	3.8	1.6
18	1.3	---					---	8.4	45	8.9	4.2	1.6
19	1.2	---					---	8.9	45	8.9	3.8	1.6
20	1.3	---					---	9.4	42	8.9	3.8	1.4
21	1.3	---					---	11	41	8.4	3.5	1.4
22	1.3	---					2.5	13	38	7.9	3.2	1.4
23	1.4	---					2.6	15	37	7.9	3.2	1.4
24	1.4	---					3.2	19	35	7.4	3.5	1.4
25	1.6	---					2.9	28	35	7.9	2.9	1.2
26	1.6	---					2.9	33	32	7.4	2.6	1.2
27	1.4	---					2.9	33	29	7.4	2.6	2.1
28	1.3	---					3.5	42	27	6.9	2.6	1.4
29	3.5	---					3.8	76	24	6.9	2.6	1.6
30	1.9	---					3.8	88	23	6.5	2.6	2.1
31	1.7	---					---	83	---	6.9	2.6	---
TOTAL	44.1	---					---	579.7	1292	340.2	133.7	57.4
MEAN	1.42	---					---	18.7	43.1	11.0	4.31	1.91
MAX	3.5	---					---	88	70	22	7.9	3.2
MIN	1.2	---					---	3.8	23	6.5	2.6	1.2
AC-FT	87	---					---	1150	2560	675	265	114

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: November 1978 to September 1981, periodically (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)
JUN									
10...	0930	49	440	8.2	16.5	6.0	9.7	584	0.4
JUL									
08...	0940	14	440	8.6	18.5	9.0	8.5	585	0.62
AUG									
10...	0950	4.0	480	8.4	20.0	11.5	8.2	583	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUN									
10...	61	22	4.5	0.5	20	3.4	0.2	5.2	252
JUL									
08...	61	25	4.8	1.1	23	3.9	0.2	5.3	235
AUG									
10...	59	29	5.6	1.4	30	5.2	0.1	6.1	269

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN								
10...	1.20	0.2	0.06	1.0	0.2	0.08	0.25	0.00
JUL								
08...	1.40	0.12	0.06	0.9	0.5	0.03	0.09	0.00
AUG								
10...	0.4	<0.1	0.06	0.00	0.4	0.05	0.15	0.03

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
JUN											
10...	0930	1	0.00	1	--	--	--	<10.00	<0.50	20.00	<1
JUL											
08...	0940	--	--	--	--	--	--	--	--	20.00	--
AUG											
10...	0950	1	0.00	1	100	40.00	60.00	<10.00	<0.50	20.00	<1

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
JUN 10...	<1	20	<10	7.00	6.00	1	4400	4400	10	7.00	6.00
JUL 08...	--	--	--	--	--	--	350	330	20	--	--
AUG 10...	<1	<10	<10	3.00	--	<1	380	380	5.00	2.00	0.00

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)
JUN 10...	1	--	--	--	150	140	14	0.2	0.0	0.4	30
JUL 08...	--	--	--	--	20	10	6	--	--	--	--
AUG 10...	2	10	0.00	20	30	10	17	1.0	0.1	0.9	10

DATE	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 10...	30	1	1	0.00	1	--	--	--	80	8.00	70
JUL 08...	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	9.00	3	1	0.00	1	200	10	190	30	--	<3.00

DATE	TIME	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
AUG 10...	0950	1	1.00	2.00	10	2.00	1000	10	100	0.01	1	6.00

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
JUN 10...	0930	3.7	3.2	--	--
JUL 08...	0940	2.6	0.2	--	14
AUG 10...	0950	2.3	0.1	<0.00	5

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE1/4SE1/4SE1/4 sec.14, T.17 S., R.4 E., Sanpete County, Hydrologic Unit 14060009, at east tunnel portal, 9.0 mi east of Ephraim.

PERIOD OF RECORD.--September 1949 to current year. Monthly discharge only for September 1949 to September 1960; figures of daily discharge available in Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 9,694.9 ft NGVD of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records fair. Flow is seasonal. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin. Due to location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft^3/s June 6, 1964, gage height, 5.43 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98 ft^3/s July 25, gage height, 4.92 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	6.6	2.3	16	.00
2								---	9.0	2.6	14	.00
3								---	8.6	3.1	13	.00
4								---	7.5	2.3	13	.00
5								---	6.8	2.1	16	.00
6								---	7.3	2.1	12	.00
7								---	7.5	1.8	12	.00
8								---	7.5	2.0	9.7	.00
9								---	7.5	1.8	8.4	.00
10								---	6.4	.85	7.5	.00
11								---	6.2	.15	7.7	.00
12								---	5.3	.06	7.1	.00
13								---	3.4	.09	5.5	.00
14								---	2.6	.09	4.9	.00
15								---	2.8	.06	8.4	.00
16								---	3.4	.06	7.1	.05
17								---	5.1	.09	6.4	.05
18								---	6.0	.12	12	.06
19								---	5.5	10	6.8	.12
20								---	5.1	16	4.9	.18
21								---	4.9	13	4.0	.21
22								.04	4.5	15	3.3	.12
23								.05	4.2	14	1.3	.00
24								.18	4.5	13	.00	.00
25								.36	3.8	27	.00	.00
26								1.5	3.1	14	.00	.00
27								3.0	3.4	21	.00	.00
28								5.3	3.8	12	.00	.00
29								13	3.4	14	.00	.00
30								21	2.3	15	.00	.00
31								19	---	20	.00	---
TOTAL								---	158.0	225.67	201.00	.79
MEAN								---	5.27	7.28	6.48	.03
MAX								---	9.0	27	16	.21
MIN								---	2.3	.06	.00	.00
AC-FT								---	313	448	399	1.6

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW1/4SW1/4SE1/4 sec.16, T.16 S., R.5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi east of Spring City.

PERIOD OF RECORD.--October 1949 to current year. Monthly discharges only for October 1949 to September 1960. Figures of daily discharge available from Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 9,838 ft NGVD of 1929 (by plane table closed traverse by U.S. Geological Survey, Topographic Division). Prior to Aug. 24, 1960, at datum about 0.3 ft higher.

REMARKS.--Records fair. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111 ft^3/s July 23, 1965; possibly no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft^3/s June 7, gage height, 2.59 ft; minimum daily, 0.50 ft^3/s July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	32	1.0	9.7	2.9
2								.95	28	1.0	7.6	2.8
3								.94	26	1.1	7.0	3.3
4								1.0	38	.97	7.0	5.1
5								1.2	42	.97	6.6	2.8
6								1.2	51	.97	6.2	2.7
7								1.2	53	.99	5.7	2.6
8								1.5	42	1.0	5.5	2.6
9								1.7	31	.97	5.5	2.6
10								1.4	.99	.86	5.2	2.4
11								1.3	.90	.79	6.2	2.3
12								1.3	.82	.74	5.6	2.2
13								1.3	.74	.72	5.0	2.2
14								1.2	.70	.68	4.8	2.1
15								1.2	.66	.63	5.2	2.1
16								1.3	.71	.54	4.9	2.0
17								1.2	.76	.50	4.7	1.9
18								1.2	.88	.57	5.8	1.9
19								1.2	1.1	.55	4.7	1.8
20								1.2	1.1	8.0	4.2	1.8
21								1.4	1.1	18	4.1	1.8
22								2.2	1.1	18	3.9	1.8
23								3.2	1.1	18	3.7	2.2
24								4.8	1.2	15	3.9	1.8
25								6.2	1.1	22	3.5	1.7
26								8.8	1.0	16	3.2	1.8
27								13	1.0	17	3.2	2.6
28								17	1.1	13	3.2	2.0
29								19	1.1	11	3.2	2.0
30								30	1.1	10	3.1	3.2
31								29	---	12	2.9	---
TOTAL								---	363.26	193.55	155.0	71.0
MEAN								---	12.1	6.24	5.00	2.37
MAX								---	53	22	9.7	5.1
MIN								---	.66	.50	2.9	1.7
AC-FT								---	721	384	307	141

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°17'20", long 111°16'10", in NW1/4NE1/4 sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi upstream from Cottonwood Creek, and 12.6 mi west of Orangeville.

DRAINAGE AREA.--146 mi^2.

PERIOD OF RECORD.--November 1965 to current year.

GAGE.--Mercury gage in control house at downstream end of outlet tunnel. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began Nov. 3, 1965. Usable capacity, 54,610 acre-ft between elevations 6,910.0 and 6,989.7 ft above mean sea level. Dead storage, 870 acre-ft between elevations 6,817.0 and 6,866.5 ft. Inactive storage, 6,980 acre-ft between elevations 6,866.5 and 6,910.0 ft. Figures given herein represent total contents. Water is used for irrigation. Huntington North Reservoir, a small off-channel reservoir near Huntington, is operated in conjunction with Joes Valley Reservoir; records not included.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 66,030 acre-ft June 20, 21, 1983; minimum observed since reservoir was first filled, 7,710 acre-ft Oct. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 66,030 acre-ft June 20, 21, elevation, 6,992.7 ft; minimum observed, 36,730 acre-ft, May 23, elevation, 6,963.8 ft.

Capacity table (elevation, in feet, and total contents, in acre-feet)

6,960	33,720	6,980	51,700
6,965	37,710	6,985	57,090
6,970	42,010	6,990	62,810
6,975	46,660	6,995	68,850

RESERVOIR STORAGE (ACRE-FEET) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51590	52320	---	---	55110	---	---	---	47350	65070	63400	---
2	---	52430	---	---	---	55000	---	40420	49640	---	---	60260
3	---	---	54240	---	---	---	---	---	51070	---	---	---
4	51380	---	---	---	54890	55000	50040	---	---	---	---	---
5	51380	52640	---	---	---	---	---	---	---	64950	63280	---
6	---	---	54460	---	---	---	---	39390	54030	---	---	58780
7	---	---	---	---	55000	55000	---	---	55000	---	---	---
8	51280	52750	---	---	---	---	48430	---	56540	64800	63280	---
9	---	---	---	---	---	---	---	38550	57650	---	63170	57650
10	---	---	---	---	---	---	---	---	59010	---	63280	---
11	---	---	---	---	55110	54890	47440	---	---	64470	63170	---
12	51380	53170	---	---	---	---	---	---	---	---	63170	56430
13	51800	---	---	55000	---	---	---	37880	63400	64110	---	---
14	---	---	---	---	55000	55000	---	---	63640	---	---	---
15	51800	53170	---	---	---	---	45700	---	63990	63990	63170	---
16	---	---	---	---	---	---	---	37800	64350	---	---	54730
17	---	---	55000	---	---	54890	---	---	64950	---	---	---
18	52010	---	---	---	55000	54890	44760	---	---	63760	---	---
19	52010	53600	---	55110	---	---	---	---	---	---	63050	53600
20	---	---	---	---	---	---	---	36810	66030	---	---	---
21	---	---	---	55110	---	54570	---	---	66030	---	---	---
22	52110	53600	---	---	54890	54460	43460	---	65910	63520	62930	---
23	---	---	---	---	---	54350	---	36730	65790	---	62810	51800
24	---	53710	---	55110	---	---	---	---	65670	---	62700	---
25	52220	---	---	---	54890	53710	42550	---	---	---	62580	---
26	---	---	---	---	---	---	---	37880	---	63520	62350	50660
27	---	---	---	---	---	---	---	38710	65190	---	---	50350
28	---	---	---	55110	55000	52750	---	---	---	---	---	---
29	52220	54030	---	---	---	52430	41390	---	---	63400	61530	---
30	---	a54030	---	---	---	---	a41040	43640	a65070	---	---	49440
31	a52320	---	54890	a55110	---	51700	---	45420	---	a63400	a60950	---
(#)	---	---	6983.0	---	6983.1	6980.0	---	6973.7	---	---	---	6977.8
(*)	+730	+1710	+860	+220	-110	-3300	-10660	+4380	+19650	-1670	-2450	-11510

CAL YR 1982 . . . . . (*) +15070
WTR YR 1983 . . . . . (*) -2150

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE RECORD, CONTENTS INTERPOLATED.

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°16'00", long 111°07'45", in NE1/4SW1/4SW1/4 sec.10, T.18 S., R.7 E., Emery County, Hydrologic Unit 14060009, on left bank 2 mi upstream from Grimes Wash, and 5 mi northwest of Orangeville.

DRAINAGE AREA.--208 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to July 1921, October 1921 to September 1927, May 1932 to September 1970, October 1975 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,050 ft from topographic map. Prior to Aug. 11, 1921 staff gages, and Aug. 11, 1921 to Sept. 30, 1970, water-stage recorder, at several sites in vicinity of present gage at different datums.

REMARKS.--Records fair. Flow regulated by Joes Valley Reservoir, 09323900, (see preceding page) 8 mi upstream, constructed by Bureau of Reclamation in fall of 1965. Small diversions for irrigation above station. Ephraim and Spring City Tunnels (see stations 09319000, 09323000) constructed by Bureau of Reclamation in 1936 and 1938, respectively, and several small tunnels and ditches divert from headwaters of Cottonwood Creek to the Great Basin for irrigation in San Pitch River basin.

AVERAGE DISCHARGE.--63 years (1909-20, 1921-27, 1932-70, 1975-83), 97.6 ft^3/s, 70,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,220 ft^3/s Aug. 1, 1964, gage height, 9.05 ft from high-water mark, at site then in use, from slope-area measurement of peak flow; minimum observed, 1.2 ft^3/s Apr. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,000 ft^3/s June 20-22; minimum, 14 ft^3/s Nov. 3. Peaks above base of 900 ft^3/s not determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	40	20	37	41	43	284	306	378	1100	210	267
2	104	24	20	37	42	44	284	329	352	1100	210	269
3	104	15	17	37	39	46	282	365	451	1100	210	272
4	77	15	18	37	39	46	281	361	466	1100	210	275
5	56	17	18	37	41	45	282	317	469	560	195	272
6	45	20	17	37	42	46	281	323	466	560	180	272
7	45	20	17	37	41	46	283	350	466	450	180	275
8	45	21	17	37	41	46	284	321	466	450	180	272
9	44	21	20	37	41	47	285	325	448	475	175	272
10	45	21	20	37	42	47	286	324	455	475	180	272
11	45	20	20	37	42	48	284	322	496	475	170	272
12	42	20	18	37	42	48	281	322	500	475	160	272
13	37	20	18	37	41	48	281	320	890	475	160	275
14	37	18	20	37	42	48	281	320	892	475	160	272
15	37	17	20	37	42	46	284	320	886	475	146	272
16	37	17	20	37	42	47	285	318	818	475	146	272
17	37	17	36	40	42	65	280	296	892	475	146	269
18	37	21	36	40	42	97	285	295	970	380	142	269
19	40	20	37	40	42	97	290	291	1160	380	154	269
20	45	21	37	40	42	98	295	306	2000	380	147	269
21	45	20	37	40	42	110	290	303	2000	380	139	269
22	45	17	37	39	42	153	300	300	2000	270	129	269
23	45	17	39	39	43	206	306	303	1900	270	166	272
24	45	17	41	40	43	230	309	303	1800	270	199	272
25	45	17	38	41	43	238	339	303	1800	270	216	272
26	45	17	37	41	43	250	342	306	1800	270	231	272
27	45	17	37	41	42	249	318	309	1900	270	243	225
28	45	17	37	41	42	248	306	315	1900	270	243	225
29	45	17	37	41	---	265	312	321	1900	210	256	225
30	45	21	37	41	---	285	321	342	1900	210	272	200
31	45	---	37	41	---	284	---	405	---	210	269	---
TOTAL	1564	582	860	1197	1168	3616	8821	9941	32821	14735	5824	7930
MEAN	50.5	19.4	27.7	38.6	41.7	117	294	321	1094	475	188	264
MAX	110	40	41	41	43	285	342	405	2000	1100	272	275
MIN	37	15	17	37	39	43	280	291	352	210	129	200
AC-FT	3100	1150	1710	2370	2320	7170	17500	19720	65100	29230	11550	15730

CAL YR 1982	TOTAL	38571	MEAN	106	MAX	580	MIN	10	AC-FT	76510
WTR YR 1983	TOTAL	89059	MEAN	244	MAX	2000	MIN	15	AC-FT	176600

NOTE.--No gage-height record June 19 to July 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT												
05...	1400	47	395	8.6	10.5	10.0	200	4.0	45	21	9.4	9
NOV												
16...	1400	23	450	8.5	5.0	0.0	210	4.3	44	25	13	12
DEC												
15...	1430	23	430	8.4	0.0	0.0	240	4.7	50	27	15	12
JAN												
20...	1300	38	440	8.2	2.0	0.0	230	4.6	50	25	12	10
FEB												
16...	1405	42	430	8.4	4.5	4.0	230	4.6	50	26	13	11
MAR												
23...	1245	229	410	8.5	4.5	4.5	230	4.6	50	25	13	11
APR												
21...	1045	285	410	8.4	8.0	5.0	220	4.5	48	25	15	13
MAY												
18...	1500	305	430	8.6	8.0	12.0	230	4.6	50	25	15	12
JUN												
14...	1315	795	400	8.6	24.0	12.0	220	4.3	50	22	11	10
JUL												
12...	1300	480	365	8.5	29.0	15.5	190	3.9	48	18	6.7	7
AUG												
17...	1130	136	360	8.5	29.0	22.0	200	3.9	44	21	9.7	10
SEP												
02...	0940	251	365	8.3	19.0	10.0	190	3.9	48	18	7.4	8

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT												
05...	0.3	1.0	200	22	4.4	0.1	4.3	226	0.31	28.8	0.23	0.01
NOV												
16...	0.4	1.1	190	38	6.3	0.1	2.8	242	0.33	14.7	<0.1	0.01
DEC												
15...	0.4	0.7	220	36	6.7	0.1	3.4	271	0.37	16.9	<0.1	0.02
JAN												
20...	0.4	0.8	220	29	5.2	0.1	3.0	256	0.35	26.2	<0.1	0.01
FEB												
16...	0.4	1.1	210	28	6.1	0.2	3.6	252	0.34	28.6	<0.1	0.01
MAR												
23...	0.4	0.8	220	26	5.7	0.2	3.3	255	0.35	158	5.7	0.04
APR												
21...	0.4	1.0	210	24	5.9	0.1	2.9	248	0.34	191	<0.1	0.00
MAY												
18...	0.4	1.2	210	27	7.1	0.1	3.0	256	0.35	211	<0.1	0.00
JUN												
14...	0.3	1.1	220	21	4.8	0.2	3.9	245	0.33	525	0.21	0.00
JUL												
12...	0.2	0.8	190	13	3.1	0.2	3.5	208	0.28	269	0.17	0.05
AUG												
17...	0.3	1.0	180	19	4.7	0.1	3.8	211	0.29	77.4	<0.1	0.00
SEP												
02...	0.2	0.9	190	16	3.5	0.1	3.7	214	0.29	145	0.22	0.00

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 05...	1400	20
NOV 16...	1400	20
DEC 15...	1430	20
JAN 20...	1300	20
FEB 16...	1405	20
MAR 23...	1245	30
APR 21...	1045	30
MAY 18...	1500	20
JUL 12...	1300	20
AUG 17...	1130	20
SEP 02...	0940	10

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
OCT 05...	1400	47	10.0	146	19	--	--	--	--
NOV 16...	1400	23	0.0	61	3.7	--	--	--	--
DEC 15...	1430	23	0.0	42	2.6	--	--	--	--
JAN 20...	1300	38	0.0	29	3.0	--	--	--	--
FEB 16...	1405	42	4.0	20	2.3	--	--	--	--
MAR 23...	1245	229	4.5	1440	890	14	14	22	54
APR 21...	1045	285	5.0	96	74	--	--	--	--
MAY 18...	1500	305	12.0	69	57	--	--	--	--
JUN 14...	1315	795	12.0	1360	2920	16	21	31	60
SEP 02...	0940	251	10.0	85	58	--	--	--	--

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'47", in NE1/4SE1/4SW1/4 sec.2, T.20 S., R.6 E., Emery County, Hydrologic Unit 14060009, on right bank 1.8 mi upstream from Dry Wash and 4.5 mi west of Ferron.

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--May 1911 to September 1923, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for station at site 2 mi downstream published as Ferron Creek near Ferron, Apr. 1909 to Oct. 1911, not equivalent because of diversions 1.5 mi downstream from present site.

REVISED RECORDS.--WSP 1243: 1951(P). WSP 1313: 1920(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft from topographic map. May 6, 1911 to Sept. 30, 1923, nonrecording gages in vicinity of present site at different datums. Dec. 19, 1947 to Sept. 30, 1966, at site 1.5 mi downstream at different datum.

REMARKS.--Records good except those for winter period and of no gage-height record June 19 to Aug. 17, which are poor. Slight regulation by small reservoir above station (capacity not known). Small diversions above station for irrigation, including a transmountain diversion to tributary of San Pitch River (Sevier Lake basin). Greater part of flow diverted during irrigation season by Upper North and Upper South Canals, 1.5 mi below station.

AVERAGE DISCHARGE.--48 years, 67.9 ft^3/s, 49,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft^3/s Aug. 27, 1952, gage height, 9.71 ft, site and datum then in use, from rating table extended above 400 ft^3/s on basis of slope-area measurements at gage heights 8.70 ft and 9.71 ft; site and datum then in use; no flow Oct. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 29	2300	988	5.80
June 10	2000	*993	5.81

Minimum, 6.9 ft^3/s Apr. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	34	22	10	13	17	22	49	663	660	260	51
2	43	31	18	11	11	17	21	53	614	650	215	58
3	43	23	17	10	11	17	20	80	570	620	205	50
4	42	30	14	11	12	18	19	114	531	620	215	67
5	43	30	15	12	11	17	18	126	512	600	200	48
6	35	29	15	11	11	17	17	94	545	600	190	46
7	37	29	14	11	12	18	18	84	622	600	200	45
8	32	30	14	12	13	18	18	150	669	580	205	45
9	33	33	14	12	14	20	20	182	706	580	180	43
10	33	31	15	11	14	23	25	179	764	500	170	42
11	32	27	14	10	13	25	25	158	801	430	185	40
12	32	23	15	11	12	28	22	112	772	410	220	39
13	32	31	14	11	13	26	21	101	641	390	150	39
14	32	18	14	10	12	26	20	100	573	370	100	38
15	34	32	14	11	13	20	20	110	582	360	100	37
16	35	34	13	11	14	18	23	121	599	340	140	36
17	36	35	12	12	13	19	29	103	638	330	94	34
18	34	29	13	11	14	18	31	102	700	310	113	34
19	30	29	12	12	12	17	34	99	740	300	113	37
20	32	30	11	13	15	16	40	123	740	400	76	33
21	31	29	12	14	18	16	36	202	680	280	69	34
22	31	30	13	12	16	17	41	271	700	280	66	33
23	32	29	14	12	16	17	64	304	680	300	62	47
24	33	26	13	11	17	17	91	352	680	280	60	59
25	33	27	12	14	17	19	81	443	640	280	59	47
26	36	22	11	13	16	19	62	522	620	260	58	35
27	32	25	12	14	15	19	59	596	620	250	55	41
28	29	27	12	14	16	19	59	632	620	240	54	38
29	35	27	11	13	---	19	60	685	600	230	55	34
30	38	25	10	12	---	25	57	745	620	220	56	47
31	39	---	10	13	---	28	---	658	---	260	52	---
TOTAL	1081	855	420	365	384	610	1073	7650	19442	12530	3977	1277
MEAN	34.9	28.5	13.5	11.8	13.7	19.7	35.8	247	648	404	128	42.6
MAX	43	35	22	14	18	28	91	745	801	660	260	67
MIN	29	18	10	10	11	16	17	49	512	220	52	33
AC-FT	2140	1700	833	724	762	1210	2130	15170	38560	24850	7890	2530

CAL YR 1982	TOTAL	32119.3	MEAN	88.0	MAX	510	MIN	4.8	AC-FT	63710
WTR YR 1983	TOTAL	49664	MEAN	136	MAX	801	MIN	10	AC-FT	98510

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT

LOCATION.--Lat 39°07'09", long 110°59'20", in SW1/4SW1/4SE1/4 sec.35, T.19 S., R.8 E., Emery County, Hydrologic Unit 14060009, on left bank 5.5 mi southeast of Clawson.

DRAINAGE AREA.--221 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR UT-77-1: 1976(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--8 years, 57.3 ft^3/s, 41,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,230 ft^3/s June 19, 1983, gage height, 7.08 ft; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	0700	1,880	6.85
June 11	1000	1,920	6.88
June 19	1130	*2,230	7.08
July 25	2030	320	5.17
July 31	2300	320	5.26
Aug. 11	1800	214	5.10
Sept. 24	unknown	573	6.04

Minimum daily, 5.0 ft^3/s Mar. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	18	16	6.0	8.0	28	12	24	1480	936	184	32
2	23	18	14	6.0	8.0	26	12	24	1400	897	150	31
3	23	21	13	6.0	8.0	26	12	23	1180	920	125	28
4	21	21	12	6.0	8.0	42	12	21	973	909	118	33
5	20	18	11	6.0	8.0	34	14	20	809	760	117	34
6	19	17	10	8.0	8.0	21	25	19	937	687	121	35
7	20	18	9.0	8.0	8.0	18	26	20	1080	697	124	33
8	21	20	10	8.0	8.0	18	27	21	1280	656	122	34
9	19	22	10	8.0	9.0	17	27	25	1400	716	105	35
10	19	21	14	6.0	9.0	16	27	47	1520	686	103	33
11	22	19	13	7.0	10	16	27	48	1750	487	113	32
12	20	17	11	8.0	6.0	14	29	48	1720	381	150	35
13	19	16	12	8.0	6.0	12	29	50	1490	343	130	34
14	19	13	12	8.0	6.0	10	29	48	1190	296	100	33
15	18	12	16	8.0	6.0	8.0	30	46	1060	267	65	31
16	16	13	15	7.0	13	6.0	30	49	1120	243	54	30
17	17	15	14	6.0	15	5.0	29	39	1380	215	42	32
18	16	14	13	6.0	14	6.0	28	38	1710	193	40	34
19	16	15	11	7.0	15	9.0	29	35	2000	174	38	37
20	16	14	10	8.0	17	13	30	35	1970	173	38	39
21	16	13	10	8.0	19	14	31	33	1900	187	38	42
22	17	14	9.0	8.0	22	13	29	31	1850	180	38	45
23	17	12	11	8.0	30	13	29	32	1790	236	37	50
24	18	11	11	8.0	45	13	29	37	1730	256	39	150
25	19	10	7.0	8.0	32	15	29	42	1660	270	43	70
26	18	9.0	6.0	8.0	23	15	27	44	1570	186	43	45
27	18	11	6.0	9.0	23	14	22	49	1340	172	42	50
28	20	13	6.0	9.0	24	13	20	106	1360	150	42	45
29	19	14	6.0	9.0	---	13	20	797	1340	138	45	50
30	18	12	6.0	9.0	---	13	24	1310	1240	112	43	110
31	20	---	6.0	9.0	---	13	---	1720	---	135	43	---
TOTAL	595	461.0	330.0	234.0	408.0	494.0	744	4881	43229	12658	2492	1322
MEAN	19.2	15.4	10.6	7.55	14.6	15.9	24.8	157	1441	408	80.4	44.1
MAX	31	22	16	9.0	45	42	31	1720	2000	936	184	150
MIN	16	9.0	6.0	6.0	6.0	5.0	12	19	809	112	37	28
AC-FT	1180	914	655	464	809	980	1480	9680	85740	25110	4940	2620

CAL YR 1982	TOTAL	13493.5	MEAN	37.0	MAX	461	MIN	2.5	AC-FT 26760
WTR YR 1983	TOTAL	67848.0	MEAN	186	MAX	2000	MIN	5.0	AC-FT 134600

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT												
05...	1130	22	2680	8.4	11.5	9.0	1100	21	190	140	250	34
NOV												
16...	1200	14	3270	8.1	3.5	0.0	1300	26	240	170	350	37
DEC												
15...	1140	18	3680	8.4	0.0	0.0	1500	29	260	200	430	39
JAN												
20...	1100	9.0	3090	8.3	0.5	0.0	1200	25	230	160	320	36
FEB												
17...	1440	16	3250	8.4	7.0	3.0	1100	23	190	160	400	43
MAR												
23...	1030	12	2690	8.4	7.5	4.0	1000	20	180	140	290	38
APR												
21...	1330	30	1320	8.5	15.5	9.5	510	10	97	65	110	32
MAY												
18...	1250	41	1480	8.5	13.5	8.5	580	12	110	75	130	32
JUN												
14...	1000	E1250	800	8.5	18.0	15.0	300	6.0	60	37	49	26
JUL												
12...	1030	E450	810	8.3	24.5	13.0	340	6.7	69	40	43	22
AUG												
17...	1330	43	1980	8.4	33.0	20.5	740	15	150	89	190	36
SEP												
02...	1200	31	2180	8.3	28.5	18.5	810	16	160	100	200	35

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT												
05...	3.4	6.5	220	1200	34	0.4	7.0	1960	2.7	115	0.68	0.12
NOV												
16...	4.3	6.7	350	1500	39	0.4	8.4	2530	3.4	98.2	1.0	0.01
DEC												
15...	5.0	7.3	400	1900	46	0.4	9.2	3090	4.2	150	0.98	0.02
JAN												
20...	4.1	6.7	380	1500	39	0.4	11	2500	3.4	60.6	0.96	0.01
FEB												
17...	5.3	8.4	300	1500	42	0.5	9.5	2490	3.4	105	0.91	0.06
MAR												
23...	4.0	5.0	290	1200	37	0.4	4.2	2030	2.8	65.8	<0.1	0.08
APR												
21...	2.2	2.5	240	430	16	0.3	5.5	871	1.2	70.6	0.11	0.02
MAY												
18...	2.4	4.1	290	560	20	0.4	6.8	1080	1.5	119	<0.1	0.00
JUN												
14...	1.3	1.8	240	170	8.0	0.3	5.8	474	0.64	1600	0.22	0.00
JUL												
12...	1.0	1.7	230	190	6.5	0.3	5.3	493	0.67	598	0.2	0.00
AUG												
17...	3.1	4.3	280	820	22	0.5	8.2	1450	2.0	168	0.14	0.00
SEP												
02...	3.1	5.0	290	850	25	0.5	6.0	1520	2.1	127	<0.1	0.00

E Estimate

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 05...	1130	250
NOV 16...	1200	280
DEC 15...	1140	300
JAN 20...	1100	260
FEB 17...	1440	220
MAR 23...	1030	200
APR 21...	1330	90
MAY 18...	1250	130
JUN 14...	1000	50
JUL 12...	1030	50
AUG 17...	1330	180
SEP 02...	1200	220

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
OCT 05...	1130	22	9.0	--	109	6.4	--	--	--	--
NOV 16...	1200	14	0.0	--	132	5.1	--	--	--	--
DEC 15...	1140	18	0.0	--	984	48	--	--	--	--
FEB 17...	1440	16	3.0	--	118	5.0	--	--	--	--
MAR 23...	1030	12	4.0	89	15	0.49	--	--	--	--
APR 21...	1330	30	9.5	--	53	4.3	--	--	--	--
MAY 18...	1250	41	8.5	--	177	20	--	--	--	--
JUN 14...	1000	E1250	15.0	88	286	965	--	--	--	--
AUG 17...	1330	43	20.5	--	229	27	28	56	81	91
SEP 02...	1200	31	18.5	--	103	8.6	--	--	--	--

E Estimate

09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT

LOCATION.--Lat 39°08'37", long 110°53'50", in SE1/4SE1/4NW1/4 sec.27, T.19 S., R.9 E., Emery County, Hydrologic Unit 14060009, on left bank 1.7 mi downstream from Ferron Creek and 8.3 mi southeast of Castle Dale.

DRAINAGE AREA.--930 mi^2.

PERIOD OF RECORD.--October 1947 to September 1964, August 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,320 ft from topographic map. Prior to July 11, 1956, at site 0.7 mi upstream at different datum. July 11, 1956 to Sept. 30, 1964, at site 0.6 mi upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation above station, including transmountain diversions to Sevier Lake basin.

AVERAGE DISCHARGE.--28 years (1947-64, 1972-83), 116 ft^3/s, 84,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft^3/s June 3, 1952, gage height, 7.56 ft, site and datum then in use; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	2300	2,250	7.69
June 20	1500	*3,490	9.10
Aug. 6	2030	1,200	6.10

Minimum daily, 26 ft^3/s Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	98	94	27	106	166	290	313	2060	2010	498	130
2	161	96	92	27	107	171	290	319	1790	1860	372	137
3	154	83	79	28	107	183	297	297	1740	1820	302	170
4	149	77	77	28	106	221	297	275	1830	1840	263	165
5	132	72	70	28	105	198	300	245	1760	1710	255	174
6	129	70	69	29	102	159	313	239	1750	1580	396	176
7	119	73	83	32	103	140	323	242	1770	1520	259	168
8	105	77	74	31	104	132	319	248	1860	1470	229	176
9	98	91	80	30	107	119	316	290	2080	1420	193	159
10	96	98	74	30	117	115	326	290	2190	1330	171	153
11	103	86	76	31	124	117	330	272	2530	1100	254	143
12	102	69	73	32	130	117	347	254	2600	904	339	157
13	102	66	78	33	129	109	336	239	2640	765	336	153
14	91	62	70	32	115	113	333	227	2390	622	247	147
15	84	59	64	34	109	109	336	221	2050	527	249	136
16	80	58	61	37	113	102	333	221	1990	465	208	129
17	78	74	60	40	108	98	326	173	2130	393	199	139
18	77	78	58	60	116	129	326	168	2490	345	173	140
19	72	89	56	90	120	134	333	191	2980	331	167	150
20	73	79	58	92	130	132	333	200	3300	322	170	155
21	72	73	53	94	140	129	340	175	3180	326	143	167
22	78	70	51	100	150	152	350	180	2950	323	123	174
23	77	62	51	96	180	193	350	264	2850	395	102	195
24	77	53	42	94	220	230	354	309	2740	452	100	411
25	84	56	39	92	240	248	330	386	2740	428	102	254
26	84	63	34	91	190	269	323	501	2590	383	106	233
27	105	71	31	98	160	254	313	601	2440	356	110	284
28	89	76	29	105	140	248	306	703	2320	319	108	254
29	88	66	28	112	---	257	313	1160	2290	280	123	218
30	93	77	27	111	---	287	313	1420	2230	231	131	350
31	98	---	26	107	---	287	---	1980	---	301	150	---
TOTAL	3189	2222	1857	1871	3678	5318	9696	12603	70260	26128	6578	5597
MEAN	103	74.1	59.9	60.4	131	172	323	407	2342	843	212	187
MAX	239	98	94	112	240	287	354	1980	3300	2010	498	411
MIN	72	53	26	27	102	98	290	168	1740	231	100	129
AC-FT	6330	4410	3680	3710	7300	10550	19230	25000	139400	51820	13050	11100

CAL YR 1982	TOTAL	50964	MEAN	140	MAX	952	MIN	14	AC-FT	101100
WTR YR 1983	TOTAL	148997	MEAN	408	MAX	3300	MIN	26	AC-FT	295500

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT

LOCATION.--Lat 39°04'51", long 110°39'56", in NE1/4NE1/4SE1/4 sec.15, T.20 S., R.11 E., Emery County, Hydrologic Unit 14060009, on left bank 80 ft downstream from San Rafael River Bridge, 21 mi southeast of Castle Dale, 52 mi northwest of Green River.

DRAINAGE AREA.--1,284 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 127 ft^3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft^3/s Sept. 10, 1980, gage height, 11.08 ft, from slope-area measurement of peak; no flow several days in 1977-78.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 1	0700	2,080	7.64
June 20	2330	*3,740	9.85
Aug. 28	1530	767	5.22
Sept. 24	2200	1,620	6.64
Sept. 30	1300	660	4.99

Minimum daily, 26 ft^3/s Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	334	95	92	29	108	195	288	313	1980	2250	490	136
2	178	97	92	30	109	198	288	324	1820	2000	370	128
3	158	86	81	30	108	208	293	308	1710	1900	320	157
4	155	83	74	30	108	242	296	288	1850	1950	280	156
5	141	77	71	30	108	253	299	262	1800	1800	270	163
6	134	79	68	31	108	186	307	239	1820	1700	400	165
7	125	79	81	34	108	165	315	241	1830	1600	240	166
8	119	79	76	33	108	149	315	246	1890	1500	210	162
9	104	84	79	32	114	139	312	268	2090	1450	180	162
10	101	90	70	32	124	129	312	283	2280	1400	160	150
11	102	90	74	33	130	128	312	260	2600	1320	250	141
12	105	74	72	34	135	129	332	246	2700	832	320	149
13	99	69	80	35	136	126	326	239	2750	674	320	149
14	95	62	68	34	126	127	326	223	2780	569	240	147
15	88	54	64	36	118	132	329	212	2390	530	240	135
16	81	53	66	39	117	124	320	201	2300	480	190	129
17	79	57	64	43	120	120	320	174	2400	400	200	131
18	77	81	62	64	127	135	320	158	2760	360	175	135
19	77	76	60	96	129	156	333	183	3120	340	158	139
20	77	77	62	93	141	154	317	192	3550	330	166	147
21	76	69	58	95	141	148	322	183	3580	340	147	157
22	76	64	56	102	154	146	327	168	3290	330	127	164
23	79	60	56	99	188	207	338	215	3180	410	107	174
24	79	53	47	95	234	243	342	265	2950	470	93	517
25	83	51	43	93	258	260	338	304	2850	410	100	340
26	88	56	38	92	201	288	328	394	2900	380	100	227
27	99	63	34	100	184	268	319	496	2850	350	102	242
28	100	71	32	108	164	253	310	574	2700	320	133	250
29	95	69	29	114	---	258	310	893	2500	280	120	213
30	92	71	29	112	---	286	318	1230	2350	240	128	358
31	95	---	26	108	---	288	---	1730	---	310	144	---
TOTAL	3391	2169	1904	1936	3906	5840	9512	11312	75570	27225	6480	5589
MEAN	109	72.3	61.4	62.5	140	188	317	365	2519	878	209	186
MAX	334	97	92	114	258	288	342	1730	3580	2250	490	517
MIN	76	51	26	29	108	120	288	158	1710	240	93	128
AC-FT	6730	4300	3780	3840	7750	11580	18870	22440	149900	54000	12850	11090

CAL YR 1982	TOTAL	49708	MEAN	136	MAX	758	MIN	14	AC-FT	98600
WTR YR 1983	TOTAL	154834	MEAN	424	MAX	3580	MIN	26	AC-FT	307100

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT												
06...	1330	130	2650	8.2	13.5	10.5	970	19	190	120	280	38
NOV												
15...	1330	56	3490	8.3	6.5	1.5	1300	27	240	180	440	42
DEC												
14...	1300	77	3380	8.3	5.5	0.0	1300	27	240	180	420	40
JAN												
19...	1300	89	2000	8.1	1.5	0.0	700	14	150	80	170	34
FEB												
17...	1110	110	2630	8.3	4.0	0.0	850	17	160	110	310	44
MAR												
22...	1130	141	1790	8.5	11.5	7.5	630	13	120	80	180	38
APR												
20...	1300	316	960	8.4	18.0	10.5	380	7.5	76	45	70	29
MAY												
17...	1115	176	1730	8.5	15.0	9.5	580	12	110	75	170	39
JUN												
13...	1100	2730	870	8.3	16.0	10.5	330	6.6	75	35	55	26
JUL												
11...	1130	1120	820	8.4	27.5	15.0	310	6.2	68	34	49	25
AUG												
16...	1340	194	1970	8.2	31.5	23.0	700	14	150	80	190	37
SEP												
01...	1200	136	2150	8.2	27.0	20.5	780	16	150	98	200	36

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT												
06...	4.0	6.0	250	1200	27	0.3	7.4	1980	2.7	694	0.23	0.02
NOV												
15...	5.4	7.5	290	1800	45	0.3	6.1	2890	3.9	439	0.33	0.01
DEC												
14...	5.1	7.0	310	1800	44	0.3	7.7	2890	3.9	597	0.5	0.04
JAN												
19...	2.9	4.0	270	780	32	0.2	7.0	1380	1.9	332	0.47	0.01
FEB												
17...	4.7	6.6	190	1200	43	0.4	7.2	1950	2.7	579	0.59	0.04
MAR												
22...	3.2	3.3	210	720	27	0.2	3.2	1260	1.7	479	<0.1	0.02
APR												
20...	1.6	2.0	230	270	12	0.2	4.1	614	0.84	524	0.13	0.00
MAY												
17...	3.1	4.4	250	680	22	0.2	4.7	1220	1.7	578	<0.1	0.00
JUN												
13...	1.4	2.8	190	230	11	0.3	4.9	526	0.72	3880	0.38	0.69
JUL												
11...	1.2	1.9	210	200	7.9	0.2	4.6	492	0.67	1490	0.16	0.02
AUG												
16...	3.2	5.4	140	870	23	0.2	7.8	1410	1.9	740	0.18	0.00
SEP												
01...	3.2	4.9	240	850	27	0.3	6.3	1480	2.0	544	<0.1	0.00

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT		
06...	1330	220
NOV		
15...	1330	290
DEC		
14...	1300	240
JAN		
19...	1300	160
FEB		
17...	1110	190
MAR		
22...	1130	110
APR		
20...	1300	70
MAY		
17...	1115	130
JUN		
13...	1100	70
JUL		
11...	1130	60
AUG		
16...	1340	170
SEP		
01...	1200	190

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
OCT										
06...	1330	130	10.5	--	773	271	--	--	--	--
NOV										
15...	1330	56	1.5	--	481	73	--	--	--	--
FEB										
17...	1110	110	0.0	--	1250	371	--	--	--	--
MAR										
22...	1130	141	7.5	--	673	256	4	6	10	18
APR										
20...	1300	316	10.5	--	1160	990	--	--	--	--
MAY										
17...	1115	176	9.5	--	504	240	--	--	--	--
JUN										
13...	1100	2730	10.5	65	4110	30300	--	--	--	--
SEP										
01...	1200	136	20.5	--	350	129	--	--	--	--

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT

LOCATION.--Lat 38°51'30", long 110°22'10", in SE1/4SE1/4NW1/4 sec.34, T.22 S., R.14 E., Emery County, Hydrologic Unit 14060009, on left bank 300 ft upstream from bridge on State Highway 24, 14.0 mi southwest of Green River, and 34.3 mi upstream from mouth.

DRAINAGE AREA.--1,628 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to September 1918, September 1919 to July 1920 (gage heights only), October 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,190 ft from topographic map. May 5, 1909 to Sept. 10, 1918, staff gage, and Sept. 10, 1919 to July 10, 1920, tape-weight gage. Nov. 29, 1945 to July 7, 1976, water-stage recorder at various sites and datums about 1 mi upstream.

REMARKS.--Records fair except those for winter period, which are poor. Diversions above station for irrigation of about 42,000 acres. Several small transmountain diversions from tributaries for irrigation in Sevier Lake basin, and some storage since Nov. 3, 1965, in Joes Valley Reservoir (see station 09323900).

AVERAGE DISCHARGE.--47 years (1909-18, 1945-83), 152 ft^3/s, 110,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft^3/s Sept. 2, 1909, gage height, 12.7 ft, site and datum then in use, from rating curve extended above 3,100 ft^3/s; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 21	unknown	*3,600	maximum daily
Aug. 1	0400	1,780	9.95
Sept. 25	unknown	1,620	9.45

Minimum daily, 26 ft^3/s Jan. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	89	85	27	124	222	339	360	2000	2400	694	155
2	225	89	84	26	118	244	343	365	2430	2200	472	148
3	154	85	78	26	114	253	345	360	2330	2100	416	135
4	139	79	71	26	113	264	356	347	2270	2100	302	169
5	136	72	68	27	114	338	360	325	2360	1900	340	167
6	122	68	66	28	114	291	359	299	2380	1800	284	160
7	123	70	64	28	113	240	374	290	2350	1700	465	160
8	119	74	68	30	127	211	375	292	2400	1600	291	157
9	110	78	74	28	132	196	378	294	2460	1600	250	153
10	102	86	68	28	140	188	368	332	2580	1500	234	151
11	111	96	70	29	142	180	372	335	2650	1500	216	133
12	109	84	70	30	144	158	376	306	2860	1400	298	130
13	105	74	69	30	149	169	395	301	3000	920	462	134
14	100	68	64	32	147	160	379	296	2900	680	349	138
15	94	60	60	30	142	170	380	285	2600	620	240	133
16	86	54	58	35	159	160	382	347	2400	540	230	119
17	82	54	58	40	157	160	382	311	2500	480	200	115
18	78	62	59	50	157	150	378	272	2850	381	180	118
19	74	82	57	60	154	160	379	261	3200	351	170	123
20	72	88	54	90	169	180	376	290	3550	337	160	130
21	70	78	54	96	169	170	377	296	3600	369	150	140
22	72	72	52	106	176	170	384	268	3500	324	130	150
23	72	70	46	98	191	180	387	265	3300	308	120	162
24	72	67	44	96	231	200	390	337	3100	476	100	250
25	69	57	40	94	274	230	398	387	3070	405	92	720
26	71	54	35	93	286	250	375	472	3110	401	100	350
27	75	57	33	100	240	320	365	594	3200	375	100	230
28	84	64	30	107	220	290	352	720	3000	334	150	230
29	84	68	29	115	---	300	350	902	2700	304	130	200
30	79	70	28	112	---	310	350	1420	2500	269	120	420
31	82	---	27	110	---	329	---	1670	---	238	130	---
TOTAL	3555	2169	1763	1827	4516	6843	11124	13599	83150	29912	7575	5680
MEAN	115	72.3	56.9	58.9	161	221	371	439	2772	965	244	189
MAX	584	96	85	115	286	338	398	1670	3600	2400	694	720
MIN	69	54	27	26	113	150	339	261	2000	238	92	115
AC-FT	7050	4300	3500	3620	8960	13570	22060	26970	164900	59330	15030	11270

CAL YR 1982	TOTAL	51714	MEAN	142	MAX	1140	MIN	16	AC-FT	102600
WTR YR 1983	TOTAL	171713	MEAN	470	MAX	3600	MIN	26	AC-FT	340600

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1946 to September 1949, October 1950 to current year.
SPECIFIC CONDUCTANCE: July to September 1949, November 1950 to September 1962, October 1964 to September 1979, daily, October 1979 to September 1980, March to current year, bi-weekly.
WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1978, daily (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959, daily, October 1975 to current year, periodically.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily (water years 1949, 1951-70, 1974-76), 7,230 micromhos July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 micromhos June 29, 1957.
WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-76), 35.0°C July 11, 1954; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,670 micromhos Dec. 3; minimum, 680 micromhos June 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT										
22...	1300	72	3230	8.4	17.0	9.0	10.1	660	1300	25
NOV										
24...	1400	69	2840	8.0	8.5	2.5	11.6	659	1100	23
DEC										
29...	1100	31	2750	8.2	0.5	0.0	--	661	1200	25
JAN										
26...	1415	93	2130	8.0	5.5	0.0	--	659	810	16
FEB										
25...	1410	246	2090	8.1	18.0	6.0	10.2	650	710	14
MAR										
30...	1400	293	1420	8.4	22.5	11.5	9.1	656	380	7.6
APR										
28...	1350	328	910	8.1	22.5	13.0	8.8	651	380	7.6
MAY										
25...	1530	438	1260	8.1	31.5	22.0	7.2	655	480	9.6
JUN										
24...	1430	E3200	700	8.1	36.0	17.0	8.1	656	290	5.9
JUL										
18...	1400	394	1220	8.3	38.0	23.5	7.1	652	470	9.3
AUG										
31...	1330	126	2170	8.1	35.0	23.5	6.9	655	830	17
SEP										
07...	0850	164	1940	8.1	23.5	19.0	7.8	651	700	14

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT										
22...	240	160	400	41	5.0	8.0	270	1800	47	0.3
NOV										
24...	210	150	360	41	4.7	6.9	290	1500	45	0.2
DEC										
29...	250	150	300	34	3.8	7.1	330	1400	53	0.3
JAN										
26...	160	99	230	38	3.6	4.9	260	1000	20	--
FEB										
25...	150	81	270	45	4.5	5.6	210	960	37	0.3
MAR										
30...	47	64	130	42	2.9	2.9	130	490	20	0.2
APR										
28...	75	47	76	30	1.7	2.3	220	290	14	0.2
MAY										
25...	97	58	120	35	2.4	4.0	220	480	17	0.2
JUN										
24...	70	29	38	22	1	1.6	200	180	7.5	0.2
JUL										
18...	94	56	100	32	2.1	2.9	220	450	16	0.2
AUG										
31...	170	99	210	35	3.3	6.3	200	1000	31	0.3
SEP										
07...	130	91	210	39	3.5	5.0	220	810	29	0.3

E Estimate

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT									
22...	6.8	3000	2820	4.1	583	0.10	0.13	1.30	0.3
NOV									
24...	6.2	2800	2450	3.8	521	<0.06	0.08	1.10	0.5
DEC									
29...	8.0	2420	2360	3.3	203	0.09	0.12	0.8	0.6
JAN									
26...	6.5	--	1670	2.3	419	0.13	0.17	0.8	0.6
FEB									
25...	6.1	1730	1640	2.4	1150	0.17	0.22	5.60	0.7
MAR									
30...	3.9	1010	835	1.4	799	0.17	0.22	1.20	0.1
APR									
28...	4.3	648	643	0.88	574	<0.06	0.08	0.2	0.1
MAY									
25...	5.5	907	911	1.2	1070	<0.06	0.08	0.7	0.3
JUN									
24...	4.6	441	449	0.6	3810	<0.06	0.08	1.10	0.3
JUL									
18...	5.7	907	859	1.2	965	0.05	0.06	0.8	0.1
AUG									
31...	6.3	1870	1640	2.5	636	0.03	0.04	1.50	<0.1
SEP									
07...	6.7	1610	1410	2.2	713	0.06	0.08	1.00	<0.1

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT									
22...	0.26	0.12	1.2	1.6	7.1	0.18	0.55	<0.01	0.03
NOV									
24...	0.42	<0.06	1.0	1.6	7.1	0.22	0.67	<0.01	0.03
DEC									
29...	0.54	0.10	0.7	1.4	6.2	0.09	0.28	0.02	0.06
JAN									
26...	0.56	0.12	0.68	1.4	6.2	0.07	0.21	0.05	0.15
FEB									
25...	0.67	0.15	5.5	6.3	28	3.70	11	0.01	0.03
MAR									
30...	0.11	0.06	1.1	1.3	5.8	0.44	1.4	0.02	0.06
APR									
28...	0.42	0.07	0.13	0.3	1.3	0.13	0.4	0.02	0.06
MAY									
25...	0.26	<0.06	0.64	1.0	4.4	0.09	0.28	0.00	--
JUN									
24...	0.26	<0.06	1.0	1.4	6.2	0.11	0.34	0.02	0.06
JUL									
18...	0.13	0.04	0.76	0.9	4.0	0.41	1.3	0.00	--
AUG									
31...	0.1	0.02	1.5	1.6	7.1	0.27	0.83	0.00	--
SEP									
07...	<0.1	0.06	0.94	1.1	4.9	0.06	0.18	0.00	--

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
JUN 24...	1430	8600	4	<10	<1	20	28	14000

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
JUN 24...	12	40	470	5.6	<1	16	2	70

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 22...	1300	290
NOV 24...	1400	240
DEC 29...	1100	240
JAN 26...	1415	180
FEB 25...	1410	160
MAR 30...	1400	90
APR 28...	1350	70
MAY 25...	1530	110
JUN 24...	1430	50
JUL 18...	1400	110
AUG 31...	1330	200
SEP 07...	0850	210

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
OCT 22...	1300	6.4	1.7
JAN 26...	1415	4.1	.4
APR 28...	1350	2.5	>4.0
JUL 18...	1400	4.0	.9

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	2140	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	760	---	2270	1810
3	2480	---	3670	---	---	---	1150	---	---	---	---	---
4	---	---	---	---	---	---	---	1070	---	690	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	2980	---	---	2150	---	---	---	780	---	---	1940
8	2500	---	---	---	---	---	---	---	---	700	1990	---
9	---	2360	---	---	---	---	1000	1180	---	---	---	2010
10	---	---	3140	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	2700	---	---	---	2470	---	---	---	840	960	---	---
14	---	3490	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	940	1460	---	---	---	2030
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	3300	---	---	---	---	---	---	---	1920	---
18	3060	---	---	---	---	---	---	---	---	1220	---	---
19	---	---	---	---	---	---	---	---	700	---	1970	---
20	---	2740	---	---	---	1820	---	---	---	---	---	---
21	---	---	---	---	---	---	970	---	---	---	---	---
22	3230	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	3330	2840	---	---	---	---	---	---	700	---	---	---
25	---	3040	---	---	2090	---	---	1260	---	---	---	2490
26	---	---	---	2130	---	1820	---	---	680	1610	---	---
27	---	---	---	---	---	---	---	1720	---	---	2350	---
28	---	---	---	---	---	---	990	---	---	---	---	---
29	---	2690	2750	---	---	---	---	1210	---	---	---	---
30	3350	---	---	---	---	1420	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	2170	---

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
22...	1300	72	9.0	623	1214
NOV					
24...	1400	69	2.5	377	70
JAN					
26...	1415	93	0.0	364	91
FEB					
25...	1410	246	6.0	6250	4150
MAR					
30...	1400	293	11.5	1570	1240
APR					
28...	1350	328	13.0	1320	1170
JUN					
24. .	1430	3200	17 0	1740	15000
AUG					
31...	1330	126	23.5	2090	711

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT

LOCATION.--Lat 38°37'40", long 111°38'50", in SE1/4SW1/4SW1/4 sec.13, T.25 S., R.2 E., Sevier County, Hydrologic Unit 14070003, on left bank 0.4 mi upstream from bridge on State Highway 25, about 0.7 mi upstream from Johnson Valley Reservoir, and 3.5 mi northeast of north end of Fish Lake.

DRAINAGE AREA.--24.0 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--19 years, 14.9 ft^3/s, 10,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 314 ft^3/s June 10, 1983, gage height, 3.77 ft; minimum, 1.9 ft^3/s Nov. 16, 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 80 ft^3/s, 314 ft^3/s June 10, gage height, 3.77 ft; minimum daily, 6.5 ft^3/s Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	9.4	9.2	7.3	7.6	7.5	7.6	222	54	24	22
2	18	13	8.7	9.1	7.2	7.4	7.5	7.5	198	49	33	23
3	23	13	9.9	9.0	7.3	7.4	7.5	7.5	180	46	33	21
4	21	12	10	8.9	7.3	7.4	7.5	7.6	155	43	30	24
5	16	12	9.7	9.1	7.3	7.4	7.5	7.8	147	40	29	20
6	15	11	9.7	8.9	7.2	7.3	7.5	7.9	191	43	28	19
7	15	11	9.6	8.9	7.3	7.3	7.5	8.2	198	41	28	19
8	13	11	9.7	9.1	7.3	7.2	7.5	8.7	203	37	25	19
9	15	11	9.7	8.9	7.3	7.2	7.4	9.1	203	38	25	19
10	14	11	9.7	8.9	7.4	7.2	7.4	10	219	33	24	18
11	13	6.5	9.7	8.8	7.3	7.4	7.4	11	168	32	25	18
12	12	12	9.5	8.7	7.3	7.4	7.4	12	155	30	29	17
13	12	12	9.5	8.6	7.4	7.3	7.3	12	118	28	26	17
14	12	11	9.0	8.7	7.4	7.3	7.3	13	114	28	33	17
15	12	11	9.8	8.6	7.4	7.3	7.3	14	127	28	36	17
16	12	11	9.6	8.3	7.4	7.4	7.3	15	137	27	30	17
17	12	11	9.4	8.3	7.3	7.4	7.3	17	155	26	31	16
18	11	11	9.4	8.2	7.2	7.5	7.3	18	158	25	27	16
19	13	11	9.4	8.3	7.3	7.5	7.3	20	161	25	27	16
20	11	9.9	9.2	8.3	7.4	7.5	7.3	27	140	25	26	16
21	11	9.9	9.2	8.2	7.4	7.5	7.3	37	129	28	24	16
22	11	9.8	9.3	8.0	7.4	7.5	7.3	46	114	37	23	16
23	11	9.6	9.3	7.9	7.5	7.5	7.4	54	104	28	22	18
24	11	9.4	8.2	7.8	7.6	7.5	7.4	62	95	26	21	19
25	11	9.2	9.5	7.7	7.6	7.5	7.5	70	84	30	21	18
26	12	9.2	9.7	7.7	7.6	7.6	7.5	92	75	27	21	19
27	9.0	9.1	9.7	7.6	7.6	7.6	7.5	116	70	26	21	19
28	15	9.2	9.4	7.6	7.6	7.6	7.5	130	65	27	22	17
29	15	9.4	9.5	7.5	---	7.6	7.5	142	61	24	22	16
30	13	9.3	9.3	7.4	---	7.5	7.6	172	58	23	21	26
31	13	---	9.2	7.4	---	7.5	---	219	---	25	21	---
TOTAL	419.0	318.5	292.9	259.6	206.6	230.3	222.5	1380.9	4204	999	808	555
MEAN	13 5	10.6	9.45	8.37	7.38	7.43	7.42	44.5	140	32.2	26.1	18.5
MAX	23	13	10	9.2	7.6	7.6	7.6	219	222	54	36	26
MIN	9.0	6.5	8.2	7.4	7.2	7.2	7.3	7.5	58	23	21	16
AC-FT	831	632	581	515	410	457	441	2740	8340	1980	1600	1100

CAL YR 1982	TOTAL	6087.7	MEAN	16.7	MAX	139	MIN	4.4	AC-FT	12070
WTR YR 1983	TOTAL	9896.3	MEAN	27.1	MAX	222	MIN	6.5	AC-FT	19630

09330000 FREMONT RIVER NEAR BICKNELL, UT

LOCATION.--Lat 38°18'25", long 111°31'03", in SW1/4NE1/4NW1/4 sec.7, T.29 S., R.4 E., Wayne County, Hydrologic Unit 14070003, on left bank at upstream side of county road bridge, 2.9 mi southeast of Bicknell along Highway U-24.

DRAINAGE AREA.--751 mi^2.

PERIOD OF RECORD.--May 1909 to December 1912, published as "near Thurber", October 1937 to September 1958 (1944-46, fragmentary), October 1976 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 6,920 ft from topographic map. May 1909 to December 1912, staff gage near present site at different datum. October 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi downstream at different datums. June 28, 1949 to Apr. 29, 1958, water-stage recorders replaced staff gages on river and canal site using same datum. Apr. 29 to Sept. 30, 1958, staff gage on river at site 600 ft farther downstream from water-stage recorder at datum 1.67 ft lower.

REMARKS.--Records fair. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

AVERAGE DISCHARGE.--28 years (1909-12, 1937-43, 1946-58, 1976-83), 86.1 ft^3/s, 62,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft^3/s Apr. 5, 1942, gage height, 5.8 ft, site and datum in use (from floodmarks), from rating curve extended above 700 ft^3/s; minimum observed, 18 ft^3/s June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 458 ft^3/s May 10, gage height, 2.86 ft from high-water mark; minimum daily, 38 ft^3/s May 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	84	92	76	87	108	86	48	164	53	95	138
2	84	79	87	81	82	107	92	45	224	66	90	130
3	81	76	86	82	87	115	107	41	244	81	92	124
4	78	75	89	86	86	122	110	38	224	82	100	130
5	75	73	90	89	84	115	107	90	197	82	98	127
6	73	73	90	90	84	113	107	122	180	87	94	120
7	76	75	90	94	87	120	108	94	170	95	95	118
8	76	72	92	95	89	117	107	73	173	98	95	117
9	76	72	95	89	92	107	107	228	175	95	100	107
10	78	72	97	89	90	105	100	374	177	92	107	95
11	79	70	97	90	89	107	98	344	175	92	113	89
12	79	61	97	92	89	105	98	171	194	87	124	86
13	79	66	97	90	92	102	102	75	212	81	129	75
14	78	57	94	89	95	100	98	70	201	78	157	67
15	79	66	89	89	94	95	94	55	168	67	144	55
16	81	79	94	90	95	95	94	59	144	55	141	58
17	79	84	94	92	92	100	90	64	125	46	144	67
18	81	89	92	90	95	100	90	68	115	46	148	79
19	78	94	90	90	97	100	90	60	115	48	153	75
20	78	86	90	89	95	94	95	58	125	47	150	70
21	82	84	95	89	100	102	98	54	132	70	151	81
22	86	84	97	89	103	102	92	60	143	64	150	92
23	82	86	103	90	105	97	82	139	134	60	143	95
24	84	82	87	90	105	95	129	157	125	60	130	100
25	86	84	89	90	105	94	234	136	112	75	108	108
26	82	82	90	89	102	89	190	108	110	107	86	113
27	81	84	86	90	100	94	118	102	102	76	76	113
28	81	87	80	90	103	92	66	108	81	87	78	112
29	87	90	73	89	---	92	48	105	58	81	82	112
30	87	94	76	87	---	90	58	97	51	72	87	108
31	86	---	76	90	---	87	---	118	---	72	129	---
TOTAL	2496	2360	2794	2755	2624	3161	3095	3361	4550	2302	3589	2961
MEAN	80.5	78.7	90.1	88.9	93.7	102	103	108	152	74.3	116	98.7
MAX	87	94	103	95	105	122	234	374	244	107	157	138
MIN	73	57	73	76	82	87	48	38	51	46	76	55
AC-FT	4950	4680	5540	5460	5200	6270	6140	6670	9020	4570	7120	5870

CAL YR 1982	TOTAL	27234	MEAN	74.6	MAX	223	MIN	43	AC-FT	54020
WTR YR 1983	TOTAL	36048	MEAN	98.8	MAX	374	MIN	38	AC-FT	71500

09330230 FREMONT RIVER NEAR CAINEVILLE, UT

LOCATION.--Lat 38°16'40", long 111°04'00", in NE1/4NE1/4NE1/4 sec.20, T.29 S., R.8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.0 mi downstream from Pleasant Creek, 4.5 mi southwest of Caineville, and 9.8 mi east of Fruita, Utah.

DRAINAGE AREA.--1,208 mi^2.

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 4,750 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--16 years, 68.7 ft^3/s, 49,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft^3/s Sept. 5, 1981, gage height, 6.90 ft, on basis of slope-area measurement of peak flow; minimum observed, 10 ft^3/s June 9, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 8	1430	501	2.76
July 27	unknown	*671	3.05

Minimum daily, 35 ft^3/s May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	72	87	75	81	100	91	60	110	66	96	110
2	58	72	78	79	79	103	87	46	162	68	98	112
3	58	70	72	85	85	103	94	42	173	62	105	110
4	55	70	75	107	83	193	105	37	207	58	96	128
5	52	71	74	133	83	130	105	35	188	62	96	128
6	51	71	72	157	81	117	105	65	168	50	85	125
7	52	75	70	162	83	117	103	77	165	60	89	115
8	52	74	72	136	85	120	105	54	190	63	98	117
9	51	74	71	105	87	115	100	74	176	70	91	103
10	52	74	72	98	87	107	100	238	185	66	85	91
11	55	75	72	117	85	103	96	351	188	63	120	83
12	57	71	71	100	85	105	96	241	217	63	157	79
13	56	71	71	96	85	103	98	91	233	62	145	76
14	55	71	65	96	91	100	98	50	226	61	185	66
15	54	70	65	94	91	96	94	51	195	60	168	58
16	55	72	68	91	91	96	89	55	168	59	154	58
17	57	75	68	89	89	98	91	58	154	60	170	60
18	56	79	70	89	89	98	87	60	151	57	154	58
19	56	85	68	87	94	98	87	57	154	58	157	58
20	58	79	66	85	91	96	87	55	142	60	154	51
21	60	76	67	83	94	94	89	51	128	72	154	54
22	63	74	70	81	98	100	94	48	130	69	151	63
23	63	77	76	85	98	98	87	68	136	68	148	66
24	63	73	63	85	100	96	83	107	133	65	136	89
25	66	72	63	85	100	94	139	112	122	68	117	81
26	67	73	63	83	98	94	233	89	115	90	96	72
27	66	72	60	83	94	91	148	66	107	200	77	79
28	65	74	50	83	96	94	100	68	94	90	115	83
29	66	75	52	83	---	98	72	85	76	85	89	94
30	76	79	60	81	---	94	62	81	68	78	125	130
31	77	---	72	83	---	91	---	87	---	88	91	---
TOTAL	1835	2216	2123	2996	2503	3242	3025	2659	4661	2201	3802	2597
MEAN	59.2	73.9	68.5	96.6	89.4	105	101	85.8	155	71.0	123	86.6
MAX	77	85	87	162	100	193	233	351	233	200	185	130
MIN	51	70	50	75	79	91	62	35	68	50	77	51
AC-FT	3640	4400	4210	5940	4960	6430	6000	5270	9250	4370	7540	5150

CAL YR 1982	TOTAL	24547	MEAN	67.3	MAX	355	MIN	20	AC-FT	48690
WTR YR 1983	TOTAL	33860	MEAN	92.8	MAX	351	MIN	35	AC-FT	67160

09330410 BULL CREEK NEAR HANKSVILLE, UT

LOCATION.--Lat 38°07'19", long 110°45'32", in SE1/4NE1/4SW1/4 sec.12, T.31 S., R.10 E., Garfield County, Hydrologic Unit 14070003, on left bank 1 mi downstream from BLM recreation area "Lonesome Beaver Campground" and 21 mi south of Hanksville.

DRAINAGE AREA.--7.53 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to September 1983.

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 200 ft^3/s Aug. 5, gage height, 3.70 ft; minimum observed, 0.35 ft^3/s Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---			---				---	2.5	2.2	2.1
2		---			---				---	2.6	2.2	2.1
3		---			.39				---	2.8	3.0	2.1
4		---			---				---	2.9	2.4	2.0
5		---			---				---	2.8	10	2.0
6		---			---				---	2.5	3.1	1.9
7		---			---				16	2.5	2.4	1.9
8		---			---				17	2.5	2.3	1.9
9		---			---				18	2.6	2.2	1.9
10		---			---				20	2.6	2.2	2.2
11		---			---				22	2.6	2.2	1.9
12		---			---				23	2.6	2.3	1.9
13		---			---				22	2.7	2.4	1.8
14		---			---				21	2.7	2.3	1.8
15		---			---				20	2.7	2.3	1.7
16		---			---				19	2.8	2.3	1.7
17		---			---				18	2.9	2.2	1.7
18		---			---				18	2.7	2.2	1.7
19		---			---				17	2.5	2.3	1.7
20		---			---				17	2.5	2.3	1.9
21		---			---				17	2.9	2.3	2.2
22		---			---				17	3.0	2.2	2.2
23		.35			---				9.6	2.7	2.2	2.2
24		---			---				4.4	2.5	2.2	1.7
25		---			---				3.6	2.5	2.2	1.7
26		---			---				2.8	2.4	2.2	1.9
27		---			---				2.6	2.3	2.2	3.6
28		---			---				2.6	2.4	2.2	2.8
29		---			---				2.5	2.4	2.2	2.6
30		---			---				2.5	2.3	2.2	7.5
31		---			---				---	2.2	2.2	---
TOTAL		---			---				---	80.6	79.1	66.3
MEAN		---			---				---	2.60	2.55	2.21
MAX		---			---				---	3.0	10	7.5
MIN		---			---				---	2.2	2.2	1.7
AC-FT		---			---				---	160	157	132

NOTE.--The two values on Nov. 23 and Feb. 3 are a result of discharge measurements.

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to August, 1983.
SEDIMENT DATA: June, August, 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUN										
14...	1730	20	245	7.1	14.0	7.0	9.1	570	44	6.3
AUG										
02...	1715	2.2	400	7.9	19.0	12.5	7.8	570	62	11
29...	1540	2.2	425	8.0	18.5	13.0	7.5	570	66	11

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN									
14...	5.0	0.5	110	36	1.6	0.2	11	0.21	0.07
AUG									
02...	7.5	0.6	154	63	2.9	0.1	12	0.12	0.07
29...	7.8	0.8	155	63	2.8	0.1	13	<0.10	0.05

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
JUN		
14...	1730	20
AUG		
02...	1715	30
29...	1540	30

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUN					
14...	1730	20	7.0	28	1.5
AUG					
02...	0802	2.2	12.5	14	.08
29...	1540	2.2	13.0	20	.12

09330500 MUDDY CREEK NEAR EMERY, UT

LOCATION.--Lat 38°58'55", long 111°14'55", in NE1/4NW1/4NE1/4 sec.21, T.21 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 100 ft upstream from Emery Canal and 4.1 mi north of Emery.

DRAINAGE AREA.--105 mi^2.

PERIOD OF RECORD.--April to July 1909, July 1910 to July 1914, June 1949 to current year.

REVISED RECORDS.--WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map. Apr. 29 to July 31, 1909, reference point. July 23, 1910 to July 16, 1914, staff gages, at sites about 1 mi upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft upstream at datum 2.89 ft higher prior to Mar. 20, 1953, and at datum 1.89 ft higher thereafter.

REMARKS.--Records good except those for the winter period, which are poor. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft) above station.

AVERAGE DISCHARGE.--37 years (1910-13, 1949-83), 38.9 ft^3/s, 28,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s May 10, 1952, gage height, 11.14 ft, present datum from rating curve extended above 400 ft^3/s on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	1830	676	5.00
June 15	2300	632	4.85
Aug. 1	1900	409	3.90
Aug. 12	unknown	*2,040	8.40

Minimum daily, 4.0 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	26	16	6.0	11	14	15	29	411	317	220	75
2	51	25	14	8.0	7.0	14	14	30	388	311	145	79
3	51	26	11	7.0	7.0	15	14	45	353	308	120	66
4	50	28	11	8.0	8.0	16	13	70	323	305	130	80
5	51	27	14	9.0	7.0	14	13	96	298	300	140	66
6	47	27	14	7.0	6.0	15	14	73	307	301	130	62
7	48	27	14	7.0	7.0	18	15	76	336	301	128	60
8	44	26	15	8.0	8.0	18	13	114	337	291	125	62
9	45	26	15	8.0	9.0	19	14	152	335	292	124	60
10	45	25	16	7.0	10	20	16	148	344	282	130	60
11	45	25	14	6.0	8.0	21	16	130	349	268	140	59
12	44	26	16	8.0	7.0	22	14	105	338	257	190	60
13	44	28	17	7.0	9.0	21	14	90	313	248	120	62
14	43	28	15	6.0	8.0	22	13	90	296	241	100	60
15	43	22	16	6.0	11	15	14	92	315	234	84	60
16	43	18	16	7.0	14	13	15	100	287	230	80	58
17	42	21	14	7.0	13	14	18	80	295	221	88	56
18	41	21	16	10	14	13	20	70	330	212	86	54
19	38	21	15	8.0	11	12	20	70	359	199	84	58
20	39	15	12	12	14	10	23	85	356	220	79	50
21	36	16	13	12	15	10	22	116	337	214	76	52
22	29	16	14	14	12	11	23	148	345	218	75	50
23	28	15	16	12	12	12	32	207	339	205	73	51
24	29	11	13	7.0	14	12	46	252	339	190	72	61
25	29	9.0	10	10	14	13	46	308	321	200	70	55
26	30	17	7.0	9.0	14	13	40	366	312	190	69	54
27	28	16	9.0	11	12	12	37	370	310	180	66	53
28	26	19	9.0	11	13	13	36	365	312	175	69	52
29	28	18	8.0	9.0	---	13	33	394	307	170	67	53
30	28	17	4.0	8.0	---	15	33	451	311	160	69	62
31	28	---	6.0	11	---	18	---	425	---	170	65	---
TOTAL	1224	642.0	400.0	266.0	295.0	468	656	5147	9903	7410	3214	1790
MEAN	39.5	21.4	12.9	8.58	10.5	15.1	21.9	166	330	239	104	59.7
MAX	51	28	17	14	15	22	46	451	411	317	220	80
MIN	26	9.0	4.0	6.0	6.0	10	13	29	287	160	65	50
AC-FT	2430	1270	793	528	585	928	1300	10210	19640	14700	6370	3550

CAL YR 1982	TOTAL	18949.4	MEAN	51.9	MAX	212	MIN	3.0	AC-FT	37590
WTR YR 1983	TOTAL	31415.0	MEAN	86.1	MAX	451	MIN	4.0	AC-FT	62310

09331850 CONVULSION CANYON NEAR EMERY, UT

LOCATION.--Lat 38°54'23", long 111°24'40", in NE1/4SW1/4SE1/4 sec.12, T.22 S., R.4 E., Sevier County, Hydrologic Unit 14070002, on left bank about 3.5 mi downstream from Acord Lake junction, 9.5 mi to I-70, 30 mi southwest of Emery.

DRAINAGE AREA.--21.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year (seasonal records).

GAGE.--Water-stage recorder. Altitude of gage is 7,120 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.5 ft^3/s Aug. 17, gage height, 0.58 ft; minimum, 0.05 ft^3/s Aug. 30, 31, Sept. 1, 3, may have been lower during period of nonoperation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.47							---	.50	.30	.18
2	.15	.44							---	.49	.33	.18
3	.15	.41							---	.47	.38	.20
4	.15	.41							---	.47	.32	.28
5	.13	.37							---	.45	.29	.23
6	.11	.37							---	.44	.31	.21
7	.11	.37							1.1	.44	.34	.23
8	.11	.37							1.3	.44	.34	.27
9	.11	.37							1.2	.42	.34	.27
10	.11	.37							1.2	.40	.31	.31
11	.11	.31							1.1	.40	.37	.30
12	.11	.31							1.2	.40	.66	.23
13	.11	.31							1.1	.39	.82	.24
14	.13	.28							1.1	.39	.66	.22
15	.16	.26							1.1	.39	.66	.24
16	.18	.20							1.0	.38	.74	.25
17	.17	.20							.90	.38	1.3	.26
18	.21	.20							.82	.37	.74	.23
19	.31	---							.72	.36	.54	.21
20	.39	---							.66	.36	.41	.24
21	.46	---							.63	.35	.34	.30
22	.45	---							.61	.37	.28	.30
23	.47	---							.60	.42	.18	.34
24	.44	---							.59	.34	.18	.39
25	.44	---							.57	.33	.20	.41
26	.47	---							.56	.34	.18	.40
27	.47	---							.60	.32	.20	.41
28	.47	---							.52	.35	.28	.42
29	.47	---							.52	.31	.20	.45
30	.54	---							.50	.30	.15	.51
31	.58	---							---	.29	.13	---
TOTAL	8.42	---							---	12.06	12.48	8.71
MEAN	.27	---							---	.39	.40	.29
MAX	.58	---							---	.50	1.3	.51
MIN	.11	---							---	.29	.13	.18
AC-FT	17	---							---	24	25	17

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to current year.
SEDIMENT DATA: October 1980 to September 1981, periodically (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)
JUN									
07...	0925	1.2	890	8.4	19.5	10.5	8.4	578	.72
AUG									
04...	1100	.28	1140	8.4	27.0	4.5	9.4	578	.76

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUN									
07...	96	41	45	6.6	100	55	0.2	11	527
AUG									
04...	97	70	51	4.2	210	72	0.2	12	747

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN								
07...	0.80	0.20	0.60	0.12	<0.06	0.11	0.34	0.08
AUG								
04...	0.70	0.20	0.50	0.26	0.08	0.05	0.15	0.04

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
JUN											
07...	0925	1	1	10.00	0.80	1	1	30	10	5.00	2

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN										
07...	3.00	1	0.1	0.1	20	2	2	3	80	30

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 07...	0925	100	570	550	20	70	9	61
AUG 04...	0804	190	290	280	9.00	50	20	28

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
JUN 07...	0925	7.6	--
AUG 04...	1100	4.6	.4

09331950 CHRISTIANSEN WASH NEAR EMERY, UT

LOCATION.--Lat 38°51'41", long 111°15'07", in NE1/4SE1/4NW1/4 sec.33, T.22 S., R.6 E., Emery County, Hydrologic Unit 14070002, on right bank 0.3 mi upstream from mouth, at the Consol coal mine, 4.5 mi south of Emery.

DRAINAGE AREA.--13.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979-80(P), 1979-80.

GAGE.--Water-stage recorder. Altitude of gage is 5,920 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft^3/s Sept. 8, 1981, gage height, 8.83 ft; minimum, 0.29 ft^3/s July 21-23, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 20	1600	53	2.72
July 23	1830	49	2.60
July 27	1200	71	3.06
July 31	1630	48	2.52
Aug. 12	1630	*424	5.75
Aug. 30	1530	128	3.94

Minimum daily, 0.80 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	7.4	1.9	1.0	4.7	5.6	2.1	.96	6.0	11	24	6.4
2	5.5	6.7	1.6	1.0	4.6	6.0	2.0	3.6	7.3	11	24	3.4
3	7.5	5.5	1.5	1.1	4.9	7.4	1.9	3.0	5.6	7.0	19	2.0
4	8.0	6.0	1.6	1.0	4.9	16	1.6	1.4	3.9	4.3	20	1.8
5	7.8	5.5	1.6	1.3	4.3	13	1.8	1.1	3.5	3.7	22	1.9
6	6.7	5.0	1.7	1.4	4.1	6.6	1.5	.91	9.4	5.0	20	2.0
7	6.7	4.0	1.7	1.5	3.7	5.6	1.3	.90	9.6	4.2	22	2.6
8	6.5	4.2	1.6	1.8	4.9	5.4	1.3	.98	9.9	16	29	2.7
9	5.8	4.5	1.7	2.0	7.3	5.1	1.3	1.1	6.9	15	28	2.4
10	5.9	3.5	1.5	1.7	7.2	5.0	3.1	4.0	6.6	17	25	2.1
11	6.5	2.5	1.4	1.6	6.7	5.1	2.9	11	11	3.3	27	2.3
12	6.1	2.0	1.3	1.5	6.3	4.8	2.9	5.4	9.2	4.8	29	2.4
13	6.5	1.9	1.2	1.4	6.0	4.6	2.9	5.5	7.6	3.6	3.9	2.4
14	6.8	2.0	1.2	1.5	6.3	4.7	2.9	5.1	4.1	3.8	17	3.0
15	8.0	1.9	1.3	1.6	5.2	4.3	2.8	5.4	5.0	3.7	17	3.3
16	8.4	1.7	1.3	1.7	5.3	4.1	2.9	4.2	7.3	1.9	15	3.1
17	8.5	1.8	1.3	2.4	5.9	4.4	3.0	3.3	15	1.9	20	2.8
18	9.4	2.0	1.3	6.0	5.7	4.5	3.2	4.5	20	2.2	19	3.0
19	8.6	2.5	1.5	6.2	6.0	4.1	3.2	4.2	21	1.8	21	3.5
20	5.3	2.2	1.3	6.0	4.0	4.4	3.4	2.7	11	9.6	11	3.3
21	7.2	1.9	1.2	6.8	4.6	3.9	3.4	9.5	5.1	5.4	12	4.1
22	6.2	2.0	1.2	7.0	5.5	4.4	3.3	25	5.6	6.2	11	3.1
23	3.3	2.1	1.4	7.4	6.4	4.4	3.5	14	6.9	16	9.6	3.3
24	2.7	1.9	1.2	7.8	6.9	3.9	3.3	2.0	7.7	20	10	5.0
25	3.3	1.9	1.2	6.7	6.9	3.7	3.2	1.6	5.1	13	10	4.6
26	5.3	2.1	1.2	5.1	5.5	3.1	2.9	1.5	5.1	9.9	9.6	4.7
27	6.3	2.2	1.1	5.4	5.0	2.9	2.6	1.4	4.7	24	6.8	3.3
28	5.7	2.3	1.1	6.4	5.2	3.1	2.6	4.8	4.2	18	3.8	1.9
29	5.0	2.2	.90	6.0	---	3.1	1.2	8.0	3.8	19	3.3	2.5
30	6.8	2.0	.80	5.7	---	3.6	1.0	6.5	5.9	18	9.5	3.1
31	7.2	---	.90	5.6	---	3.2	---	7.8	---	21	4.4	---
TOTAL	198.4	93.4	41.70	113.6	154.0	160.0	75.0	151.35	234.0	301.3	502.9	92.0
MEAN	6.40	3.11	1.35	3.66	5.50	5.16	2.50	4.88	7.80	9.72	16.2	3.07
MAX	9.4	7.4	1.9	7.8	7.3	16	3.5	25	21	24	29	6.4
MIN	2.7	1.7	.80	1.0	3.7	2.9	1.0	.90	3.5	1.8	3.3	1.8
AC-FT	394	185	83	225	305	317	149	300	464	598	998	182

CAL YR 1982	TOTAL	1429.80	MEAN	3.92	MAX	14	MIN	.80	AC-FT	2840
WTR YR 1983	TOTAL	2117.65	MEAN	5.80	MAX	29	MIN	.80	AC-FT	4200

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to September 1981, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	NITRO-GEN DIS-SOLVED (MG/L AS N)
JUN 10...	1330	8.5	1730	8.4	22.5	18.0	8.0	615	3.5
AUG 10...	1215	24	690	8.3	31.5	18.5	7.0	614	1.3

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUN 10...	110	95	160	5.0	670	26	0.5	9.1	1340
AUG 10...	58	36	40	1.2	150	7.3	0.3	6.6	449

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN 10...	1.40	2.3	0.06	0.2	1.2	0.31	0.95	0.17
AUG 10...	1.10	0.76	0.12	0.6	0.5	0.88	2.7	0.05

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
JUN 10...	1330	2	0.00	2	--	--	--	<10.00	<0.50	220	<1
AUG 10...	1215	4	2	2	200	90.00	110	<10.00	<0.50	50.00	<1

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
JUN 10...	<1	20	<10	10	10	2	5600	5600	20	8.00	7.00
AUG 10...	<1	20	<10	20	20	1	20000	20000	10	10	10

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)
JUN 10...	1	--	--	--	2000	2000	32	0.4	0.0	0.8	9.00
AUG 10...	1	40	0.00	50	480	470	8	2.0	1.2	0.8	40

DATE	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 10...	5.00	4	6	0.00	6	--	--	--	80	0.00	90
AUG 10...	40	4	3	1	2	560	30	530	110	20	90

DATE	TIME	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
AUG 10...	1215	1	1.00	2.00	10	2.00	--	10	80	0.01	1	5.00

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
JUN 10...	1330	11	1.7	--	--
AUG 10...	1215	3.2	>4.0	0.00	10

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UT

LOCATION.--Lat 38°48'44", long 111°11'53", in SW1/4NE1/4SW1/4 sec.13, T.23 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 0.1 mi downstream from bridge on Interstate Highway I-70, 0.2 mi downstream from Ivie Creek, and 12.2 mi southeast of Emery.

DRAINAGE AREA.--418 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR UT-76-1: 1974(M), 1975.

GAGE.--Water-stage recorder. Altitude of gage is 5,630 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--21 years, 20.1 ft^3/s, 14,600 acre-ft/yr, includes record for station 09332500, 1950-61, 11 years, 15.4 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft^3/s Sept. 5, 1981, gage height, 11.25 ft from floodmark, from slope-area measurement of peak flow; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 290 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 26	0400	894	3.74
July 23	1630	1,510	4.76
Aug. 12	1430	*1,910	5.28
Aug. 30	1730	457	2.69
Sept. 24	1830	487	2.88

Minimum, 4.0 ft^3/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	32	24	10	19	30	29	57	457	235	123	28
2	26	30	17	10	16	31	29	47	398	241	131	33
3	25	31	13	11	16	35	28	52	340	225	92	20
4	29	32	14	11	17	60	24	81	325	219	89	22
5	28	31	21	11	18	51	25	132	256	210	96	15
6	29	31	14	12	19	34	25	95	280	205	80	14
7	30	31	14	11	24	31	25	62	310	206	84	13
8	29	31	16	11	26	33	28	84	318	210	80	16
9	25	31	16	12	28	31	29	135	313	199	74	13
10	26	29	17	10	23	32	30	120	342	199	66	14
11	31	29	14	11	26	34	32	112	341	194	71	10
12	32	31	13	11	24	36	32	52	332	190	335	9.0
13	31	32	15	12	26	34	28	50	288	179	141	7.8
14	31	32	10	12	27	33	27	38	246	172	80	7.4
15	33	25	13	12	25	26	24	58	232	156	85	7.4
16	31	22	22	12	27	21	29	82	250	150	96	8.0
17	34	21	20	12	25	28	31	59	236	140	74	15
18	34	20	19	21	27	27	39	52	273	141	79	14
19	35	22	16	23	23	23	35	48	315	120	83	13
20	31	17	18	25	20	20	45	43	313	132	56	10
21	32	20	18	24	23	22	43	102	335	119	55	10
22	28	17	19	20	24	26	47	248	319	109	50	11
23	24	15	19	19	22	26	51	333	309	193	44	13
24	25	12	16	18	26	21	70	512	335	109	40	62
25	24	16	14	17	28	25	86	650	317	97	42	34
26	30	15	13	18	29	25	71	588	307	85	35	21
27	31	13	13	18	26	25	57	554	300	113	36	17
28	29	19	14	17	26	30	64	487	286	96	35	43
29	26	26	12	17	---	25	65	479	277	82	38	29
30	31	26	11	17	---	26	65	555	249	77	68	66
31	33	---	9.0	18	---	33	---	556	---	95	24	---
TOTAL	905	739	484.0	463	660	934	1213	6523	9199	4898	2482	595.6
MEAN	29.2	24.6	15.6	14.9	23.6	30.1	40.4	210	307	158	80.1	19.9
MAX	35	32	24	25	29	60	86	650	457	241	335	66
MIN	22	12	9.0	10	16	20	24	38	232	77	24	7.4
AC-FT	1800	1470	960	918	1310	1850	2410	12940	18250	9720	4920	1180

CAL YR 1982	TOTAL	11635.5	MEAN	31.9	MAX	162	MIN	3.2	AC-FT	23080
WTR YR 1983	TOTAL	29095.6	MEAN	79.7	MAX	650	MIN	7.4	AC-FT	57710

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°33'47", long 110°57'13", in SW1/4SE1/4NE1/4 sec.8, T.26 S., R.9 E., Emery County, Hydrologic Unit 14070002, on left bank 19 mi northwest of Hanksville and 70 mi southwest of Green River.

DRAINAGE AREA.--841 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--8 years, 29.1 ft^3/s, 21,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,840 ft^3/s Sept. 10, 1980, gage height, 9.60 ft from rating curve extended on basis of slope-area measurement of peak flow; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 13	unknown	1,770	5.03
Sept. 25	0730	*1,820	5.10

Minimum daily, 4.0 ft^3/s Dec. 30 and 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	25	32	4.5	18	41	30	61	540	225	66	22
2	24	24	25	6.0	15	42	25	49	450	231	80	28
3	26	26	18	7.0	15	41	26	40	360	208	128	29
4	27	28	13	8.0	16	327	24	60	328	208	64	14
5	28	27	16	9.0	16	182	21	130	280	199	60	13
6	27	27	13	10	17	56	23	102	260	199	80	12
7	28	27	13	9.0	21	37	22	86	250	205	59	11
8	30	26	14	10	23	33	20	67	299	197	89	9.7
9	24	26	15	9.0	25	35	23	90	290	200	65	12
10	24	25	15	10	20	31	23	130	288	200	61	7.6
11	26	25	13	10	23	32	25	96	321	175	58	8.0
12	27	26	13	10	21	35	28	88	312	157	64	6.3
13	28	27	12	10	23	36	26	55	287	149	300	5.6
14	29	26	9.0	10	24	35	22	45	260	136	120	5.7
15	31	18	12	9.0	22	32	21	38	250	124	71	5.6
16	30	14	11	9.0	24	25	18	54	242	110	66	5.5
17	31	16	11	11	22	21	20	84	214	100	78	5.7
18	33	18	12	20	24	27	22	56	247	93	63	13
19	33	20	11	22	20	26	32	47	279	84	87	10
20	34	17	13	23	18	22	28	40	305	63	72	4.9
21	29	18	12	24	20	20	40	44	310	72	48	4.9
22	31	19	12	19	21	22	37	88	308	58	46	5.0
23	24	14	11	18	20	26	39	283	301	68	40	8.3
24	24	13	11	17	23	25	48	318	317	190	33	9.2
25	25	14	8.0	16	26	23	77	484	306	69	29	85
26	23	12	4.9	17	27	30	84	595	300	60	29	20
27	27	10	4.7	17	25	25	74	559	294	55	23	16
28	30	15	4.6	16	24	24	53	514	281	110	24	14
29	25	22	4.5	16	---	27	61	452	271	70	22	44
30	24	26	4.0	16	---	22	60	438	257	62	27	28
31	23	---	4.0	17	---	23	---	520	---	54	54	---
TOTAL	846	631	371.7	409.5	593	1383	1052	5713	9007	4131	2106	463.0
MEAN	27.3	21.0	12.0	13.2	21.2	44.6	35.1	184	300	133	67.9	15.4
MAX	34	28	32	24	27	327	84	595	540	231	300	85
MIN	21	10	4.0	4.5	15	20	18	38	214	54	22	4.9
AC-FT	1680	1250	737	812	1180	2740	2090	11330	17870	8190	4180	918

CAL YR 1982	TOTAL	10698.63	MEAN	29.3	MAX	273	MIN	.00	AC-FT	21220
WTR YR 1983	TOTAL	26706.2	MEAN	73.2	MAX	595	MIN	4.0	AC-FT	52970

NOTE.--No gage-height record Jan. 8 to Mar. 1.

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA.--October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM
NOV												
30...	1330	33	2680	8.2	6.0	1.0	836	600	170	100	360	48
JAN												
11...	1300	E10	2980	8.0	8.0	.0	886	640	190	100	370	47
MAR												
01...	1205	43	3290	8.3	14.5	7.0	902	650	180	110	440	51
APR												
07...	1240	16	2610	8.5	13.0	9.5	753	--	140	98	320	48
MAY												
06...	1340	98	1030	8.5	17.5	10.5	368	--	93	33	85	33
JUN												
15...	1230	250	870	8.5	30.5	14.0	325	--	69	37	66	31
JUL												
13...	1215	150	900	8.4	36.0	19.5	309	--	66	35	66	32
AUG												
18...	1230	74	1650	8.2	32.5	20.5	514	--	120	52	170	42
SEP												
01...	1210	22	2400	8.2	34.5	24.0	854	--	220	74	220	36

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV												
30...	5.6	4.6	240	1000	220	0.4	9.6	2009	2.7	180	1.7	0.01
JAN												
11...	5.6	4.3	250	980	290	0.4	9.5	2094	2.8	56.5	1.0	0.01
MAR												
01...	6.5	5.6	256	1100	360	0.4	8.8	2359	3.2	274	1.1	--
APR												
07...	5.2	4.3	204	970	170	0.4	8.5	1834	2.5	80.2	0.84	0.02
MAY												
06...	2.0	3.1	177	310	44	0.3	6.6	681	0.93	180	0.26	0.01
JUN												
15...	1.6	1.8	232	210	29	0.4	7.4	560	0.76	378	0.47	0.02
JUL												
13...	1.7	1.7	203	200	31	0.3	6.4	528	0.72	214	0.52	0.03
AUG												
18...	3.4	4.9	175	620	76	0.3	8.3	1157	1.6	231	0.59	0.02
SEP												
01...	3.4	9.4	115	1100	98	0.5	8.6	1800	2.4	107	1.4	0.04

E Estimate

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV		
30...	1330	240
JAN		
11...	1300	240
MAR		
01...	1205	230
APR		
07...	1240	220
MAY		
06...	1340	80
JUN		
15...	1230	70
JUL		
13...	1215	60
AUG		
18...	1230	140
SEP		
01...	1210	230

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
NOV									
30...	1330	33	1.0	1980	177	--	--	--	--
MAR									
01...	1205	43	7.0	5060	587	--	--	--	--
APR									
07...	1240	16	9.5	405	18	58	76	94	97
MAY									
06...	1340	98	10.5	10600	2800	--	--	--	--
JUN									
15...	1230	250	14.0	2530	1710	24	33	46	86

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°05'50", long 110°24'27", in NE1/4SW1/4SE1/4 sec.20, T.31 S., R.14 E., Garfield County, Hydrologic Unit 14070004, on right bank 0.25 mi upstream from Poison Spring Wash and 25.5 mi southeast of Hanksville.

DRAINAGE AREA.--4,159 mi^2.

PERIOD OF RECORD.--June 1948 to current year. Prior to October 1968 published as "near Hite."

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-80-1: 1979, 1977-79(P).

GAGE.--Water-stage recorder. Altitude of gage is 3,850 ft from topographic map. Prior to July 15, 1964, at site 28 mi downstream at different datum. July 15, 1964 to Dec. 14, 1976, approximately 1,200 ft upstream at datum 4.83 ft higher. Dec. 15, 1976 to Sept. 30, 1980 at site 400 ft upstream at datum 4.28 ft higher.

REMARKS.--Records poor. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--35 years, 99.1 ft^3/s, 71,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,000 ft^3/s Nov. 4, 1957, gage height, 28.1 ft from floodmarks, site and datum then in use, from rating curve extended above 9,000 ft^3/s on basis of slope-area measurement at gage height 20.65 ft; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 948 ft^3/s July 3, no peak above base of 2,700 ft^3/s; minimum daily, 13 ft^3/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	126	140	64	134	104	94	117	705	506	126	109
2	69	126	170	113	137	113	103	108	662	699	294	87
3	68	100	155	150	139	146	105	71	620	948	76	66
4	67	109	157	180	140	190	96	49	652	562	294	65
5	67	104	178	210	140	704	112	38	588	267	61	66
6	66	117	150	225	142	392	147	42	543	247	72	85
7	64	109	145	240	142	252	138	117	500	232	42	90
8	64	115	150	250	142	222	136	139	481	257	40	76
9	64	116	171	235	140	304	115	78	470	267	27	68
10	64	117	175	200	139	247	90	69	490	299	20	74
11	66	141	187	170	138	214	101	351	505	290	24	55
12	68	122	177	155	138	227	101	451	540	286	551	38
13	67	100	198	148	130	214	115	358	680	281	466	32
14	65	89	176	135	128	232	122	159	760	257	462	29
15	64	109	182	115	120	257	127	68	660	82	352	24
16	65	79	152	121	118	190	105	46	605	58	237	19
17	64	79	161	123	115	146	105	174	575	40	209	14
18	65	66	175	125	109	152	99	177	565	33	232	33
19	67	122	180	126	113	200	102	90	540	28	237	22
20	68	170	212	130	100	180	93	64	535	27	247	27
21	68	179	177	139	104	152	93	40	520	32	281	22
22	68	130	170	140	96	146	109	29	500	36	257	14
23	72	97	270	140	109	161	124	40	438	109	242	13
24	76	130	232	138	109	157	111	172	447	25	252	22
25	76	140	237	138	122	160	86	302	471	218	161	25
26	89	103	72	139	141	146	128	367	486	51	82	164
27	100	91	20	139	146	122	334	443	496	48	122	79
28	93	89	18	140	122	122	254	506	486	104	56	98
29	104	100	19	137	---	136	167	556	491	277	72	63
30	122	126	18	135	---	126	129	560	471	86	96	142
31	131	---	51	134	---	114	---	607	---	44	99	---
TOTAL	2321	3401	4675	4734	3553	6228	3741	6388	16482	6696	5789	1721
MEAN	74.9	113	151	153	127	201	125	206	549	216	187	57.4
MAX	131	179	270	250	146	704	334	607	760	948	551	164
MIN	64	66	18	64	96	104	86	29	438	25	20	13
AC-FT	4600	6750	9270	9390	7050	12350	7420	12670	32690	13280	11480	3410

CAL YR 1982	TOTAL	40726	MEAN	112	MAX	1200	MIN	18	AC-FT	80780
WTR YR 1983	TOTAL	65729	MEAN	180	MAX	948	MIN	13	AC-FT	130400

09337000 PINE CREEK NEAR ESCALANTE, UT

LOCATION.--Lat 37°51'45", long 111°38'07", in SW1/4NE1/4SW1/4 sec.12, T.34 S., R.2 E., Garfield County, Hydrologic Unit 14070005, on right bank 0.2 mi upstream from unnamed right bank tributary and 7 mi north of Escalante.

DRAINAGE AREA.--68.1 mi^2.

PERIOD OF RECORD.--July 1950 to September 1955, July 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and servo-manometer. Altitude of gage is 6,400 ft from topographic map.

REMARKS.--Records fair. No diversion above station.

AVERAGE DISCHARGE.--31 years, 4.80 ft^3/s, 3,480 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft^3/s Aug. 2, 1967, gage height, 7.72 ft, from rating curve extended above 35 ft^3/s on basis of slope-area measurement at gage height 7.70 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	2130	*187	4.07
July 23	1430	114	3.30

Minimum, 0.85 ft^3/s Mar. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	6.3	5.6	4.2	3.1	4.8	5.3	11	67	28	17	11
2	5.2	5.7	5.6	5.4	2.8	4.9	5.6	11	61	28	16	11
3	5.0	5.8	5.2	5.8	3.1	4.9	5.8	11	52	28	17	11
4	5.0	6.8	5.0	6.2	3.4	5.3	4.2	12	47	27	18	10
5	5.0	6.9	5.4	6.9	2.7	4.7	5.5	14	40	28	16	10
6	5.1	6.7	5.6	7.0	4.0	4.5	5.3	15	45	29	19	9.8
7	5.0	6.1	5.8	7.2	4.7	4.3	6.2	15	42	29	17	10
8	5.0	6.2	6.4	7.8	5.1	4.5	6.0	18	39	29	16	10
9	5.0	6.3	6.8	8.4	5.0	4.8	6.3	20	36	31	15	9.8
10	5.2	6.0	6.0	7.2	4.3	5.0	5.9	22	35	29	15	9.5
11	5.2	5.1	5.1	6.8	3.8	5.4	5.8	19	35	29	16	9.1
12	5.2	4.9	5.4	6.0	4.0	5.8	5.5	20	40	28	17	9.1
13	5.2	5.3	5.7	5.5	4.5	5.9	5.8	20	34	27	16	8.9
14	5.0	4.0	5.8	5.2	4.0	5.9	5.3	19	30	27	15	8.9
15	5.0	3.1	5.9	5.0	3.7	4.7	5.1	19	28	27	15	8.8
16	5.0	4.2	6.1	6.3	4.4	4.5	5.6	19	29	29	14	8.6
17	5.0	4.5	6.3	5.5	5.4	5.4	6.6	18	29	28	16	9.8
18	5.0	5.2	6.4	4.0	6.6	5.1	7.0	19	26	29	21	9.5
19	5.0	5.9	6.7	3.2	7.0	4.7	7.3	19	25	30	17	8.6
20	5.0	5.9	7.0	2.7	7.8	4.5	7.7	19	25	30	16	8.3
21	5.2	5.6	7.1	3.0	6.0	4.4	7.3	20	25	32	15	8.6
22	5.2	6.4	7.6	3.3	5.2	5.8	7.9	24	24	33	15	8.6
23	5.2	5.6	8.0	3.6	4.6	5.2	9.6	27	25	31	13	8.9
24	5.2	6.2	6.9	3.3	4.5	4.2	11	32	27	16	13	9.2
25	5.2	5.3	6.3	3.3	5.3	5.2	12	35	28	16	13	9.2
26	5.4	6.0	4.0	3.2	4.6	5.9	12	26	28	16	12	8.6
27	6.0	6.6	4.5	3.1	4.5	5.5	12	43	29	16	12	10
28	4.7	7.3	5.4	3.0	4.7	5.1	12	49	28	14	12	9.2
29	5.9	5.9	4.5	2.9	---	5.1	12	65	28	13	12	9.5
30	6.3	5.2	3.6	2.8	---	5.7	12	67	28	13	12	18
31	6.6	---	3.8	3.1	---	6.0	---	84	---	16	12	---
TOTAL	162.6	171.0	179.5	150.9	128.8	157.7	225.6	812	1035	786	470	291.5
MEAN	5.25	5.70	5.79	4.87	4.60	5.09	7.52	26.2	34.5	25.4	15.2	9.72
MAX	6.6	7.3	8.0	8.4	7.8	6.0	12	84	67	33	21	18
MIN	4.7	3.1	3.6	2.7	2.7	4.2	4.2	11	24	13	12	8.3
AC-FT	323	339	356	299	255	313	447	1610	2050	1560	932	578

CAL YR 1982	TOTAL	3042.7	MEAN	8.34	MAX	62	MIN	2.4	AC-FT	6040
WTR YR 1983	TOTAL	4570.6	MEAN	12.5	MAX	84	MIN	2.7	AC-FT	9070

NOTE: No gage-height record Dec. 3 to Mar. 6.

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE1/4NW1/4SE1/4 sec.9, T.35 S., R.3 E., Garfield County, Hydrologic Unit 14070005, on left bank 150 ft downstream from Pine Creek and 2 mi northeast of Escalante.

DRAINAGE AREA.--320 mi^2.

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WRD UT-73-1: 1972.

GAGE.--Water-stage recorder. Altitude of gage, 5,670 ft from topographic map. Prior to Apr. 30, 1913, staff gage at approximately same site at different datum.

REMARKS.--Records fair. Diversions above station for irrigation of about 2,300 acres of crop and pastureland.

AVERAGE DISCHARGE.--27 years (1909-12, 1942-55, 1972-83), 15.5 ft^3/s, 11,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft^3/s, August 1953, day unknown, gage height, 9.9 ft from outside high-water mark, from rating curve extended above 540 ft^3/s on basis of slope-area measurements at gage heights, 5.50 ft and 7.34 ft from inside gage and 7.59 ft from outside high-water mark; minimum, 0.07 ft^3/s Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 192 ft^3/s June 1; minimum daily, 4.0 ft^3/s Jan. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	7.8	7.7	7.8	5.0	31	31	28	192	54	24	16
2	6.3	7.6	7.3	7.8	5.3	32	18	27	180	46	21	16
3	6.3	8.0	6.7	8.2	9.4	37	20	29	152	56	24	13
4	6.4	8.6	7.2	9.4	9.9	45	6.3	27	137	34	27	11
5	6.5	9.2	7.5	10	5.3	36	9.4	38	120	37	27	9.0
6	6.5	8.9	7.7	10	5.9	29	10	14	139	36	36	6.3
7	6.5	8.0	8.0	12	12	26	9.9	13	155	56	59	5.6
8	6.2	7.5	9.0	10	16	18	14	17	155	47	32	5.9
9	6.5	7.2	9.6	15	6.6	15	16	21	163	52	25	7.0
10	6.3	7.2	8.7	10	7.0	20	28	26	166	50	73	7.0
11	6.3	7.0	8.0	11	5.0	24	19	50	155	50	51	5.6
12	6.3	6.8	7.8	10	5.0	25	12	42	156	52	47	5.6
13	6.3	7.0	7.8	9.0	5.6	30	20	41	147	9.9	59	5.6
14	6.4	6.9	7.8	10	7.7	30	18	61	134	9.9	51	5.9
15	6.4	6.8	7.8	12	5.0	24	13	16	134	11	28	6.6
16	6.5	7.0	8.0	10	5.9	12	15	16	137	13	12	5.6
17	6.6	7.2	8.2	15	7.0	16	17	21	139	12	18	14
18	6.7	7.6	8.7	7.0	8.6	22	18	16	132	13	31	48
19	6.7	8.0	8.0	9.0	22	20	25	23	134	12	64	15
20	6.8	8.4	7.8	4.5	9.9	12	31	28	114	11	43	15
21	6.8	8.4	8.6	5.0	11	12	21	20	87	12	21	13
22	6.8	8.5	10	4.0	12	13	26	24	93	15	19	11
23	6.8	8.3	13	15	12	15	34	30	93	25	17	15
24	6.8	8.1	10	19	15	11	37	43	95	22	20	16
25	6.9	7.9	8.5	14	24	7.4	40	56	91	19	21	17
26	7.1	8.2	7.0	12	17	11	27	73	91	19	17	20
27	7.4	8.6	10	10	24	7.4	34	103	78	20	15	23
28	6.9	9.0	17	8.1	29	17	28	95	59	19	18	16
29	6.8	8.6	13	5.9	---	23	16	105	62	20	16	26
30	7.4	8.0	10	5.9	---	27	24	127	62	16	18	87
31	7.8	---	8.2	7.7	---	40	---	166	---	18	20	---
TOTAL	206.3	236.3	274.6	304.3	308.1	687.8	637.6	1396	3752	866.8	954	467.7
MEAN	6.65	7.88	8.86	9.82	11.0	22.2	21.3	45.0	125	28.0	30.8	15.6
MAX	7.8	9.2	17	19	29	45	40	166	192	56	73	87
MIN	6.2	6.8	6.7	4.0	5.0	7.4	6.3	13	59	9.9	12	5.6
AC-FT	409	469	545	604	611	1360	1260	2770	7440	1720	1890	928

CAL YR 1982	TOTAL	4969.2	MEAN	13.6	MAX	63	MIN	1.6	AC-FT	9860
WTR YR 1983	TOTAL	10091.5	MEAN	27.6	MAX	192	MIN	4.0	AC-FT	20020

09368000 SAN JUAN RIVER AT SHIPROCK, NM
(National stream-quality accounting network, surveillance network, and radiochemical network station)

LOCATION.--Lat 36°47'32", long 108°43'54", in NW1/4 sec.27, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on left bank 3 mi west of Shiprock, 6 mi downstream from Chaco River, and at mile 215.0.

DRAINAGE AREA.--12,900 mi^2, approximately.

PERIOD OF RECORD.--January to October 1911, February 1927 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is 4,848.68 ft NGVD of 1929 (river-profile survey). Prior to Apr. 6, 1922, nonrecording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 mi upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

REMARKS.--Records good. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres above station. Ungaged canals bypass station on both right and left bank, though some of bypass flow is returned to river below gage.

AVERAGE DISCHARGE.--57 years (water years 1927-83), 2,181 ft^3/s, 1,580,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD (SINCE 1927).--Maximum discharge, about 80,000 ft^3/s Aug. 11, 1929, gage height, 5.7 ft, site and datum then in use; minimum daily, 8 ft^3/s Aug. 25, 26, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 1	0515	7,150	6.75
June 25	0945	*9,090	7.34

Minimum daily, 820 ft^3/s Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1880	1510	1240	2220	2340	2380	3170	4760	6810	5600	1960	1050
2	2030	1510	1230	2210	2260	2400	3200	4260	6260	5510	1890	1010
3	2020	1510	1130	2210	2190	2380	3130	4100	5580	5290	2070	1050
4	1860	1520	1040	2240	2210	2430	3130	3890	4290	5630	4040	1100
5	1740	1500	1050	2270	2240	2630	3130	3950	4040	5740	3400	1050
6	1700	1510	1040	2240	2180	2300	3050	4370	4160	5470	3870	1020
7	1600	1500	1430	2270	2120	2170	3040	4700	4080	5180	2710	941
8	1570	1510	1800	2340	2150	2340	2990	4570	4150	5320	2440	1040
9	1590	1610	1890	2330	2210	2340	2940	4630	4480	5610	2080	1060
10	1630	1750	2060	2300	2180	2300	2980	5130	4250	5420	1940	1070
11	1600	1780	2310	2290	2140	2410	3090	5360	4030	5360	1850	1040
12	1600	1770	2250	2310	2190	2480	3110	4990	4350	4680	2570	993
13	1410	1660	2200	2310	2160	2510	3180	3670	4840	4010	2010	1010
14	1150	1640	2100	2340	2220	2570	3260	3330	4350	3360	1900	909
15	1140	1650	2080	2350	2280	2800	3300	2920	3780	3050	1760	901
16	1100	1450	2050	2380	2180	2600	3250	2780	3800	2580	1700	862
17	1060	1170	2000	2390	2220	2440	3200	2760	4500	2410	1590	880
18	1030	1150	1950	2490	2230	2480	3200	2780	5400	2510	1400	905
19	1140	1070	1940	2460	2200	2460	3360	2820	6500	2260	1340	886
20	1270	1050	1930	2500	2170	2410	3490	3020	7300	2270	1310	820
21	1340	1010	1920	2440	2170	2410	3720	2850	7200	2310	1160	852
22	1340	997	1950	2440	2150	2650	3870	2630	7100	2330	1180	917
23	1350	983	2160	2320	2160	2770	3940	3020	7000	2910	1130	1050
24	1320	1050	2300	2330	2250	2780	3970	3680	7000	2840	983	1220
25	1320	1050	2230	2300	2300	2890	4390	4300	8020	2840	1010	1160
26	1300	1050	2150	2320	2430	2890	4920	4740	7320	3160	1200	1160
27	1430	1070	2170	2280	2420	2830	4880	5110	6500	4010	1220	1200
28	1560	1100	2200	2300	2340	2800	4850	5830	6300	3480	1330	1220
29	1500	1110	2090	2370	---	2980	4670	6250	5830	2550	1240	1520
30	1500	1170	2120	2430	---	3020	4600	6290	5680	2010	1150	1770
31	1520	---	2190	2330	---	3070	---	6260	---	1980	1110	---
TOTAL	45600	40410	58200	72310	62290	79920	107010	129750	164900	117680	56543	31666
MEAN	1471	1347	1877	2333	2225	2578	3567	4185	5497	3796	1824	1056
MAX	2030	1780	2310	2500	2430	3070	4920	6290	8020	5740	4040	1770
MIN	1030	983	1040	2210	2120	2170	2940	2630	3780	1980	983	820
AC-FT	90450	80150	115400	143400	123600	158500	212300	257400	327100	233400	112200	62810

CAL YR 1982	TOTAL	749589	MEAN	2054	MAX	6560	MIN	648	AC-FT	1487000
WTR YR 1983	TOTAL	966279	MEAN	2647	MAX	8020	MIN	820	AC-FT	1917000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for New Mexico, 1983."

09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT

LOCATION.--Lat 37°52'23", long 109°21'57", in SE1/4SW1/4 sec.26, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 0.5 mi northwest of Baker Ranger Station, 1.3 mi west of Monticello.

DRAINAGE AREA.--8.68 mi^2.

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91 ft^3/s June 2, 1983, gage height, 5.64 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 25	1900	49	5.31
June 2	0100	*91	5.64

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.14	.14	.25	.40	.68	16	73	14	.06	.00
2	.00	.01	.14	.18	.25	.44	.67	14	73	12	.06	.00
3	.00	.01	.17	.21	.18	.40	.69	16	44	10	.06	.00
4	.00	.01	.20	.22	.17	.30	.65	18	34	9.8	.06	.00
5	.00	.01	.20	.24	.20	.26	.59	22	34	7.6	.05	.00
6	.00	.01	.19	.24	.21	.27	.60	20	30	6.9	.04	.00
7	.00	.01	.17	.22	.14	.31	.59	19	29	7.1	.04	.00
8	.00	.01	.16	.20	.18	.34	.53	22	30	6.5	.03	.00
9	.00	.01	.17	.18	.19	.39	.58	24	32	5.3	.03	.00
10	.00	.01	.15	.32	.20	.41	.60	24	32	4.5	.02	.00
11	.00	.02	.12	.28	.22	.45	.67	23	31	3.5	.01	.00
12	.00	.02	.10	.27	.25	.50	.66	19	42	2.3	.00	.00
13	.00	.02	.09	.25	.25	.58	.65	17	36	1.3	.00	.00
14	.00	.02	.07	.17	.27	.69	.68	14	23	.71	.00	.00
15	.00	.02	.06	.17	.30	.78	.68	10	16	.62	.00	.00
16	.00	.03	.05	.18	.32	.67	.65	7.7	15	.50	.00	.00
17	.00	.12	.05	.13	.29	.55	.94	6.3	18	.40	.00	.00
18	.00	.19	.05	.12	.19	.54	1.5	6.1	26	.34	.00	.00
19	.00	.28	.04	.14	.23	.49	2.2	6.8	36	.32	.00	.00
20	.00	.29	.04	.14	.24	.47	3.9	6.3	34	.24	.00	.00
21	.00	.26	.03	.14	.31	.46	8.4	5.4	30	.21	.00	.00
22	.00	.27	.06	.14	.39	.44	11	4.6	28	.16	.00	.00
23	.00	.24	.16	.16	.50	.46	14	5.9	26	.17	.00	.00
24	.00	.22	.14	.18	.60	.42	25	17	27	.11	.00	.00
25	.00	.31	.13	.18	.60	.41	28	24	22	.10	.00	.00
26	.00	.26	.14	.19	.25	.40	23	30	22	.08	.00	.00
27	.00	.27	.21	.20	.22	.41	20	48	18	.08	.00	.00
28	.00	.27	.17	.22	.21	.42	20	59	16	.08	.00	.00
29	.01	.26	.13	.23	---	.49	25	56	16	.07	.00	.00
30	.01	.16	.12	.23	---	.55	24	62	16	.07	.00	.00
31	.01	---	.12	.25	---	.67	---	64	---	.07	.00	---
TOTAL	.03	3.63	3.77	6.12	7.61	14.37	217.11	687.1	909	95.13	.46	.00
MEAN	.00	.12	.12	.20	.27	.46	7.24	22.2	30.3	3.07	.01	.00
MAX	.01	.31	.21	.32	.60	.78	28	64	73	14	.06	.00
MIN	.00	.01	.03	.12	.14	.26	.53	4.6	15	.07	.00	.00
AC-FT	.06	7.2	7.5	12	15	29	431	1360	1800	189	.9	.00

CAL YR 1982	TOTAL	10.59	MEAN	.03	MAX	.31	MIN	.00	AC-FT	21
WTR YR 1983	TOTAL	1944.33	MEAN	5.33	MAX	73	MIN	.00	AC-FT	3860

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UT

LOCATION.--Lat 40°55'14", long 111°35'59", in NE1/4SE1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi southeast of Morgan.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

REMARKS.--Reservoir was formed in 1896 by a 58-ft rockfill dam, capacity, 3,850 acre-ft, which was raised 25 ft in 1900, capacity, 9,000 acre-ft, raised 12 ft more in 1902, capacity, 14,000 acre-ft, was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (revised), and was replaced in 1966 by present concrete thin-arch dam which forms a reservoir having an active capacity of 48,110 acre-ft between elevation 5,577.0 ft and 5,705.0 ft. Dead storage, 3,090 acre-ft. Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 49,840 acre-ft June 1, 1983, elevation, 5,707.5 ft; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 49,840 acre-ft June 1, elevation, 5,707.5 ft; minimum observed, 35,130 acre-ft Apr. 18, elevation, 5,684.3 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,684	34,960	5,700	44,760
5,685	35,530	5,707	49,490
5,690	38,470	5,708	50,190

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	41050	---	---	---	39800	49840	---	48250	45750
2	36520	---	40920	---	---	---	38590	---	---	48730	---	---
3	---	---	---	41050	40730	40240	---	---	---	---	---	45680
4	---	---	40920	---	---	---	---	40490	49630	---	48180	---
5	---	---	---	---	40730	40360	37760	---	---	48660	---	---
6	---	39440	40920	41050	---	---	---	---	---	---	48180	45680
7	---	---	---	---	---	40610	37150	41610	49490	48660	---	45680
8	---	---	---	41050	40670	---	---	---	---	---	---	---
9	36860	---	40920	---	---	---	36690	42240	49420	48590	48110	---
10	---	---	---	41110	40670	40800	---	---	---	---	---	45160
11	---	---	40920	---	---	---	36280	42880	49280	48660	48110	---
12	---	---	---	41110	40610	41110	---	---	---	---	---	---
13	---	40050	---	---	---	---	---	---	---	---	48110	44560
14	---	---	40920	---	40490	42050	35650	43270	49280	---	---	---
15	---	---	---	41110	---	42370	---	---	---	---	---	43850
16	37510	---	40980	---	40420	---	35190	---	49140	48590	48040	---
17	---	---	---	---	---	42370	---	43460	---	---	---	43080
18	---	---	40980	41110	---	42370	35130	---	49080	---	48110	---
19	---	---	---	---	40240	---	---	43460	---	48520	---	---
20	---	40550	---	41170	---	---	35360	---	49080	---	48110	41930
21	---	---	40980	---	40110	41610	---	43590	---	48460	---	---
22	37940	40610	---	41770	---	---	---	---	49010	---	47630	41300
23	---	---	41050	---	40110	41050	36520	43920	---	48520	---	---
24	---	40670	---	---	---	---	---	---	---	---	---	40610
25	---	---	41050	41050	---	---	---	44960	49010	---	46620	---
26	---	---	---	---	39990	40240	38060	---	---	48520	---	39870
27	---	40730	41050	40920	---	---	---	---	48940	---	46010	---
28	---	---	---	---	39990	39620	38710	47500	---	48390	---	39190
29	38590	---	---	40800	---	---	---	48870	48800	---	45950	---
30	---	40800	41050	---	---	39070	39250	49420	48800	48320	---	38650
31	38830	---	41050	40730	---	38950	---	49630	---	48250	45820	---
(#)	---	5693.8	---	5693.7	5692.5	---	5691.3	---	---	---	---	---
(*)	+2720	+1970	+250	-320	-740	-1040	+300	+10380	-830	-550	-2430	-7170

CAL YR 1982 . . . . . (*) +9130
WTR YR 1983 . . . . . (*) +2540

(#) ELEVATION, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE READING, CONTENTS INTERPOLATED

09378630 RECAPTURE CREEK NEAR BLANDING, UT

LOCATION.--Lat 37°45'20", long 109°28'33", in NW1/4NE1/4NW1/4 sec.11, T.35 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on right bank 100 ft below road fork, 1.9 mi north of Manti-LaSal National Forest boundary, and 9.4 mi north of Blanding.

DRAINAGE AREA.--3.77 mi^2.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,200 ft from topographic map.

REMARKS.--Records good except for winter period, which are poor.

AVERAGE DISCHARGE.--18 years, 1.48 ft^3/s, 1,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft^3/s Oct. 20, 1972, gage height, 2.14 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8.0 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	1630	15	1.21
Mar. 31	1630	16	1.24
Apr. 24	1800	*76	1.78
May 10	1800	46	1.59
May 30	2100	41	1.55

No flow Jan. 13, 14, Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.07	.06	.04	.13	1.0	5.5	20	31	1.4	.19	.02
2	.04	.07	.05	.05	.13	1.3	5.5	17	29	1.2	.12	.02
3	.04	.07	.05	.06	.10	1.1	5.2	18	24	.99	.58	.02
4	.04	.07	.05	.07	.10	.90	3.8	22	21	.83	.40	.02
5	.04	.07	.06	.07	.13	.80	2.8	25	21	.71	.21	.02
6	.04	.07	.05	.07	.13	.80	2.6	25	20	.62	.17	.01
7	.04	.07	.05	.06	.07	.90	2.0	26	19	.62	.15	.02
8	.04	.07	.06	.03	.10	1.6	2.0	30	20	.62	.13	.02
9	.04	.11	.06	.02	.10	2.4	2.2	34	20	.54	.14	.02
10	.04	.10	.06	.04	.13	3.8	2.6	38	18	.40	.12	.01
11	.04	.09	.07	.02	.16	5.9	2.4	34	17	.34	.12	.01
12	.04	.07	.06	.02	.19	8.9	2.0	27	19	.28	.12	.01
13	.04	.07	.06	.02	.19	9.9	1.8	25	16	.19	.10	.01
14	.04	.09	.05	.01	.23	12	1.6	21	12	.13	.09	.01
15	.04	.10	.04	.01	.34	6.9	1.5	17	11	.10	.09	.01
16	.04	.07	.04	.02	.47	4.0	2.0	15	11	.07	.08	.01
17	.04	.07	.04	.01	.40	2.8	5.0	13	11	.07	.08	.01
18	.04	.07	.04	.01	.23	2.4	9.9	12	13	.04	.08	.01
19	.04	.08	.03	.02	.34	2.0	15	12	14	.04	.08	.01
20	.04	.07	.03	.02	.34	1.8	15	12	14	.04	.06	.01
21	.04	.07	.02	.02	.54	1.6	17	13	12	.04	.05	.01
22	.04	.07	.03	.02	.90	1.5	17	18	8.1	.04	.05	.01
23	.04	.07	.06	.03	1.4	1.3	24	25	5.9	.90	.05	.01
24	.04	.07	.05	.04	1.9	.60	41	29	4.9	.47	.05	.02
25	.04	.07	.04	.04	1.9	1.4	44	30	4.6	.21	.03	.01
26	.07	.07	.05	.06	.97	1.2	30	32	3.0	.18	.03	.01
27	.07	.07	.06	.07	.72	1.1	23	38	2.8	.16	.03	.03
28	.05	.07	.05	.11	.70	1.0	23	37	2.4	.15	.03	.01
29	.04	.07	.04	.12	---	1.3	24	38	1.9	.12	.02	.03
30	.04	.07	.03	.12	---	4.6	26	39	1.7	.12	.03	1.2
31	.07	---	.03	.13	---	8.5	---	37	---	.18	.02	---
TOTAL	1.34	2.25	1.47	1.43	13.04	95.30	359.4	779	408.3	11.80	3.50	1.62
MEAN	.04	.07	.05	.05	.47	3.07	12.0	25.1	13.6	.38	.11	.05
MAX	.07	.11	.07	.13	1.9	12	44	39	31	1.4	.58	1.2
MIN	.04	.07	.02	.01	.07	.60	1.5	12	1.7	.04	.02	.01
AC-FT	2.7	4.5	2.9	2.8	26	189	713	1550	810	23	6.9	3.2

CAL YR 1982	TOTAL	258.29	MEAN	.71	MAX	9.9	MIN	.00	AC-FT	512
WTR YR 1983	TOTAL	1678.45	MEAN	4.60	MAX	44	MIN	.01	AC-FT	3330

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT

LOCATION.--Lat 37°40'51", long 109°27'43", in SW1/4SW1/4SE1/4 sec.2, T.36 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on left bank 0.2 mi downstream from Johnson Creek, 1.5 mi upstream from U.S. Highway 163 and 4.3 mi northwest of Blanding.

DRAINAGE AREA.--50.2 mi^2.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 10.4 ft^3/s, 7,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft^3/s Mar. 14, 1981, gage height, 5.67 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 230 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 24	1815	*477	4.74
May 29	0315	239	3.83

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.94	.10	.14	1.5	17	40	95	129	13	1.3	.01
2	.27	.28	.10	.18	1.5	25	34	84	114	11	.08	.01
3	.23	.12	.14	.20	1.2	23	32	87	80	8.4	.08	.01
4	.18	.04	.18	.20	.90	19	22	99	75	7.4	.18	.01
5	.11	.44	.22	.21	1.1	18	21	113	74	5.2	.18	.01
6	.07	.01	.18	.21	1.2	18	19	120	71	9.7	.17	.01
7	.06	.00	.17	.22	1.0	19	14	109	68	9.7	.07	.01
8	.05	.00	.10	.22	1.1	21	15	140	67	10	.06	.01
9	.03	3.9	.16	.22	1.3	22	18	174	64	10	.06	.01
10	.03	3.6	.14	.22	2.0	23	22	194	58	10	.06	.00
11	.02	2.5	.10	.22	2.3	34	23	187	56	9.4	.06	.00
12	.02	.99	.08	.22	3.2	44	17	127	58	9.7	.06	.00
13	.01	.30	.06	.18	3.2	46	16	123	49	12	.06	.00
14	.01	.16	.04	.12	4.2	58	15	113	40	14	.05	.00
15	.00	.11	.04	.12	5.4	39	14	107	37	13	.05	.00
16	.00	.13	.03	.18	6.8	26	17	105	35	12	.05	.00
17	.00	.14	.08	.08	5.8	20	35	79	36	12	.04	.00
18	.00	.18	.08	.06	5.0	19	62	72	39	12	.04	.00
19	.00	1.3	.04	.10	6.0	18	84	72	41	10	.04	.00
20	.00	1.9	.06	.10	6.6	16	87	70	39	.37	.04	.00
21	.00	.57	.10	.10	8.0	14	78	75	34	.14	.03	.00
22	.00	.37	.22	.10	10	14	86	91	35	.16	.03	.01
23	.00	.26	.18	.25	16	14	113	112	31	1.0	.03	.01
24	.00	.19	.16	.29	26	13	179	141	30	.32	.03	.22
25	.00	.21	.12	.29	26	17	169	138	28	.10	.03	.18
26	.01	.16	.10	.36	22	15	132	148	24	.09	.03	.24
27	2.9	.13	.08	.50	19	13	110	180	20	.09	.02	2.1
28	.53	.10	.08	.70	16	13	106	206	17	.09	.02	1.7
29	.20	.12	.06	.90	---	18	106	212	12	.08	.02	3.5
30	.16	.16	.08	1.1	---	34	112	192	13	.11	.02	15
31	.66	---	.10	1.5	---	51	---	158	---	.09	.01	---
TOTAL	5.87	19.31	3.38	9.49	204.30	741	1798	3923	1474	201.14	3.00	23.05
MEAN	.19	.64	.11	.31	7.30	23.9	59.9	127	49.1	6.49	.10	.77
MAX	2.9	3.9	.22	1.5	26	58	179	212	129	14	1.3	15
MIN	.00	.00	.03	.06	.90	13	14	70	12	.08	.01	.00
AC-FT	12	38	6.7	19	405	1470	3570	7780	2920	399	6.0	46

CAL YR 1982	TOTAL	1175.58	MEAN	3.22	MAX	38	MIN	.00	AC-FT	2330
WTR YR 1983	TOTAL	8405.54	MEAN	23.0	MAX	212	MIN	.00	AC-FT	16670

09378700 COTTONWOOD WASH NEAR BLANDING, UT

LOCATION.--Lat 37°33'38", long 109°34'41", in SW1/4NE1/4NW1/4 sec.23, T.37 S., R.21 E., San Juan County, Hydrologic Unit 14080201, on downstream end of center pier of highway bridge on State Highway 95, about 2.1 mi downstream from Brushy Basin Canyon, and 7.0 mi southwest of Blanding.

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--October 1964 to current year. Annual maximum only December 1958 to September 1964 at crest-stage site.

GAGE.--Water-stage recorder. Datum of gage is 5,137.73 ft NGVD of 1929. Prior to October 1964, crest-stage gage only at site 300 ft upstream at different datum; October 1964 to July 13, 1966, at site 50 ft upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

REMARKS.--Records poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--19 years, 9.06 ft^3/s, 6,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft^3/s Aug. 1, 1968, gage height, 20.68 ft; no flow during some periods each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 900 ft^3/s, 1,160 ft^3/s Sept. 17, gage height, 5.20 ft, from floodmarks; no flow several days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.60	5.6	2.2	6.0	28	54	130	53	4.2	4.1	1.0
2	.30	.30	5.6	2.8	6.0	34	45	120	49	3.5	2.3	.50
3	.40	.16	6.6	3.3	4.4	30	39	110	42	2.9	25	.30
4	.20	.14	7.8	3.5	3.6	22	33	120	32	2.4	21	.20
5	.20	.30	7.8	3.7	4.5	20	29	135	29	1.9	47	.10
6	.20	.22	7.0	3.7	4.7	20	27	142	27	1.7	15	.05
7	.20	.18	6.2	3.3	3.4	22	18	102	26	1.4	7.4	.00
8	.30	.18	5.6	3.0	3.9	24	23	114	24	1.5	6.4	.00
9	.30	.60	6.2	2.6	4.0	26	27	135	22	2.3	7.2	.00
10	.40	.54	5.0	4.6	4.7	27	34	131	20	3.6	5.4	.00
11	.40	.32	4.0	4.3	5.8	40	37	118	16	1.4	27	.00
12	.50	.26	3.4	3.9	6.2	56	28	80	16	.64	7.1	.00
13	.60	.21	2.8	3.2	6.2	60	25	68	20	.40	4.8	.00
14	.60	.18	2.3	2.6	6.6	80	22	58	13	.30	8.6	.00
15	.38	.16	2.8	2.6	8.4	60	19	49	9.5	.25	10	.00
16	.45	.18	3.2	2.9	9.8	45	27	45	8.4	.20	4.4	.00
17	.41	.21	3.4	2.0	8.4	35	40	44	7.4	.15	2.3	100
18	.40	1.0	3.4	1.9	6.2	23	45	40	7.0	.10	2.2	152
19	.38	5.0	3.0	2.3	8.4	22	90	49	7.4	.05	2.1	108
20	.29	13	3.2	2.3	9.0	20	100	49	8.4	.03	1.5	95
21	.27	8.0	3.4	2.3	20	17	96	35	7.4	.02	.70	72
22	.31	7.0	3.8	2.3	24	17	160	37	6.5	.80	.30	58
23	.34	6.4	3.5	2.6	30	17	240	44	6.1	53	.10	58
24	.42	6.0	3.1	3.1	50	16	270	52	7.9	15	.00	55
25	.56	8.4	3.0	3.1	50	21	260	53	11	3.8	.00	37
26	.50	7.6	2.6	4.0	30	18	200	53	20	24	.00	32
27	.30	7.4	2.3	4.8	24	16	160	61	26	6.7	.00	36
28	.19	6.6	1.7	5.4	20	16	140	63	13	8.5	.00	16
29	.21	8.4	1.4	5.6	---	20	140	61	7.1	2.6	.00	25
30	.37	8.4	1.8	5.6	---	40	160	64	5.1	1.1	5.5	135
31	.48	---	1.9	6.0	---	66	---	61	---	5.5	2.4	---
TOTAL	11.16	97.94	123.4	105.5	368.2	958	2588	2423	547.2	149.94	219.80	981.15
MEAN	.36	3.26	3.98	3.40	13.1	30.9	86.3	78.2	18.2	4.84	7.09	32.7
MAX	.60	13	7.8	6.0	50	80	270	142	53	53	47	152
MIN	.19	.14	1.4	1.9	3.4	16	18	35	5.1	.02	.00	.00
AC-FT	22	194	245	209	730	1900	5130	4810	1090	297	436	1950

CAL YR 1982	TOTAL	628.54	MEAN	1.72	MAX	25	MIN	.00	AC-FT	1250
WTR YR 1983	TOTAL	8573.29	MEAN	23.5	MAX	270	MIN	.00	AC-FT	17010

09379500 SAN JUAN RIVER NEAR BLUFF, UT

LOCATION.--Lat 37°08'49", long 109°51'51", in SE1/4NE1/4NW1/4 sec.7, T.42 S., R.19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 mi southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft from levels of Topographic Division, U.S. Geological Survey. Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--Records fair. Diversions for irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962 (see station 09355100 in New Mexico report).

AVERAGE DISCHARGE.--69 years, 2,542 ft^3/s, 1,842,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-81; maximum discharge, 70,000 ft^3/s Sept. 10, 1927, gage height, 32.0 ft from rating curve extended above 31,000 ft^3/s and slope-area measurement at gage height 26.62 ft; no flow July 3-13, 1934, Aug. 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sept. 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	0215	8,100	9.21
June 26	0830	*8,770	9.60

Minimum, 624 ft^3/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1960	1680	1790	2110	2510	3430	5790	6740	7680	6600	3000	1230
2	1870	1680	1520	2110	2440	3400	5840	6420	7560	6310	2770	1160
3	1980	1660	1580	2090	2330	3530	5200	5560	7090	5860	2630	1120
4	1940	1650	1400	2070	2280	4920	4860	5170	6130	5830	2790	1100
5	1810	1660	1250	2150	2410	4820	4660	5130	5080	5750	4590	1180
6	1730	1590	1250	2120	2390	3990	4400	5620	4990	5730	3930	1140
7	1730	1610	1240	2100	2450	3210	4190	6140	4970	5510	4420	1130
8	1660	1560	1340	2150	2450	3010	4080	6120	4710	5230	3020	1100
9	1650	2060	1820	2190	2900	2980	3960	5940	4870	5630	3010	1040
10	1670	2460	1950	2200	2630	3230	3880	6480	5100	5870	2600	1210
11	1690	2060	2280	2160	2400	3380	4080	7560	4870	5500	2390	1160
12	1680	1940	2530	2150	2260	3580	4130	7530	4560	5280	2900	1190
13	1720	1900	2400	2160	2230	4020	4160	6370	5100	4610	4030	1140
14	1600	1760	2280	2190	2290	4180	4360	5060	5410	3990	2580	1110
15	1300	1690	2150	2190	2360	4700	4260	4660	4600	3590	2220	1050
16	1330	1690	2090	2210	2370	4640	4190	4230	4000	3270	2070	1020
17	1330	1590	2030	2270	2340	3920	4020	3910	4130	2910	2000	994
18	1360	1400	2040	2400	2390	3510	4260	3780	4620	2620	2010	963
19	1310	1310	2000	2640	2340	3500	4790	3630	5270	2610	1870	969
20	1390	1370	1980	2610	2340	3610	5100	3480	6360	2430	1990	934
21	1480	1380	1980	2700	2300	3480	5290	3500	7170	2420	1860	906
22	1620	1350	1980	2500	2280	3670	5380	3200	7130	2500	1590	883
23	1620	1310	2370	2420	2310	4540	5290	3030	7090	3030	1440	1050
24	1580	1260	2700	2310	2400	4450	5430	3460	6980	3280	1380	1070
25	1520	1220	2720	2340	2530	4450	5780	4280	7170	2970	1240	1210
26	1540	1250	2260	2410	2790	3980	6310	5190	8410	3530	1310	1190
27	1980	1210	2130	2540	3030	3920	6630	5840	7760	3530	1280	1180
28	1740	1210	2130	2600	3100	3860	6530	6120	7030	5150	1430	1230
29	1850	1230	2080	2930	---	4040	6300	6830	6800	4830	1400	1720
30	1700	1300	2000	2870	---	4390	6400	7460	6540	2970	1440	2870
31	1720	---	2090	2660	---	4720	---	7430	---	2540	1320	---
TOTAL	51060	47040	61360	72550	68850	121060	149550	165870	179180	131880	72510	35249
MEAN	1647	1568	1979	2340	2459	3905	4985	5351	5973	4254	2339	1175
MAX	1980	2460	2720	2930	3100	4920	6630	7560	8410	6600	4590	2870
MIN	1300	1210	1240	2070	2230	2980	3880	3030	4000	2420	1240	883
AC-FT	101300	93300	121700	143900	136600	240100	296600	329000	355400	261600	143800	69920

CAL YR 1982	TOTAL	826406	MEAN	2264	MAX	11700	MIN	800	AC-FT	1639000
WTR YR 1983	TOTAL	1156159	MEAN	3168	MAX	8410	MIN	883	AC-FT	2293000

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1929 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1929 to September 1977, October 1980 to current year.
WATER TEMPERATURES: May 1944 to September 1961, October 1964 to current year.
SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1929-76): Maximum daily, 2,790 micromhos Sept. 19, 1959; minimum daily (water years 1930-76), 208 micromhos June 17, 1952.
WATER TEMPERATURES (water years 1929-76): Maximum, 33.0°C July 31, 1959; minimum (water years 1945-61, 1966-76), 0.0°C on many days during winter period of most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L Sept. 21, 1929; minimum daily mean, no flow on several days in 1934 and 1939.
SEDIMENT LOADS: Maximum daily, 15,700,000 tons Oct. 20, 1972; minimum daily, 0 tons on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,110 micromhos Aug. 5, 6; minimum recorded, 290 micromhos July 6.
WATER TEMPERATURES: Maximum recorded, 27.0°C many days during August and September, minimum recorded, 0.5°C Jan. 2, 3, 4, 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 19...	1200	1330	780	8.1	14.0	11.5	110	9.2	662	92
NOV 23...	1330	1340	960	8.2	14.0	7.5	--	10.1	659	--
DEC 21...	1330	2060	610	8.1	6.5	2.5	--	11.8	657	--
JAN 25...	1400	2260	530	8.0	9.5	3.5	400	11.8	660	K300
FEB 23...	1300	2310	730	8.0	16.0	6.5	--	11.0	652	--
MAR 28...	1300	3800	860	8.1	11.0	7.5	--	9.8	645	--
APR 25...	1250	5830	560	8.1	22.5	13.0	2300	9.2	650	K1
MAY 24...	1300	3760	610	8.4	29.0	19.0	--	7.5	638	--
JUN 20...	1430	6580	340	8.3	33.0	20.0	--	8.0	650	--
JUL 20...	1230	2410	500	8.2	33.5	24.5	70	6.5	658	41
AUG 25...	1200	1200	350	8.3	35.0	24.5	--	7.0	660	--
SEP 07...	1100	1070	730	8.4	25.5	23.0	--	7.2	650	--

K Results based on colony count outside acceptable range (nonideal colony count).

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 19...	K83	300	5.9	80	23	59	30	1.5	2.2
NOV 23...	--	350	6.9	89	30	71	31	1.7	2.9
DEC 21...	--	270	5.4	77	19	25	17	0.7	2.3
JAN 25...	K900	200	4.0	56	15	46	33	1.5	0.9
FEB 23...	--	250	5.1	65	22	55	32	1.6	1.5
MAR 28...	--	280	5.6	70	26	66	34	1.8	1.4
APR 25...	K1	220	4.3	55	19	37	27	1.2	1.3
MAY 24...	--	230	4.5	61	18	39	27	1.2	2.2
JUN 20...	--	140	2.9	42	9.5	16	19	0.6	1.5
JUL 20...	58	190	3.7	53	13	28	25	0.9	1.4
AUG 25...	--	260	5.3	73	20	44	26	1.2	2.8
SEP 07...	--	280	5.7	77	22	48	27	1.3	2.8

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 19...	140	260	20	0.4	8.6	560	538	0.76	2010
NOV 23...	150	330	18	0.4	7.0	--	637	0.87	2300
DEC 21...	120	190	11	0.3	10	--	405	0.55	2250
JAN 25...	110	180	11	0.4	10	392	388	0.53	2390
FEB 23...	120	240	14	0.4	10	--	481	0.65	3000
MAR 28...	150	250	23	0.3	11	--	536	0.73	5500
APR 25...	111	170	13	0.3	10	382	374	0.52	6010
MAY 24...	120	170	14	0.4	9.5	--	387	0.53	3930
JUN 20...	83	87	5.0	0.2	7.1	--	218	0.3	3880
JUL 20...	100	140	8.9	0.3	8.4	309	315	0.42	2010
AUG 25...	130	220	13	0.3	9.7	--	462	0.63	1500
SEP 07...	130	210	16	0.3	8.9	--	465	0.63	1340

K Results based on colony count outside acceptable range (nonideal colony count).

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 19...	0.06	0.08	1.10	0.35	0.20	0.61	0.06	<0.01	0.03
NOV 23...	--	--	--	0.37	--	--	--	<0.01	0.03
DEC 21...	--	--	--	0.4	--	--	0.08	--	--
JAN 25...	0.12	0.15	1.40	0.46	0.31	0.95	0.04	0.06	0.18
FEB 23...	--	--	--	0.49	--	--	0.04	--	--
MAR 28...	--	--	--	0.64	--	--	--	0.04	0.12
APR 25...	0.11	0.14	0.6	0.29	0.22	0.67	0.03	0.03	0.09
MAY 24...	--	--	--	0.27	--	--	0.00	--	--
JUN 20...	--	--	--	<0.1	--	--	--	0.03	0.09
JUL 20...	0.04	0.05	0.5	0.16	0.20	0.61	0.04	0.00	--
AUG 25...	--	--	--	0.25	--	--	--	0.02	0.06
SEP 07...	--	--	--	0.18	--	--	--	0.02	0.06

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 19...	1200	10	1	120	<1	<1	<1	<3	<1	9	<1
JAN 25...	1400	30	1	300	<1	<1	<1	<3	1	29	<1
APR 25...	1250	40	1	140	<1	<1	<1	<3	2	22	<1
JUL 20...	1230	20	<1	94	1	<1	<1	<3	3	7	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 19...	43	2	<.1	<10	<1	2	<1	1000	<6.0	88
JAN 25...	37	3	<.1	<10	1	2	<1	750	<6.0	430
APR 25...	26	2	2.4	<10	4	3	<1	820	<6.0	130
JUL 20...	26	<1	1.0	<10	4	1	<1	640	<6.0	54

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV		
23...	1330	120
DEC		
21...	1330	70
FEB		
23...	1300	100
MAR		
28...	1300	110
MAY		
24...	1300	60
JUN		
20...	1430	20
AUG		
25...	1200	60
SEP		
07...	1100	90

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	910	760	802	590	540	573
2	---	---	---	---	---	---	900	740	794	590	540	569
3	---	---	---	---	---	---	970	900	923	590	530	568
4	---	---	---	---	---	---	950	850	894	580	510	530
5	---	---	---	---	---	---	900	850	868	580	520	549
6	---	---	---	---	---	---	870	830	851	580	530	558
7	---	---	---	---	---	---	900	820	855	580	550	564
8	---	---	---	640	620	629	900	850	876	580	550	565
9	---	---	---	---	---	---	870	730	800	580	550	566
10	---	---	---	---	---	---	740	690	718	580	550	568
11	---	---	---	---	---	---	---	---	---	580	540	563
12	---	---	---	---	---	---	---	---	---	580	530	556
13	---	---	---	---	---	---	---	---	---	590	520	553
14	---	---	---	---	---	---	---	---	---	590	520	556
15	---	---	---	---	---	---	---	---	---	590	520	555
16	---	---	---	---	---	---	690	650	670	590	520	559
17	---	---	---	---	---	---	670	630	648	590	520	555
18	---	---	---	---	---	---	660	630	643	600	560	575
19	800	770	780	780	730	761	670	650	664	---	---	---
20	790	760	772	870	780	827	680	630	653	---	---	---
21	770	750	758	880	840	862	640	600	625	---	---	---
22	---	---	---	850	790	806	630	610	621	---	---	---
23	---	---	---	960	780	849	660	470	619	---	---	---
24	---	---	---	920	900	916	690	630	659	---	---	---
25	---	---	---	900	870	886	---	---	---	---	---	---
26	720	690	705	900	830	868	---	---	---	---	---	---
27	---	---	---	870	820	842	---	---	---	---	---	---
28	---	---	---	830	800	818	---	---	---	---	---	---
29	---	---	---	820	790	806	---	---	---	---	---	---
30	---	---	---	900	790	807	590	560	573	---	---	---
31	---	---	---	---	---	---	580	520	554	---	---	---

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	770	720	754	1010	890	940	530	490	508
2	---	---	---	890	770	839	920	780	820	560	510	539
3	---	---	---	840	790	811	800	720	763	550	530	538
4	---	---	---	820	720	771	790	740	759	550	530	537
5	---	---	---	850	720	785	740	700	716	570	510	535
6	---	---	---	810	660	716	720	690	698	550	520	528
7	---	---	---	660	590	615	730	700	709	520	480	499
8	---	---	---	610	570	589	730	700	717	510	480	493
9	---	---	---	600	570	584	720	690	710	510	470	483
10	---	---	---	630	560	593	730	700	714	490	460	476
11	---	---	---	630	560	593	810	710	761	480	450	467
12	---	---	---	610	540	580	790	700	733	460	420	434
13	---	---	---	590	520	553	750	710	730	440	410	425
14	---	---	---	570	510	539	790	710	743	480	430	450
15	---	---	---	550	470	518	840	740	803	490	470	475
16	---	---	---	---	---	---	840	770	800	510	490	498
17	---	---	---	---	---	---	800	740	771	540	500	518
18	---	---	---	---	---	---	800	700	748	570	520	538
19	---	---	---	---	---	---	840	700	758	760	550	582
20	---	---	---	---	---	---	---	---	---	660	590	608
21	---	---	---	---	---	---	690	630	652	---	---	---
22	---	---	---	---	---	---	650	600	623	---	---	---
23	740	570	654	---	---	---	660	610	624	---	---	---
24	750	650	695	---	---	---	650	580	614	---	---	---
25	750	670	702	---	---	---	620	560	589	---	---	---
26	750	690	722	---	---	---	580	520	554	---	---	---
27	710	690	702	---	---	---	530	500	518	---	---	---
28	730	690	713	---	---	---	540	500	520	---	---	---
29	---	---	---	900	810	837	530	500	512	---	---	---
30	---	---	---	990	830	884	530	500	513	---	---	---
31	---	---	---	990	850	912	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	1010	480	693	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1				---	---	---	660	630	644	---	---	---
2				---	---	---	690	640	658	---	---	---
3				---	---	---	710	590	658	---	---	---
4				---	---	---	710	620	678	---	---	---
5				320	300	313	1110	610	713	---	---	---
6				330	290	312	1110	930	1020	---	---	---
7				320	300	314	910	700	765	---	---	---
8				340	310	323	780	670	722	730	710	717
9				340	320	330	720	590	643	730	700	716
10				---	---	---	640	620	630	---	---	---
11				430	380	406	640	620	628	820	720	757
12				380	340	361	---	---	---	---	---	---
13				400	350	362	---	---	---	730	710	723
14				400	370	380	---	---	---	720	710	717
15				450	400	421	---	---	---	---	---	---
16				460	420	436	---	---	---	---	---	---
17				460	420	439	---	---	---	740	650	723
18				470	450	462	---	---	---	---	---	---
19				490	470	480	---	---	---	---	---	---
20				500	480	490	---	---	---	---	---	---
21				520	480	493	---	---	---	---	---	---
22				520	510	513	---	---	---	---	---	---
23				570	510	529	---	---	---	---	---	---
24				740	550	652	---	---	---	---	---	---
25				730	650	682	---	---	---	---	---	---
26				810	640	683	---	---	---	700	680	690
27				930	640	721	---	---	---	720	690	696
28				780	640	702	---	---	---	720	660	688
29				890	670	772	---	---	---	---	---	---
30				700	600	654	---	---	---	---	---	---
31				640	620	631	---	---	---	---	---	---
MONTH				930	290	492	---	---	---	---	---	---

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10.5	10.0	10.0	5.5	5.0	5.0	1.5	1.0	1.0
2	---	---	---	10.5	9.5	10.0	5.5	4.0	4.5	1.0	.5	1.0
3	---	---	---	10.0	8.5	9.0	4.5	3.5	4.0	1.0	.5	1.0
4	---	---	---	9.0	7.5	8.0	4.0	3.0	3.5	1.0	.5	.5
5	---	---	---	8.0	7.5	7.5	4.0	3.0	3.5	1.0	.5	.5
6	---	---	---	8.0	7.0	7.0	3.5	3.0	3.5	2.0	1.0	1.5
7	---	---	---	7.5	5.5	7.0	3.5	3.0	3.5	2.5	2.0	2.0
8	---	---	---	8.0	7.0	7.5	4.5	3.5	4.0	3.0	2.5	2.5
9	---	---	---	9.0	7.5	8.0	5.0	4.5	4.5	3.5	3.0	3.0
10	---	---	---	9.0	8.5	8.5	5.0	5.0	5.0	3.5	2.5	3.0
11	---	---	---	9.0	8.5	8.5	6.0	5.5	5.5	3.0	2.5	2.5
12	---	---	---	9.0	8.0	8.5	6.0	5.5	6.0	3.0	2.5	2.5
13	---	---	---	8.0	7.5	8.0	6.0	5.5	6.0	3.0	2.5	2.5
14	---	---	---	7.5	6.5	7.0	5.5	5.0	5.5	3.0	2.5	3.0
15	---	---	---	6.5	5.0	5.5	5.5	4.5	5.0	3.0	2.5	3.0
16	---	---	---	6.0	5.0	5.5	5.0	4.0	4.5	3.5	2.5	3.0
17	---	---	---	6.0	5.5	5.5	4.5	4.0	4.0	4.0	3.5	3.5
18	---	---	---	7.0	6.0	6.5	4.5	4.0	4.0	5.0	4.0	4.5
19	12.5	12.5	12.5	7.5	6.5	7.0	4.5	3.5	4.0	5.0	3.5	4.5
20	12.5	11.5	12.0	7.5	7.0	7.5	4.0	3.5	4.0	4.0	4.0	4.0
21	11.5	10.5	11.0	7.0	6.0	6.5	4.0	3.5	3.5	4.0	3.0	3.5
22	11.5	11.0	11.0	6.5	6.0	6.0	4.5	4.0	4.0	4.0	3.0	3.5
23	11.5	11.0	11.0	7.5	6.5	7.0	5.0	4.5	4.5	4.0	3.5	4.0
24	11.5	11.0	11.0	7.0	6.0	6.5	5.0	3.5	4.0	4.0	3.5	3.5
25	12.5	10.5	11.5	6.0	5.5	6.0	4.0	2.5	3.0	3.5	3.0	3.5
26	12.5	12.5	12.5	6.0	4.5	5.5	3.0	2.5	3.0	---	---	---
27	12.5	12.0	12.0	6.0	5.0	5.5	2.5	2.0	2.5	---	---	---
28	12.0	10.5	11.0	6.0	5.0	5.5	2.5	2.0	2.5	---	---	---
29	11.0	10.0	10.5	6.0	5.5	5.5	2.5	2.0	2.0	---	---	---
30	10.0	9.5	9.5	6.0	5.5	6.0	2.0	1.5	2.0	---	---	---
31	10.5	9.5	10.0	---	---	---	2.0	1.5	1.5	---	---	---
MONTH	---	---	---	10.5	4.5	7.0	6.0	1.5	4.0	5.0	.5	2.5
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	9.5	8.5	8.5	11.0	8.5	9.5	13.0	10.5	11.5
2	4.5	4.5	4.5	9.5	8.5	9.0	10.5	8.0	9.5	13.0	10.0	11.5
3	4.5	4.0	4.5	9.0	8.0	8.5	10.5	8.5	9.5	14.5	10.5	12.5
4	4.0	3.5	4.0	9.0	8.0	8.5	9.0	7.0	7.5	15.5	12.0	14.0
5	4.5	3.5	4.0	8.0	7.0	7.5	7.0	5.0	6.0	15.5	13.0	14.5
6	5.0	4.5	4.5	8.5	6.5	7.5	8.5	6.0	7.0	14.5	12.0	13.5
7	5.5	5.0	5.5	9.0	7.0	8.0	9.5	7.0	8.0	14.5	11.5	13.0
8	5.5	5.0	5.5	10.0	8.0	9.0	9.5	7.0	8.5	15.5	12.5	14.0
9	6.5	5.0	5.5	10.5	8.5	9.5	11.0	8.0	9.5	16.0	13.0	14.5
10	6.5	6.0	6.0	10.5	9.0	10.0	11.0	9.5	10.0	16.0	13.5	15.0
11	6.5	6.0	6.5	11.5	9.5	10.5	11.0	9.5	10.0	15.0	13.0	14.0
12	6.5	5.5	6.0	12.0	10.5	11.0	10.0	8.5	9.0	14.0	11.0	12.5
13	6.0	5.5	6.0	12.0	10.5	11.0	8.0	6.0	7.0	14.0	12.0	13.0
14	7.0	6.0	6.5	11.5	10.5	11.0	9.5	6.0	7.5	14.5	12.0	13.0
15	7.0	6.0	6.5	11.0	9.0	9.5	10.5	7.5	9.0	15.0	12.0	13.5
16	7.0	6.0	6.5	9.0	7.5	8.0	11.5	8.5	10.0	15.0	12.5	13.5
17	7.0	6.0	6.5	8.5	7.5	8.0	13.0	9.5	11.0	13.5	11.0	12.0
18	7.0	6.0	6.5	8.0	7.0	7.5	13.0	11.0	12.0	12.5	10.0	11.5
19	6.5	6.0	6.0	8.5	7.0	7.5	14.0	10.5	12.0	13.0	12.0	12.5
20	6.5	6.0	6.5	8.0	6.0	7.0	14.0	12.0	12.5	14.5	12.5	13.0
21	6.5	6.0	6.0	8.0	6.0	7.0	12.5	10.5	11.5	---	---	---
22	7.0	6.0	6.5	8.0	5.0	6.5	13.0	10.5	11.5	---	---	---
23	8.0	6.5	7.0	8.0	6.5	7.5	14.5	11.5	13.0	---	---	---
24	8.0	7.0	7.5	7.0	5.5	6.0	15.0	12.5	14.0	---	---	---
25	8.5	8.0	8.0	6.5	4.5	5.5	14.5	12.0	13.5	---	---	---
26	8.0	7.0	7.5	8.0	5.0	6.5	14.5	12.0	13.5	---	---	---
27	7.5	6.0	7.0	9.0	6.0	7.5	14.0	12.0	13.0	---	---	---
28	9.0	7.0	8.0	9.0	7.5	8.5	14.0	12.0	13.0	---	---	---
29	---	---	---	11.0	8.0	9.0	14.0	12.5	13.5	---	---	---
30	---	---	---	11.5	9.0	10.5	14.0	12.5	13.0	---	---	---
31	---	---	---	11.5	10.0	11.0	---	---	---	---	---	---
MONTH	9.0	3.5	6.0	12.0	4.5	8.5	15.0	5.0	10.5	---	---	---

09379500 SAN JUAN RIVER NEAR BLUFF, UT-Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				---	---	---	26.0	24.0	25.0	27.0	24.5	26.0
2				---	---	---	26.5	24.5	25.5	27.0	24.5	26.0
3				---	---	---	26.5	25.0	25.5	26.0	24.0	25.0
4				---	---	---	27.0	25.0	26.0	25.5	23.0	24.0
5				22.5	20.0	22.0	27.0	25.5	26.5	24.0	21.5	23.0
6				23.0	20.5	22.0	27.0	25.0	26.0	25.0	21.0	23.0
7				22.5	20.5	21.5	27.0	25.0	26.0	23.5	21.5	22.5
8				23.5	20.5	22.0	27.0	25.0	26.0	24.0	20.5	22.5
9				23.0	21.0	22.0	27.0	24.5	26.0	24.5	21.5	23.0
10				23.5	20.5	22.0	27.0	25.5	26.0	24.5	22.5	23.5
11				23.5	20.5	22.0	26.0	25.0	25.5	24.5	22.0	23.0
12				23.5	20.5	22.0	26.0	24.0	25.0	24.0	21.5	23.0
13				24.0	21.0	22.5	25.5	23.5	24.0	24.0	21.0	22.5
14				24.0	21.5	23.0	25.5	24.5	25.0	24.0	21.5	22.5
15				23.5	21.5	22.5	26.0	24.5	25.0	23.5	20.5	22.0
16				23.0	20.5	22.0	26.0	25.0	25.5	23.0	20.5	22.0
17				23.5	21.0	22.5	25.5	25.0	25.0	23.0	20.5	22.0
18				25.5	22.5	24.0	25.0	24.5	24.5	23.5	20.5	22.0
19				26.0	24.0	25.0	24.5	24.0	24.0	22.5	21.0	21.5
20				26.5	24.5	25.5	24.0	23.5	24.0	20.5	18.0	19.5
21				26.5	24.5	25.5	24.0	23.5	23.5	19.0	16.5	17.5
22				25.5	24.5	25.0	24.0	23.0	23.5	18.5	16.0	17.5
23				25.5	24.0	25.0	24.0	22.5	23.0	18.0	17.5	18.0
24				26.5	24.5	25.5	24.0	22.5	23.0	18.0	17.0	17.5
25				26.0	24.5	25.0	26.5	23.0	24.5	19.5	16.5	18.0
26				25.0	23.5	24.0	27.0	23.5	25.0	20.5	18.0	19.5
27				24.0	22.5	23.0	26.0	23.5	25.0	21.5	18.5	20.0
28				24.0	21.5	23.0	25.0	23.5	24.5	21.0	18.5	19.5
29				24.5	20.5	22.5	24.0	23.0	23.5	19.5	17.5	18.5
30				25.0	23.0	24.0	24.0	22.5	23.0	17.0	16.0	16.5
31				25.5	23.5	24.5	25.5	23.0	24.5	---	---	---
MONTH				26.5	20.0	23.5	27.0	22.5	25.0	27.0	16.0	21.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 19...	1200	1330	11.5	57	844	3030
DEC 21...	1330	2060	2.5	--	146	812
JAN 25...	1400	2260	3.5	68	1260	7690
FEB 23...	1300	2310	6.5	--	1470	9170
MAR 28...	1300	3800	7.5	--	10100	104000
APR 25...	1250	5830	13.0	--	6560	103000
MAY 24...	1300	3760	19.0	--	4040	41000
JUN 20...	1430	6580	20.0	--	1580	28100
JUL 20...	1230	2410	24.5	38	604	3930
AUG 25...	1200	1200	24.5	--	817	2650
SEP 07...	1100	1070	23.0	--	259	748

09379900 LAKE POWELL AT GLEN CANYON DAM, AZ

LOCATION.--Lat 36°56'12", long 111°29'00", in sec.24, T.41 N., R.8 E., Coconino County, Hydrologic Unit 14070006, at Glen Canyon Dam on Colorado River, 900 ft upstream from bridge on U.S. Highway 89, 1.4 mi downstream from Wahweap Creek, 2 mi northwest of Page, and 12 mi downstream from Utah-Arizona State line.

DRAINAGE AREA.--111,700 mi^2, approximately, including 3,959 mi^2 in Great Divide Basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 1, 1964, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch gravity dam; storage began Mar. 13, 1963; dam completed September 1963. Total capacity, 27,000,000 acre-ft, consisting of the following: Dead storage, 1,998,000 acre-ft below elevation 3,370 ft--sill of outlet gates usable contents, 25,002,000 acre-ft between elevations 3,370 ft and 3,700 ft--top of conservation pool. Reservoir is used for power development, to provide storage replacement for upstream irrigation development, and to meet downstream requirements under the Colorado River Compact of 1922. Figures given herein represent usable contents; prior to Oct. 1, 1968, figures of total contents were published (prior to sealing of diversion tunnel July 7, 1965, all storage was usable).

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 26,373,000 acre-ft July 14, 1983, elevation, 3,708.34 ft; minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft Mar. 18, 1965, elevation, 3,490.76 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 26,373,000 acre-ft July 14, elevation, 3,708.34 ft; minimum, 22,213,000 acre-ft Feb. 25, elevation, 3,682.01 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

3,680	21,916,000	3,700	25,002,000
3,682	22,212,000	3,705	25,818,000
3,685	22,662,000	3,708	26,317,000
3,690	23,424,000	3,710	26,653,000
3,695	24,204,000		

RESERVOIR STORAGE, IN THOUSHANDS OF ACRE-FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23017	23061	22830	22603	22398	22225	22618	22829	24350	26192	26202	25690
2	23037	23047	22827	22581	22384	22232	22626	22868	24485	26209	26192	25662
3	23049	23040	22825	22564	22363	22238	22661	22904	24606	26231	26186	25628
4	23060	23032	22821	22546	22334	22247	22671	22929	24712	26226	26166	25598
5	23081	23014	22812	22534	22322	22268	22682	22953	24803	26217	26151	25565
6	23079	23002	22797	22518	22308	22280	22683	22979	24883	26217	26132	25541
7	23069	22994	22782	22506	22290	22286	22692	23026	24941	26232	26117	25503
8	23073	22986	22775	22507	22277	22299	22703	23066	25019	26258	26114	25480
9	23081	22983	22765	22512	22262	22307	22706	23099	25065	26271	26091	25444
10	23087	22971	22751	22509	22256	22319	22704	23131	25127	26299	26072	25416
11	23081	22958	22751	22519	22250	22334	22701	23179	25189	26328	26077	25394
12	23079	22944	22757	22510	22249	22350	22686	23236	25244	26346	26071	25364
13	23083	22951	22750	22497	22249	22368	22665	23280	25319	26365	26072	25337
14	23081	22942	22739	22494	22244	22378	22653	23326	25382	26373	26067	25302
15	23081	22938	22720	22492	22244	22386	22647	23377	25448	26366	26051	25273
16	23076	22933	22701	22491	22234	22405	22643	23408	25492	26358	26047	25237
17	23078	22926	22683	22491	22226	22423	22644	23446	25523	26345	26041	25202
18	23072	22909	22683	22485	22229	22446	22640	23476	25556	26333	26026	25179
19	23083	22912	22683	22479	22228	22465	22638	23494	25588	26314	25998	25158
20	23076	22909	22670	22465	22238	22494	22640	23516	25626	26303	25978	25103
21	23067	22912	22665	22452	22237	22512	22629	23556	25680	26303	25956	25067
22	23070	22912	22664	22434	22237	22533	22634	23576	25736	26296	25936	25033
23	23076	22915	22653	22429	22235	22531	22643	23609	25791	26281	25918	25001
24	23089	22904	22671	22419	22229	22549	22643	23632	25844	26281	25892	24973
25	23090	22900	22665	22405	22213	22555	22656	23671	25916	26271	25872	24943
26	23087	22892	22671	22405	22222	22566	22665	23722	25976	26258	25849	24912
27	23089	22882	22671	22402	22231	22584	22697	23791	26047	26271	25824	24880
28	23081	22871	22667	22399	22231	22594	22729	23878	26096	26268	25797	24858
29	23067	22854	22650	22407	---	22596	22756	23975	26131	26263	25773	24819
30	23060	22851	22628	22411	---	22605	22782	24096	26171	26242	25750	24817
31	23063	---	22622	22408	---	22603	---	24216	---	26224	25722	---
MAX	23090	23061	22830	22603	22398	22605	22782	24216	26171	26373	26202	25690
MIN	23017	22851	22622	22399	22213	22225	22618	22829	24350	26192	25722	24817
(#)	3687.65	3686.26	3684.74	3683.32	3682.13	3684.62	3685.80	3695.08	3707.13	3707.45	3704.72	3698.86
(*)	+58000	-212000	-229000	-214000	-177000	+372000	+179000	+1434000	+1955000	+53000	-502000	-905000

CAL YR 1982 . . . . . (*) +2503000
WTR YR 1983 . . . . . (*) +1812000

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.

09403600 KANAB CREEK NEAR KANAB, UT

LOCATION.--Lat 37°06'02", long 112°32'50", in NE1/4NE1/4SW1/4 sec.5, T.43 S., R.6 W., Kane County, Hydrologic Unit 15010003, at upstream edge of left bridge pier on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

DRAINAGE AREA.--198 mi^2.

PERIOD OF RECORD.--July 1959 to September 1968 (peaks only). January 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,060 ft from topographic map. A crest-stage gage was in operation at this site from July 22, 1959 to Sept. 30, 1968 at different datum.

REMARKS.--Records poor. No diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,060 ft^3/s Apr. 6, 1980, maximum gage height, 7.63 ft Aug. 14, 1982; minimum recorded, 0.90 ft^3/s June 23, 26, 29, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge recorded by crest-stage gage, 3,030 ft^3/s Sept. 8, 1961, gage height, 19.80 ft at different datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148 ft^3/s Mar. 12, gage height 6.47 ft, no peak above base of 200 ft^3/s; minimum recorded, 0.90 ft^3/s June 23, 26, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	19	16	14	18	79	54	30	11	4.4	11	10
2	8.6	16	18	14	19	97	53	21	11	4.4	11	10
3	8.2	15	20	15	19	116	52	17	11	4.4	11	10
4	8.0	15	18	15	18	87	52	14	9.5	4.4	11	10
5	8.2	15	14	15	17	81	51	12	10	4.4	11	10
6	8.3	15	14	15	18	83	51	12	9.8	4.4	11	10
7	8.7	17	15	15	19	85	51	12	9.6	4.4	11	11
8	9.2	20	16	15	20	84	50	12	9.6	4.3	10	10
9	9.8	18	16	16	21	93	50	11	9.5	4.3	10	10
10	11	24	14	15	24	96	49	11	9.4	4.3	10	10
11	12	22	14	15	26	96	52	11	9.2	4.3	10	10
12	13	21	14	17	27	90	53	11	9.0	4.3	10	10
13	13	20	14	14	30	92	51	11	8.9	4.3	10	10
14	13	18	14	14	30	105	50	11	8.6	4.3	10	10
15	12	15	14	19	31	70	49	10	8.4	4.1	10	10
16	12	12	14	18	35	60	49	9.6	7.6	4.1	10	10
17	11	12	14	16	35	62	48	9.2	5.6	4.1	12	10
18	11	12	14	15	41	60	52	10	6.3	4.1	14	10
19	12	12	14	17	43	58	49	8.8	6.4	4.1	11	10
20	13	14	14	20	41	58	47	8.5	5.6	4.1	11	10
21	14	10	14	20	48	58	47	7.2	9.0	6.3	11	10
22	14	12	20	20	55	54	47	8.0	4.9	7.8	11	10
23	14	12	24	19	58	55	47	8.8	6.4	7.8	11	11
24	14	11	22	19	62	56	52	8.8	5.0	7.1	11	10
25	15	10	21	19	62	53	54	8.8	7.2	7.8	11	10
26	16	11	21	18	64	50	48	9.6	3.8	7.0	11	10
27	16	12	21	19	65	51	47	8.0	4.7	8.2	11	10
28	18	12	21	20	72	50	40	8.0	4.7	7.6	11	10
29	18	13	20	19	---	55	34	8.5	4.4	7.6	11	10
30	18	15	17	18	---	55	33	8.5	4.4	7.6	11	12
31	20	---	14	17	---	55	---	9.3	---	13	10	---
TOTAL	388.0	450	516	522	1018	2244	1462	345.6	230.5	173.3	335	304
MEAN	12.5	15.0	16.6	16.8	36.4	72.4	48.7	11.1	7.68	5.59	10.8	10.1
MAX	20	24	24	20	72	116	54	30	11	13	14	12
MIN	8.0	10	14	14	17	50	33	7.2	3.8	4.1	10	10
AC-FT	770	893	1020	1040	2020	4450	2900	685	457	344	664	603

CAL YR 1982	TOTAL	4740.2	MEAN	13.0	MAX	43	MIN	3.2	AC-FT	9400
WTR YR 1983	TOTAL	7988.4	MEAN	21.9	MAX	116	MIN	3.8	AC-FT	15840

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT

LOCATION.--Lat 37°20'19", long 112°36'13", in SE1/4NE1/4NW1/4 sec.14, T.40 S., R.7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft downstream from Lydia's Creek, and 1.0 mi north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good. A few small diversions above station.

AVERAGE DISCHARGE.--17 years, 21.9 ft^3/s, 15,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft^3/s July 27, 1976, gage height, 4.14 ft; minimum, 6.3 ft^3/s June 18, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 90 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 14	1200	98	1.42
May 9	0300	*226	2.26
Aug. 6	2330	122	2.07

Minimum daily, 13 ft^3/s Oct. 8-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	19	26	19	20	36	72	176	60	30	28	20
2	15	17	24	19	19	43	71	139	58	31	24	19
3	14	16	23	19	21	50	67	121	59	30	22	19
4	14	16	23	19	21	39	60	138	61	30	23	18
5	14	16	23	20	21	36	58	157	57	29	25	17
6	13	16	23	21	20	36	56	189	52	28	34	17
7	14	16	23	20	21	40	55	197	51	30	43	17
8	13	23	22	20	27	42	54	205	48	34	28	16
9	13	26	25	20	24	45	54	215	46	40	29	23
10	13	23	28	19	24	46	59	205	44	33	25	19
11	14	22	25	18	23	51	62	190	42	30	25	18
12	14	21	24	19	23	56	57	159	46	29	36	18
13	14	21	23	19	23	56	54	141	43	27	28	18
14	14	19	21	19	22	74	52	127	40	27	25	17
15	14	19	21	18	22	57	50	124	39	26	28	16
16	14	20	21	20	22	57	52	124	41	25	34	16
17	14	20	21	20	23	58	59	122	40	24	26	16
18	15	22	20	20	25	56	79	106	39	22	45	15
19	15	42	20	20	25	55	90	107	38	20	33	15
20	15	26	20	20	24	55	106	101	37	20	28	15
21	15	22	20	20	26	53	121	99	38	25	25	15
22	15	21	22	19	27	49	118	98	36	30	24	15
23	15	20	37	20	29	51	130	98	33	28	22	14
24	15	20	23	20	30	48	136	95	33	26	21	15
25	15	20	21	20	32	47	179	91	33	33	23	16
26	22	19	26	20	30	46	189	89	32	29	21	30
27	22	19	26	20	32	47	177	85	32	30	20	23
28	17	19	22	21	39	51	172	79	31	28	20	18
29	17	21	20	20	---	54	185	72	31	26	20	19
30	17	34	21	20	---	62	193	67	31	23	20	18
31	23	---	21	21	---	69	---	61	---	33	20	---
TOTAL	474	635	715	610	695	1565	2867	3977	1271	876	825	532
MEAN	15.3	21.2	23.1	19.7	24.8	50.5	95.6	128	42.4	28.3	26.6	17.7
MAX	23	42	37	21	39	74	193	215	61	40	45	30
MIN	13	16	20	18	19	36	50	61	31	20	20	14
AC-FT	940	1260	1420	1210	1380	3100	5690	7890	2520	1740	1640	1060

CAL YR 1982	TOTAL	6796	MEAN	18.6	MAX	47	MIN	11	AC-FT	13480
WTR YR 1983	TOTAL	15042	MEAN	41.2	MAX	215	MIN	13	AC-FT	29840

09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCH CANYON, NEAR GLENDALE, UT

LOCATION.--Lat 37°25'06", long 112°47'59", in SW1/4NW1/4SE1/4 sec.13, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 200 ft below Bulloch Canyon, 7.5 mi south of Navajo Lake, 19 road mi from Navajo Lake turnoff at U-14 and 10 mi northwest of Glendale.

DRAINAGE AREA.--29.6 mi^2.

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft from topographic map.

REMARKS.--Records fair. Diversions for irrigation of about 600 acres above station.

AVERAGE DISCHARGE.--9 years, 20.1 ft^3/s, 14,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 272 ft^3/s May 31, 1983, gage height, 5.98 ft, may have been exceeded by flood of Aug. 17, 1983 discharge and gage height unknown; minimum, 2.6 ft^3/s Aug. 3, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge determined before station was installed, 1,740 ft^3/s Sept. 9, 1974 on basis of slope-area measurement at gage height 7.44 ft from high-water marks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 24	1700	152	5.53
May 31	0300	*272	5.98

Flood of Aug. 17 probably exceeded those listed above, however, discharge and gage height are unknown.

Minimum daily, 9.2 ft^3/s Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	19	13	9.6	13	31	32	61	98	34	24	26
2	19	16	12	9.9	14	36	30	65	81	33	22	21
3	19	16	12	10	14	39	29	69	70	33	21	19
4	19	17	13	11	14	35	28	77	66	33	22	18
5	18	16	13	12	14	32	27	77	68	32	21	18
6	19	15	13	12	14	29	25	77	66	31	47	17
7	18	15	14	11	14	28	25	81	62	33	24	22
8	18	18	14	10	14	29	27	88	54	35	23	19
9	18	19	15	9.8	14	31	31	85	57	37	26	18
10	18	16	14	9.2	13	33	35	93	59	35	43	17
11	17	19	14	10	13	36	36	89	62	38	24	17
12	17	17	14	11	14	42	35	82	60	43	22	16
13	16	19	13	11	14	46	35	82	56	43	25	16
14	15	16	13	12	14	58	34	88	55	43	21	15
15	15	14	13	12	14	45	36	88	55	33	50	13
16	15	15	13	12	14	40	41	76	52	25	35	13
17	16	17	13	12	14	37	49	61	54	22	95	14
18	16	17	13	13	15	33	47	82	52	21	100	14
19	16	18	13	12	18	31	47	85	51	21	25	14
20	17	17	13	12	20	30	54	84	49	20	24	14
21	16	15	13	11	22	28	57	90	46	23	23	14
22	15	15	13	11	24	27	67	113	45	21	23	14
23	14	15	13	11	25	25	76	98	44	20	26	20
24	15	15	11	12	26	24	88	100	43	20	30	23
25	15	15	9.8	12	25	24	82	93	43	22	27	19
26	24	15	9.6	12	25	25	81	114	42	21	25	19
27	23	14	9.5	13	24	26	67	161	42	21	25	20
28	17	14	9.4	13	28	27	68	130	41	21	24	20
29	17	14	9.3	13	---	28	67	128	38	20	24	22
30	18	14	9.4	13	---	33	65	124	36	20	24	40
31	22	---	9.5	13	---	31	---	158	---	26	25	---
TOTAL	542	482	381.5	355.5	487	1019	1421	2899	1647	880	970	552
MEAN	17.5	16.1	12.3	11.5	17.4	32.9	47.4	93.5	54.9	28.4	31.3	18.4
MAX	24	19	15	13	28	58	88	161	98	43	100	40
MIN	14	14	9.3	9.2	13	24	25	61	36	20	21	13
AC-FT	1080	956	757	705	966	2020	2820	5750	3270	1750	1920	1090

CAL YR 1982	TOTAL	6811.3	MEAN	18.7	MAX	55	MIN	6.5	AC-FT	13510
WTR YR 1983	TOTAL	11636.0	MEAN	31.9	MAX	161	MIN	9.2	AC-FT	23080

NOTE.--No gage-height record Nov. 18 to Apr. 5 and July 18 to Aug. 31.

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT

LOCATION.--Lat 37°23'26", long 112°49'30", in NW1/4NW1/4SW1/4 sec.26, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 300 ft below diversion, 10 mi south of Navajo Lake, 22.5 road mi from Navajo Lake turnoff at U-14 and 13.5 mi northwest of Glendale.

DRAINAGE AREA.--45.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft from topographic map.

REMARKS.--Records fair. Several small diversions for irrigation of about 800 acres above station.

AVERAGE DISCHARGE.--5 years, 26.6 ft^3/s, 19,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 242 ft^3/s Aug. 23, 1982, may have been exceeded by flood of Feb. 14, 1980 and Aug. 17, 1983, discharge unknown; minimum daily, 2.2 ft^3/s Aug. 12, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 8	2000	*214	2.67
Aug. 6	1930	176	2.53
Aug. 17	unknown	(1)	--
Aug. 24	2030	92	2.04

(1) May have exceeded that of May 8.

Minimum daily, 6.0 ft^3/s Dec. 28-31, Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	14	15	6.0	6.3	32	40	60	111	41	26	28
2	17	13	14	6.1	8.1	37	43	63	106	39	24	26
3	17	12	14	6.5	9.8	44	38	67	111	37	23	24
4	16	12	14	7.5	11	34	42	76	105	36	24	22
5	15	12	15	8.5	11	32	45	76	98	35	23	22
6	15	12	16	9.0	11	33	44	70	90	35	50	21
7	15	12	16	8.6	12	31	43	87	85	38	26	25
8	15	15	17	8.0	12	31	45	135	81	41	26	21
9	14	16	18	7.2	12	38	47	145	74	46	29	19
10	15	14	20	6.7	12	42	50	147	64	44	52	18
11	15	13	19	6.5	12	45	48	123	63	46	26	18
12	14	12	18	8.8	13	48	47	115	67	51	24	17
13	14	12	18	9.8	13	49	44	105	62	51	24	17
14	13	12	15	10	12	64	42	100	61	50	24	16
15	12	12	16	10	12	47	47	105	59	41	62	15
16	12	13	16	10	12	42	52	97	57	26	40	15
17	12	15	16	10	14	41	56	97	56	24	110	16
18	11	16	16	9.8	16	40	54	95	54	23	114	15
19	11	21	16	8.6	18	38	52	93	53	23	29	15
20	11	17	16	7.6	21	35	56	90	52	23	26	15
21	11	15	16	6.8	24	35	60	105	50	23	24	15
22	11	15	17	7.2	26	33	64	108	49	25	24	15
23	11	15	18	8.0	27	34	70	111	49	24	25	22
24	11	15	14	8.5	27	30	77	118	48	23	31	23
25	11	15	11	9.0	27	32	76	123	46	25	34	18
26	16	14	8.0	9.0	26	33	74	132	46	23	27	18
27	15	14	6.3	8.8	26	34	70	135	45	23	26	19
28	12	14	6.0	8.4	29	34	72	133	45	23	26	18
29	12	15	6.0	7.8	---	35	76	138	44	22	26	19
30	13	15	6.0	7.2	---	47	70	130	42	22	26	34
31	16	---	6.0	6.8	---	45	---	118	---	28	25	---
TOTAL	423	422	439.3	252.7	460.2	1195	1644	3297	1973	1011	1076	586
MEAN	13.6	14.1	14.2	8.15	16.4	38.5	54.8	106	65.8	32.6	34.7	19.5
MAX	20	21	20	10	29	64	77	147	111	51	114	34
MIN	11	12	6.0	6.0	6.3	30	38	60	42	22	23	15
AC-FT	839	837	871	501	913	2370	3260	6540	3910	2010	2130	1160

CAL YR 1982	TOTAL	5917.5	MEAN	16.2	MAX	54	MIN	6.0	AC-FT	11740
WTR YR 1983	TOTAL	12779.2	MEAN	35.0	MAX	147	MIN	6.0	AC-FT	25350

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

PERIOD OF DAILY RECORD.--October 1978 to current year.

REMARKS.--Unpublished daily records of sediment are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,100 mg/L Sept 7, 1983; minimum daily mean, 3 mg/L July 17, 21, 1982.
SEDIMENT LOADS: Maximum daily, 1,440 tons May 9, 1983; minimum daily 0.10 ton July 21, 1982.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,100 mg/L Sept. 7; minimum daily, 10 mg/L Oct. 22, 24, 25, July 29.
SEDIMENT LOADS: Maximum daily, 1,440 tons May 9; minimum daily, 0.30 ton Oct. 22, 24, 25.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	163	8.8										
2	98	4.5										
3	90	4.1										
4	63	2.7										
5	45	1.8										
6	50	2.0										
7	54	2.2										
8	43	1.7										
9	31	1.2										
10	24	.97										
11	20	.81										
12	16	.60										
13	13	.49										
14	16	.56										
15	15	.49										
16	19	.62										
17	23	.75										
18	15	.45										
19	15	.45										
20	14	.42										
21	12	.36										
22	10	.30										
23	11	.33										
24	10	.30										
25	10	.30										
26	33	1.4										
27	24	.97										
28	14	.45										
29	16	.52										
30	17	.60										
31	20	.86										
TOTAL	---	42.00	---	40.00	---	50.00	---	5.00	---	90.00	---	4800

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			300	49	1620	486	33	3.7	98	6.9	135	10
2			420	71	1620	464	31	3.3	36	2.3	198	14
3			890	161	1100	330	31	3.1	40	2.5	165	11
4			1600	328	980	278	30	2.9	163	11	126	7.5
5			1690	347	540	143	30	2.8	194	12	80	4.8
6			1850	350	460	112	21	2.0	220	30	83	4.7
7			2010	472	580	133	24	2.5	275	19	20100	1360
8			3100	1130	720	157	39	4.3	175	12	369	21
9			3680	1440	629	126	79	9.8	160	13	273	14
10			3610	1430	480	83	53	6.3	151	21	264	13
11			2590	860	480	82	52	6.5	144	10	182	8.8
12			1580	491	490	89	68	9.4	142	9.2	95	4.4
13			1490	422	260	44	62	8.5	142	9.2	79	3.6
14			1050	283	200	33	32	4.3	144	9.3	118	5.1
15			870	247	190	30	37	4.1	282	47	71	2.9
16			840	220	220	34	53	3.7	143	15	81	3.3
17			870	228	180	27	45	2.9	320	95	69	3.0
18			800	205	190	28	16	.99	370	114	34	1.4
19			650	163	93	13	14	.87	175	14	34	1.4
20			800	194	90	13	20	1.2	105	7.4	31	1.3
21			611	173	96	13	40	2.5	68	4.4	23	.93
22			950	277	91	12	65	4.4	60	3.9	22	.89
23			1580	474	89	12	52	3.4	59	4.0	1520	90
24			1810	577	59	7.6	34	2.1	169	14	2620	163
25			2110	701	50	6.2	23	1.6	192	18	880	43
26			3210	1140	39	4.8	16	.99	131	9.5	193	9.4
27			3600	1310	54	6.6	46	2.9	131	9.2	190	9.7
28			3990	1430	57	6.9	16	.99	128	9.0	179	8.7
29			3810	1420	34	4.0	10	.59	115	8.1	151	7.7
30			2410	846	28	3.2	13	.77	99	6.9	1980	182
31			1660	529	---	---	62	4.7	87	5.9	---	---
TOTAL	---	7200	---	17968	---	2781.3	---	108.10	---	552.7	---	2010.52

TOTAL LOAD FOR YEAR: 23462.62 TONS.

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°12'35", long 112°58'40", in NW1/4SW1/4NW1/4 sec.22, T.41 S., R.10 W., Washington County, Hydrologic Unit 15010008, on right bank in Zion National Park, 0.2 mi downstream from point of diversion of Springdale Canal, 0.5 mi downstream from Pine Creek, and 1.9 mi northeast of Springdale.

DRAINAGE AREA.--344 mi^2.

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 (flow of Springdale Canal not included) and as Mukuntuweap River near Springdale 1923, 1925-32.

GAGE.--Water-stage recorder. Altitude of gage is 3,970 ft from topographic map. May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 mi downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mi of present site at various datums.

REMARKS.--Records good. Figures given herein include Springdale Canal, which diverts water in NW1/4NW1/4 sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion for irrigation of about 1,400 acres above station.

AVERAGE DISCHARGE.--58 years, 105 ft^3/s, 76,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft^3/s Dec. 6, 1966, gage height, 12.98 ft, from rating curve extended above 2,000 ft^3/s on basis of drift measurement at gage height 6.7 ft, and a slope-area measurement at gage height 10.25 ft; minimum observed, 20 ft^3/s July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,490 ft^3/s May 29, gage height, 6.21 ft; minimum daily, 48 ft^3/s Oct. 24, Dec. 30, and Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	62	107	48	54	168	199	429	1570	209	115	79
2	63	58	88	51	57	205	178	392	1260	190	107	77
3	62	54	82	51	52	254	188	489	1110	180	103	71
4	63	55	88	55	52	201	158	599	1050	162	98	66
5	61	55	88	58	53	137	148	667	1060	145	107	66
6	59	54	85	57	53	132	138	636	1050	148	110	65
7	59	55	84	55	58	131	133	642	989	146	175	62
8	59	85	84	56	131	121	127	903	988	150	106	73
9	58	116	131	55	81	131	137	1090	902	149	151	66
10	57	119	116	54	78	140	158	1120	858	145	134	65
11	58	77	93	54	78	169	189	946	838	140	105	61
12	57	59	80	53	77	188	178	767	930	126	125	61
13	55	64	86	54	65	177	170	780	755	117	110	60
14	54	56	69	51	66	583	143	779	696	112	102	60
15	54	56	70	50	70	247	140	868	668	107	100	58
16	52	64	67	55	70	126	142	880	639	106	115	57
17	51	66	76	69	72	130	185	857	589	110	305	58
18	50	66	85	64	77	220	275	916	516	109	376	57
19	50	201	75	62	82	170	225	981	470	104	170	55
20	51	78	67	56	70	139	273	1010	432	102	122	54
21	50	63	67	55	68	149	313	1280	405	102	105	54
22	49	65	121	53	71	139	296	1520	380	117	97	55
23	49	73	306	67	75	209	391	1540	353	111	93	216
24	48	66	78	66	78	189	542	1570	334	102	91	156
25	49	65	60	63	90	148	586	1580	309	142	122	63
26	62	62	59	60	94	143	545	1600	289	110	94	56
27	77	65	66	62	179	148	513	1640	269	103	82	60
28	57	67	58	74	264	158	539	1690	262	104	76	57
29	56	82	50	68	---	148	618	1730	237	104	73	57
30	58	442	52	58	---	207	630	1680	227	104	73	123
31	60	---	48	65	---	254	---	1630	---	120	72	---
TOTAL	1756	2550	2686	1799	2315	5661	8457	33211	20435	3976	3814	2168
MEAN	56.6	85.0	86.6	58.0	82.7	183	282	1071	681	128	123	72.3
MAX	77	442	306	74	264	583	630	1730	1570	209	376	216
MIN	48	54	48	48	52	121	127	392	227	102	72	54
AC-FT	3480	5060	5330	3570	4590	11230	16770	65870	40530	7890	7570	4300

CAL YR 1982	TOTAL	39238	MEAN	108	MAX	801	MIN	30	AC-FT	77830
WTR YR 1983	TOTAL	88828	MEAN	243	MAX	1730	MIN	48	AC-FT	176200

09406000 VIRGIN RIVER AT VIRGIN, UT

LOCATION.--Lat 37°11'53", long 113°12'22", in SE1/4NW1/4NE1/4 sec.28, T.41 S., R.12 W., Washington County, Hydrologic Unit 15010008, on left bank 1.1 mi west of Virgin and 2.3 mi downstream from North Creek.

DRAINAGE AREA.--934 mi^2.

PERIOD OF RECORD.--April 1909 to September 1971, October 1978 to current year. Fragmentary prior to 1926, monthly discharge published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1942-43(M), 1947-48(M). WSP 1633: 1921(M), 1950-51.

GAGE.--Water-stage recorder. Altitude of gage is 3,440 ft from topographic map. At present location Oct. 1, 1978, from Dec. 19, 1949 to September 1971, directly across on right bank at different datum. Prior to Dec. 19, 1949, nonrecording gages at several sites within 3 mi of present site at various datums.

REMARKS.--Records fair. Diversions for irrigation of about 2,800 acres above station.

AVERAGE DISCHARGE.--67 years, 208 ft^3/s, 150,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft^3/s Dec. 6, 1966, gage height, 18.00 ft from rating curve extended above 5,000 ft^3/s on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft^3/s July 10, 1920 and June 11, 1921.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 30	1730	*4,740	7.24
Dec. 23	0500	3,290	6.29
Mar. 14	1400	2,470	5.61
Apr. 30	0600	1,830	5.34
May 9	0200	1,820	5.08
May 28	2400	2,910	6.01
Aug. 17	unknown	(1)	unknown
Sept. 24	0300	3,580	6.32

(1) May have exceeded that of Nov. 30.

Minimum, 58 ft^3/s Dec. 31, Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	187	325	63	150	450	500	806	1550	292	148	160
2	112	162	158	66	142	650	432	686	1330	284	136	160
3	114	135	133	70	150	1050	475	727	1160	270	132	145
4	115	133	128	73	155	730	371	875	1160	266	132	126
5	110	160	142	87	155	411	336	1020	1120	256	138	121
6	111	160	142	92	145	340	314	1000	1120	242	175	121
7	108	162	133	96	145	341	299	882	1080	256	140	121
8	108	223	121	98	380	323	292	1200	1050	281	140	130
9	106	344	239	102	256	340	299	1480	1010	545	150	116
10	100	288	266	100	187	374	333	1510	938	256	220	118
11	108	220	168	98	176	482	392	1470	938	200	255	114
12	116	168	138	100	168	507	384	1090	1010	189	182	114
13	118	178	138	102	162	472	363	1140	861	176	160	108
14	140	168	135	104	162	1000	336	1050	763	170	150	110
15	140	168	104	106	152	515	310	1150	727	170	157	108
16	133	155	114	110	150	351	310	1240	697	160	180	189
17	142	168	114	145	148	357	359	1100	667	150	220	176
18	168	162	112	152	155	617	540	1180	628	158	1350	135
19	162	475	104	142	170	490	485	1250	590	150	780	150
20	133	209	112	138	145	392	515	1220	550	145	560	181
21	155	140	121	126	140	425	661	1420	510	140	430	150
22	214	130	239	128	162	410	545	1700	470	147	350	121
23	212	168	973	150	168	600	661	1650	441	158	290	376
24	168	160	168	155	181	569	875	1730	418	170	240	480
25	168	152	100	178	198	461	1000	1730	410	180	206	168
26	173	160	89	150	192	451	945	1790	376	166	168	123
27	217	178	85	150	363	447	835	1810	355	152	148	126
28	178	184	85	200	1040	476	840	1820	329	143	138	121
29	170	195	71	176	---	460	1040	1900	314	140	140	126
30	187	1140	68	148	---	536	1240	1830	303	132	140	371
31	209	---	63	148	---	616	---	1750	---	180	138	---
TOTAL	4515	6632	5088	3753	5897	15643	16287	41206	22875	6324	7893	4865
MEAN	146	221	164	121	211	505	543	1329	763	204	255	162
MAX	217	1140	973	200	1040	1050	1240	1900	1550	545	1350	480
MIN	100	130	63	63	140	323	292	686	303	132	132	108
AC-FT	8960	13150	10090	7440	11700	31030	32310	81730	45370	12540	15660	9650

CAL YR 1982	TOTAL	68713	MEAN	188	MAX	1140	MIN	63	AC-FT	136300
WTR YR 1983	TOTAL	140978	MEAN	386	MAX	1900	MIN	63	AC-FT	279600

09408000 LEEDS CREEK NEAR LEEDS, UT

LOCATION.--Lat 37°16'03", long 113°22'12", in SW1/4SE1/4NE1/4 sec.36, T.40 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2.1 mi north of Leeds, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi^2.

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; Oct. 28, 1964 to Aug. 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records good. One diversion above station for domestic use.

AVERAGE DISCHARGE.--19 years, 7.97 ft^3/s, 5,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s Aug. 6, 1967, gage height, 5.78 ft, site and datum then in use; minimum recorded, 0.23 ft^3/s Jan. 3, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1964, reached a stage of 6.00 ft former site and datum, discharge 2,980 ft^3/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 3	0230	*802	4.31
Mar. 30	1830	66	2.65
Aug. 18	1500	108	2.91

Minimum, 2.8 ft^3/s Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.3	4.7	4.2	5.6	21	22	23	30	41	23	16
2	4.8	3.3	4.0	4.2	5.6	170	20	22	30	41	23	16
3	4.5	3.2	4.0	4.4	5.6	366	20	22	30	41	23	15
4	4.0	3.2	4.1	4.4	5.8	42	19	22	30	41	22	15
5	3.5	3.1	4.2	4.4	5.7	26	18	22	30	41	21	15
6	3.2	3.1	4.4	4.5	5.6	20	18	23	30	41	21	14
7	3.2	3.1	4.5	4.7	5.9	18	17	22	31	41	19	14
8	3.2	3.4	4.5	4.8	30	17	17	23	31	40	19	14
9	3.3	3.5	4.4	4.9	12	17	17	24	31	41	19	14
10	3.3	3.8	4.5	4.9	9.1	17	17	25	32	40	19	13
11	3.2	3.5	4.7	4.9	8.8	18	17	26	33	40	19	13
12	3.1	3.4	4.4	4.9	8.3	19	17	25	34	38	19	12
13	3.1	3.4	4.5	5.0	8.2	19	17	24	34	37	17	12
14	3.1	3.4	4.5	5.1	7.4	20	16	23	34	36	17	12
15	3.1	3.5	4.6	5.2	7.6	19	16	24	34	35	16	12
16	3.0	3.5	4.6	5.5	8.2	17	16	24	34	34	17	12
17	3.0	3.4	4.6	5.8	8.7	17	16	24	34	34	19	12
18	3.0	3.4	4.6	5.5	9.5	18	17	24	35	34	37	12
19	3.0	3.8	4.7	5.7	9.5	17	17	23	36	32	23	12
20	3.0	3.6	4.8	5.4	8.7	17	18	23	37	32	20	12
21	3.0	3.5	4.8	5.2	9.0	18	20	24	39	32	19	12
22	3.0	3.5	4.6	5.2	9.7	18	20	24	39	32	18	10
23	3.0	3.5	4.6	5.3	9.9	21	19	24	41	29	17	12
24	3.0	3.5	4.6	5.3	10	20	20	26	41	29	17	12
25	3.0	3.4	4.9	5.4	11	18	20	26	41	29	17	11
26	3.2	3.4	5.3	5.4	10	19	20	27	41	27	17	11
27	3.3	3.4	5.1	6.0	20	20	20	27	41	27	17	11
28	3.1	3.5	4.6	6.2	52	20	20	27	41	26	16	9.9
29	3.1	3.6	4.3	6.1	---	21	23	28	41	24	16	10
30	3.2	8.7	4.2	5.8	---	29	26	29	41	24	16	10
31	3.7	---	4.2	5.8	---	27	---	29	---	24	16	---
TOTAL	103.2	107.9	140.5	160.1	307.4	1126	560	759	1056	1063	599	375.9
MEAN	3.33	3.60	4.53	5.16	11.0	36.3	18.7	24.5	35.2	34.3	19.3	12.5
MAX	5.0	8.7	5.3	6.2	52	366	26	29	41	41	37	16
MIN	3.0	3.1	4.0	4.2	5.6	17	16	22	30	24	16	9.9
AC-FT	205	214	279	318	610	2230	1110	1510	2090	2110	1190	746

CAL YR 1982	TOTAL	1823.7	MEAN	5.00	MAX	20	MIN	1.8	AC-FT	3620
WTR YR 1983	TOTAL	6358.0	MEAN	17.4	MAX	366	MIN	3.0	AC-FT	12610

09408150 VIRGIN RIVER NEAR HURRICANE, UT

LOCATION.--Lat 37°09'45", long 113°23'42", in NE1/4NE1/4SW1/4 sec.2, T.42 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank at downstream side of bridge on State Highway 17, 1.8 mi downstream from Quail Creek and 6.2 mi west of Hurricane.

DRAINAGE AREA.--1,499 mi^2.

PERIOD OF RECORD.--March 1967 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 2,760 ft from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 9,400 acres above station.

AVERAGE DISCHARGE.--16 years, 251 ft^3/s, 181,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s Mar. 5, 1978, gage height, 16.28 ft; minimum, 23 ft^3/s Aug. 22, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, 17.34 ft Dec. 6, 1966, from floodmarks; discharge, 20,100 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 30	1900	*6,640	8.37
Dec. 23	0700	6,560	8.28
Mar. 3	1630	3,220	5.74
Mar. 14	1700	2,400	5.27
Apr. 29	0730	2,550	5.41
May 11	0430	2,370	5.24
May 30	0430	3,320	6.13
Aug. 17	2230	4,750	7.16
Aug. 18	1500	3,560	6.22

Minimum, 78 ft^3/s Oct. 18, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	123	765	228	198	619	699	938	2190	316	313	200
2	155	112	356	224	186	1060	595	854	1840	303	227	197
3	154	114	289	219	185	2540	625	944	1480	297	193	180
4	149	110	263	212	193	1200	542	1030	1440	290	187	156
5	147	112	257	208	198	776	508	1190	1240	277	185	137
6	139	112	253	215	194	641	523	1190	1320	261	201	126
7	134	117	251	217	193	630	504	1090	1240	264	365	119
8	121	127	223	215	564	605	476	1340	1160	303	242	137
9	119	304	286	210	489	576	472	1710	1180	415	224	132
10	114	236	542	200	292	481	490	1820	1060	344	297	128
11	108	207	301	190	262	547	508	1870	1040	277	330	115
12	100	139	253	184	240	651	537	1380	1120	254	270	109
13	98	116	219	183	227	571	527	1450	1030	242	245	102
14	96	114	239	184	241	1040	513	1350	865	227	224	108
15	93	106	202	183	226	710	481	1440	754	218	236	108
16	93	106	200	184	217	499	472	1580	715	207	354	106
17	91	104	197	209	215	532	495	1210	672	201	781	100
18	84	106	193	240	225	865	575	1380	620	207	1560	106
19	85	358	190	196	244	688	615	1440	590	198	566	106
20	85	195	187	209	223	600	581	1430	547	193	354	100
21	85	113	184	186	220	620	721	1700	508	190	313	104
22	85	108	195	174	231	615	765	2070	472	207	290	104
23	93	118	2190	185	240	854	966	2090	441	227	261	230
24	93	110	545	198	251	854	1150	2220	423	248	230	630
25	100	103	350	244	281	699	1110	2320	403	280	218	261
26	102	100	335	211	279	683	1080	2340	387	261	218	210
27	189	98	322	197	359	672	1080	2290	361	212	198	215
28	119	97	296	269	1580	666	1310	2400	340	201	177	201
29	110	105	259	243	---	610	1600	2470	327	190	174	169
30	108	1750	247	233	---	737	1110	2490	316	182	172	361
31	158	---	226	202	---	860	---	2330	---	201	184	---
TOTAL	3593	5720	10815	6452	8453	23701	21630	51356	26081	7693	9789	5057
MEAN	116	191	349	208	302	765	721	1657	869	248	316	169
MAX	189	1750	2190	269	1580	2540	1600	2490	2190	415	1560	630
MIN	84	97	184	174	185	481	472	854	316	182	172	100
AC-FT	7130	11350	21450	12800	16770	47010	42900	101900	51730	15260	19420	10030

CAL YR 1982	TOTAL	80285	MEAN	220	MAX	2190	MIN	40	AC-FT	159200
WTR YR 1983	TOTAL	180340	MEAN	494	MAX	2540	MIN	84	AC-FT	357700

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT

LOCATION.--Lat 37°23'00" long 113°28'57", in NW1/4SE1/4NE1/4 sec.24, T.39 S., R.15 W., Washington County, Hydrologic Unit 15010008, in Dixie National Forest, on right bank 150 ft upstream from highway bridge, 0.6 mi downstream from Pine Valley Reservoir, 1.6 mi southeast of town of Pine Valley, and 2.5 mi upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi^2.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,640 ft from topographic map.

REMARKS.--Records good. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

AVERAGE DISCHARGE.--24 years, 10.8 ft^3/s, 7,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft^3/s Dec. 6, 1966, gage height, 6.85 ft; minimum, 0.37 ft^3/s Mar. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 9	2300	82	2.58
May 29	2200	*240	3.86
July 9	1400	95	2.69
Aug. 18	1500	60	2.38

Minimum, 3.0 ft^3/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.3	4.3	3.9	3.2	7.6	17	33	196	77	28	16
2	5.1	4.8	4.0	3.9	3.3	12	17	28	149	76	27	16
3	5.1	4.4	4.2	3.6	3.4	22	18	28	132	74	26	16
4	4.9	4.2	4.4	3.6	3.3	12	15	33	127	71	25	14
5	4.8	4.0	4.7	3.6	3.3	9.0	13	39	125	69	24	14
6	4.6	4.0	5.1	3.8	3.2	9.3	12	40	137	68	23	14
7	4.4	3.8	5.3	4.0	3.2	9.9	10	38	141	67	23	14
8	4.3	4.3	5.0	4.2	3.5	10	9.7	53	151	65	22	14
9	4.3	4.3	5.2	4.2	3.2	14	9.7	71	149	74	22	14
10	4.3	4.6	5.7	4.0	3.2	19	11	75	135	64	21	12
11	4.2	4.2	5.2	3.9	3.3	23	12	69	140	56	21	12
12	4.0	4.1	5.2	3.9	3.6	23	11	54	144	52	21	12
13	4.0	4.2	5.3	4.0	3.9	24	10	48	133	49	20	12
14	3.9	4.2	6.1	4.0	3.9	28	9.4	42	120	46	19	11
15	3.8	4.2	5.8	4.1	4.0	21	9.4	44	116	44	20	11
16	3.7	4.2	4.7	4.1	4.0	16	10	52	120	42	21	11
17	3.7	4.1	4.7	4.2	4.2	14	14	46	134	40	25	11
18	3.6	4.1	4.7	4.0	4.7	13	21	47	146	38	42	11
19	3.6	4.9	4.7	4.1	4.8	11	20	51	144	37	37	11
20	3.6	4.5	4.6	4.1	4.7	9.9	23	54	130	35	30	11
21	3.6	4.3	4.4	3.6	5.0	9.7	22	71	125	35	25	10
22	3.4	4.2	4.5	3.6	5.3	8.7	23	95	121	34	24	10
23	3.4	4.1	5.9	3.7	5.6	8.5	32	113	114	33	22	10
24	3.4	4.0	5.1	3.6	5.8	8.3	48	135	107	32	21	11
25	3.4	3.9	4.5	3.7	5.7	7.5	49	147	100	34	20	10
26	3.9	3.9	3.9	3.6	5.3	7.1	44	163	93	31	19	10
27	4.2	3.9	3.7	3.8	5.2	7.1	41	183	91	30	19	11
28	3.9	3.8	3.7	3.7	5.7	7.1	43	197	89	29	18	10
29	3.8	3.8	3.8	3.8	---	7.1	45	211	86	28	18	11
30	4.4	4.5	3.8	3.9	---	10	40	212	81	27	18	14
31	6.1	---	3.8	3.6	---	17	---	205	---	29	17	---
TOTAL	128.7	126.8	146.0	119.8	117.5	405.8	659.2	2677	3776	1486	718	364
MEAN	4.15	4.23	4.71	3.86	4.20	13.1	22.0	86.4	126	47.9	23.2	12.1
MAX	6.1	5.3	6.1	4.2	5.8	28	49	212	196	77	42	16
MIN	3.4	3.8	3.7	3.6	3.2	7.1	9.4	28	81	27	17	10
AC-FT	255	252	290	238	233	805	1310	5310	7490	2950	1420	722

CAL YR 1982		TOTAL	3231.8	MEAN	8.85	MAX	66	MIN	1.4	AC-FT	6410	
WTR YR 1983		TOTAL	10724.8	MEAN	29.4	MAX	212	MIN	3.2	AC-FT	21270	

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in SW1/4SE1/4NW1/4 sec.19, T.38 S., R.14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi downstream from outlet of diversion tunnel and 6 mi southeast of Pinto.

PERIOD OF RECORD.--October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft from topographic map. Prior to September 1962, at site 600 ft upstream at different datum.

REMARKS.--Records good. Flow at this station is seasonal occurring during the snowmelt period and heavy storm periods. This is a transmountain diversion from a tributary of Santa Clara River in Colorado River Basin to Pinto Creek in Escalante Valley in the Great Basin.

AVERAGE DISCHARGE.--23 years (1953-62, 1969-83), 3.77 ft^3/s, 2,730 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 229 ft^3/s May 24, 1983, gage height, 2.58 ft; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 229 ft^3/s May 24, gage height, 2.58 ft; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	3.3	26	17	121	7.2	.00	.57
2	.00	.00	.00	.00	.00	5.4	29	9.0	57	6.7	.00	.55
3	.00	.00	.84	.00	.00	9.7	27	7.4	39	6.2	.00	.32
4	.00	.00	.44	.00	.00	11	21	14	28	5.1	.00	.00
5	.00	.00	.49	.00	.00	7.9	18	27	32	4.6	.00	.00
6	.00	.00	.39	.00	.00	7.9	17	29	64	4.0	5.1	.00
7	.00	.00	.29	.00	.00	9.0	15	21	81	3.6	2.6	.00
8	.00	.00	.14	.00	.00	12	14	54	88	3.4	1.2	.00
9	.00	.00	.00	.00	.00	17	13	110	85	4.0	.68	.00
10	.00	.00	.00	.00	.00	22	14	126	63	3.6	.29	.00
11	.00	.00	.00	.00	.00	31	15	94	59	2.8	.29	.00
12	.00	.00	.00	.00	.00	34	12	36	65	2.5	.25	.00
13	.00	.00	.00	.00	.00	34	11	29	49	2.0	.25	.00
14	.00	.00	.00	.00	.00	33	12	23	45	1.6	.01	.00
15	.00	.00	.00	.00	.00	21	14	27	38	1.2	.09	.00
16	.00	.00	.00	.00	.00	16	14	39	37	.68	.14	.00
17	.00	.00	.00	.00	.00	15	18	25	44	.50	1.5	.00
18	.00	.00	.00	.00	.00	10	29	24	45	.34	5.3	.00
19	.00	.96	.00	.00	.00	13	32	27	43	.19	4.8	.00
20	.00	.69	.00	.00	2.0	11	43	29	37	.03	3.8	.00
21	.00	.44	.00	.00	3.2	10	39	52	30	.02	3.1	.00
22	.00	.34	.00	.00	1.3	9.0	38	122	25	.08	2.6	.00
23	.00	.29	.39	.00	.49	7.9	67	129	21	.03	2.2	.00
24	.00	.64	.54	.00	.79	6.3	108	180	18	.00	1.8	.00
25	.00	.59	.49	.00	1.2	9.0	67	144	15	.00	1.6	.00
26	.00	.54	.19	.00	1.3	7.6	40	142	12	.00	1.3	.00
27	.00	.59	.00	.00	1.5	7.4	37	173	11	.00	1.1	.00
28	.00	.54	.00	.00	1.9	7.1	46	144	9.8	.00	.98	.00
29	.00	.39	.00	.00	---	7.1	58	140	9.2	.00	.84	.00
30	.00	.49	.00	.00	---	12	30	139	8.0	.00	.73	.78
31	.00	---	.00	.00	---	26	---	143	---	.00	.63	---
TOTAL	.00	6.50	4.20	.00	13.68	432.6	924	2275.4	1279.0	60.37	43.18	2.22
MEAN	.00	.22	.14	.00	.49	14.0	30.8	73.4	42.6	1.95	1.39	.07
MAX	.00	.96	.84	.00	3.2	34	108	180	121	7.2	5.3	.78
MIN	.00	.00	.00	.00	.00	3.3	11	7.4	8.0	.00	.00	.00
AC-FT	.00	13	8.3	.00	27	858	1830	4510	2540	120	86	4.4

CAL YR 1982	TOTAL	1422.33	MEAN	3.90	MAX	55	MIN	.00	AC-FT	2820
WTR YR 1983	TOTAL	5041.15	MEAN	13.8	MAX	180	MIN	.00	AC-FT	10000

09409880 SANTA CLARA RIVER AT GUNLOCK, UT

LOCATION.--Lat 37°16'55", long 113°46'00", in SW1/4SW1/4NW1/4 sec.28, T.40 S., R.17 W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi below tailrace of powerhouse.

DRAINAGE AREA.--271 mi^2.

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,628 ft from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--14 years, 29.4 ft^3/s, 21,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft^3/s Feb. 14, 1980, gage height, 5.74 ft from rating curve extended above 1,580 ft^3/s; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,560 ft^3/s Mar. 3, gage height, 5.71 ft result of discharge measurement; minimum, 5.9 ft^3/s Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	43	9.8	11	260	120	113	270	50	8.9	14
2	18	18	27	9.6	11	503	92	93	220	46	7.8	12
3	16	18	23	9.5	11	1010	97	82	172	49	15	14
4	14	17	22	9.0	11	522	86	79	157	47	15	16
5	12	18	21	8.4	11	201	68	85	143	42	9.0	14
6	12	19	21	8.3	10	142	60	86	144	38	7.5	13
7	11	19	20	8.2	10	118	56	80	151	37	12	15
8	9.4	19	20	8.2	58	102	54	86	152	35	14	15
9	9.0	17	19	7.9	67	93	52	103	168	36	13	15
10	11	20	20	8.6	53	90	52	108	150	44	13	14
11	13	18	19	9.0	48	99	56	107	145	36	11	16
12	15	20	19	9.7	44	103	55	93	156	32	11	16
13	14	22	18	9.7	43	96	48	81	145	28	11	13
14	14	22	18	9.7	33	136	44	74	121	24	9.6	9.9
15	13	19	17	9.2	29	104	43	73	112	19	12	8.3
16	13	18	17	9.4	29	87	43	74	109	16	10	10
17	15	18	17	9.7	30	85	49	72	121	14	31	11
18	15	19	17	9.9	34	87	77	66	127	12	66	12
19	14	19	16	9.9	40	76	80	69	142	8.4	54	12
20	12	26	16	9.9	32	74	86	69	126	7.8	40	12
21	14	20	16	9.8	30	74	171	77	113	9.4	34	12
22	14	24	16	9.8	32	66	124	94	108	9.3	30	11
23	14	24	45	9.9	33	99	116	116	97	10	27	11
24	13	26	20	9.9	35	118	153	139	89	13	25	17
25	14	26	12	10	45	93	138	158	87	14	21	17
26	14	24	11	10	44	95	104	167	82	11	17	17
27	15	24	11	10	74	110	90	212	67	12	14	21
28	17	26	9.6	10	360	114	89	233	66	12	11	20
29	17	24	9.5	11	---	106	98	265	61	9.5	12	40
30	17	29	9.6	11	---	186	120	296	54	8.4	12	40
31	17	---	9.5	11	---	201	---	273	---	9.8	13	---
TOTAL	434.4	630	579.2	296.0	1268	5250	2521	3723	3855	739.6	586.8	468.2
MEAN	14.0	21.0	18.7	9.55	45.3	169	84.0	120	129	23.9	18.9	15.6
MAX	18	29	45	11	360	1010	171	296	270	50	66	40
MIN	9.0	17	9.5	7.9	10	66	43	66	54	7.8	7.5	8.3
AC-FT	862	1250	1150	587	2520	10410	5000	7380	7650	1470	1160	929

CAL YR 1982	TOTAL	7299.1	MEAN	20.0	MAX	91	MIN	5.0	AC-FT	14480
WTR YR 1983	TOTAL	20351.2	MEAN	55.8	MAX	1010	MIN	7.5	AC-FT	40370

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'24", long 113°46'03", in SW1/4SW1/4NW1/4 sec.28, T.41 S., R.17 W., Washington County, Hydrologic Unit 15010008, on left bank 900 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 78.5 mi northwest of Santa Clara.

DRAINAGE AREA.--378 mi^2.

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS. WRD UT-73-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 3,210 ft from topographic map, prior to July 11, 1979 at several sites downstream at different datums.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years, 32.4 ft^3/s, 23,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft^3/s Mar. 3, 1983, gage height, 6.07 ft from rating curve extended above 980 ft^3/s on basis of slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,770 ft^3/s Mar. 3, gage height, 6.07 ft; minimum, no flow on several days during October and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	17	4.3	11	.85	615	223	88	335	66	29	24
2	6.8	18	1.1	11	.04	1060	137	84	295	60	26	24
3	.19	21	.21	16	.00	1530	128	84	235	57	31	24
4	.00	24	.10	21	.00	718	118	79	206	57	26	24
5	.00	21	.09	17	.00	214	96	80	190	51	26	24
6	.00	19	.10	11	.00	129	80	81	179	49	25	24
7	.00	16	.10	11	8.1	120	73	81	181	39	25	24
8	.00	14	.08	10	129	115	65	81	179	39	25	24
9	.00	14	.07	10	208	108	66	99	194	40	24	24
10	.00	6.9	.10	10	134	110	64	107	189	45	24	24
11	.00	7.5	.05	9.9	85	108	70	110	172	53	25	24
12	.00	5.7	.05	3.0	55	112	77	102	177	57	26	24
13	.00	3.8	.07	.58	49	111	72	88	188	53	25	24
14	.00	2.2	.06	.38	48	129	63	76	158	49	24	24
15	.00	2.0	.05	1.0	34	123	59	72	152	50	24	24
16	.00	1.8	.05	9.6	34	74	59	77	152	47	26	24
17	.00	2.2	.06	12	33	80	62	76	154	45	40	24
18	.00	2.6	.07	11	33	122	84	68	164	44	50	24
19	.00	1.7	.07	11	34	112	118	73	183	40	32	24
20	.00	1.7	.07	11	34	90	119	67	181	43	30	24
21	.00	1.7	.15	11	33	82	179	73	162	43	23	24
22	.00	1.7	.20	11	39	87	196	91	154	42	24	24
23	.00	1.3	.64	11	42	83	154	114	142	41	24	24
24	.00	1.6	.25	12	42	166	160	132	130	40	24	28
25	1.0	1.4	6.6	11	42	124	147	142	119	44	24	29
26	3.9	1.1	14	11	42	104	116	146	118	42	24	26
27	1.6	1.2	51	11	50	107	96	186	99	41	24	24
28	2.1	1.5	55	9.4	535	122	84	206	91	40	24	24
29	5.5	1.5	43	1.4	---	108	81	250	83	41	24	28
30	5.8	27	12	.26	---	119	89	306	72	39	24	40
31	14	---	12	.10	---	270	---	318	---	36	24	---
TOTAL	47.99	242.1	201.69	286.62	1743.99	7152	3135	3637	5034	1433	826	751
MEAN	1.55	8.07	6.51	9.25	62.3	231	105	117	168	46.2	26.6	25.0
MAX	14	27	55	21	535	1530	223	318	335	66	50	40
MIN	.00	1.1	.05	.10	.00	74	59	67	72	36	23	24
AC-FT	95	480	400	569	3460	14190	6220	7210	9980	2840	1640	1490

CAL YR 1982	TOTAL	5050.58	MEAN	13.8	MAX	195	MIN	.00	AC-FT	10020
WTR YR 1983	TOTAL	24490.39	MEAN	67.1	MAX	1530	MIN	.00	AC-FT	48580

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE1/4NW1/4SW1/4 sec.6, T.43 S., R.15 W., Washington County, Hydrologic Unit 15010010, on left bank 2.5 mi south of St. George.

DRAINAGE AREA.--3,831 mi^2.

PERIOD OF RECORD.--September 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,530 ft from topographic map, prior to Sept. 19, 1978 at site 1.5 mi downstream at different datum.

REMARKS.--Records poor. Diversions for irrigation of about 19,600 acres above station.

AVERAGE DISCHARGE.--6 years, 372 ft^3/s, 269,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 10,000 ft^3/s Feb. 15, 1980; minimum, 5.8 ft 3/s Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,800 ft^3/s May 29, 30; minimum, 44 ft^3/s Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	174	330	240	245	700	927	1180	2600	310	260	102
2	152	172	280	236	238	1000	746	1030	2500	313	220	110
3	143	170	245	234	229	2620	740	1000	2200	306	140	108
4	138	168	238	224	240	2110	625	1060	2100	286	130	104
5	137	167	234	219	243	1210	550	1220	2000	278	130	95
6	136	170	232	217	236	920	525	1190	2100	260	150	94
7	136	182	232	216	238	800	485	1100	1930	245	260	94
8	133	287	256	215	475	760	462	1300	1540	270	170	109
9	130	494	290	215	734	720	406	1700	1560	360	160	109
10	128	574	410	218	392	590	398	1870	1410	300	180	109
11	127	370	300	218	354	690	422	1950	1380	240	220	91
12	124	270	260	218	320	770	510	1500	1400	220	160	89
13	121	225	230	218	331	700	453	1570	1360	200	140	69
14	121	190	242	218	335	1100	426	1420	1170	190	120	55
15	121	177	238	218	324	840	378	1580	998	180	130	49
16	121	163	224	218	324	600	350	1700	929	170	150	56
17	122	151	220	240	331	631	354	1340	911	160	180	61
18	125	140	220	301	305	1010	490	1430	784	150	700	61
19	128	393	218	262	290	866	620	1460	697	140	300	71
20	130	660	215	273	270	758	580	1700	663	138	200	76
21	132	184	211	246	265	669	698	2100	539	135	180	76
22	134	175	224	246	270	758	908	2400	490	140	170	62
23	137	185	1070	242	270	872	878	2500	432	158	160	131
24	142	170	600	266	273	1090	1080	2600	424	180	140	1020
25	150	170	345	306	300	878	1250	2800	409	210	130	1100
26	163	170	314	271	290	812	1150	2700	394	190	136	464
27	244	170	290	261	320	800	1110	2600	382	170	120	289
28	287	170	278	313	1430	806	1060	2700	364	150	100	271
29	170	180	266	298	---	746	1200	2800	364	128	98	255
30	178	1600	256	286	---	818	1550	2800	335	120	98	440
31	220	---	250	252	---	1060	---	2700	---	130	99	---
TOTAL	4611	8471	9218	7605	9872	28704	21331	57000	34365	6427	5531	5820
MEAN	149	282	297	245	353	926	711	1839	1146	207	178	194
MAX	287	1600	1070	313	1430	2620	1550	2800	2600	360	700	1100
MIN	121	140	211	215	229	590	350	1000	335	120	98	49
AC-FT	9150	16800	18280	15080	19580	56930	42310	113100	68160	12750	10970	11540

CAL YR 1982	TOTAL	80154	MEAN	220	MAX	2400	MIN	26	AC-FT	159000
WTR YR 1983	TOTAL	198955	MEAN	545	MAX	2800	MIN	49	AC-FT	394600

NOTE.--No gage-height record July 12 to Aug. 17.

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BEACH BOAT HARBOR, UT

LOCATION.--Lat 40°44'05", long 112°12'45", in NE1/4SW1/4NW1/4 sec.17, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, at State Park Saltair Beach Boat Harbor on southeast shore of lake, 17.1 mi west of Salt Lake City.

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published only in WSP 1314.

REVISED RECORDS.--WSP 1314: 1877. WRD-UT-74-1: 1967-73.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft. Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft NGVD of 1929. Staff gage at midlake October 1902 to September 1956 at 4,197.9 ft NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,210.9 ft June 30, 1876; minimum, 4,191.35 ft Oct. 15, Nov. 1, 1963. Maximum elevation since 1847, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,204.75 ft June 30; minimum, 4.200.05 ft Oct. 1.

REVISIONS.--Revised figures of elevation for water years 1981 through 1982, superseding those previously published are given in the following tables.

Day	Elevation	Day	Elevation	Day	Elevation	Day	Elevation
Oct. 1, 1980. .	4,199.10	Apr. 1, 1981. .	4,200.00	Oct. 1, 1981. .	4,198.15	Apr. 1, 1982. .	4,199.80
15.	4,199.00	15.	4.200.05	15.	4,198.35	15.	4,200.10
Nov. 1.	4,199.00	May 1.	4,200.00	Nov. 1.	4,198.35	May 1.	4,200.25
15.	4,199.10	15.	4,199.90	15.	4,198.40	15.	4,200.55
Dec. 1.	4,199.25	June 1.	4,200.05	Dec. 1.	4,198.40	June 1. . . .	4-200.70
15.	4,199.35	15.	4,200.15	15.	4,198.45	15.	4 200.70
Jan. 1, 1981. .	4,199.50	July 1.	4,199.90	Jan. 1, 1982. .	4,198.60	July 1.	4,200.45
15.	4,199.65	15.	4,199.55	15.	4-198.70	15.	4,200.35
Feb. 1.	4,199.80	Aug. 1.	4,199.20	Feb. 1.	4-198.80	Aug. 1.	4,200.25
15.	4,199.85	15.	4,198.85	15.	4-198.85	15.	4,199.90
Mar. 1.	4,199.85	Sept. 1.	4.198.60	Mar. 1.	4,199.20	Sept. 1.	4,199.75
15.	4.199.95	15.	4.198.40	15.	4,199.45	15.	4,199.65

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Day	Gage height	Elevation
Oct. 1	13.25	4,200.05
15	13.50	4,200.30
Nov. 1	13.70	4,200.50
15	13.90	4,200.70
Dec. 1	14.10	4,200.90
15	14.45	4,201.25
Jan. 1	14.65	4,201.45
15	14.80	4,201.60
Feb. 1	15.10	4,201.90
15	15.35	4,202.15
Mar. 1	15.45	4,202.25
15	15.65	4,202.45
Apr. 1	16.20	4,203.00
15	16.45	4,203.25
May 1	16.70	4,203.50
15	16.85	4,203.65
June 1	17.25	4,204.05
15	17.70	4,204.50
July 1	17.90	4,204.70
15	17.85	4,204.65
Aug. 1	17.65	4,204.45
15	17.50	4,204.30
Sept. 1	17.60	4,204.40
15	17.60	4,204.40

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION.--Lat 41°15'30", long 112°29'58", in NE1/4SW1/4SW1/4 sec.11, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020309, 3.4 mi north of Saline at the Southern Pacific Causeway boat harbor, 27.4 mi west of Ogden and 28.2 mi south of Thiokol.

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WDR UT-75-1: 1966-75. W 1983: Gage datum.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.80 ft (revised) NGVD of 1929 by levels from U.S. Geological Survey National Mapping Division, B.M. 77FMK.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,201.85 ft Sept. 30, 1983; minimum, 4,192.70 ft Oct. 15, Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,201.85 ft Sept. 30; minimum, 4,198.40 ft Oct. 1.

REVISIONS.--Gage datum has been revised. Tables of bimonthly elevations reflecting revised elevations are listed below superseding those published in reports for 1966-82.

Day	Elevation	Day	Elevation	Day	Elevation	Day	Elevation
Apr. 15, 1966.	*4,194.70	Dec. 1, 1968.	4,193.65	June 1, 1971.	4,196.40	Dec. 1, 1973.	4,197.55
May 1.	*4,194.70	15.	4,193.75	15.	4,196.55	15.	4,197.65
15.	*4,194.70	Jan. 1, 1969.	4,194.00	July 1.	4,196.45	Jan. 1, 1974.	4,197.90
June 1.	*4,194.70	15.	4,194.10	15.	4,196.40	15.	4,198.05
15.	*4,194.40	Feb. 1.	4,194.55	Aug. 1.	4,196.25	Feb. 1.	4,198.30
July 1.	*4,193.10	15.	4,194.80	15.	4,196.10	15.	4,198.40
15.	*4,193.95	Mar. 1.	4,195.10	Sept. 1.	4,195.90	Mar. 1.	4,198.60
Aug. 1.	4,193.65	15.	4,195.30	15.	4,195.90	15.	4,198.80
15.	4,193.40	Apr. 1.	4,195.45	Oct. 1.	4,195.70	Apr. 1.	4,198.85
Sept. 1.	4,193.10	15.	4,195.70	15.	4,195.75	15.	4,199.00
15.	4,193.00	May 1.	4,195.75	Nov. 1.	4,195.80	May 1.	4,199.10
Oct. 1.	4,192.85	15.	4,195.80	15.	4,196.00	15.	4,199.10
15.	4,192.65	June 1.	4,195.70	Dec. 1.	4,196.10	June 1.	4,199.10
Nov. 1.	4,192.65	15.	4,195.60	15.	4,196.25	15.	4,199.05
15.	4,192.75	July 1.	4,195.50	Jan. 1, 1972.	4,196.55	July 1.	4,198.95
Dec. 1.	4,192.75	15.	4,195.35	15.	4,196.70	15.	4,198.75
15.	4,193.10	Aug. 1.	4,195.10	Feb. 1.	4,196.95	Aug. 1.	4,198.60
Jan. 1, 1967.	4,192.85	15.	4,194.85	15.	4,197.10	15.	4,198.35
15.	4,192.90	Sept. 1.	4,194.60	Mar. 1.	4,197.30	Sept. 1.	4,198.10
Mar. 1.	4,193.30	15.	4,194.50	15.	4,197.40	15.	4,197.90
15.	4,193.40	Oct. 1.	4,194.30	Apr. 1.	4,197.50	Oct. 1.	4,197.70
Apr. 1.	4,193.45	15.	4,194.10	15.	4,197.65	15.	4,197.60
15.	4,193.55	Nov. 1.	4,194.15	May 1.	4,197.65	Nov. 1.	4,197.65
May 1.	4,193.55	15.	4,194.20	15.	4,197.75	15.	4,197.70
15.	4,193.70	Dec. 1.	4,194.25	June 1.	4,197.75	Dec. 1.	4,197.70
June 1.	4,193.75	15.	4,194.40	15.	4,197.75	15.	4,197.75
15.	4,194.00	Jan. 1, 1970.	4,194.50	July 1.	4,197.65	Jan. 1, 1975.	4,197.75
July 1.	4,194.15	15.	4,194.65	15.	4,197.50	15.	4,197.90
15.	4,194.10	Feb. 1.	4,194.90	Aug. 1.	4,197.30	Feb. 1.	4,198.05
Aug. 15.	4,193.70	15.	4,195.05	15.	4,197.15	15.	4,198.15
Sept. 1.	4,193.50	Mar. 1.	4,195.10	Sept. 1.	4,196.90	Mar. 1.	4,198.30
15.	4,193.35	15.	4,195.15	15.	4,196.75	15.	4,198.35
Oct. 1.	4,193.20	Apr. 1.	4,195.15	Oct. 1.	4,196.60	Apr. 1.	4,198.50
15.	4,193.15	15.	4,195.15	15.	4,196.60	15.	4,198.55
Nov. 1.	4,193.10	May 1.	4,195.15	Nov. 1.	4,196.65	May 1.	4,198.65
15.	4,193.20	15.	4,195.20	15.	4,196.80	15.	4,198.80
Dec. 1.	4,193.20	June 1.	4,195.15	Dec. 1.	4,196.90	June 1.	4,198.95
15.	4,193.20	15.	4,195.15	15.	4,196.95	15.	4,199.00
Jan. 1, 1968.	4,193.30	July 1.	4,195.05	Jan. 1, 1973.	4,197.10	July 1.	4,199.00
15.	4,193.40	15.	4,194.95	15.	4,197.25	15.	4,199.05
Feb. 1.	4,193.55	Aug. 1.	4,194.75	Feb. 1.	4,197.45	Aug. 1.	4,199.00
15.	4,193.70	15.	4,194.55	15.	4,197.60	15.	4,198.95
Mar. 1.	4,193.90	Sept. 1.	4,194.30	Mar. 1.	4,197.80	Sept. 1.	4,198.75
15.	4,194.15	15.	4,194.05	15.	4,198.10	15.	4,198.65
Apr. 1.	4,194.40	Oct. 1.	4,193.95	Apr. 1.	4,198.30	Oct. 1.	4,198.60
15.	4,194.45	15.	4,193.90	15.	4,198.35	15.	4,198.55
May 1.	4,194.45	Nov. 1.	4,193.90	May 1.	4,198.50	Nov. 1.	4,198.55
15.	4,194.50	15.	4,194.05	15.	4,198.50	15.	4,198.55
June 1.	4,194.45	Dec. 1.	4,194.15	June 1.	4,198.55	Dec. 1.	4,198.60
15.	4,194.60	15.	4,194.30	15.	4,198.50	15.	4,198.65
July 1.	4,194.45	Jan. 1, 1971.	4,194.50	July 1.	4,198.40	Jan. 1, 1976.	4,198.85
15.	4,194.35	15.	4,194.60	15.	4,198.35	15.	4,199.00
Aug. 1.	4,194.05	Feb. 1.	4,194.80	Aug. 1.	4,198.15	Feb. 1.	4,199.15
15.	4,193.95	15.	4,195.20	15.	4,198.00	15.	4,199.35
Sept. 1.	4,193.85	Mar. 1.	4,195.25	Sept. 1.	4,197.75	Mar. 1.	4,199.55
15.	4,193.70	15.	4,195.35	15.	4,197.70	15.	4,199.65
Oct. 1.	4,193.55	Apr. 1.	4,195.60	Oct. 1.	4,197.55	Apr. 1.	4,199.80
15.	4,193.45	15.	4,195.70	15.	4,197.40	15.	4,200.00
Nov. 1.	4,193.55	May 1.	4,196.15	Nov. 1.	4,197.40	May 1.	4,200.10
15.	4,193.60	15.	4,196.30	15.	4,197.45	15.	4,200.10

* Elevation from reference point.

10010100 GREAT SALT LAKE NEAR SALINE, UT--Continued

REVISIONS.--Continued

Day	Elevation	Day	Elevation	Day	Elevation	Day	Elevation
June 1, 1976. .	4,200.10	Jan. 1, 1978. .	4,197.65	Aug. 1, 1979. .	4,197.35	Mar. 1, 1981. .	4,198.20
15.	4,200.00	15.	4,197.70	15.	4,197.20	15.	4,198.30
July 1.	4,199.95	Feb. 1.	4,197.85	Sept. 1.	4,196.95	Apr. 1.	4,198.35
15.	4,199.85	15.	4,198.05	15.	4,196.75	15.	4,198.40
Aug. 1.	4,199.60	Mar. 1.	4,198.10	Oct. 1.	4,196.60	May 1.	4,198.40
15.	4,199.45	15.	4,198.30	15.	4,196.45	15.	4,198.35
Sept. 1.	4,199.30	Apr. 1.	4,198.35	Nov. 1.	4,196.40	June 1.	4,198.45
15.	4,199.20	15.	4,198.40	15.	4,196.40	15.	4,198.40
Oct. 1.	4,199.05	May 1.	4,198.40	Dec. 1.	4,196.35	July 1.	4,198.20
15.	4,199.00	15.	4,198.40	15.	4,196.40	15.	4,198.05
Nov. 1.	4,198.85	June 1.	4,198.40	Jan. 1, 1980. .	4,196.45	Aug. 1.	4,197.75
15.	4,198.85	15.	4,198.40	15.	4,196.65	15.	4,197.60
Dec. 1.	4,198.75	July 1.	4,198.20	Feb. 1.	4,196.80	Sept. 1.	4,197.35
15.	4,198.80	15.	4,198.05	15.	4,196.95	15.	4,197.20
Jan. 1, 1977. .	4,198.80	Aug. 1.	4,197.80	Mar. 1.	4,197.30	Oct. 1.	4,197.00
15.	4,198.85	15.	4,197.55	15.	4,197.55	15.	4,197.15
Feb. 1.	4,198.90	Sept. 1.	4,197.35	Apr. 1.	4,197.55	Nov. 1.	4,197.05
15.	4,199.00	15.	4,197.25	15.	4,197.55	15.	4,197.10
Mar. 1.	4,199.05	Oct. 1.	4,197.25	May 1.	4,197.70	Dec. 1.	4,197.10
15.	4,199.05	15.	4,197.15	15.	4,197.90	15.	4,197.15
Apr. 1.	4,199.10	Nov. 1.	4,197.05	June 1.	4,198.15	Jan. 1, 1982. .	4,197.30
15.	4,199.10	15.	4,197.05	15.	4,198.30	15.	4,197.35
May 1.	4,199.05	Dec. 1.	4,197.05	July 1.	4,198.25	Feb. 1.	4,197.40
15.	4,199.00	15.	4,197.15	15.	4,198.20	15.	4,197.50
June 1.	4,199.20	Jan. 1, 1979. .	4,197.30	Aug. 1.	4,198.05	Mar. 1.	4,197.60
15.	4,199.10	15.	4,197.40	15.	4,197.85	15.	4,197.80
July 1.	4,198.90	Feb. 1.	4,197.55	Sept. 1.	4,197.75	Apr. 1.	4,197.95
15.	4,198.65	15.	4,197.65	15.	4,197.65	15.	4,198.15
Aug. 1.	4,198.40	Mar. 1.	4,197.85	Oct. 1.	4,197.60	May 1.	4,198.20
15.	4,198.20	15.	4,198.00	15.	4,197.50	15.	4,198.40
Sept. 1.	4,198.15	Apr. 1.	4,198.15	Nov. 1.	4,197.50	June 1.	4,198.45
15.	4,197.95	15.	4,198.15	15.	4,197.55	15.	4,198.45
Oct. 1.	4,197.85	May 1.	4,198.15	Dec. 1.	4,197.60	July 1.	4,198.40
15.	4,197.75	15.	4,198.20	15.	4,197.65	15.	4,198.35
Nov. 1.	4,197.65	June 1.	4,198.10	Jan. 1, 1981. .	4,197.85	Aug. 1.	4,198.35
15.	4,197.60	15.	4,197.95	15.	4,197.90	15.	4,198.20
Dec. 1.	4,197.60	July 1.	4,197.80	Feb. 1.	4,198.05	Sept. 1.	4,198.10
15.	4,197.60	15.	4,197.60	15.	4,198.15	15.	4,197.95

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Day	Gage height	Elevation
Oct. 1	8.60	4,198.40
15	8.65	4,198.45
Nov. 1	8.75	4,198.55
15	8.80	4,198.60
Dec. 1	9.00	4,198.80
15	9.20	4,199.00
Jan. 1	9.40	4,199.20
15	9.55	4,199.35
Feb. 1	9.85	4,199.65
15	10.05	4,199.85
Mar. 1	10.20	4,200.00
15	10.40	4,200.20
Apr. 1	10.65	4,200.45
15	10.80	4,200.60
May 1	10.95	4,200.75
15	11.20	4,201.00
June 1	11.35	4,201.15
15	11.55	4,201.35
July 1	11.55	4,201.35
15	11.65	4,201.45
Aug. 1	11.65	4,201.45
15	11.70	4,201.50
Sept. 1	11.80	4,201.60
15	11.95	4,201.75

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE1/4SE1/4SW1/4 sec.26, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi upstream from mouth, 11.5 mi upstream from Utah-Wyoming State line, and 28.7 mi south of Evanston.

DRAINAGE AREA.--34.6 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft from topographic map.

REMARKS.--Records good except those for winter months, which are poor.

AVERAGE DISCHARGE.--10 years, 54.6 ft^3/s, 39,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 857 ft^3/s June 18, 1983, gage height, 4.33 ft; minimum, 4.5 ft^3/s Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 857 ft^3/s June 18, gage height, 4.33 ft; minimum daily, 9.0 ft^3/s Jan. 24, 29, Feb. 3, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	35	26	12	10	14	14	20	61	427	105	35
2	94	35	26	11	9.5	14	13	21	64	423	114	49
3	90	28	26	13	9.0	14	13	22	69	379	121	80
4	88	31	25	13	9.5	13	13	22	82	339	115	138
5	85	31	22	14	10	13	12	28	247	350	101	85
6	82	31	20	14	9.0	13	12	28	292	394	95	73
7	75	29	18	13	13	13	12	28	290	407	90	70
8	70	30	16	13	12	13	13	38	310	438	88	73
9	69	30	15	13	16	14	13	47	340	446	85	61
10	64	26	17	13	15	15	13	40	380	422	80	56
11	60	30	17	13	13	17	13	33	420	305	78	52
12	58	26	16	11	13	17	13	26	420	260	79	49
13	57	28	15	12	14	16	12	24	330	234	74	46
14	56	23	15	12	14	15	12	23	280	218	67	43
15	56	25	16	11	13	14	12	23	317	212	66	41
16	56	25	15	12	14	14	13	23	363	180	68	39
17	54	29	14	12	13	14	14	23	454	164	74	37
18	52	28	14	12	13	14	15	24	587	155	77	36
19	48	27	13	11	14	14	16	24	530	154	74	35
20	46	26	13	10	13	13	18	23	634	164	68	34
21	45	24	14	10	14	13	18	23	645	168	63	34
22	45	25	13	10	14	14	17	24	644	175	59	32
23	44	24	13	9.5	14	14	18	28	647	152	54	31
24	44	23	12	9.0	14	14	24	32	670	137	51	34
25	44	24	12	9.5	15	14	25	35	581	147	48	31
26	45	23	11	9.5	14	14	20	40	506	142	45	30
27	44	23	13	9.5	14	13	20	44	502	129	42	45
28	42	24	10	9.5	14	14	19	49	517	115	43	34
29	40	26	11	9.0	---	13	20	53	492	105	46	32
30	42	27	10	10	---	14	19	56	462	104	41	53
31	41	---	11	10	---	14	---	58	---	104	37	---
TOTAL	1839	816	489	350.5	360.0	435	466	982	12296	7549	2248	1488
MEAN	59.3	27.2	15.8	11.3	12.9	14.0	15.5	31.7	410	244	72.5	49.6
MAX	103	35	26	14	16	17	25	58	690	446	121	138
MIN	40	23	10	9.0	9.0	13	12	20	61	104	37	30
AC-FT	3650	1620	970	695	714	863	924	1950	24390	14970	4460	2950

CAL YR 1982	TOTAL	25389.5	MEAN	69.6	MAX	433	MIN	5.0	AC-FT	50360
WTR YR 1983	TOTAL	29318.5	MEAN	80.3	MAX	690	MIN	9.0	AC-FT	58150

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'30", long 110°55'35", in NE1/4 sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft downstream from Whitney Dam, 7 mi upstream from Deer Creek, and 21.5 mi northeast of Oakley.

DRAINAGE AREA.--6.79 mi^2.

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965 published as, "at Whitney Dam Site."

REVISED RECORD.--WRD UT-73-1: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft from topographic map.

REMARKS.--Records fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--17 years (water years 1967-83), 7.97 ft^3/s, 5,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s June 13, 1965; maximum gage height, 3.08 ft June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 106 ft^3/s June 19, gage height, 2.89 ft; minimum daily, 0.54 ft^3/s Oct. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	2.7	2.8	1.6	1.6	1.8	1.7	1.9	2.1	41	7.8	26
2	.68	2.7	2.8	1.6	1.6	1.8	1.7	1.9	1.9	36	7.2	26
3	.68	2.7	2.8	1.6	1.6	1.8	1.8	1.9	1.6	38	8.0	26
4	.68	2.7	2.8	1.6	1.6	1.8	1.8	1.8	1.7	35	7.2	26
5	.64	2.7	2.7	1.6	1.6	1.8	1.8	1.7	1.9	33	6.4	26
6	.68	2.7	2.6	1.6	1.6	1.9	1.8	1.8	1.9	31	5.9	25
7	.63	2.8	2.7	1.6	1.6	1.9	1.8	1.8	5.9	30	5.5	25
8	.63	2.8	2.5	1.6	1.6	1.9	1.8	1.8	15	29	5.4	25
9	.62	2.8	2.6	1.6	1.6	1.9	1.8	1.8	15	29	5.3	25
10	.72	2.8	2.7	1.6	1.6	1.6	1.8	1.8	15	28	5.2	25
11	.70	2.9	2.5	1.6	1.6	1.3	1.8	1.8	16	27	5.8	25
12	.58	2.9	2.4	1.6	1.6	1.3	1.8	1.8	17	14	6.9	25
13	.58	3.0	2.6	1.6	1.6	1.3	1.8	1.8	18	2.8	7.3	25
14	.54	3.1	2.6	1.6	1.6	1.4	1.8	1.8	18	3.4	6.4	25
15	2.2	3.1	2.5	1.6	1.6	1.4	1.8	1.8	18	6.1	6.1	25
16	3.8	3.1	2.3	1.6	1.6	1.4	1.8	1.8	18	8.5	6.9	25
17	3.8	3.1	2.3	1.6	1.6	1.4	1.9	1.8	49	8.8	6.5	25
18	3.8	2.8	2.2	1.6	1.6	1.4	1.9	1.8	73	8.5	6.9	25
19	4.5	2.8	2.2	1.6	1.6	1.5	1.9	1.8	96	8.3	7.6	25
20	4.5	2.7	2.2	1.6	1.7	1.5	1.9	1.8	94	8.0	6.7	25
21	4.5	2.7	2.2	1.6	1.7	1.5	1.9	1.8	91	8.5	6.0	25
22	4.5	2.7	2.2	1.6	1.7	1.5	1.9	1.8	91	10	12	24
23	4.5	2.7	2.1	1.6	1.7	1.5	1.9	1.8	90	11	27	23
24	4.5	2.8	2.0	1.6	1.7	1.6	1.9	1.7	86	9.5	27	23
25	4.5	2.9	1.9	1.6	1.7	1.6	1.9	1.7	79	9.6	26	23
26	3.4	2.9	1.8	1.6	1.7	1.6	1.9	1.6	72	9.7	26	23
27	2.6	2.9	1.7	1.6	1.8	1.6	1.9	1.4	72	8.5	26	35
28	2.6	2.7	1.6	1.6	1.8	1.6	1.9	1.5	68	7.3	26	43
29	2.6	2.7	1.6	1.6	---	1.7	1.9	1.6	63	6.5	26	43
30	2.7	2.8	1.6	1.6	---	1.7	1.9	1.9	57	6.2	26	42
31	2.7	---	1.6	1.6	---	1.7	---	1.7	---	6.2	26	---
TOTAL	70.74	84.7	71.1	49.6	45.9	49.7	55.2	54.7	1248.0	518.4	385.0	809
MEAN	2.28	2.82	2.29	1.60	1.64	1.60	1.84	1.76	41.6	16.7	12.4	27.0
MAX	4.5	3.1	2.8	1.6	1.8	1.9	1.9	1.9	96	41	27	43
MIN	.54	2.7	1.6	1.6	1.6	1.3	1.7	1.4	1.6	2.8	5.2	23
AC-FT	140	168	141	98	91	99	109	108	2480	1030	764	1600

CAL YR 1982	TOTAL	3622.02	MEAN	9.92	MAX	101	MIN	.54	AC-FT	7180
WTR YR 1983	TOTAL	3442.04	MEAN	9.43	MAX	96	MIN	.54	AC-FT	6830

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'26", long 110°51'30", in NE1/4SE1/4NW1/4 sec.6, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, on left bank 0.8 mi downstream from Deer Creek, 2.1 mi upstream from mouth, and 22.9 mi south of Evanston.

DRAINAGE AREA.--52.2 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft from topographic map.

REMARKS.--Records fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--10 years, 45.0 ft^3/s, 32,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft^3/s May 30, 1983, gage height, 4.09 ft; minimum, 2.0 ft^3/s Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 872 ft^3/s May 30, gage height, 4.09 ft; minimum daily, 10 ft^3/s Apr. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	23	26	15	13	12	13	17	611	213	50	48
2	29	21	26	14	13	12	13	18	464	201	52	57
3	31	19	25	16	11	12	13	19	415	191	57	75
4	31	20	25	17	12	12	12	20	518	172	48	79
5	34	20	22	18	12	12	11	27	599	160	42	57
6	29	20	21	18	11	12	10	27	512	154	39	52
7	28	19	21	17	13	12	10	27	523	147	38	54
8	27	20	20	16	12	12	11	40	546	141	39	56
9	25	20	20	16	13	13	11	46	529	143	46	51
10	24	19	23	15	13	14	12	40	523	155	41	49
11	23	22	23	15	11	15	12	35	552	123	42	48
12	23	21	22	13	11	15	12	30	480	104	46	47
13	23	25	21	14	12	14	11	29	347	79	47	46
14	23	23	20	14	12	14	11	27	299	73	39	46
15	25	25	22	13	11	13	11	27	323	78	39	45
16	28	25	21	13	12	13	12	27	359	77	43	44
17	27	30	17	14	11	13	12	27	397	71	42	44
18	26	28	16	14	11	13	13	27	474	65	45	44
19	26	28	15	14	13	12	14	28	485	62	46	43
20	26	26	15	14	11	11	16	30	447	59	40	43
21	25	25	17	14	12	12	16	41	427	64	36	43
22	25	25	17	14	12	13	15	60	404	82	39	43
23	25	25	17	13	12	13	16	85	390	73	55	43
24	25	23	16	12	13	12	21	108	383	62	53	44
25	25	24	15	13	13	13	22	145	333	65	51	44
26	26	23	14	13	13	13	23	211	309	64	50	44
27	26	23	16	13	12	12	17	299	306	57	48	57
28	24	24	12	13	12	12	16	378	283	52	49	65
29	23	26	14	12	---	11	17	469	262	49	53	64
30	25	27	12	14	---	13	16	575	241	46	51	66
31	26	---	15	14	---	13	---	587	---	46	49	---
TOTAL	812	699	586	445	337	393	419	3526	12741	3128	1415	1541
MEAN	26.2	23.3	18.9	14.4	12.0	12.7	14.0	114	425	101	45.6	51.4
MAX	34	30	26	18	13	15	23	587	611	213	57	79
MIN	23	19	12	12	11	11	10	17	241	46	36	43
AC-FT	1610	1390	1160	883	668	780	831	6990	25270	6200	2810	3060

CAL YR 1982	TOTAL	20832.5	MEAN	57.1	MAX	366	MIN	8.0	AC-FT	41320
WTR YR 1983	TOTAL	26042	MEAN	71.3	MAX	611	MIN	10	AC-FT	51650

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE1/4NW1/4SE1/4 sec.30, T.3 N., R.10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank 400 ft downstream from West Fork and 2.8 mi upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft from river-profile map.

REMARKS.--Records fair. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft since 1966. Three diversions above station for irrigation of about 265 acres above and 2,600 acres below station.

AVERAGE DISCHARGE.--41 years, 192 ft^3/s, 139,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft^3/s June 6, 1968, gage height, 3.79 ft; maximum gage height, 4.28 ft June 19, 1983; minimum discharge determined, 12 ft^3/s Nov. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	2200	2,210	4.14
June 11	2400	2,320	4.23
June 19	0100	*2,840	4.28

Minimum recorded, 19 ft^3/s Mar. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	127	97	55	45	63	69	102	1620	1400	265	130
2	310	127	95	50	45	63	65	105	1320	1400	283	181
3	312	102	95	60	40	63	64	108	1110	1200	312	264
4	312	119	95	62	43	62	63	113	1280	1000	298	721
5	327	117	82	65	45	63	62	149	1460	1000	262	420
6	279	117	78	65	40	62	61	151	1350	1100	241	334
7	263	109	76	60	60	62	61	148	1320	1150	244	322
8	241	112	74	63	55	62	65	211	1400	1200	238	385
9	227	114	72	64	73	63	62	249	1440	1250	237	318
10	206	95	86	60	69	73	66	221	1490	1200	222	294
11	199	114	83	60	60	79	66	197	1720	800	222	261
12	196	97	80	50	60	82	65	175	1760	670	232	241
13	189	107	75	55	65	76	62	162	1350	654	231	220
14	192	84	75	55	65	74	60	159	1200	596	192	210
15	199	93	80	50	60	69	62	154	1290	592	172	200
16	206	93	74	52	65	71	65	158	1490	536	202	190
17	196	112	68	53	60	68	70	154	1680	498	199	180
18	186	104	66	56	60	69	77	155	2040	444	228	170
19	170	102	60	50	65	67	83	158	2130	422	230	160
20	164	97	60	47	60	62	91	163	1820	450	208	150
21	158	91	64	46	65	62	91	197	1810	451	175	150
22	158	93	63	46	65	65	84	269	1760	517	169	140
23	155	91	63	43	65	67	90	385	1810	449	175	129
24	155	85	60	40	67	69	120	528	1780	366	159	136
25	155	90	55	43	69	67	126	644	1600	422	152	127
26	167	85	50	43	67	67	102	828	1450	441	146	126
27	167	85	60	42	65	65	102	964	1410	349	140	172
28	146	90	45	42	63	67	96	1150	1400	299	137	161
29	146	95	50	40	---	65	100	1550	1490	273	158	149
30	152	100	45	46	---	69	98	1830	1600	261	148	220
31	155	---	50	47	---	70	---	1730	---	272	141	---
TOTAL	6439	3047	2176	1610	1661	2086	2348	13267	46380	21662	6418	6861
MEAN	208	102	70.2	51.9	59.3	67.3	78.3	428	1546	699	207	229
MAX	351	127	97	65	73	82	126	1830	2130	1400	312	721
MIN	146	84	45	40	40	62	60	102	1110	261	137	126
AC-FT	12770	6040	4320	3190	3290	4140	4660	26320	91990	42970	12730	13610

CAL YR 1982	TOTAL	99892	MEAN	274	MAX	1420	MIN	30	AC-FT	198100
WTR YR 1983	TOTAL	113955	MEAN	312	MAX	2130	MIN	40	AC-FT	226000

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in NE1/4SE1/4SW1/4 sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi downstream from Willow Creek, 2 mi upstream from Sulphur Creek Dam, and 11.5 mi southeast of Evanston.

DRAINAGE AREA.--64.2 mi^2.

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--26 years, 17.1 ft^3/s, 12,390 acre-ft/yr.

EXTREMES FOR PERIOD RECORD.--Maximum discharge, 8,400 ft^3/s June 1, 1983, gage height, 9.10 ft, from rating curve extended above 1,200 ft^3/s on basis of slope-area measurement of peak flow. Flood was result of released water from temporary blockage of upstream road culverts.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,400 ft^3/s June 1, gage height, 9.10 ft, from rating curve extended as explained above; minimum daily, 2.5 ft^3/s Dec. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	13	8.0	3.0	4.0	12	16	147	691	27	6.9	16
2	36	9.0	7.5	3.0	4.0	18	16	135	368	24	6.9	16
3	20	8.0	7.0	3.0	3.0	15	16	156	254	23	6.6	15
4	13	7.1	6.5	4.0	3.0	13	15	174	304	23	6.6	17
5	16	6.8	7.0	5.0	3.0	11	14	245	304	22	6.2	17
6	23	6.6	7.5	5.0	3.0	9.0	14	215	268	20	5.9	17
7	20	5.7	7.0	5.0	4.0	9.0	14	147	274	18	5.5	16
8	14	6.3	6.0	5.0	3.5	9.0	14	201	241	17	5.2	16
9	14	8.0	5.0	4.5	4.0	9.0	18	219	262	16	6.2	16
10	17	9.0	6.0	4.0	4.0	11	28	116	222	16	13	15
11	13	8.0	6.0	4.0	3.0	15	28	88	204	16	26	15
12	11	7.5	5.5	4.0	3.5	18	27	102	227	16	30	14
13	9.7	7.0	5.5	4.0	4.0	20	26	109	147	16	29	13
14	8.7	6.5	5.5	4.0	4.0	22	25	83	110	15	25	12
15	8.3	7.5	6.0	4.0	3.5	20	25	70	109	14	21	12
16	8.3	8.5	6.5	4.0	4.0	18	26	75	106	13	20	11
17	8.0	9.5	7.0	4.5	3.5	16	28	96	104	13	19	10
18	7.4	10	6.5	5.0	3.5	15	32	113	98	12	20	10
19	6.8	10	6.0	4.5	4.0	14	49	176	87	12	22	10
20	6.8	9.0	6.0	4.5	3.5	13	82	147	60	11	22	9.2
21	6.6	9.0	7.0	5.0	4.0	12	103	109	49	10	22	8.8
22	6.8	9.0	7.0	4.0	4.0	12	116	159	42	10	22	8.8
23	6.6	7.0	6.5	5.0	4.0	12	166	217	42	10	22	7.7
24	6.3	5.0	5.5	4.5	4.5	12	253	277	37	10	22	6.6
25	5.1	5.5	4.0	5.0	4.5	12	236	328	34	10	21	5.5
26	5.7	5.5	3.0	4.5	5.0	11	131	356	29	10	20	4.9
27	7.4	5.5	4.0	5.0	5.0	11	116	396	36	10	20	5.2
28	6.8	7.0	3.0	4.5	5.0	11	108	438	34	9.6	18	5.5
29	7.1	8.0	2.5	4.0	---	11	137	488	33	8.8	18	5.2
30	12	8.0	2.5	5.0	---	12	150	463	29	8.4	17	5.5
31	19	---	3.0	4.5	---	16	---	422	---	7.7	16	---
TOTAL	398.4	232.5	176.0	135.0	108.0	419.0	2029	6467	4805	448.5	521.0	340.9
MEAN	12.9	7.75	5.68	4.35	3.86	13.5	67.6	209	160	14.5	16.8	11.4
MAX	48	13	8.0	5.0	5.0	22	253	488	691	27	30	17
MIN	5.1	5.0	2.5	3.0	3.0	9.0	14	70	29	7.7	5.2	4.9
AC-FT	790	461	349	268	214	831	4020	12830	9530	890	1030	676

CAL YR 1982	TOTAL	7628.29	MEAN	20.9	MAX	142	MIN	.13	AC-FT	15130
WTR YR 1983	TOTAL	16080.3	MEAN	44.1	MAX	691	MIN	2.5	AC-FT	31900

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE1/4SE1/4SE1/4 sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft downstream from Sulphur Creek Dam, 6.3 mi upstream from mouth, and 10.5 mi southeast of Evanston.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft from topographic map.

REMARKS.--Records good except those of no gage-height record, Nov. 15 to Apr. 26, which are poor. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft. Records prior to 1965 do not include flow over spillway of the dam.

AVERAGE DISCHARGE.--19 years (water years 1965-83), 25.0 ft^3/s, 18,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum daily discharge, 600 ft^3/s June 1, 1983, maximum gage height, 3.97 ft, June 1, 1983; no flow at times each year except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 600 ft^3/s June 1; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	61	16	8.0	.00	.00	.00	201	600	2.2	2.6	25
2	66	53	16	.00	.00	.00	.00	201	499	2.2	2.6	25
3	62	39	16	.00	.00	.00	.00	201	380	2.2	2.6	25
4	77	39	16	.00	.00	.00	.00	202	331	2.2	2.6	25
5	70	38	16	.00	.00	.00	.00	203	330	2.3	2.7	25
6	70	38	16	.00	.00	.00	.00	212	322	2.3	3.0	25
7	70	38	16	.00	.00	.00	.00	212	313	2.3	3.0	25
8	70	38	16	.00	.00	.00	.00	208	288	2.3	3.7	25
9	69	37	16	.00	.00	.00	.00	217	283	2.3	21	30
10	69	37	16	.00	.00	.00	.00	206	270	2.3	95	42
11	69	37	16	.00	.00	.00	.00	202	251	2.3	209	42
12	69	37	16	.00	.00	.00	.00	201	251	2.3	188	42
13	68	37	16	.00	.00	.00	.00	200	234	2.3	143	42
14	68	30	16	.00	.00	.00	.00	197	225	2.3	139	42
15	68	16	16	.00	.00	.00	17	197	223	2.3	138	42
16	67	16	16	.00	.00	.00	50	195	222	2.3	101	42
17	67	16	15	.00	.00	.00	50	193	220	2.0	28	41
18	67	16	15	.00	.00	.00	50	193	218	.10	28	41
19	66	16	15	.00	.00	.00	50	193	216	.03	28	41
20	66	16	15	.00	.00	.00	66	193	182	.64	28	41
21	65	16	15	.00	.00	.00	145	192	112	2.4	28	41
22	65	16	15	.00	.00	.00	145	165	112	2.4	36	41
23	64	16	16	.00	.00	.00	145	78	111	2.4	42	40
24	64	16	16	.00	.00	.00	145	78	110	2.4	44	40
25	64	16	16	.00	.00	.00	145	80	109	2.5	44	39
26	64	16	16	.00	.00	.00	145	145	93	2.5	39	39
27	63	16	16	.00	.00	.00	145	209	2.2	2.5	25	39
28	62	16	16	.00	.00	.00	145	308	2.2	2.5	25	39
29	62	16	16	.00	---	.00	197	376	2.2	2.5	25	39
30	62	16	16	.00	---	.00	201	412	2.2	2.6	25	39
31	61	---	16	.00	---	.00	---	433	---	2.6	25	---
TOTAL	2040	815	490	8.00	.00	.00	1841.00	6503	6513.8	66.47	1526.8	1084
MEAN	65.8	27.2	15.8	.26	.00	.00	61.4	210	217	2.14	49.3	36.1
MAX	77	61	16	8.0	.00	.00	201	433	600	2.6	209	42
MIN	46	16	15	.00	.00	.00	.00	78	2.2	.03	2.6	25
AC-FT	4050	1620	972	16	.00	.00	3650	12900	12920	132	3030	2150

CAL YR 1982	TOTAL	10974.50	MEAN	30.1	MAX	178	MIN	.00	AC-FT	21770
WTR YR 1983	TOTAL	20888.07	MEAN	57.2	MAX	600	MIN	.00	AC-FT	41430

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE1/4 sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi downstream from headgates, and 10 mi of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946 to Aug. 2, 1961, water-stage recorder at site 20 ft downstream at same datum.

REMARKS.--Records poor. Canal diverts water from Bear River in NW1/4 sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Saleratus basin, Utah.

AVERAGE DISCHARGE.--39 years (water years 1945-83), 19.8 ft^3/s, 14,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft^3/s June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	.00	14	.00	.00	1.0	1.0	61	56	30	27	.36
2	16	.00	14	.00	.00	1.0	1.0	61	34	32	27	4.2
3	11	.00	12	.00	.00	1.0	1.0	62	77	31	24	7.4
4	1.8	.00	11	.00	.00	1.0	1.0	60	78	26	9.5	6.1
5	.00	.00	10	.00	.00	1.0	1.2	61	78	33	7.5	3.4
6	.00	.00	9.1	.00	.00	1.0	1.4	61	72	47	5.1	2.0
7	.00	.00	7.4	.00	.00	1.0	1.6	60	69	46	11	1.6
8	.00	.00	7.1	.00	.00	1.0	1.8	58	71	46	6.4	1.3
9	.00	.00	7.4	.00	.00	1.0	2.0	63	72	46	.36	1.1
10	.00	.00	7.0	.00	.00	1.0	2.3	50	72	48	.53	.91
11	.00	.00	6.0	.00	.00	1.0	2.6	14	72	49	3.6	.91
12	.00	.00	6.0	.00	.00	1.0	2.6	13	71	42	6.3	.91
13	.00	.00	8.3	.00	.00	1.0	2.0	14	70	37	2.8	.71
14	.00	.00	8.0	.00	.00	1.0	1.6	13	68	32	1.6	.71
15	.00	.00	9.0	.00	.00	1.0	1.6	13	47	30	1.1	.71
16	.00	.00	10	.00	.00	1.0	11	12	55	26	1.1	.91
17	.00	.00	10	.00	.00	1.0	41	12	78	26	1.6	.91
18	.00	.00	8.0	.00	.00	1.0	50	15	89	28	2.0	.71
19	.00	.00	.00	.00	.00	1.0	58	26	83	24	2.8	.53
20	.00	.00	.00	.00	.00	1.0	71	28	82	25	2.3	.53
21	.00	10	.00	.00	.00	1.0	76	26	78	24	1.8	.36
22	.00	14	.00	.00	.00	1.0	75	25	76	30	2.0	.21
23	.00	14	.00	.00	.00	1.0	77	25	76	39	1.6	.21
24	.00	14	.00	.00	.00	1.0	81	28	64	56	1.1	.36
25	.00	14	.00	.00	.00	1.0	78	30	43	42	.71	.36
26	.00	11	.00	.00	.00	1.0	62	33	39	28	.71	7.1
27	.00	9.9	.00	.00	.00	1.0	58	39	27	28	.53	8.8
28	.00	12	.00	.00	.00	1.0	57	74	25	27	.36	8.8
29	.00	13	.00	.00	---	1.0	59	25	38	26	.36	9.1
30	.00	13	.00	.00	---	1.0	62	36	32	26	.36	9.1
31	.00	---	.00	.00	---	1.0	---	74	---	27	.36	---
TOTAL	42.80	124.90	164.30	.00	.00	31.0	940.7	1172	1892	1057	153.48	80.31
MEAN	1.38	4.16	5.30	.00	.00	1.00	31.4	37.8	63.1	34.1	4.95	2.68
MAX	16	14	14	.00	.00	1.0	81	74	89	56	27	9.1
MIN	.00	.00	.00	.00	.00	1.0	1.0	12	25	24	.36	.21
AC-FT	85	248	326	.00	.00	61	1870	2320	3750	2100	304	159

CAL YR 1982	TOTAL	5958.02	MEAN	16.3	MAX	75	MIN	.00	AC-FT	11820
WTR YR 1983	TOTAL	5658.49	MEAN	15.5	MAX	89	MIN	.00	AC-FT	11220

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NW1/4NW1/4 sec.29, T.17 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft from river-profile map.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--22 years, 245 ft^3/s, 177,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft^3/s June 2, 1983, gage height, 6.17 ft; minimum, 0.1 ft^3/s Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,150 ft^3/s June 2, gage height, 6.17 ft; minimum daily, 70 ft^3/s Dec. 30-June 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	848	370	110	70	100	150	236	738	3540	1440	166	216
2	732	315	100	80	100	160	228	738	3900	1330	157	200
3	615	275	95	90	90	180	208	785	3240	1320	163	332
4	586	228	95	100	95	190	180	750	2600	1150	228	690
5	586	245	100	110	100	200	165	768	2600	998	250	686
6	610	240	100	110	90	200	150	790	2780	914	224	450
7	562	232	95	110	100	200	139	744	2720	878	193	375
8	526	224	90	110	100	200	148	702	2570	884	193	410
9	480	240	85	105	100	200	151	830	2620	908	228	405
10	465	236	90	100	100	200	169	795	2660	1030	420	335
11	440	216	100	100	90	250	224	750	2660	1020	610	310
12	425	228	90	90	90	300	228	690	2820	756	672	285
13	405	216	95	90	95	350	176	762	2920	604	520	270
14	390	200	100	90	100	330	160	714	2320	508	445	255
15	385	180	105	90	100	320	176	655	1970	450	380	236
16	385	160	110	95	100	310	197	635	1950	445	400	224
17	390	170	110	100	100	290	197	660	2020	390	390	216
18	375	180	100	100	100	250	250	714	2160	335	514	208
19	360	190	95	100	100	220	320	810	2320	275	615	200
20	335	160	95	100	100	208	435	1060	2640	265	514	197
21	325	150	100	110	100	183	520	848	2520	236	410	200
22	320	140	110	100	100	190	574	774	2380	280	415	208
23	320	110	100	110	100	197	615	768	2340	385	390	208
24	315	85	95	110	100	173	738	866	2270	325	345	224
25	315	100	90	110	110	176	1060	1040	2260	260	300	220
26	320	95	85	110	120	166	744	1320	2160	320	270	200
27	360	90	90	120	130	163	655	1730	1960	300	236	197
28	350	100	95	110	140	173	640	1950	1830	232	212	232
29	325	110	85	100	---	163	690	2200	1770	200	216	232
30	335	120	70	110	---	157	768	2760	1630	173	232	224
31	365	---	70	110	---	232	---	3030	---	157	224	---
TOTAL	13550	5605	2950	3140	2850	6681	11141	32376	74130	18768	10532	8645
MEAN	437	187	95.2	101	102	216	371	1044	2471	605	340	288
MAX	848	370	110	120	140	350	1060	3030	3900	1440	672	690
MIN	315	85	70	70	90	150	139	635	1630	157	157	197
AC-FT	26880	11120	5850	6230	5650	13250	22100	64220	147000	37230	20890	17150

CAL YR 1982	TOTAL	126629	MEAN	347	MAX	1730	MIN	24	AC-FT	251200
WTR YR 1983	TOTAL	190368	MEAN	522	MAX	3900	MIN	70	AC-FT	377600

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming."

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
13...	1435	387	350	8.1	17.0	8.0	7.5	9.1	608	310	180	44
NOV												
24...	1030	84	540	--	-2.0	0.0	3.7	7.0	608	K12	240	57
DEC												
13...	1600	103	460	7.5	0.0	0.0	3.2	7.3	570	30	240	58
FEB												
14...	1530	94	450	8.0	2.0	0.0	1.3	6.3	605	160	230	57
APR												
04...	1200	200	580	7.8	0.5	0.0	--	8.7	600	60	290	65
MAY												
10...	0945	830	460	8.3	5.0	6.0	140	11.0	600	2600	220	55
JUN												
14...	1745	2310	260	7.9	13.0	15.5	38	6.9	605	--	140	37
AUG												
10...	1430	443	330	8.0	27.5	23.0	220	5.9	605	1200	160	41

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
13...	16	11	12	0.4	1.7	170	17	8.9	0.4	5.6	207
NOV											
24...	23	15	12	0.4	1.9	230	20	16	0.4	7.1	278
DEC											
13...	22	16	13	0.5	1.8	230	20	14	1.4	8.7	280
FEB											
14...	21	14	12	0.4	1.7	220	20	14	0.6	9.6	270
APR											
04...	32	21	13	0.5	2.3	270	29	28	0.6	10	349
MAY											
10...	20	15	13	0.5	1.7	200	24	16	0.6	9.1	261
JUN											
14...	11	8.0	11	0.3	1.0	140	5.7	7.9	0.2	6.6	161
AUG											
10...	14	9.6	11	0.3	1.3	150	13	9.5	0.3	7.0	186

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)
OCT											
13...	0.28	216	1.00	<0.1	0.2	0.07	0.93	1.1	4.9	0.06	0.28
NOV											
24...	0.38	63.1	1.20	<0.1	0.3	<0.06	1.1	1.3	5.8	0.02	0.18
DEC											
13...	0.38	77.8	0.4	0.2	0.2	<0.06	0.34	0.6	2.7	0.09	0.55
FEB											
14...	0.37	68.5	0.3	0.5	0.5	0.15	0.15	0.8	3.5	0.04	0.4
APR											
04...	0.47	189	0.9	0.1	0.00	0.10	0.8	1.0	4.4	0.44	0.71
MAY											
10...	0.36	586	1.40	<0.1	0.00	0.11	1.3	1.5	6.6	0.69	1.0
JUN											
14...	0.22	1010	0.5	<0.1	0.1	0.12	0.38	0.6	2.7	0.11	0.37
AUG											
10...	0.25	222	1.50	<0.1	0.00	0.16	1.3	1.6	7.1	0.42	0.8

K Results based on colony count outside acceptable range (nonideal colony count).

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in SE1/4NW1/4NW1/4 sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi^2.

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft from levels by Bureau of Reclamation.

REMARKS.--Records good except those of no gage-height record, Nov. 22 to Mar. 30, which are poor. Reservoir formed by earthfill, rock-faced dam. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft below spillway crest. Total capacity increased to 57,300 in 1980. Gage height of spillway is 50.4 ft. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,310 acre-ft June 2, 1983, gage height, 53.5 ft; minimum observed, 880 acre-ft Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 64,310 acre-ft June 2, gage height, 53.5 ft; minimum observed, 35,310 acre-ft Jan. 19.

Capacity table (gage height, in feet, and total contents, in acre-feet)

39	34,450	44	43,720	50	56,400
40	36,160	46	47,620	52	60,920
42	39,840	48	51,920	54	65,440

RESERVOIR STORAGE (ACRE-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58880	56620	---	---	---	---	46050	59790	63630	61370	58660	58880
2	59340	56620	---	---	---	---	46440	59790	64310	61140	58660	58880
3	59340	56620	---	---	---	---	46840	59790	63860	61140	58660	59110
4	59340	56170	---	---	---	---	47030	59790	63180	60920	58660	59790
5	59340	55940	---	---	---	---	47420	59790	63180	60690	58660	60010
6	59340	55720	---	---	---	---	47620	59790	63180	60470	58660	59560
7	59110	55490	---	---	---	---	48050	59790	63180	60470	58660	59340
8	59110	55040	---	---	---	---	48260	59560	62950	60470	58660	59340
9	59110	54810	---	---	---	---	48690	59790	62950	60470	58660	59340
10	58880	54590	---	---	---	---	49120	59790	62950	60470	59110	59340
11	58660	54360	---	---	---	---	49550	59790	63180	60470	59560	59110
12	58200	53910	---	---	---	---	49980	59790	63180	60240	59790	59110
13	57980	53470	---	---	---	---	50410	59790	63410	60010	59560	59110
14	57980	53030	36600	---	---	---	50840	59790	62730	59560	59560	58880
15	57980	52580	---	---	36160	---	51270	59560	62280	59560	59340	58880
16	57750	52140	---	---	---	---	51490	59560	62050	59560	59340	58880
17	57750	51700	---	---	---	---	51920	59560	62050	59340	59340	58660
18	57750	51270	---	---	---	---	52580	59790	62280	59110	59560	58660
19	57530	50840	---	35310	---	---	53250	59790	62500	59110	59790	58660
20	57530	50410	---	---	---	---	54130	60240	62950	59110	59560	58660
21	57530	49980	---	---	---	---	55260	60010	62730	58880	59560	58660
22	57300	---	---	---	---	---	56400	60010	62730	58880	59340	58660
23	57300	---	---	---	---	---	57530	59790	62730	59110	59340	58660
24	57300	---	---	---	---	---	58200	60010	62500	59110	59110	58880
25	57070	---	---	---	---	---	58660	60240	62500	59110	59110	58880
26	56850	---	---	---	---	---	60010	60470	62280	59110	59110	58660
27	56850	---	---	---	---	---	60010	60920	62050	59110	58880	58660
28	56850	---	---	---	a36300	---	59790	61370	61820	58880	58880	58660
29	56850	---	---	---	---	---	59790	61820	61820	58880	58880	58880
30	56850	a43000	---	---	---	---	59790	62730	61600	58660	58880	58880
31	56850	---	a36000	a35700	---	45460	---	63180	---	58660	58880	---
MAX	59340	---	---	---	---	---	60010	63180	64310	61370	59790	60010
MIN	56850	---	---	---	---	---	46050	59560	61600	58660	58660	58660
(#)	50.2	---	---	---	---	44.9	51.5	53.0	52.3	51.0	51.1	51.1
(*)	-1350	-13850	-7000	-300	+600	+9160	+14330	+3390	-1580	-2940	+220	0

CAL YR 1982 . . . . . (*) +15430
WTR YR 1983 . . . . . (*) +680

(#) GAGE HEIGHT, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW1/4NW1/4 sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft downstream from Woodruff Narrows Dam, 1.6 mi upstream from Salt Creek, 5.4 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--22 years, 237 ft^3/s, 171,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft^3/s June 2, 1983, gage height, 8.26 ft; no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,820 ft^3/s June 2, gage height, 8.26 ft; minimum daily, 12 ft^3/s several days during March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	632	325	612	113	118	114	13	744	3150	1450	182	223
2	662	322	612	113	118	114	13	749	3610	1320	174	218
3	617	325	608	113	116	114	13	754	3630	1200	168	308
4	559	332	607	113	116	114	13	765	3000	1100	181	443
5	541	335	438	113	118	114	13	750	2650	1000	203	619
6	550	335	108	114	116	115	13	764	2670	950	213	552
7	536	339	108	116	117	115	13	759	2720	892	206	463
8	501	342	108	116	116	115	13	723	2630	864	197	417
9	471	349	108	114	114	116	13	736	2550	866	197	396
10	531	346	108	118	114	116	13	795	2590	897	235	362
11	583	351	106	116	114	116	13	803	2600	996	384	324
12	488	356	106	118	114	116	13	757	2680	886	522	295
13	442	359	106	118	115	116	13	735	2850	734	543	275
14	411	359	108	118	113	92	13	729	2620	621	493	257
15	388	363	106	120	114	12	13	708	2110	533	436	240
16	370	370	106	118	114	12	13	672	1860	483	405	228
17	367	377	108	120	114	12	13	667	1830	449	406	212
18	352	385	108	120	113	12	13	693	1910	393	431	199
19	346	392	109	119	113	13	13	769	2080	345	519	179
20	335	399	109	120	114	12	13	894	2380	304	552	172
21	325	411	109	119	114	13	14	919	2550	277	498	168
22	319	426	109	118	114	12	15	829	2410	285	456	172
23	316	450	109	119	113	12	140	790	2340	317	432	180
24	309	554	109	118	113	13	396	793	2270	336	387	205
25	309	622	111	118	113	12	709	877	2220	307	342	213
26	312	622	111	118	113	12	831	1020	2190	297	306	205
27	316	627	111	116	114	13	738	1240	1970	299	274	203
28	316	622	113	118	113	13	685	1500	1800	269	248	198
29	322	617	113	116	---	12	683	1740	1670	237	222	210
30	316	614	113	117	---	13	733	2160	1570	214	219	216
31	319	---	113	118	---	13	---	2620	---	194	218	---
TOTAL	13161	12626	5710	3625	3208	1798	5204	29454	73110	19315	10249	8352
MEAN	425	421	184	117	115	58.0	173	950	2437	623	331	278
MAX	662	627	612	120	118	116	831	2620	3630	1450	552	619
MIN	309	322	106	113	113	12	13	667	1570	194	168	168
AC-FT	26100	25040	11330	7190	6360	3570	10320	58420	145000	38310	20330	16570

CAL YR 1982	TOTAL	114919	MEAN	315	MAX	1720	MIN	10	AC-FT	227900
WTR YR 1983	TOTAL	185812	MEAN	509	MAX	3630	MIN	12	AC-FT	368600

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°28'06", long 111°18'50", in NE1/4SE1/4SW1/4 sec.31, T.9 N., R.6 E., Rich County, Hydrologic Unit 16010101, on left bank 0.2 mi downstream from Woodruff Creek Dam, 4.8 mi upstream from Birch Creek, and 8.5 mi southwest of Woodruff.

DRAINAGE AREA.--50.0 mi^2.

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area. WRD UT-72-1: 1971. WDR UT-82-1: 1971 (M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft from topographic map.

REMARKS.--Records good. Flow regulated by Woodruff Creek reservoir, total capacity, 4,100 acre-ft since Nov. 2, 1970.

AVERAGE DISCHARGE.--13 years, 28.2 ft^3/s, 20,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 783 ft^3/s May 29, 1983, gage height, 4.09 ft; no flow during winter months each year except 1972, 1973, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 783 ft^3/s May 29, gage height 4.09 ft; minimum daily, 0.20 ft^3/s Sept. 23-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	9.6	1.7	1.5	1.9	7.9	12	45	503	60	28	6.2
2	.50	9.6	1.7	1.4	1.9	8.6	12	48	528	62	35	6.2
3	.50	9.6	1.7	1.5	1.9	8.4	13	53	448	56	40	7.0
4	.50	9.6	1.7	1.5	1.9	8.4	10	53	513	51	40	6.9
5	.45	10	1.6	1.5	1.8	8.6	11	65	539	49	40	6.8
6	.44	10	1.6	1.5	1.8	8.4	11	65	456	48	40	6.8
7	.44	10	1.6	1.5	1.8	8.6	10	62	445	46	40	6.8
8	.45	10	1.4	1.6	1.8	8.8	11	71	445	44	39	6.8
9	.47	10	1.4	1.6	1.6	8.7	11	92	449	43	39	6.8
10	.49	10	1.4	1.6	1.6	11	13	91	377	42	39	7.3
11	.50	10	1.3	1.6	1.7	15	14	82	383	39	39	7.5
12	.49	10	1.4	1.6	1.8	19	14	67	295	38	39	7.5
13	.49	10	1.3	1.7	1.8	19	13	61	228	36	39	7.5
14	2.0	11	1.3	1.8	3.5	19	11	59	188	38	39	7.5
15	9.0	11	1.3	1.6	6.5	16	12	61	184	37	39	7.7
16	9.0	11	1.4	1.6	6.7	15	13	60	183	34	38	8.0
17	9.0	11	1.4	1.6	6.0	16	14	59	177	34	37	8.0
18	9.0	12	1.4	1.7	6.8	15	16	65	168	32	37	8.0
19	9.0	12	1.4	1.8	6.4	14	18	70	147	31	37	8.0
20	9.0	12	1.4	1.8	4.7	11	22	72	127	31	37	8.0
21	9.0	12	1.3	1.8	7.2	11	24	84	111	31	37	8.2
22	9.2	12	1.4	1.8	5.6	12	24	113	100	33	30	5.9
23	9.6	12	1.4	1.8	5.8	13	27	164	94	31	24	.20
24	9.6	9.0	1.4	1.9	6.5	12	35	245	86	30	24	.20
25	9.6	1.8	1.4	1.9	6.8	13	52	353	82	30	24	.20
26	9.6	1.7	1.4	1.9	7.9	11	46	470	77	30	24	.20
27	9.6	1.6	1.4	1.9	6.8	11	42	604	73	29	24	.20
28	9.6	1.6	1.4	1.9	8.1	11	40	657	69	29	24	.24
29	9.6	1.6	1.5	1.9	---	9.9	42	694	65	28	24	8.7
30	9.6	1.6	1.5	1.9	---	12	44	659	63	27	24	15
31	9.6	---	1.5	1.9	---	14	---	621	---	27	14	---
TOTAL	166.82	263.3	45.0	52.6	118.6	376.3	637	5965	7603	1176	1034	184.34
MEAN	5.38	8.78	1.45	1.70	4.24	12.1	21.2	192	253	37.9	33.4	6.14
MAX	9.6	12	1.7	1.9	8.1	19	52	694	539	62	40	15
MIN	.44	1.6	1.3	1.4	1.6	7.9	10	45	63	27	14	.20
AC-FT	331	522	89	104	235	746	1260	11830	15080	2330	2050	366

CAL YR 1982	TOTAL	12857.92	MEAN	35.2	MAX	362	MIN	.00	AC-FT	25500
WTR YR 1983	TOTAL	17621.96	MEAN	48.3	MAX	694	MIN	.20	AC-FT	34950

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE1/4NE1/4 sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi upstream from Twin Creek, 5.0 mi upstream from Utah-Wyoming State line, and 11 mi northeast of Randolph.

DRAINAGE AREA.--1,616 mi^2.

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from river-profile map. Prior to Aug. 17, 1971, 0.2 mi upstream at different datum.

REMARKS.--Records good except those for winter months, which are poor. Diversion for irrigation of about 94,500 acres above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--40 years, 204 ft^3/s, 147,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,630 ft^3/s June 4, 1983, gage height 8.58 ft; minimum discharge, 1.6 ft^3/s Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,630 ft^3/s June 4, gage height 8.58 ft; minimum daily, 100 ft^3/s Apr. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	397	700	160	150	180	150	830	1570	1650	310	290
2	439	397	700	160	140	200	145	850	2060	1560	292	298
3	527	400	700	160	130	220	140	870	2940	1520	292	400
4	579	403	700	160	130	240	130	880	3500	1430	274	490
5	586	406	700	170	130	260	120	888	3480	1340	260	545
6	564	407	700	180	140	260	110	903	3210	1220	260	582
7	552	408	550	190	150	260	100	892	3070	1130	269	639
8	549	412	210	190	160	280	110	903	3030	980	273	593
9	536	416	210	190	160	300	120	905	3010	833	272	532
10	521	422	210	180	150	340	130	867	2920	820	266	483
11	500	421	210	170	150	400	140	890	2850	843	285	458
12	540	413	210	160	160	470	135	942	2830	880	345	428
13	573	424	210	160	170	450	130	974	2790	929	455	399
14	532	426	207	160	180	430	120	976	2790	900	536	380
15	496	431	213	160	179	410	120	963	2830	802	550	363
16	470	446	206	160	170	300	120	957	2760	733	532	346
17	451	441	209	160	160	200	130	924	2480	670	574	331
18	432	447	207	160	170	160	140	889	2170	607	522	314
19	423	458	200	160	160	145	150	929	1960	548	510	299
20	413	465	193	160	150	130	170	972	1830	527	547	287
21	407	465	197	160	150	125	190	993	1800	489	608	276
22	401	472	214	170	150	125	200	1050	1860	466	630	271
23	396	469	216	160	150	125	210	1090	2020	435	590	269
24	391	490	211	170	160	120	230	1060	2160	415	543	284
25	387	520	186	170	160	120	299	959	2150	412	498	294
26	387	600	175	170	160	120	431	930	2050	430	453	297
27	393	700	170	170	160	120	586	959	2030	412	410	303
28	394	700	165	160	160	120	679	1000	2000	389	372	301
29	394	700	160	170	---	120	748	1090	1940	383	339	299
30	397	700	160	160	---	130	821	1190	1820	367	316	293
31	400	---	160	160	---	130	---	1380	---	334	298	---
TOTAL	14366	14256	9459	5170	4339	6990	7004	29905	73910	24454	12681	11344
MEAN	463	475	305	167	155	225	233	965	2464	789	409	378
MAX	586	700	700	190	180	470	821	1380	3500	1650	630	639
MIN	336	397	160	160	130	120	100	830	1570	334	260	269
AC-FT	28490	28280	18760	10250	8610	13860	13890	59320	146600	48500	25150	22500

CAL YR 1982	TOTAL	118342	MEAN	324	MAX	1050	MIN	44	AC-FT	234700
WTR YR 1983	TOTAL	213878	MEAN	586	MAX	3500	MIN	100	AC-FT	424200

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE1/4SE1/4 sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft downstream from Pixley Dam, 11 mi south of Cokeville, and 17.5 mi downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi^2.

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft^3/s Mar. 25, 1956; minimum recorded, 0.24 ft^3/s Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 2,060 ft^3/s June 5, gage height, 10.90 ft; minimum recorded, 269 ft^3/s Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								904	1140	1550	378	371
2								942	1190	1540	355	371
3								961	1290	1510	344	432
4								968	1740	1470	336	639
5								975	2040	1430	318	666
6								987	2040	1390	297	655
7								968	1990	1340	297	695
8								932	1960	1270	307	709
9								927	1950	1130	309	652
10								937	1940	994	311	595
11								937	1930	956	318	557
12								953	1910	958	352	527
13								977	1900	975	432	492
14								1000	1900	985	515	459
15								1020	1890	953	569	434
16								1030	1890	892	580	416
17								1020	1890	815	631	394
18								968	1850	741	620	378
19								956	1780	684	602	361
20								1030	1700	610	605	346
21								1100	1640	587	655	336
22								1090	1590	562	701	326
23								1100	1560	537	714	322
24								1140	1550	506	660	330
25								1140	1590	487	608	350
26								1090	1630	499	557	352
27								1060	1640	506	513	355
28								1050	1610	450	473	361
29								1070	1580	441	438	359
30								1090	1570	427	410	357
31								1080	---	408	384	---
TOTAL								31402	51880	27603	14589	13597
MEAN								1013	1729	890	471	453
MAX								1140	2040	1550	714	709
MIN								904	1140	408	297	322
AC-FT								62290	102900	54750	28940	26970

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW1/4 sec.33, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.5 mi upstream from Howland Creek, 6 mi downstream from Hobble Creek, and 12 mi northeast of Border.

DRAINAGE AREA.--165 mi^2.

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres above station.

AVERAGE DISCHARGE.--41 years, 198 ft^3/s, 143,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,870 ft^3/s May 29, 1983, gage height, 5.45 ft; minimum, 21 ft^3/s Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,870 ft^3/s May 29, gage height, 5.45 ft; minimum, 43 ft^3/s Apr. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	122	100	78	74	66	65	206	1500	912	301	184
2	160	119	98	80	68	66	62	207	1380	989	295	192
3	156	111	97	80	68	65	62	222	1500	931	287	200
4	154	115	97	80	69	64	61	227	1520	842	281	185
5	152	116	97	82	70	66	60	262	1400	788	276	176
6	147	116	99	87	71	64	59	247	1380	776	270	172
7	146	115	97	110	73	64	59	253	1350	782	266	168
8	145	114	93	105	75	66	64	316	1340	750	263	166
9	140	115	91	98	78	64	60	374	1350	738	265	180
10	138	109	89	93	78	65	66	325	1310	754	258	167
11	137	113	87	94	75	70	65	307	1410	662	257	160
12	133	108	85	90	70	73	64	279	1370	609	252	156
13	133	110	87	92	75	74	60	260	1190	573	245	154
14	132	99	89	92	72	75	58	252	1080	545	240	152
15	130	114	92	94	69	70	60	248	1050	533	238	149
16	130	109	93	90	69	70	61	238	1060	512	243	147
17	130	111	95	87	70	67	64	238	1110	484	247	145
18	128	110	95	85	70	68	68	268	1160	458	256	144
19	125	111	93	87	68	68	72	265	1180	440	246	145
20	122	107	90	82	64	60	82	294	1150	424	240	142
21	123	106	93	80	72	60	95	371	1100	410	233	137
22	124	99	94	80	67	67	118	458	1100	402	234	135
23	123	94	93	80	68	68	130	638	1140	385	223	134
24	122	88	90	79	67	64	160	880	1150	373	212	134
25	122	94	82	79	66	65	182	1080	1140	377	206	133
26	126	92	75	78	67	64	163	1280	1100	360	203	130
27	128	90	70	77	65	60	158	1450	1060	338	198	141
28	122	94	70	77	66	64	157	1660	1030	326	194	143
29	121	98	68	71	---	60	182	1800	957	316	192	135
30	126	102	70	76	---	66	208	1750	931	309	190	136
31	125	---	72	72	---	67	---	1710	---	304	184	---
TOTAL	4166	3201	2741	2635	1964	2050	2825	18365	36498	17402	7495	4642
MEAN	134	107	88.4	85.0	70.1	66.1	94.2	592	1217	561	242	155
MAX	166	122	100	110	78	75	208	1800	1520	989	301	200
MIN	121	88	68	71	64	60	58	206	931	304	184	130
AC-FT	8260	6350	5440	5230	3900	4070	5600	36430	72390	34520	14870	9210

CAL YR 1982	TOTAL	102793	MEAN	282	MAX	1420	MIN	50	AC-FT	203900
WTR YR 1983	TOTAL	103984	MEAN	285	MAX	1800	MIN	58	AC-FT	206300

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE1/4NE1/4 sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi upstream from Wyman Dam, 2.8 mi northwest of Cokeville, and 3.8 mi downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi^2.

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft from river-profile map.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--29 years, 449 ft^3/s, 325,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft^3/s June 7, 1983, gage height, 8.75 ft; minimum, 31 ft^3/s Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,620 ft^3/s June 7, gage height, 8.75 ft; minimum daily, 250 ft^3/s Feb. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	672	967	300	310	327	453	1440	3480	2700	651	609
2	738	661	961	300	300	340	551	1500	3290	2750	606	620
3	826	644	963	300	280	397	532	1570	3240	2760	584	693
4	882	641	961	310	260	515	501	1580	3450	2660	571	823
5	905	649	953	322	250	598	368	1630	3750	2570	545	925
6	899	658	959	343	250	631	342	1650	5090	2470	519	894
7	874	661	970	354	260	628	385	1640	5400	2420	490	892
8	871	660	803	365	280	623	378	1660	5060	2330	500	928
9	864	662	520	418	302	659	370	1720	4870	2240	513	913
10	849	665	410	368	309	704	397	1690	4720	2120	519	843
11	831	668	410	350	300	811	459	1710	4560	1870	521	789
12	815	662	410	330	300	962	495	1690	4510	1710	543	753
13	857	654	420	320	307	1140	481	1680	4330	1620	587	711
14	870	663	430	320	313	1080	436	1710	4080	1580	679	660
15	826	651	410	320	310	1040	411	1740	3880	1540	738	630
16	788	684	413	320	313	992	410	1750	3760	1440	778	603
17	754	685	434	320	310	765	411	1730	3720	1310	832	580
18	726	688	418	320	320	635	446	1750	3680	1190	906	560
19	700	707	380	320	340	554	508	1720	3640	1090	884	539
20	688	714	380	320	320	514	554	1760	3510	1020	910	524
21	673	714	393	320	300	451	634	1900	3290	959	922	510
22	668	714	372	322	300	455	687	2000	3110	942	984	498
23	662	570	407	328	300	457	712	2030	2990	911	994	492
24	656	629	437	320	310	447	758	2100	2920	836	957	502
25	650	616	410	324	320	437	829	2310	2890	803	884	516
26	649	652	380	328	329	435	855	2500	2860	809	829	524
27	660	764	370	345	327	425	936	2640	2850	786	774	538
28	654	872	350	335	329	426	1110	2850	2860	737	725	558
29	651	914	330	320	---	423	1190	3370	2810	708	689	554
30	656	956	300	330	---	431	1320	3490	2750	691	660	556
31	678	---	300	310	---	468	---	3530	---	668	632	---
TOTAL	23404	20750	16621	10202	8449	18770	17919	62040	111350	48240	21926	19737
MEAN	755	692	536	329	302	605	597	2001	3712	1556	707	658
MAX	905	956	970	418	340	1140	1320	3530	5400	2760	994	928
MIN	584	570	300	300	250	327	342	1440	2750	668	490	492
AC-FT	46420	41160	32970	20240	16760	37230	35540	123100	220900	95680	43490	39150

CAL YR 1982	TOTAL	251704	MEAN	690	MAX	2050	MIN	120	AC-FT	499300		
WTR YR 1983	TOTAL	379408	MEAN	1039	MAX	5400	MIN	250	AC-FT	752600		

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE1/4NE1/4NE1/4 sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft NGVD of 1929, unadjusted.

REMARKS.--Records fair. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--46 years, 435 ft^3/s, 315,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft^3/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft^3/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,880 ft^3/s June 7; minimum daily, 270 ft^3/s Feb. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	680	960	330	340	340	480	1390	3400	2750	731	636
2	723	670	960	330	330	360	570	1440	3290	2760	677	650
3	802	650	960	330	310	420	550	1490	3200	2870	636	735
4	851	644	960	340	290	520	520	1520	3240	2820	608	862
5	881	647	950	350	270	620	400	1540	3400	2660	575	996
6	881	657	960	380	270	660	350	1550	3960	2480	532	975
7	868	660	980	390	290	660	389	1550	4800	2370	483	958
8	861	660	800	400	310	660	389	1560	4840	2300	483	1000
9	858	663	500	450	330	680	383	1590	4820	2230	508	1000
10	845	667	450	400	340	740	409	1650	4750	2160	518	933
11	832	670	450	380	330	850	482	1690	4670	2010	508	857
12	808	667	450	350	330	1000	521	1710	4630	1860	522	806
13	832	653	460	350	340	1200	515	1680	4550	1770	556	758
14	855	663	470	350	350	1150	469	1690	4410	1710	686	686
15	822	653	450	350	340	1100	436	1700	4270	1660	766	645
16	782	703	450	350	350	1000	429	1720	4160	1600	801	613
17	752	710	470	350	340	800	432	1690	4100	1490	862	585
18	729	686	460	350	350	650	455	1680	4060	1390	967	551
19	706	693	420	350	370	580	525	1680	4010	1290	967	522
20	693	703	420	350	350	520	584	1680	3950	1210	987	498
21	683	703	430	350	330	470	663	1740	3790	1140	1000	478
22	673	683	410	350	330	470	733	1800	3600	1110	1080	458
23	667	580	440	360	330	470	769	1860	3430	1080	1100	438
24	660	620	480	350	340	470	802	1950	3300	1000	1060	448
25	653	620	470	360	340	450	871	2090	3200	958	987	464
26	653	660	420	360	340	440	904	2340	3140	962	925	478
27	663	760	410	380	340	440	954	2680	3080	925	857	498
28	663	880	390	360	340	440	1080	2990	2980	870	801	532
29	657	920	370	350	---	440	1160	3230	2970	810	753	532
30	663	960	330	360	---	450	1270	3340	2880	784	713	537
31	676	---	330	340	---	490	---	3380	---	753	672	---
TOTAL	23296	20785	17460	11150	9220	19540	18494	59600	114880	51782	23321	20129
MEAN	751	693	563	360	329	630	616	1923	3829	1670	752	671
MAX	881	960	980	450	370	1200	1270	3380	4840	2870	1100	1000
MIN	604	580	330	330	270	340	350	1390	2880	753	483	438
AC-FT	46210	41230	34630	22120	18290	38760	36680	118200	227900	102700	46260	39930

CAL YR 1982	TOTAL	249999	MEAN	685	MAX	2010	MIN	120	AC-FT	495900
WTR YR 1983	TOTAL	389657	MEAN	1068	MAX	4840	MIN	270	AC-FT	772900

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming."

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to September 1981 (discontinued).
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to September 1981 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE; Maximum daily, 1,580 micromhos Dec. 27, 1975; minimum daily, 312 micromhos Apr. 3, 1969.
WATER TEMPERATURES: Maximum, 23.5°C Aug. 14, 1980; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)
OCT										
13...	1130	847	465	8.2	8.0	7.0	--	6.4	618	53
NOV										
24...	1400	640	330	--	-2.0	0.0	3.0	8.5	616	16
DEC										
15...	1100	546	550	8.0	0.5	0.0	--	6.0	615	28
JAN										
20...	1100	348	540	7.8	4.0	0.0	4.4	6.4	605	<10
FEB										
16...	1030	389	500	8.0	0.0	0.0	--	6.0	610	10
APR										
06...	1200	291	900	8.4	0.5	3.0	85	10.0	610	25
MAY										
09...	1030	1580	630	8.1	3.0	9.0	260	8.2	608	56
JUN										
14...	1200	5470	560	7.6	11.0	8.0	--	8.7	615	--
JUL										
12...	1030	1930	560	8.1	14.0	17.0	34	7.6	615	26
AUG										
10...	1000	515	500	7.9	18.0	20.0	31	6.1	615	30
SEP										
06...	1030	975	510	8.0	13.0	14.0	--	6.1	615	60

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT										
13...	330	200	220	4.4	53	21	19	16	0.6	1.8
NOV										
24...	40	30	250	5.0	64	22	17	13	0.5	1.9
DEC										
15...	38	31	--	--	--	--	--	--	--	--
JAN										
20...	110	31	240	4.8	60	22	18	14	0.5	1.7
FEB										
16...	250	69	250	5.0	62	23	18	13	0.5	1.7
APR										
06...	560	190	350	7.1	74	41	57	26	1.4	3.6
MAY										
09...	170	K590	260	5.2	58	28	29	19	0.8	3.1
JUN										
14...	--	--	250	5.0	57	26	30	20	0.9	3.2
JUL										
12...	820	540	240	4.7	50	27	25	19	0.7	2.8
AUG										
10...	1400	350	220	4.3	52	21	19	16	0.6	1.9
SEP										
06...	860	--	220	4.4	55	20	28	21	0.8	2.7

K Results based on colony count outside acceptable range (nonideal colony count).

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)
OCT 13...	200	38	16	0.4	3.7	--	273	0.37	624	491
NOV 24...	210	47	18	0.2	5.1	300	302	0.41	518	3
DEC 15...	--	--	--	--	--	--	--	--	--	<1
JAN 20...	210	51	18	0.1	7.3	289	306	0.39	272	14
FEB 16...	210	50	18	0.5	6.8	--	306	0.42	321	8
APR 06...	280	120	59	0.2	11	535	533	0.73	420	114
MAY 09...	230	60	28	0.2	7.5	361	354	0.49	1540	206
JUN 14...	250	25	22	0.2	9.6	--	323	0.44	4770	--
JUL 12...	240	39	18	0.2	8.7	334	315	0.45	1740	78
AUG 10...	200	41	21	0.2	7.5	294	285	0.4	409	6
SEP 06...	190	57	20	0.3	6.7	--	304	0.41	799	1090

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 13...	0.2	--	--	--	1.10	--	--	--	--
NOV 24...	0.15	0.09	0.12	1.30	0.05	0.15	0.33	0.02	0.06
DEC 15...	--	--	--	--	--	--	--	--	--
JAN 20...	0.11	<0.06	0.08	0.4	0.03	0.09	0.02	<0.01	0.03
FEB 16...	1.1	--	--	--	0.02	--	--	--	--
APR 06...	0.1	0.13	0.17	1.00	0.22	0.67	0.05	0.02	0.06
MAY 09...	<0.1	0.09	0.12	1.00	0.50	1.5	0.06	0.04	0.12
JUN 14...	0.4	--	--	--	0.06	--	--	--	--
JUL 12...	<0.1	0.07	0.09	1.30	0.22	0.67	0.05	0.04	0.12
AUG 10...	0.11	0.07	0.09	0.8	0.13	0.4	0.06	0.02	0.06
SEP 06...	0.4	--	--	--	0.07	--	--	--	--

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
APR											
06...	1200	20	2	130	1	1	1	3	3	26	3
MAY											
09...	1030	30	2	130	<1	<1	<1	<3	1	10	1
JUL											
12...	1030	20	2	130	1	1	<1	<3	1	37	<1
AUG											
10...	1000	20	1	120	<1	<1	<1	<3	5	28	3

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
APR										
06...	36	45	1.3	10	1	1	1	660	6.0	85
MAY										
09...	28	3	.4	<10	1	1	<1	460	<6.0	8
JUL										
12...	21	17	2.2	<10	<1	<1	<1	410	<6.0	31
AUG										
10...	17	6	.4	<10	4	1	<1	410	>6.0	13

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV						
24...	1400	640	0.0	72	34	59
MAY						
09...	1030	1580	9.0	91	377	1610
JUL						
12...	1030	1930	17.0	85	35	182
AUG						
10...	1000	515	20.0	90	68	95
SEP						
06...	1030	975	14.0	97	812	2140

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE1/4NW1/4 sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi upstream from Wyoming-Idaho State line, 1.5 mi downstream from Giraffe Creek, and 3.5 mi northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi upstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--34 years, 56.2 ft^3/s, 40,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,280 ft^3/s May 26, 1983, gage height, 4.30 ft; minimum, 2.6 ft^3/s Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 24	2200	229	2.13
May 8	2300	669	3.30
May 26	2400	*1,280	4.30
July 2	1000	166	1.87

Minimum daily, 13 ft^3/s Feb. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	28	25	16	16	16	30	226	600	116	58	38
2	40	27	22	16	15	17	30	248	556	145	56	47
3	36	28	22	16	14	18	29	282	560	116	55	52
4	33	26	21	17	13	17	28	294	507	107	53	42
5	32	25	21	18	15	18	27	355	456	103	52	39
6	30	25	21	18	14	17	27	325	433	101	50	37
7	29	25	21	19	14	17	27	340	393	100	49	37
8	30	25	20	17	15	17	27	466	366	95	49	36
9	29	26	19	16	16	18	26	534	350	97	55	41
10	28	24	19	17	16	20	31	436	321	103	50	37
11	28	25	19	17	14	23	30	418	312	91	51	36
12	27	24	19	16	14	28	30	369	292	88	49	35
13	27	24	19	16	15	31	29	337	262	85	46	34
14	26	22	20	16	15	33	28	315	243	83	45	34
15	26	23	21	16	14	29	28	301	228	84	45	34
16	26	24	21	16	15	28	29	287	214	82	49	33
17	26	24	20	17	14	26	33	274	202	79	51	33
18	26	24	20	18	14	26	39	303	192	76	59	32
19	25	26	20	19	14	25	47	305	183	74	55	32
20	26	24	19	19	14	23	63	352	174	73	55	32
21	25	23	19	19	14	23	85	447	167	72	54	32
22	26	22	19	19	14	25	121	555	159	73	52	32
23	26	21	19	18	14	25	134	659	151	72	45	32
24	26	20	18	16	14	23	164	845	146	70	42	33
25	25	22	16	15	14	24	166	942	140	78	41	33
26	29	21	16	15	16	24	139	973	136	73	40	32
27	32	20	18	15	16	23	136	1010	134	65	39	42
28	27	22	17	15	16	24	139	956	132	62	39	42
29	27	23	16	16	---	23	182	874	124	60	39	36
30	31	24	16	17	---	26	213	774	122	59	39	38
31	31	---	16	16	---	31	---	683	---	59	38	---
TOTAL	896	717	599	521	409	718	2117	15485	8255	2641	1500	1093
MEAN	28.9	23.9	19.3	16.8	14.6	23.2	70.6	500	275	85.2	48.4	36.4
MAX	41	28	25	19	16	33	213	1010	600	145	59	52
MIN	25	20	16	15	13	16	26	226	122	59	38	32
AC-FT	1780	1420	1190	1030	811	1420	4200	30710	16370	5240	2980	2170

CAL YR 1982	TOTAL	32991.5	MEAN	90.4	MAX	700	MIN	7.0	AC-FT	65440		
WTR YR 1983	TOTAL	34951	MEAN	95.8	MAX	1010	MIN	13	AC-FT	69330		

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW1/4NW1/4NW1/4 sec.23, T.14 S., R.45 E., Bear Lake County, Hydrologic Unit 16010102, on right bank 400 ft downstream from Sheep Creek, 0.8 mi north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 mi southeast of Dingle.

DRAINAGE AREA.--2,839 mi^2.

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft from topographic map. Prior to Aug. 24, 1914, staff gage at site 1,500 ft downstream at different datum.

REMARKS.--Records fair. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--70 years, 529 ft^3/s, 383,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,140 ft^3/s June 9, 1983; minimum daily, 26 ft^3/s Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,140 ft^3/s June 9; minimum daily, 287 ft^3/s Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	756	761	922	384	387	457	626	1670	4090	3090	881	783
2	747	757	926	351	387	461	681	1830	4080	3120	843	781
3	774	733	918	293	367	468	653	1900	4000	3110	783	840
4	840	703	988	304	328	497	613	1990	3970	3130	761	949
5	908	678	1030	325	292	630	561	2020	3980	3160	746	1130
6	965	683	1030	363	287	731	498	2070	4060	3130	696	1180
7	978	687	1030	405	294	745	509	2090	4460	3020	657	1140
8	957	690	1030	429	327	725	536	2090	5050	2890	637	1150
9	945	688	968	443	353	721	535	2110	5140	2770	658	1200
10	941	688	604	434	383	884	546	2160	5080	2650	666	1160
11	927	687	438	410	394	876	619	2250	4940	2490	671	1070
12	908	684	426	374	397	1040	668	2320	4800	2240	663	984
13	876	676	470	355	401	1230	676	2320	4670	2010	657	919
14	902	659	470	337	423	1380	647	2310	4580	1860	722	861
15	953	671	495	327	430	1320	596	2320	4450	1800	823	802
16	907	677	492	315	443	1280	575	2330	4250	1800	890	768
17	846	665	479	326	434	1150	570	2310	4090	1700	952	743
18	804	668	467	340	420	907	587	2260	3980	1560	1090	713
19	775	660	449	359	428	777	638	2260	3930	1440	1160	690
20	747	649	476	374	403	703	707	2240	3880	1330	1160	665
21	733	644	479	376	386	650	788	2240	3820	1230	1180	652
22	728	604	500	373	367	600	890	2330	3740	1180	1230	638
23	720	611	502	370	363	613	984	2430	3640	1160	1280	620
24	715	610	499	376	366	612	1020	2560	3510	1110	1280	606
25	710	616	488	384	373	599	1090	2770	3390	1060	1210	596
26	705	618	465	386	409	579	1170	3060	3270	1070	1130	614
27	725	612	470	389	427	575	1210	3380	3180	1060	1050	643
28	730	642	444	399	434	565	1280	3590	3150	1020	982	669
29	721	667	464	404	---	563	1420	3730	3120	947	907	685
30	722	815	457	399	---	555	1500	3860	3110	939	855	689
31	740	---	409	409	---	591	---	3990	---	901	819	---
TOTAL	25405	20203	19285	11513	10703	23484	23393	76790	121410	59977	28039	24940
MEAN	820	673	622	371	382	758	780	2477	4047	1935	904	831
MAX	978	815	1030	443	443	1380	1500	3990	5140	3160	1280	1200
MIN	705	604	409	293	287	457	498	1670	3110	901	637	596
AC-FT	50390	40070	38250	22840	21230	46580	46400	152300	240800	119000	55620	49470

CAL YR 1982	TOTAL	306256	MEAN	839	MAX	2460	MIN	122	AC-FT	607500
WTR YR 1983	TOTAL	445142	MEAN	1220	MAX	5140	MIN	287	AC-FT	882900

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW1/4SW1/4SE1/4 sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle and 1.8 mi downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft NGVD of 1929 (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--Records fair. Canal diverts from Bear River at Stewart Dam in NE1/4 sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--61 years, 353 ft^3/s, 255,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,420 ft^3/s June 9, 1983; no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,420 ft^3/s June 9; minimum daily, 259 ft^3/s Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	687	862	341	339	354	599	1600	3450	1740	811	761
2	743	685	897	302	345	351	657	1730	3480	1840	788	749
3	818	674	907	268	333	354	643	1820	3510	1860	742	804
4	870	692	956	281	328	387	599	1900	3450	1840	700	843
5	902	647	988	290	274	432	583	1960	3450	1850	692	922
6	924	640	1010	294	276	538	459	2020	3590	1830	653	1010
7	946	636	987	321	259	627	457	2050	3740	1790	622	1010
8	921	645	920	352	278	702	506	2070	4270	1700	580	991
9	914	645	907	368	280	717	510	2070	4420	1660	605	1040
10	905	658	550	363	285	777	524	2100	4330	1610	595	1030
11	884	659	386	366	290	862	553	2200	4180	1550	613	965
12	859	658	421	364	299	972	620	2260	3990	1480	582	896
13	845	634	428	344	294	1100	652	2280	3770	1390	571	849
14	861	595	449	333	305	1330	633	2290	3540	1260	586	804
15	877	606	459	313	316	1300	582	2280	3350	1160	671	751
16	846	619	452	298	325	1210	555	2300	3150	1090	744	721
17	806	622	448	295	343	1140	545	2290	2940	1050	801	695
18	766	653	438	303	348	936	551	2250	2860	977	901	671
19	747	651	429	308	337	812	601	2240	2780	913	1010	643
20	730	631	431	319	360	724	687	2250	2740	888	1010	630
21	712	599	429	324	332	674	764	2230	2710	810	1030	599
22	703	567	436	320	338	609	847	2280	2610	782	1060	589
23	695	571	427	322	340	594	917	2380	2400	850	1100	580
24	684	541	442	326	345	600	952	2450	2190	804	1110	570
25	671	530	444	325	366	586	989	2530	2060	774	1070	554
26	660	519	427	334	344	563	1090	2570	2000	788	1010	562
27	667	587	418	338	369	555	1190	2650	1890	921	956	605
28	671	592	394	346	363	549	1190	2810	1820	930	905	641
29	665	631	415	372	---	547	1350	3010	1760	834	854	655
30	668	738	420	358	---	550	1450	3160	1700	812	819	648
31	672	---	368	359	---	548	---	3330	---	809	786	---
TOTAL	24352	18812	17945	10147	9011	22000	22255	71360	92130	38592	24977	22788
MEAN	786	627	579	327	322	710	742	2302	3071	1245	806	760
MAX	946	738	1010	372	369	1330	1450	3330	4420	1860	1110	1040
MIN	660	519	368	268	259	351	457	1600	1700	774	571	554
AC-FT	48300	37310	35590	20130	17870	43640	44140	141500	182700	76550	49540	45200

CAL YR 1982	TOTAL	265590	MEAN	728	MAX	2270	MIN	82	AC-FT	526800
WTR YR 1983	TOTAL	374369	MEAN	1026	MAX	4420	MIN	259	AC-FT	742600

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NW1/4NW1/4NE1/4 sec.34, T.13 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 300 ft downstream from Stewart Dam and 4.5 mi south of Montpelier.

DRAINAGE AREA.--2,853 mi^2.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January to September 1922, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map.

REMARKS.--Records good. Water diverted at Stewart Dam through Rainbow Inlet Canal (station 10046000) for storage in Bear Lake.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--61 years, 45.7 ft^3/s, 33,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft^3/s June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,050 ft^3/s July 1-11; minimum daily, 1.2 ft^3/s Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	36	11	1.2	1.5	1.5	2.4	7.8	120	1050	11	13
2	39	36	12	1.8	1.6	1.6	2.3	6.7	140	1050	11	11
3	41	36	12	4.8	1.6	1.7	2.3	7.0	98	1050	10	11
4	42	36	13	3.0	1.7	1.8	2.2	5.9	67	1050	9.4	13
5	44	35	13	2.6	1.8	1.9	2.1	5.8	64	1050	9.4	18
6	46	35	11	2.3	1.8	2.1	2.1	5.9	66	1050	8.8	18
7	46	34	6.6	2.3	1.8	2.3	2.0	5.7	72	1050	8.3	17
8	45	34	5.5	2.2	1.8	2.3	2.0	5.6	371	1050	7.9	12
9	44	34	4.6	2.2	1.7	2.6	2.0	5.4	644	1050	9.5	15
10	44	34	3.8	2.2	1.7	3.0	2.0	5.4	731	1050	13	19
11	43	35	3.3	2.3	1.6	3.3	2.0	5.4	783	1050	13	19
12	42	35	3.0	2.4	1.6	3.5	2.3	5.0	787	1030	12	16
13	41	35	2.6	2.4	1.6	4.0	2.4	4.9	855	977	10	19
14	41	35	2.5	2.5	1.5	4.1	3.0	4.7	915	905	10	20
15	41	33	2.5	2.6	1.5	4.1	2.1	4.6	955	844	12	22
16	40	36	2.4	2.6	1.5	3.8	1.5	4.5	961	781	15	22
17	38	33	2.3	2.7	1.5	3.6	1.6	4.5	974	744	18	22
18	37	34	2.2	2.6	1.5	3.3	1.8	4.6	961	671	21	24
19	37	19	2.1	2.6	1.5	2.9	2.1	4.4	962	571	26	25
20	37	7.2	2.0	2.6	1.5	2.6	2.6	4.3	968	481	23	27
21	37	7.2	1.9	2.6	1.5	2.3	3.1	4.2	971	453	23	29
22	37	7.4	1.8	2.6	1.5	2.0	3.6	4.1	970	283	24	30
23	37	8.5	1.7	2.6	1.5	2.1	3.9	4.1	982	216	28	32
24	38	6.0	1.7	2.6	1.5	2.2	4.0	4.1	1000	188	25	33
25	38	5.8	1.6	2.5	1.5	2.2	4.8	4.3	1000	171	21	34
26	38	5.8	1.5	2.5	1.5	2.3	8.9	4.9	999	85	19	36
27	37	5.9	1.4	2.2	1.5	2.3	8.0	5.1	1010	16	18	39
28	37	6.0	1.4	2.0	1.5	2.2	7.2	7.7	1020	16	18	37
29	37	7.4	2.4	1.8	---	2.2	7.3	24	1030	13	17	35
30	36	11	4.2	1.7	---	2.2	7.6	116	1040	11	15	35
31	36	---	3.1	1.5	---	2.2	---	132	---	11	13	---
TOTAL	1217	723.2	140.1	74.5	44.3	80.2	101.2	418.6	21516	20017	479.3	703
MEAN	39.3	24.1	4.52	2.40	1.58	2.59	3.37	13.5	717	646	15.5	23.4
MAX	46	36	13	4.8	1.8	4.1	8.9	132	1040	1050	28	39
MIN	21	5.8	1.4	1.2	1.5	1.5	1.5	4.1	64	11	7.9	11
AC-FT	2410	1430	278	148	88	159	201	830	42680	39700	951	1390

CAL YR 1982	TOTAL	6572.8	MEAN	18.0	MAX	67	MIN	1.4	AC-FT	13040
WTR YR 1983	TOTAL	45514.4	MEAN	125	MAX	1050	MIN	1.2	AC-FT	90280

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'16", long 111°18'52", in NE1/4 sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., 3.5 mi east of St. Charles.

DRAINAGE AREA.--435 mi^2, approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven," January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft Utah Power & Light Co. datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow Inlet Canal (station 10046000) and Dingle Inlet Canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet Canal (station 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft between elevation 5,902.00 ft, lower limit of pumps, and 5,923.65 ft, upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records furnished by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft June 10, 1923, elevation, 5,923.68 ft; no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,408,000 acre-ft July 9, elevation, 5,923.46 ft; minimum, 1,096,000 acre-ft Apr. 11-18, elevation, 5,919.01 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,919	1,095,000	5,922	1,305,000
5,920	1,165,000	5,923	1,375,000
5,921	1,235,000	5,924	1,446,000

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240000	1230000	1192000	1176000	1139000	1113000	1102000	1106000	1287000	1404000	1403000	1368000
2	1240000	1229000	1192000	1175000	1138000	1111000	1102000	1110000	1294000	1404000	1402000	1367000
3	1240000	1228000	1192000	1173000	1136000	1110000	1101000	1115000	1301000	1405000	1401000	1367000
4	1240000	1226000	1192000	1172000	1135000	1108000	1101000	1120000	1305000	1405000	1399000	1366000
5	1240000	1225000	1191000	1170000	1134000	1107000	1100000	1127000	1312000	1406000	1396000	1366000
6	1240000	1224000	1191000	1169000	1132000	1106000	1099000	1133000	1319000	1406000	1393000	1366000
7	1240000	1222000	1191000	1168000	1131000	1105000	1099000	1136000	1326000	1406000	1392000	1365000
8	1240000	1221000	1190000	1166000	1130000	1104000	1098000	1138000	1334000	1407000	1390000	1365000
9	1240000	1220000	1190000	1165000	1129000	1102000	1097000	1140000	1342000	1408000	1389000	1364000
10	1240000	1218000	1189000	1164000	1129000	1102000	1097000	1143000	1351000	1407000	1387000	1364000
11	1240000	1217000	1189000	1162000	1128000	1102000	1096000	1150000	1356000	1407000	1386000	1364000
12	1240000	1215000	1189000	1161000	1127000	1102000	1096000	1156000	1361000	1406000	1385000	1364000
13	1240000	1214000	1188000	1159000	1127000	1102000	1096000	1163000	1367000	1406000	1384000	1363000
14	1240000	1212000	1187000	1159000	1126000	1102000	1096000	1170000	1372000	1406000	1381000	1362000
15	1240000	1211000	1187000	1157000	1125000	1102000	1096000	1177000	1377000	1406000	1379000	1361000
16	1240000	1210000	1186000	1156000	1124000	1102000	1096000	1184000	1384000	1406000	1379000	1361000
17	1240000	1208000	1185000	1154000	1123000	1102000	1096000	1191000	1387000	1406000	1379000	1360000
18	1240000	1207000	1185000	1153000	1122000	1102000	1096000	1198000	1392000	1405000	1380000	1358000
19	1240000	1206000	1184000	1152000	1122000	1102000	1097000	1205000	1392000	1405000	1382000	1356000
20	1240000	1206000	1184000	1151000	1121000	1102000	1097000	1212000	1393000	1404000	1382000	1354000
21	1240000	1206000	1184000	1151000	1120000	1102000	1097000	1219000	1396000	1404000	1382000	1351000
22	1239000	1205000	1183000	1148000	1119000	1102000	1097000	1224000	1398000	1404000	1381000	1347000
23	1239000	1203000	1182000	1148000	1118000	1102000	1097000	1230000	1400000	1404000	1381000	1344000
24	1238000	1203000	1182000	1147000	1118000	1102000	1097000	1235000	1401000	1404000	1380000	1340000
25	1238000	1201000	1181000	1145000	1117000	1102000	1097000	1242000	1401000	1404000	1379000	1337000
26	1238000	1199000	1180000	1144000	1116000	1102000	1097000	1245000	1402000	1404000	1378000	1335000
27	1236000	1197000	1180000	1143000	1115000	1102000	1098000	1252000	1403000	1403000	1376000	1332000
28	1235000	1196000	1179000	1142000	1114000	1102000	1099000	1259000	1404000	1403000	1374000	1329000
29	1234000	1194000	1178000	1142000	---	1102000	1101000	1266000	1404000	1403000	1373000	1325000
30	1232000	1193000	1178000	1142000	---	1102000	1104000	1273000	1404000	1403000	1371000	1323000
31	1231000	---	1177000	1140000	---	1102000	---	1280000	---	1403000	1370000	---
MAX	1240000	1230000	1192000	1176000	1139000	1113000	1104000	1280000	1404000	1408000	1403000	1368000
MIN	1231000	1193000	1177000	1140000	1114000	1102000	1096000	1106000	1287000	1403000	1370000	1323000
(#)	5920.95	5920.40	5920.17	5919.65	5919.27	5919.09	5919.12	5921.65	5923.40	5923.39	5922.92	5922.25
(*)	-9000	-38000	-16000	-37000	-26000	-12000	+2000	+176000	+124000	-1000	-33000	-47000

CAL YR 1982 . . . . . (*) +294000
WTR YR 1983 . . . . . (*) +83000

(#) ELEVATION, IN FEET, AT END OF MONTH

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID

LOCATION.--Lat 42°34'08", long 111°25'48", in SE1/4SW1/4SE1/4 sec.21, T.14 S., R.43 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi west of Bloomington.

DRAINAGE AREA.--24.0 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete flume. Altitude of gage is 6,070 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--23 years, 29.8 ft^3/s, 21,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 248 ft^3/s June 11, 1971, gage height, 4.66 ft; minimum, 9.4 ft^3/s Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 174 ft^3/s June 10, gage height, 4.05 ft; minimum daily, 17 ft^3/s Feb. 23, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	25	22	20	18	18	21	37	123	94	48	35
2	30	24	22	20	19	18	21	38	127	112	47	36
3	29	24	22	20	19	18	20	39	132	101	46	38
4	29	24	22	20	19	18	20	39	140	93	46	36
5	28	24	22	20	18	18	19	46	139	87	45	35
6	28	24	22	20	18	18	19	42	145	84	44	34
7	28	24	22	20	18	18	19	39	142	82	43	34
8	27	23	21	21	18	18	20	40	143	79	43	34
9	27	24	21	20	18	19	20	42	142	79	45	34
10	27	24	22	20	18	21	21	41	147	78	43	33
11	27	23	21	20	18	23	22	41	151	74	50	33
12	27	23	21	20	18	24	21	40	140	70	44	33
13	26	23	21	19	18	24	20	40	128	68	43	32
14	26	21	21	19	18	24	19	41	123	66	42	32
15	26	21	21	19	18	21	20	40	125	66	41	32
16	26	22	21	19	18	21	21	38	131	64	41	32
17	26	24	21	19	18	20	22	35	132	62	42	32
18	26	24	21	19	18	20	24	37	137	60	43	31
19	25	24	21	19	18	20	28	38	134	58	42	31
20	25	23	21	19	18	19	31	38	127	57	41	31
21	25	23	21	19	18	19	35	40	121	56	40	31
22	25	22	21	19	18	20	37	45	121	55	40	30
23	25	20	21	19	17	20	37	52	120	55	39	30
24	25	21	21	19	18	19	40	60	118	54	38	31
25	25	22	19	19	18	19	37	69	116	57	38	30
26	27	23	21	19	18	19	33	80	112	54	37	30
27	26	22	21	19	18	19	32	86	111	52	37	32
28	25	23	20	19	18	19	31	97	108	51	37	32
29	25	23	20	19	---	19	34	127	102	49	36	31
30	27	23	20	19	---	22	39	135	98	49	36	31
31	26	---	20	19	---	22	---	130	---	48	36	---
TOTAL	826	690	653	602	506	617	783	1712	3835	2114	1293	976
MEAN	26.6	23.0	21.1	19.4	18.1	19.9	26.1	55.2	128	68.2	41.7	32.5
MAX	32	25	22	21	19	24	40	135	151	112	50	38
MIN	25	20	19	19	17	18	19	35	98	48	36	30
AC-FT	1640	1370	1300	1190	1000	1220	1550	3400	7610	4190	2560	1940

CAL YR 1982	TOTAL	14548	MEAN	39.9	MAX	146	MIN	13	AC-FT	28860
WTR YR 1983	TOTAL	14607	MEAN	40.0	MAX	151	MIN	17	AC-FT	28970

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW1/4NW1/4SW1/4 sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike) and 3 mi southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft NGVD of 1929, unadjusted.

REMARKS.--Records fair. Flow regulated by Bear Lake (station 10055500).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--61 years, 385 ft^3/s, 278,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,010 ft^3/s July 29, 1983; minimum daily, 1.0 ft^3/s for many days in 1937, 1954, 1959, 1961, 1964, 1977, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,010 ft^3/s July 29; minimum daily, 11 ft^3/s May 25-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	1320	1280	1010	1160	1180	943	20	393	1940	1940	1730
2	960	1320	1360	976	1140	1220	883	20	432	1960	1970	1700
3	953	1300	1280	902	1130	1190	926	20	485	1980	1940	1700
4	956	1290	1300	933	1120	1210	901	20	555	1980	1950	1680
5	963	1280	1320	928	1120	1180	821	19	553	1970	1930	1650
6	958	1280	1320	959	1180	1190	849	19	619	1970	1900	1640
7	982	1270	1320	884	1160	1190	814	19	820	1960	1870	1350
8	976	1290	1230	830	1080	1200	826	19	812	1950	1850	278
9	979	1320	1070	888	989	1270	773	19	917	1940	1820	218
10	975	1330	981	941	991	1270	807	19	1000	1940	1780	950
11	977	1320	863	948	962	1220	849	19	1150	1920	1780	1800
12	968	1310	864	940	950	1200	838	19	1290	1900	1780	1740
13	976	1300	891	948	997	1200	824	19	1420	1870	1790	1630
14	954	1270	926	954	991	1190	815	19	1510	1850	1790	1580
15	962	1280	909	945	1040	1140	820	19	1660	1800	1810	1580
16	950	1330	922	976	1090	1160	810	19	1800	1750	1830	1570
17	931	1310	943	969	1120	1180	800	19	1900	1700	1830	1560
18	967	1160	946	969	1090	1180	771	19	1930	1660	1840	1550
19	1100	1270	945	989	1110	1170	768	19	1930	1680	1830	1560
20	1130	1300	953	994	1080	1130	750	19	1940	1720	1820	1600
21	1170	1290	950	1070	1100	1120	754	19	1950	1760	1800	1620
22	1160	1280	949	1100	1130	1120	768	19	1940	1790	1780	1630
23	1160	1260	952	1110	1170	1120	620	19	1940	1770	1780	1620
24	1160	1190	929	1120	1190	1150	650	14	1930	1760	1780	1620
25	1160	1180	1390	1110	1210	1120	595	11	1930	1820	1800	1610
26	1230	1200	1260	1120	1210	1100	620	11	1940	1850	1790	1590
27	1260	1240	1150	1140	1190	1100	470	11	1940	1890	1800	1580
28	1260	1290	1110	1150	1180	1080	312	11	1930	1870	1790	1570
29	1290	1310	1070	1170	---	1020	300	11	1950	2010	1820	1560
30	1310	1380	1070	1180	---	977	20	11	1940	1980	1820	1570
31	1320	---	1030	1160	---	978	---	11	---	1950	1770	---
TOTAL	33157	38470	33483	31313	30880	35755	21697	532	42506	57890	56780	45036
MEAN	1070	1282	1080	1010	1103	1153	723	17.2	1417	1867	1832	1501
MAX	1320	1380	1390	1180	1210	1270	943	20	1950	2010	1970	1800
MIN	931	1160	863	830	950	977	20	11	393	1660	1770	218
AC-FT	65770	76310	66410	62110	61250	70920	43040	1060	84310	114800	112600	89330

CAL YR 1982	TOTAL	189702.0	MEAN	520	MAX	1390	MIN	3.0	AC-FT	376300
WTR YR 1983	TOTAL	427499	MEAN	1171	MAX	2010	MIN	11	AC-FT	847900

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW1/4SW1/4SE1/4 sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft downstream from road bridge, 2 mi downstream from Bennington Creek, and 6.5 mi northwest of Montpelier.

DRAINAGE AREA.--3,705 mi^2.

PERIOD OF RECORD.--October 1921 to September 1954. June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--47 years, 612 ft^3/s, 443,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,840 ft^3/s June 10, 1923; minimum daily, 23 ft^3/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,670 ft^3/s July 3, 4; minimum daily, 436 ft^3/s May 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	1450	1520	1150	1260	1210	1250	497	991	3560	2110	1840
2	1230	1440	1490	1100	1260	1230	1200	527	1160	3650	2100	1820
3	1170	1420	1480	1100	1230	1230	1200	545	1260	3670	2100	1820
4	1160	1410	1470	1000	1250	1230	1210	556	1340	3670	2090	1810
5	1160	1410	1500	1050	1250	1240	1140	555	1380	3640	2090	1770
6	1160	1400	1500	1050	1270	1240	1100	562	1460	3610	2070	1760
7	1180	1390	1480	1050	1300	1260	1080	568	1650	3610	2040	1740
8	1160	1390	1450	1000	1300	1260	1070	548	1700	3590	2010	970
9	1150	1410	1400	950	1140	1300	1030	521	1810	3550	1990	526
10	1140	1430	1200	1000	1060	1360	1060	513	1920	3560	1950	598
11	1140	1420	1100	1050	1050	1360	1130	530	1990	3500	1940	1640
12	1140	1400	1000	1050	1040	1380	1160	560	2100	3430	1900	1780
13	1140	1400	1000	1050	1050	1410	1160	568	2360	3340	1880	1740
14	1130	1380	1050	1050	1080	1460	1130	570	2660	3210	1870	1680
15	1120	1370	1100	1050	1080	1420	1120	553	2880	3090	1870	1670
16	1110	1400	1100	1050	1120	1420	1100	551	3130	2970	1900	1670
17	1100	1420	1100	1100	1160	1440	1120	549	3350	2830	1930	1660
18	1090	1380	1100	1100	1180	1420	1150	523	3470	2700	1990	1650
19	1160	1340	1100	1100	1160	1400	1170	505	3560	2590	2000	1640
20	1240	1430	1100	1100	1150	1360	1190	492	3570	2490	1990	1640
21	1280	1440	1110	1100	1150	1310	1170	475	3570	2440	1960	1680
22	1300	1430	1100	1150	1180	1290	1150	463	3590	2390	1940	1700
23	1300	1420	1100	1200	1200	1280	1030	463	3580	2340	1910	1720
24	1300	1430	980	1250	1230	1280	977	464	3570	2220	1900	1730
25	1310	1390	1050	1270	1250	1270	982	445	3570	2180	1890	1740
26	1330	1370	1270	1220	1260	1250	994	436	3570	2190	1880	1740
27	1390	1400	1310	1230	1260	1250	903	486	3550	2150	1870	1770
28	1410	1440	1310	1250	1230	1250	731	511	3580	2080	1870	1790
29	1440	1460	1210	1260	---	1200	665	531	3560	2030	1840	1790
30	1460	1490	1150	1280	---	1200	525	580	3540	2070	1870	1800
31	1460	---	1150	1270	---	1220	---	686	---	2110	1870	---
TOTAL	38170	42360	37980	34630	33150	40430	31897	16333	79421	90460	60620	48884
MEAN	1231	1412	1225	1117	1184	1304	1063	527	2647	2918	1955	1629
MAX	1460	1490	1520	1280	1300	1460	1250	686	3590	3670	2110	1840
MIN	1090	1340	980	950	1040	1200	525	436	991	2030	1840	526
AC-FT	75710	84020	75330	68690	65750	80190	63270	32400	157500	179400	120200	96960

CAL YR 1982	TOTAL	266326	MEAN	730	MAX	1520	MIN	47	AC-FT	528300
WTR YR 1983	TOTAL	554335	MEAN	1519	MAX	3670	MIN	436	AC-FT	1100000

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'15", long 111°34'20", in NW1/4NW1/4SE1/4 sec.20, T.10 S., R.42 E., Bear Lake County, Hydrologic Unit 16010202, on right bank below Wilson Creek, 15 ft below road bridge, 0.3 mi north of Eightmile Ranger Station, and 8.4 mi south of Soda Springs.

DRAINAGE AREA.--22.6 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft from topographic map.

REMARKS.--Records good except those affected by backwater from a beaver dam, Apr. 26 to June 22, which are fair.

AVERAGE DISCHARGE.--23 years, 17.1 ft^3/s, 12,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft^3/s June 14, 1978, gage height, 2.39 ft; minimum, 0.73 ft^3/s Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 188 ft^3/s May 30; minimum daily, 3.0 ft^3/s Feb. 6, 9, 20, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.1	5.3	3.6	3.3	4.0	5.5	30	175	69	23	11
2	11	8.5	5.2	3.6	3.2	4.2	5.3	28	163	76	22	12
3	11	8.2	5.2	3.7	3.1	4.1	5.2	31	146	65	22	12
4	10	8.0	5.4	3.8	3.2	4.1	5.3	31	153	60	21	11
5	10	8.4	5.4	3.8	3.2	3.8	5.1	37	146	55	20	11
6	9.2	8.4	5.6	3.8	3.0	3.8	4.9	31	138	53	19	10
7	9.4	8.1	5.5	3.8	3.4	3.7	4.5	28	133	51	18	10
8	9.3	8.1	4.6	4.0	3.2	3.6	4.4	30	134	49	18	11
9	8.9	8.2	4.6	3.8	3.0	3.8	4.4	31	139	51	22	11
10	8.8	8.0	4.3	3.8	3.1	4.2	4.7	26	145	49	18	10
11	8.8	7.9	4.3	3.7	3.1	6.2	4.7	25	161	45	23	9.9
12	8.4	7.3	4.2	3.4	3.1	7.8	4.6	23	152	43	18	9.8
13	8.4	7.0	4.4	3.5	3.3	8.9	4.5	22	139	40	16	9.8
14	8.7	6.1	4.3	3.3	3.2	9.2	4.4	21	117	39	16	9.7
15	8.4	6.1	4.3	3.2	3.2	8.0	4.4	21	108	38	15	9.4
16	8.1	6.3	4.2	3.2	3.2	7.9	4.4	19	107	38	16	9.4
17	7.9	6.5	4.1	3.3	3.1	7.5	5.1	18	111	36	15	9.4
18	7.8	6.7	4.1	3.4	3.2	7.1	6.4	21	124	35	16	9.3
19	7.6	7.5	4.1	3.4	3.2	6.7	9.3	22	131	33	16	9.2
20	7.5	6.6	4.2	3.4	3.0	6.1	13	23	129	32	16	9.2
21	7.6	5.8	4.1	3.4	3.1	6.0	16	28	122	31	14	9.2
22	7.8	4.6	4.3	3.4	3.0	5.8	19	33	118	30	14	9.1
23	7.5	4.5	4.4	3.4	3.3	5.7	21	42	119	30	13	9.0
24	7.4	4.6	4.1	3.4	3.3	5.4	28	50	118	29	13	8.9
25	7.7	4.9	3.7	3.4	3.4	5.2	31	75	113	31	13	8.9
26	9.4	4.8	4.0	3.4	3.4	5.0	25	132	105	28	13	8.8
27	8.8	4.7	4.1	3.4	3.3	5.0	20	148	95	27	12	12
28	8.2	5.0	3.9	3.4	3.3	5.0	20	169	87	26	12	12
29	8.2	5.2	4.0	3.3	---	4.9	26	174	78	25	12	11
30	10	5.4	3.8	3.4	---	5.9	27	188	72	24	12	11
31	9.8	---	3.7	3.4	---	6.0	---	179	---	24	11	---
TOTAL	273.6	200.5	137.4	108.8	89.4	174.6	343.1	1736	3778	1262	509	304.0
MEAN	8.83	6.68	4.43	3.51	3.19	5.63	11.4	56.0	126	40.7	16.4	10.1
MAX	12	9.1	5.6	4.0	3.4	9.2	31	188	175	76	23	12
MIN	7.4	4.5	3.7	3.2	3.0	3.6	4.4	18	72	24	11	8.8
AC-FT	543	398	273	216	177	346	681	3440	7490	2500	1010	603

CAL YR 1982	TOTAL	8865.1	MEAN	24.3	MAX	140	MIN	1.0	ACFT	17580
WTR YR 1983	TOTAL	8916.4	MEAN	24.4	MAX	188	MIN	3.0	ACFT	17690

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW1/4SW1/4NW1/4 sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,972 mi^2.

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--30 years, 676 ft^3/s, 489,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft^3/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum, 41 ft^3/s Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,130 ft^3/s July 7; minimum daily, 586 ft^3/s Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	1490	1490	3490	1380	916	1370	864	1560	3900	2290	2000
2	1370	1470	1460	3720	1230	967	1370	886	1780	4010	2280	1970
3	1260	1460	1440	3750	1160	1010	1300	899	1850	4120	2290	1970
4	1230	1450	1440	3460	1960	1020	1270	912	1920	4080	2290	1980
5	1210	1450	1450	3330	2770	1050	1270	932	1940	4090	2280	1940
6	1200	1450	1470	3160	2730	1070	1210	933	1970	4110	2250	1920
7	1220	1430	1460	2830	2690	1120	1180	909	2100	4130	2230	1900
8	1220	1420	1420	2560	2650	1160	1150	882	2200	4080	2190	1560
9	1200	1440	1370	2220	2410	1210	1150	854	2240	4020	2190	849
10	1190	1470	1330	2070	2060	1300	1130	856	2350	4040	2160	635
11	1190	1460	1290	1970	1900	1380	1180	884	2440	3960	2280	1340
12	1190	1440	1240	1900	1730	1440	1230	915	2530	3850	2170	1930
13	1190	1430	1200	1760	1700	1520	1260	922	2680	3770	2100	1930
14	1180	1420	1170	1690	1620	1610	1250	892	2910	3620	2080	1880
15	1170	1410	1130	1620	1450	1610	1240	870	3060	3450	2070	1850
16	1170	1410	1100	1530	1340	1550	1230	876	3200	3340	2100	1840
17	1160	1430	1110	1620	1350	1560	1230	854	3380	3200	2120	1840
18	1150	1440	1110	1550	1230	1550	1260	841	3590	3040	2180	1820
19	1170	1370	1120	1520	1120	1530	1320	833	3700	2890	2200	1820
20	1240	1420	1120	1510	1310	1480	1380	812	3810	2770	2210	1810
21	1300	1450	1130	1450	1580	1410	1440	798	3830	2680	2170	1850
22	1330	1450	1090	1460	719	1390	1480	801	3840	2600	2120	1870
23	1330	1450	1070	2050	746	1380	1490	827	3870	2570	2100	1890
24	1340	1450	938	2420	784	1360	1360	877	3870	2480	2060	1900
25	1350	1450	586	3050	817	1360	1290	922	3870	2390	2050	1910
26	1370	1450	1440	3770	850	1340	1270	946	3860	2380	2030	1910
27	1420	1450	1750	3330	877	1330	1290	1040	3850	2310	2010	1940
28	1440	1440	2030	2640	885	1340	1080	1120	3870	2230	2000	1990
29	1470	1430	2370	2450	---	1310	1010	1170	3880	2180	1980	1980
30	1500	1450	2840	2060	---	1280	929	1240	3880	2180	1980	2010
31	1520	---	3130	1750	---	1340	---	1320	---	2250	2010	---
TOTAL	39690	43230	44294	73690	43048	40893	37619	28687	89830	100720	66470	54034
MEAN	1280	1441	1429	2377	1537	1319	1254	925	2994	3249	2144	1801
MAX	1520	1490	3130	3770	2770	1610	1490	1320	3880	4130	2290	2010
MIN	1150	1370	586	1450	719	916	929	798	1560	2180	1980	635
AC-FT	78730	85750	87860	146200	85390	81110	74620	56900	178200	199800	131800	107200

CAL YR 1982	TOTAL	319571	MEAN	876	MAX	3130	MIN	130	AC-FT	633900
WTR YR 1983	TOTAL	662205	MEAN	1814	MAX	4130	MIN	586	AC-FT	1313000

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in NW1/4NE1/4SW1/4 sec.13, T.8 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 100 ft southeast of Lau ranchhouse, 150 ft downstream from Schmidt ditch, and 5 mi north of Soda Springs.

DRAINAGE AREA.--51.7 mi^2.

PERIOD OF RECORD.--October 1964 to current year. April 1923 to October 1926 published as "at Lau Ranch." Records since October 1964 equivalent if Schmidt ditch diversion is substracted from flow past station.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--19 years, 16.1 ft^3/s, 11,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft^3/s Apr. 14, 1976; maximum gage height, 4.01 ft Apr. 2, 1965, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 64 ft^3/s Apr. 19; minimum daily, 14 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	22	17	15	16	22	32	40	33	31	24	23
2	25	21	17	15	16	24	30	39	34	33	25	23
3	24	21	17	15	16	24	30	35	33	32	24	24
4	23	21	17	16	15	24	30	33	34	31	24	23
5	22	21	17	17	16	22	30	34	36	31	23	23
6	21	21	17	17	16	21	30	35	36	30	22	22
7	21	21	17	17	16	20	31	35	34	29	22	22
8	22	21	16	17	17	19	31	34	34	28	21	25
9	21	21	16	17	17	21	31	33	34	29	23	36
10	21	21	16	17	17	24	33	33	33	31	23	31
11	21	21	16	17	17	33	35	32	34	31	32	28
12	20	20	16	15	17	43	36	33	35	29	32	25
13	20	20	16	15	17	50	36	34	34	28	29	25
14	20	19	16	15	17	52	36	34	33	28	27	24
15	20	19	16	15	17	46	38	34	32	28	26	25
16	20	19	16	15	17	46	44	35	31	28	27	23
17	20	19	16	15	17	43	52	35	31	27	29	23
18	20	20	16	17	17	40	63	34	31	27	30	24
19	20	21	15	17	17	38	64	37	30	27	29	24
20	20	20	15	17	17	35	59	35	30	26	29	24
21	20	19	15	17	17	35	52	33	30	26	28	24
22	20	19	16	17	17	33	47	32	29	25	28	25
23	20	18	16	17	19	32	42	32	29	25	27	25
24	20	18	16	17	19	31	38	32	29	25	26	25
25	20	18	15	17	19	30	35	32	29	26	26	25
26	21	18	15	17	19	29	35	32	29	27	25	25
27	22	18	15	17	19	29	35	32	29	26	24	27
28	21	17	15	17	19	29	34	32	30	25	24	31
29	21	17	15	17	---	29	37	32	30	25	23	31
30	23	17	14	17	---	32	39	32	30	24	23	33
31	23	---	15	17	---	34	---	32	---	23	23	---
TOTAL	657	588	492	508	480	990	1165	1047	956	861	798	768
MEAN	21.2	19.6	15.9	16.4	17.1	31.9	38.8	33.8	31.9	27.8	25.7	25.6
MAX	25	22	17	17	19	52	64	40	36	33	32	36
MIN	20	17	14	15	15	19	30	32	29	23	21	22
AC-FT	1300	1170	976	1010	952	1960	2310	2080	1900	1710	1580	1520

CAL YR 1982	TOTAL	5656.0	MEAN	15.5	MAX	33	MIN	1.0	AC-FT	11220
WTR YR 1983	TOTAL	9310	MEAN	25.5	MAX	64	MIN	14	AC-FT	18470

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE1/4SW1/4NW1/4 sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi^2.

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--72 years, 783 ft^3/s, 567,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft^3/s Mar. 31, 1911; maximum gage height, 15.95 ft Dec. 11, 1919 (backwater from ice); minimum discharge, 15 ft^3/s Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,680 ft^3/s July 5; minimum daily, 545 ft^3/s Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	1570	1510	960	1430	1370	1470	843	1850	3450	2230	2120
2	1510	1450	1500	999	1350	1370	1570	983	1850	3480	2280	2120
3	1510	1470	1540	1100	1230	1380	1600	1020	1850	3530	2280	2120
4	1520	1470	1610	1190	1050	1380	1600	1020	1850	3540	2280	2120
5	1280	1470	1610	1390	1050	1390	1590	1020	2070	3680	2280	2120
6	1280	1490	1620	1420	1100	1390	1430	1020	2060	3670	2280	2230
7	1290	1480	1610	1340	1200	1590	1280	1020	2200	3520	2160	2250
8	1300	1390	1570	1150	1320	1610	1180	1020	2520	3490	2130	2140
9	1300	1390	1580	1410	1420	1610	1360	1020	2370	3450	2150	1180
10	1310	1440	1440	1410	1410	1520	1360	1020	2550	3460	2160	545
11	1320	1490	1290	1360	1400	1480	1360	1020	2530	3430	2300	820
12	1220	1370	1290	1280	1370	1640	1360	1020	2530	3430	2300	2110
13	1180	1500	1050	1220	1360	1640	1190	1020	2530	3350	2300	2180
14	1180	1500	1210	1210	1380	1780	1510	1020	2700	3120	2290	2080
15	1190	1510	1290	1210	1430	1850	1520	1020	3100	3100	2120	1970
16	1200	1520	1280	1200	1420	1840	1520	1070	3180	3060	2130	1950
17	1200	1490	1240	1150	1280	1840	1520	1090	3270	2920	2140	1950
18	1210	1490	1240	1280	919	1830	1520	1080	3360	2780	2150	1950
19	1210	1490	1130	1230	953	1830	1520	993	3490	2570	2330	2010
20	1210	1480	1240	1230	1120	1620	1510	966	3530	2510	2390	2030
21	1210	1490	1280	1230	1170	1330	1550	970	3490	2520	2380	2030
22	1210	1490	1310	1360	1190	1420	1700	971	3520	2520	2360	2030
23	1200	1490	1310	1370	1180	1540	1700	971	3540	2520	2350	2040
24	1210	1430	875	1370	1500	1670	1710	977	3540	2440	2200	2040
25	1220	1500	687	1380	1570	1650	1530	984	3530	2310	2150	2030
26	1210	1510	936	1380	1440	1510	1370	990	3460	2320	2150	2030
27	1210	1520	1230	1390	1420	1420	1360	994	3420	2330	2150	2100
28	1350	1520	903	1190	1410	1420	1350	1000	3420	2320	2160	2130
29	1440	1520	866	1490	---	1420	1130	1020	3440	2290	2150	2200
30	1440	1510	860	1490	---	1420	1110	1230	3440	2210	2120	2240
31	1540	---	937	1500	---	1480	---	1640	---	2210	2110	---
TOTAL	39930	44440	39044	39889	36072	48240	43480	32032	86190	91530	68960	58865
MEAN	1288	1481	1259	1287	1288	1556	1449	1033	2873	2953	2225	1962
MAX	1540	1570	1620	1500	1570	1850	1710	1640	3540	3680	2390	2250
MIN	1180	1370	687	960	919	1330	1110	843	1850	2210	2110	545
AC-FT	79200	88150	77440	79120	71550	95680	86240	63540	171000	181500	136800	116800

CAL YR 1982	TOTAL	348507	MEAN	955	MAX	1620	MIN	130	AC-FT	691300
WTR YR 1983	TOTAL	628672	MEAN	1722	MAX	3680	MIN	545	AC-FT	1247000

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in NW1/4SE1/4SW1/4 sec.34, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 500 ft upstream from Cleveland irrigation canal, 2.5 mi west of Cleveland, and 4 mi downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 mi^2.

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft from topographic map. Prior to Dec. 29, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good. A few small diversions for irrigation of meadowland in Cottonwood Valley above station. Treasureton Canal diverts from Cottonwood Creek 10.1 mi above station for irrigation in Battle Creek basin in vicinity of Treasureton.

AVERAGE DISCHARGE.--44 years, 32.4 ft^3/s, 23,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 788 ft^3/s May 16, 1975, gage height, 4.01 ft; minimum, no flow Feb. 19, 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 23	2100	353	3.06
May 5	1600	389	3.08
May 28	0300	*515	3.36

Minimum, 6.2 ft^3/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	28	14	15	20	34	60	288	273	57	23	16
2	35	25	17	16	22	48	61	272	264	80	24	17
3	29	23	19	16	13	55	50	297	250	64	22	20
4	25	23	21	19	13	59	56	305	262	59	22	19
5	26	22	23	22	13	54	53	353	250	56	21	18
6	25	21	23	23	14	51	51	304	228	53	21	17
7	24	20	22	23	18	48	50	266	206	51	21	17
8	25	20	16	23	20	47	51	288	194	42	20	17
9	22	20	13	22	21	56	51	291	194	43	23	34
10	22	20	12	23	21	75	58	250	178	47	21	21
11	22	20	12	22	20	97	58	244	185	40	36	19
12	21	19	15	21	20	116	55	219	176	38	31	18
13	20	20	19	21	21	131	53	210	154	36	20	17
14	21	15	19	20	21	160	54	198	141	34	18	17
15	22	15	21	20	20	112	58	190	132	34	17	16
16	23	16	22	20	21	96	69	185	126	30	19	16
17	21	20	24	22	20	89	91	168	118	29	23	16
18	17	20	24	21	21	81	122	199	113	27	27	16
19	17	30	23	21	21	74	165	237	109	26	31	15
20	17	23	21	21	18	66	207	226	103	25	28	16
21	17	19	24	21	22	64	242	259	99	25	39	16
22	17	15	24	21	19	63	231	288	93	25	29	16
23	16	10	26	21	21	61	267	333	88	27	25	16
24	15	7.8	21	21	23	56	301	351	85	30	24	14
25	15	7.6	13	21	25	54	260	370	78	32	22	14
26	17	7.4	13	21	25	51	219	401	65	28	21	14
27	22	7.2	16	21	24	50	189	400	73	26	21	19
28	19	9.4	13	21	24	48	193	405	71	24	20	33
29	18	12	12	17	---	46	238	374	67	23	20	22
30	26	13	12	23	---	54	268	341	59	21	18	35
31	37	---	13	18	---	66	---	313	---	22	17	---
TOTAL	688	528.4	567	637	561	2162	3881	8825	4434	1154	724	561
MEAN	22.2	17.6	18.3	20.5	20.0	69.7	129	285	148	37.2	23.4	18.7
MAX	37	30	26	23	25	160	301	405	273	80	39	35
MIN	15	7.2	12	15	13	34	50	168	59	21	17	14
AC-FT	1360	1050	1120	1260	1110	4290	7700	17500	8790	2290	1440	1110

CAL YR 1982	TOTAL	20471.2	MEAN	56.1	MAX	515	MIN	6.5	AC-FT	40600
WTR YR 1983	TOTAL	24722.4	MEAN	67.7	MAX	405	MIN	7.2	AC-FT	49040

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE1/4SE1/4NW1/4 sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi^2.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--62 years, 849 ft^3/s, 615,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft^3/s May 8, 1922; minimum, 3.0 ft^3/s June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,220 ft^3/s June 22; minimum daily, 136 ft^3/s Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	1520	1460	1000	1510	2030	2240	1530	2480	3610	3270	2280
2	1920	2540	1900	1310	1780	1940	1560	1880	2700	3760	1290	1990
3	1980	1460	1870	1300	1370	1610	1820	1250	2840	3790	1290	2530
4	1940	1850	1660	1380	1350	2000	2090	1790	2440	3830	2860	2430
5	1910	1460	2060	1140	1130	1420	1550	1880	2470	3880	2930	2110
6	1770	1780	1760	1750	1560	1670	1960	1610	2900	3980	2800	2530
7	1530	1530	1970	1810	743	2150	1700	1760	2760	4010	2820	2770
8	1600	1860	1850	1810	939	1860	1670	1470	2810	3820	2780	2270
9	2290	1850	1510	1560	1110	1990	1330	1700	3340	3720	2710	2140
10	1320	1700	2330	1740	1840	1920	1720	1760	3500	3710	2470	625
11	2480	1930	1210	1410	1270	1890	1770	1540	3490	3680	2990	136
12	1580	2130	1570	1460	1840	2030	1760	1770	3320	3610	2910	1570
13	1200	1160	1540	1510	1380	2070	1860	1430	3430	3570	2870	2240
14	1340	1810	1810	1260	1840	1860	1250	1800	3420	3500	3010	2040
15	1970	1830	1100	1300	1570	2780	2070	1510	3410	3450	2910	2310
16	1400	1770	1430	1190	1820	1870	1450	1570	3420	2970	2730	2150
17	1920	1460	1560	1470	1580	1850	1810	1810	3450	2990	2690	2020
18	1340	1880	1680	1610	1410	2800	1880	1500	3660	3070	2590	2130
19	1870	1990	1250	1330	1690	1660	2120	1710	4000	2860	2580	2010
20	1590	1720	1200	1600	864	2790	2070	1650	4210	2840	2570	1830
21	1300	1340	1630	1640	1550	1390	1830	1680	4180	2810	3060	2200
22	1780	1700	1440	1390	1240	1520	2040	1630	4220	2780	3070	2140
23	1690	2450	1600	1460	1820	1750	2220	1830	4130	2760	3030	2020
24	1130	1410	1710	1560	1250	2010	2190	1410	4000	2740	2860	2130
25	1830	1830	1180	1370	1510	1870	2730	2040	3990	1630	2420	2030
26	1300	1620	855	1740	1570	1900	1790	1820	3910	1950	2460	2130
27	1930	2020	730	1270	1780	1860	1810	1850	3800	2670	2370	1940
28	1490	1600	1280	1650	1830	1730	1860	1780	3650	2750	2190	2300
29	1560	1930	1220	1380	---	1540	1910	1910	3520	3160	2860	2360
30	1980	1930	1030	1410	---	1730	2000	1940	3470	3200	2150	2750
31	1910	---	728	1840	---	1810	---	1970	---	3000	2250	---
TOTAL	53050	53060	46123	45650	41146	59300	56060	52780	102920	100100	81790	62111
MEAN	1711	1769	1488	1473	1470	1913	1869	1703	3431	3229	2638	2070
MAX	2480	2540	2330	1840	1840	2800	2730	2040	4220	4010	3270	2770
MIN	1130	1160	728	1000	743	1390	1250	1250	2440	1630	1290	136
AC-FT	105200	105200	91480	90550	81610	117600	111200	104700	204100	198500	162200	123200

CAL YR 1982 TOTAL 443303 MEAN 1215 MAX 2540 MIN 23 AC-FT 879300
WTR YR 1983 TOTAL 754090 MEAN 2066 MAX 4220 MIN 136 AC-FT 1496000

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW1/4NE1/4NW1/4 sec.36, T.14 S., R.39 E., Franklin County, Hydrologic Unit 16010202, on left bank 600 ft downstream from headgates of West Cache Canal, 5 mi downstream from Mink Creek, 5 mi north of Preston, and 5.5 mi upstream from Battle Creek.

DRAINAGE AREA.--4,545 mi^2.

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to current year. Prior to 1903 published as "at Battlecreek". Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 205: 1905-7. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft NGVD of 1929, unadjusted. October 1889 to September 1917, nonrecording gages at several sites within 5 mi downstream at different datums.

REMARKS.--Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE1/4 sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--40 years (water years 1944-83), 897 ft^3/s, 649,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (since 1943).--Maximum discharge, 4,660 ft^3/s June 22, 1983, gage height, 5.55 ft; no flow Sept. 10-11, 1980.

1889-1917: Maximum flood occurred June 9, 10, 1907 about 8,500 ft^3/s, estimated on basis of records for downstream station Bear River near Collinston (station 10118000), site and datum then in use. Maximum gage height observed, 9.04 ft Jan. 17, 18, 1917 (backwater from ice), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,660 ft^3/s June 22, gage height, 5.55 ft; minimum daily, 172 ft^3/s Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	2340	1790	815	1910	2160	1920	2290	3120	3620	2000	2390
2	2200	1880	1580	1000	1630	2130	1630	2310	3330	3830	2200	1580
3	1950	2640	2180	1280	1870	1450	2160	1470	3440	3850	1000	2420
4	2000	1090	1560	1290	1470	2120	2100	2110	3010	3860	1000	2330
5	1990	2310	2060	1020	1430	1500	1770	2480	3040	3880	2100	2000
6	1970	1830	1900	1750	1240	1760	2130	2000	3440	3900	1900	2380
7	1810	1930	2150	1890	1650	2290	1910	2220	3290	3970	2000	2620
8	1570	1870	1650	1900	1010	2030	1620	1860	3330	3770	1900	2310
9	1570	2100	2450	1900	1490	2000	1540	2210	3500	3650	1900	1920
10	2390	1650	1930	1430	1920	2140	1790	2110	3870	3600	1900	1090
11	1460	1510	2080	1480	1380	2290	1890	1870	3870	3580	2100	172
12	2490	2320	1780	1610	1920	2280	1860	2120	3860	3490	2600	1200
13	1600	1660	1380	1850	1480	2240	1820	1940	3690	3440	2000	2020
14	1440	1580	1970	1050	1930	2840	1400	2000	3820	3370	2400	2010
15	1340	1810	1080	1780	1640	2300	1990	1840	3780	3310	2400	2190
16	2040	2060	1270	1370	1990	2880	1840	1960	3780	2920	2200	2060
17	1670	1560	1550	1340	1640	2000	1980	2140	3810	2730	2200	1950
18	1800	2180	1790	1580	1760	1980	1930	1920	3850	2890	2200	2020
19	1670	2010	1110	1880	1090	2870	1990	1960	4290	2630	2300	1940
20	1660	2080	1790	1370	1580	1790	2260	2030	4470	2600	2200	1950
21	1840	1420	1080	1880	1460	2800	2170	1560	4540	2570	2400	1820
22	1210	2080	1790	1330	1320	1070	2370	1980	4540	2550	2800	2160
23	1990	2270	1450	1780	1840	2200	2590	2270	4530	2530	2800	1940
24	1510	3060	1750	1520	1580	1860	2550	1760	4350	2500	2700	2040
25	1710	1920	1450	1480	1600	2090	3120	2550	4260	1850	2500	1940
26	1660	1740	1540	1870	1500	1890	2390	2290	4200	1450	2300	2040
27	1420	1980	806	1430	1880	2080	2260	2640	4080	2370	2400	1960
28	1990	1740	720	1900	2090	1930	2180	2380	3930	2490	2100	2160
29	1680	1910	1200	1430	---	1680	2150	2580	3740	2160	2500	2290
30	1690	1870	1160	1530	---	1370	2410	2550	3590	2060	2080	2660
31	2020	---	1000	1920	---	2190	---	2520	---	2100	2060	---
TOTAL	54930	58400	48996	47655	45300	64210	61720	65920	114350	93520	67140	59562
MEAN	1772	1947	1581	1537	1618	2071	2057	2126	3812	3017	2166	1985
MAX	2490	3060	2450	1920	2090	2880	3120	2640	4540	3970	2800	2660
MIN	1210	1090	720	815	1010	1070	1400	1470	3010	1450	1000	172
AC-FT	109000	115800	97180	94520	89850	127400	122400	130800	226800	185500	133200	118100

CAL YR 1982	TOTAL	457028	MEAN	1252	MAX	3060	MIN	23	AC-FT	906500
WTR YR 1983	TOTAL	781703	MEAN	2142	MAX	4540	MIN	172	AC-FT	1551000

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW1/4NE1/4 sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.8 mi upstream from Idaho-Utah State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,881 mi^2.

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft higher.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--13 years, 1,260 ft^3/s, 912,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,860 ft^3/s June 21, 1983, gage height, 9.72 ft; minimum observed, 73 ft^3/s June 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,860 ft^3/s June 21, gage height, 9.72 ft; minimum daily, 406 ft^3/s Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1920	2380	2450	1100	2170	2680	2280	3030	3520	3960	2110	2680
2	2570	2170	1940	1200	1890	2800	2280	2900	3720	4180	2470	1960
3	2400	2910	2460	1700	2100	2450	2420	2350	3720	4280	700	2700
4	2380	1730	2020	1700	1740	2830	2450	2830	3730	4270	1190	2660
5	2310	2490	2350	1500	1670	1750	2230	2660	3400	4260	2370	2450
6	2330	2070	2200	2100	1490	2240	2350	2830	3640	4260	2160	2660
7	2020	2270	2430	2300	1860	2570	2320	2570	3760	4320	2260	2900
8	1950	2220	2100	2300	1320	2630	2090	2520	3690	4270	2090	2640
9	2110	2370	2410	2280	1660	2150	1900	2540	3700	4110	2080	2220
10	2210	2110	2040	1920	2150	2570	1990	2590	4060	4120	2090	2190
11	2150	1830	2160	1980	1640	2750	2220	2400	4190	4030	2050	406
12	2440	2490	2000	1830	2150	2720	2240	2680	4220	3960	2850	578
13	2120	2460	1800	1930	1790	2690	2170	2770	4100	3910	2130	2160
14	1770	1700	2000	1810	2290	3660	2130	2290	4160	3840	2580	2270
15	1760	1880	1500	1710	2010	2730	1880	2400	4120	3800	2570	2410
16	2240	2340	1640	1660	2250	3340	2270	2620	4100	3610	2490	2290
17	1670	2340	2130	1570	1980	2510	2160	2460	4090	3170	2480	2190
18	2230	1900	1950	1820	1880	2440	2200	2460	4080	3270	2440	2230
19	1810	2500	1570	1920	2040	3300	2320	2590	4200	3100	2570	2170
20	2270	2260	2110	1590	1320	2280	2530	2620	4680	2900	2440	2160
21	2000	2120	1640	2130	1920	3220	2590	2440	4830	2870	2940	2050
22	1810	2490	2060	1630	1710	1680	2700	2480	4790	2790	2960	2360
23	2140	2080	1810	2100	2180	2430	2960	2710	4790	2840	3000	2180
24	2080	2000	2090	1720	1680	2330	2920	2330	4710	2830	2880	2270
25	1500	2220	1920	1910	1940	2470	3500	2860	4530	2850	2550	2180
26	2180	2250	1310	1970	2220	2310	2890	2880	4490	2180	2460	2280
27	1760	2210	1430	1700	2280	2430	2730	3080	4390	2770	2500	2240
28	2270	2150	1240	2170	2160	2360	2610	2870	4290	2740	2260	2450
29	1940	2290	1720	1740	---	2160	2590	2950	4150	2620	2910	2570
30	1960	2300	1700	1810	---	1900	2850	2980	4000	2300	2380	2990
31	2380	---	1600	2170	---	2270	---	2940	---	2300	2400	---
TOTAL	64680	66530	59780	56970	53490	78650	72770	82630	123850	106710	73360	67494
MEAN	2086	2218	1928	1838	1910	2537	2426	2665	4128	3442	2366	2250
MAX	2570	2910	2460	2300	2290	3660	3500	3080	4830	4320	3000	2990
MIN	1500	1700	1240	1100	1320	1680	1880	2290	3400	2180	700	406
AC-FT	128300	132000	118600	113000	106100	156000	144300	163900	245700	211700	145500	133900

CAL YR 1982	TOTAL	491504	MEAN	1347	MAX	2910	MIN	50	AC-FT	974900
WTR YR 1983	TOTAL	906914	MEAN	2485	MAX	4830	MIN	406	AC-FT	1799000

10093000 CUB RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°08'25", long 111°41'26", in NW1/4NW1/4NE1/4 sec.8, T.15 S., R.41 E., Franklin County, Hydrologic Unit 16010202, Cache National Forest, on right bank 0.2 mi upstream from headgates of Cub River-Worm Creek Canal, 0.7 mi upstream from forest boundary, and 10 mi east of Preston.

DRAINAGE AREA.--31.6 mi^2.

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft NGVD of 1929, unadjusted.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--40 years, 85.3 ft^3/s, 61,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft^3/s June 18, 1982, gage height, 2.80 ft; maximum gage height, 3.83 ft June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 787 ft^3/s May 29, gage height, 2.90 ft; minimum daily, 23 ft^3/s Feb. 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	65	43	33	28	29	46	118	648	503	109	58
2	55	60	43	32	28	35	45	116	584	514	106	58
3	53	59	41	32	27	43	45	107	588	511	102	59
4	52	56	41	32	26	45	42	104	624	469	99	57
5	50	55	40	32	26	42	40	122	624	425	96	55
6	50	54	41	31	25	39	38	123	597	399	92	54
7	50	54	42	33	26	37	37	114	611	389	90	53
8	50	53	41	32	25	35	37	116	629	378	88	53
9	49	53	41	32	25	37	37	133	634	363	89	51
10	49	55	41	31	26	44	42	127	615	347	85	50
11	48	50	41	31	24	69	44	120	638	310	86	49
12	47	49	41	31	24	83	43	106	615	282	82	49
13	45	48	41	32	25	77	41	99	575	263	80	47
14	45	47	43	31	25	86	39	94	503	246	78	46
15	47	47	42	31	24	69	39	92	475	235	75	45
16	54	46	41	31	24	60	40	89	491	222	74	45
17	56	46	42	31	24	55	46	83	532	207	73	45
18	55	47	42	30	24	52	54	92	570	193	73	45
19	53	54	42	30	24	48	61	104	606	182	74	45
20	50	48	41	31	24	45	70	107	602	175	73	45
21	49	47	38	31	23	43	74	123	597	169	72	44
22	48	46	38	30	23	42	85	153	606	160	69	43
23	47	45	38	30	23	42	94	198	624	155	67	44
24	47	44	37	29	24	40	112	276	638	148	65	44
25	46	43	36	28	26	40	127	354	629	148	63	43
26	51	43	36	28	27	37	107	444	624	148	62	42
27	56	41	36	28	27	38	94	536	606	137	61	45
28	55	43	35	28	27	37	83	657	602	128	60	45
29	55	42	34	28	---	36	82	740	573	121	58	44
30	66	43	34	28	---	44	97	735	532	116	57	46
31	72	---	34	28	---	48	---	710	---	113	62	---
TOTAL	1606	1483	1226	945	704	1477	1841	7092	17792	8156	2420	1449
MEAN	51.8	49.4	39.5	30.5	25.1	47.6	61.4	229	593	263	78.1	48.3
MAX	72	65	43	33	28	86	127	740	648	514	109	59
MIN	45	41	34	28	23	29	37	83	475	113	57	42
AC-FT	3190	2940	2430	1870	1400	2930	3650	14070	35290	16180	4800	2870

CAL YR 1982	TOTAL	46089	MEAN	126	MAX	776	MIN	14	AC-FT	91420
WTR YR 1983	TOTAL	46191	MEAN	127	MAX	740	MIN	23	AC-FT	91620

10099000 HIGH CREEK NEAR RICHMOND, UT

LOCATION (REVISED).--Lat 41°58'40", long 111°44'55", in SW1/4SW1/4SE1/4 sec.5, T.14 N., R.2 E., Cache County, Cache National Forest, Hydrologic Unit 16010202, on right bank near forest boundary, 2 mi downstream from North Fork, and 5 mi northeast of Richmond.

DRAINAGE AREA.--16.2 mi^2.

PERIOD OF RECORD.--April to September 1944, April to September 1945 (monthly discharge only, published in WSP 1314), April 1946 to September 1952, February 1971 to September 1972, October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years (1946-52, 1972, 1979-83), 34.7 ft^3/s, 25,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 485 ft^3/s May 30, 1983, gage height, 3.24 ft; maximum gage height, 3.67 ft Feb. 1-15, 1972, backwater from ice; minimum observed, 2.6 ft^3/s Jan. 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	0900	*485	3.24
June 9	2200	275	2.71
June 18	2100	268	2.69

Minimum daily, 10 ft^3/s Dec. 29 to Jan. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	22	14	10	11	16	25	75	266	118	39	19
2	28	22	14	10	11	16	24	75	225	123	38	19
3	28	21	14	10	11	19	22	70	206	119	37	20
4	27	21	14	10	11	21	21	68	210	114	35	19
5	25	20	14	11	11	20	20	83	198	109	34	18
6	23	20	14	11	11	20	19	91	190	111	33	18
7	22	19	14	11	12	19	18	81	206	113	31	17
8	21	18	14	11	12	18	18	80	222	117	30	17
9	21	18	14	11	12	17	18	94	241	114	32	17
10	20	17	14	11	12	19	19	80	204	108	30	17
11	19	17	14	11	11	27	20	68	230	92	29	16
12	19	16	14	11	11	37	20	58	225	83	28	16
13	19	16	13	11	12	35	20	53	169	78	27	16
14	19	16	13	11	12	36	20	50	143	75	27	16
15	19	16	13	11	12	34	19	49	143	73	26	15
16	20	16	13	11	12	30	20	49	153	67	25	15
17	20	15	13	11	12	27	24	49	169	63	25	15
18	19	15	13	11	12	26	32	51	223	59	27	15
19	18	16	13	11	12	24	38	66	225	57	26	15
20	16	16	13	11	12	22	48	76	192	55	27	15
21	16	16	13	11	11	21	49	82	172	53	26	15
22	16	15	13	11	11	21	52	90	175	51	25	14
23	16	14	13	11	11	20	58	101	183	50	24	15
24	16	14	13	11	13	19	73	117	190	48	23	15
25	16	14	13	11	14	19	83	137	174	51	22	14
26	18	14	13	11	16	18	70	201	163	48	22	14
27	20	14	12	11	16	18	60	295	165	45	21	15
28	20	14	11	11	16	18	55	302	151	46	21	15
29	20	14	10	11	---	18	55	351	127	44	21	15
30	20	14	10	11	---	19	60	391	118	41	20	15
31	22	---	10	11	---	25	---	317	---	40	20	---
TOTAL	631	500	403	337	340	699	1080	3750	5658	2365	851	482
MEAN	20.4	16.7	13.0	10.9	12.1	22.5	36.0	121	189	76.3	27.5	16.1
MAX	28	22	14	11	16	37	83	391	266	123	39	20
MIN	16	14	10	10	11	16	18	49	118	40	20	14
AC-FT	1250	992	799	668	674	1390	2140	7440	11220	4690	1690	956

CAL YR 1982	TOTAL	17641.1	MEAN	48.3	MAX	257	MIN	7.0	AC-FT	34990
WTR YR 1983	TOTAL	17096	MEAN	46.8	MAX	391	MIN	10	AC-FT	33910

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT

LOCATION.--Lat 41°30'45", long 111°48'34", in NE1/4SW1/4SW1/4 sec.14, T.9 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.65 mi downstream from Davenport Creek and 1.5 mi south of Avon.

DRAINAGE AREA.--61.6 mi^2.

PERIOD OF RECORD.--October 1960 to current year. Published as "10105700 South Fork Little Bear River near Avon," 1960-62.

REVISED RECORDS.--WRD UT-74-1: Drainage area. WDR UT-82-1: 1980-81 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft from topographic map.

REMARKS.--Records good. A few small diversions for irrigation above station.

AVERAGE DISCHARGE.--23 years, 57.9 ft^3/s, 41,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft^3/s Apr. 11, 1982, gage height, 4.43 ft; minimum, 6.3 ft^3/s Feb. 3, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 562 ft^3/s May 31, gage height, 2.51 ft; minimum daily, 26 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	52	42	30	29	90	114	242	402	137	71	47
2	61	46	39	32	29	129	96	234	430	143	69	48
3	52	43	38	34	28	107	88	244	366	131	68	69
4	48	41	38	36	28	87	75	244	380	125	67	56
5	47	40	38	41	28	78	74	283	335	123	65	50
6	45	39	39	52	27	77	75	265	322	119	61	48
7	46	38	40	63	31	69	76	243	314	116	61	47
8	45	38	34	55	30	74	80	250	370	113	60	47
9	44	37	34	42	30	90	88	253	381	117	69	46
10	42	37	36	37	30	103	131	241	361	115	61	45
11	41	36	33	35	30	156	128	240	351	109	60	43
12	40	35	34	35	30	160	102	240	316	107	59	43
13	39	34	34	33	33	139	90	272	283	103	57	42
14	37	31	35	33	35	165	85	262	260	101	57	41
15	37	32	36	32	33	112	89	245	253	101	57	41
16	37	32	36	32	33	96	100	251	254	98	70	40
17	37	32	36	32	33	94	113	215	253	95	65	40
18	37	37	35	32	35	91	128	220	259	92	72	40
19	37	127	34	32	40	84	185	269	251	89	70	39
20	36	48	34	31	36	81	179	220	234	84	78	39
21	35	40	35	31	34	79	216	229	222	83	64	39
22	34	39	42	31	33	79	189	252	213	82	61	39
23	34	30	81	30	32	81	201	276	206	81	57	39
24	33	30	47	31	34	79	223	305	195	80	55	42
25	35	37	32	30	36	76	220	338	185	98	54	39
26	44	33	36	31	40	79	214	375	174	84	53	38
27	49	34	39	33	36	81	213	398	161	79	51	50
28	43	37	29	31	36	86	209	428	155	76	50	46
29	44	37	28	32	---	79	234	457	146	74	50	42
30	87	41	26	31	---	152	287	508	141	72	50	47
31	66	---	28	30	---	129	---	471	---	72	47	---
TOTAL	1399	1213	1148	1090	909	3082	4302	8970	8173	3099	1889	1332
MEAN	45.1	40.4	37.0	35.2	32.5	99.4	143	289	272	100	60.9	44.4
MAX	87	127	81	63	40	165	287	508	430	143	78	69
MIN	33	30	26	30	27	69	74	215	141	72	47	38
AC-FT	2770	2410	2280	2160	1800	6110	8530	17790	16210	6150	3750	2640

CAL YR 1982	TOTAL	29641	MEAN	81.2	MAX	437	MIN	16	AC-FT	58790
WTR YR 1983	TOTAL	36606	MEAN	100	MAX	508	MIN	26	AC-FT	72610

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT

LOCATION.--Lat 41°31'06", long 111°42'49", in SE1/4NW1/4NW1/4 sec.15, T.9 N., R.2 E., Cache County, Hydrologic Unit 16010203, on right bank 1.2 mi upstream from Porcupine Creek, 1.7 mi upstream from Porcupine Dam, 5.2 mi east of Avon, and 7.2 mi southeast of Paradise.

DRAINAGE AREA.--56.7 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,398 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 37.3 ft^3/s, 27,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 951 ft^3/s May 2, 1982, gage height, 3.88 ft; minimum, 2.2 ft^3/s Feb. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 683 ft^3/s May 24, gage height, 3.36 ft; minimum, 8.6 ft^3/s Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	14	13	14	14	20	52	235	355	51	23	18
2	19	13	13	14	13	23	54	282	326	52	23	18
3	17	13	12	13	13	26	53	331	314	49	23	30
4	16	13	12	13	13	29	48	343	331	46	22	27
5	15	12	13	14	14	30	46	394	294	44	21	22
6	15	13	13	14	13	30	46	309	265	43	21	20
7	16	13	14	15	14	29	46	272	239	41	20	19
8	15	13	13	16	14	29	47	352	219	41	20	18
9	15	13	13	16	14	29	47	363	203	41	31	18
10	14	12	14	16	14	34	51	269	185	42	27	18
11	15	12	14	16	13	44	56	231	175	39	28	18
12	15	12	14	15	13	63	56	207	165	37	25	17
13	14	12	14	16	14	66	54	197	149	36	24	17
14	13	11	15	16	14	74	52	200	136	35	23	16
15	13	11	15	16	13	66	51	202	125	34	23	16
16	13	11	15	17	14	58	53	202	117	33	24	16
17	12	11	15	17	14	54	61	189	109	32	25	16
18	12	11	14	17	14	49	81	230	102	31	25	16
19	12	13	14	16	15	47	110	285	95	30	27	16
20	12	12	14	16	14	44	152	318	90	29	27	16
21	12	12	15	16	15	41	186	390	85	29	25	16
22	12	12	15	16	15	40	196	445	80	29	23	15
23	12	11	16	15	15	41	220	472	76	28	22	15
24	11	11	15	15	16	39	291	505	71	27	21	16
25	11	12	13	15	17	39	278	514	67	30	20	15
26	12	11	15	15	19	37	190	528	64	29	20	15
27	13	11	15	15	19	37	159	487	61	27	20	16
28	12	12	14	15	19	38	162	436	58	26	19	16
29	12	12	14	14	---	37	224	440	55	25	19	16
30	13	13	14	15	---	40	235	416	54	24	19	16
31	14	---	14	14	---	52	---	399	---	24	19	---
TOTAL	430	362	434	472	409	1285	3357	10443	4665	1084	709	528
MEAN	13.9	12.1	14.0	15.2	14.6	41.5	112	337	156	35.0	22.9	17.6
MAX	23	14	16	17	19	74	291	528	355	52	31	30
MIN	11	11	12	13	13	20	46	189	54	24	19	15
AC-FT	853	718	861	936	811	2550	6660	20710	9250	2150	1410	1050

CAL YR 1982	TOTAL	19835.8	MEAN	54.3	MAX	640	MIN	5.8	AC-FT	39340
WTR YR 1983	TOTAL	24178	MEAN	66.2	MAX	528	MIN	11	AC-FT	47960

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT

LOCATION.--Lat 41°35'25", long 111°51'10", in NW1/4NE1/4SE1/4 sec.20, T.10 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 1 mi upstream from backwater of Hyrum Reservoir, 2 mi northwest of Paradise, and 5 mi downstream from East Fork.

DRAINAGE AREA.--198 mi^2.

PERIOD OF RECORD.--January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft from topographic map. Prior to Nov. 28, 1945, at site 150 ft upstream at different datum. Nov. 28, 1945 to May 19, 1952 at present site at datum 1.50 ft higher.

REMARKS.--Records fair. Diversions above station for irrigation of about 10,000 acres, most of which is below station. Flow regulated slightly by trout farm about 2 mi upstream and by Porcupine Reservoir, capacity 12,800 acre-ft, since 1962.

AVERAGE DISCHARGE.--46 years, 92.8 ft^3/s, 67,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s Feb. 11, 1962, gage height, 6.52 ft, from rating curve extended above 600 ft^3/s; minimum, 4 ft^3/s Aug. 14, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 929 ft^3/s May 24, gage height, 7.87 ft; minimum daily, 62 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	108	84	64	76	173	201	429	668	161	86	107
2	128	102	79	70	76	250	195	552	642	182	85	95
3	118	98	78	75	72	210	182	751	625	167	85	128
4	112	96	78	79	72	174	164	647	642	161	86	137
5	110	95	78	81	73	151	161	810	601	150	88	136
6	108	93	81	86	70	149	164	732	582	140	84	142
7	110	91	83	106	79	137	161	584	527	134	83	146
8	108	79	76	120	78	142	164	688	509	124	79	148
9	106	78	75	104	78	161	179	783	511	128	88	146
10	104	76	75	89	78	176	240	647	478	142	81	144
11	106	76	73	84	78	254	253	629	482	138	84	137
12	108	75	73	81	78	314	204	590	449	157	83	143
13	100	73	73	81	86	228	176	635	415	126	84	143
14	91	70	75	81	89	322	164	612	378	116	85	143
15	89	70	81	79	86	190	158	579	366	120	88	134
16	89	68	81	79	86	161	171	595	362	116	117	127
17	89	70	81	79	84	154	184	476	364	109	123	127
18	89	70	79	79	89	151	207	510	368	102	160	124
19	89	198	78	79	102	142	298	664	358	103	198	124
20	89	108	78	79	89	135	277	552	332	101	230	124
21	89	91	79	79	88	135	352	618	320	101	206	126
22	88	86	88	79	84	140	287	725	301	101	198	126
23	88	73	147	79	84	146	295	796	292	101	188	134
24	88	68	112	78	88	137	348	796	271	94	178	152
25	88	76	86	78	95	135	356	771	253	107	175	146
26	98	72	84	78	102	135	348	771	236	94	164	144
27	108	70	86	78	93	142	340	771	216	84	152	181
28	98	73	81	83	93	151	306	782	198	83	150	177
29	100	76	66	79	---	142	364	774	188	84	148	169
30	140	83	64	79	---	295	438	748	177	83	133	180
31	122	---	62	78	---	231	---	723	---	86	120	---
TOTAL	3211	2562	2514	2543	2346	5563	7337	20740	12111	3695	3909	4190
MEAN	104	85.4	81.1	82.0	83.8	179	245	669	404	119	126	140
MAX	161	198	147	120	102	322	438	810	668	182	230	181
MIN	88	68	62	64	70	135	158	429	177	83	79	95
AC-FT	6370	5080	4990	5040	4650	11030	14550	41140	24020	7330	7750	8310

CAL YR 1982	TOTAL	53684	MEAN	147	MAX	1060	MIN	35	AC-FT	106500
WTR YR 1983	TOTAL	70721	MEAN	194	MAX	810	MIN	62	AC-FT	140300

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

LOCATION.--Lat 41°44'35", long 111°45'40", in NE1/4NW1/4NE1/4 sec.31, T.12 N., R.2 E., Cache County, Hydrologic Unit 16010203, Cache National Forest, on left bank 487 ft downstream from head and 3.8 mi east of Logan.

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder and 8-ft concrete Parshall flume. Datum of gage is 4,858.69 ft NGVD of 1929 (Bureau of Public Roads bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 24.4 ft^3/s, 17,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft^3/s May 23, 1963, May 28, 1966; no flow at times most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	.18	1.9	1.5	1.8	1.5	1.3	.13	35	58	63	36
2	6.0	.13	1.8	1.5	1.8	1.5	1.3	.13	39	59	63	36
3	6.0	.10	1.8	1.5	1.7	1.5	1.3	.13	39	58	63	36
4	6.0	.13	1.8	1.5	1.6	1.5	1.3	.13	42	57	63	36
5	6.0	.13	1.8	1.5	1.6	1.6	1.3	.13	45	56	63	36
6	6.0	.13	1.8	1.6	1.7	1.8	1.3	.13	45	56	62	36
7	5.7	.13	1.8	1.7	1.7	1.8	1.3	.13	45	56	62	36
8	5.4	.11	1.6	1.8	1.6	1.8	1.3	.15	44	56	62	36
9	5.4	.07	1.5	1.7	1.6	1.8	1.3	.13	43	56	42	36
10	5.4	.07	1.5	2.2	1.5	1.8	1.3	.13	43	56	38	36
11	5.4	.07	1.5	2.8	1.5	1.8	1.3	.13	44	55	4.8	36
12	5.4	.12	1.5	2.6	1.5	1.8	1.3	.13	39	54	13	36
13	5.4	.13	1.4	2.6	1.5	1.8	1.3	.15	40	54	28	36
14	5.4	.13	1.3	2.7	1.5	1.6	1.3	.18	44	65	10	36
15	9.3	.10	1.3	2.6	1.5	1.6	1.3	.18	43	65	26	36
16	9.3	.07	1.5	2.6	1.5	1.5	1.3	.13	43	64	24	36
17	9.3	.07	1.5	2.4	1.5	1.5	1.3	.15	43	63	32	36
18	9.3	.07	1.5	2.4	1.5	1.5	1.2	.20	43	63	1.4	36
19	9.3	.07	1.5	2.4	1.5	1.5	.61	.23	43	62	1.9	36
20	9.3	.07	1.5	2.2	1.5	1.5	.34	.29	43	62	1.4	35
21	9.3	.07	1.5	2.2	1.5	1.5	.29	.36	43	61	1.5	13
22	9.3	.07	1.5	2.2	1.5	1.5	.20	.38	44	61	22	18
23	9.3	.07	1.5	2.2	1.5	1.5	.20	.29	56	61	22	18
24	9.3	.07	1.5	2.2	1.5	1.5	.17	22	56	61	22	17
25	9.3	.07	1.5	2.2	1.5	1.5	.13	28	58	58	22	16
26	9.3	.07	1.5	1.8	1.5	1.5	.13	20	68	52	21	16
27	9.3	1.4	1.5	1.8	1.5	1.5	.13	25	67	51	30	16
28	3.9	2.4	1.5	1.8	1.5	1.5	.13	7.1	67	51	36	16
29	.38	1.9	1.5	1.8	---	1.5	.13	18	59	51	36	16
30	.22	1.9	1.5	1.8	---	1.5	.13	15	58	51	36	16
31	.20	---	1.5	1.8	---	1.4	---	32	---	64	36	---
TOTAL	205.10	10.10	48.3	63.6	43.6	49.1	25.89	171.22	1421	1797	1008.0	881
MEAN	6.62	.34	1.56	2.05	1.56	1.58	.86	5.52	47.4	58.0	32.5	29.4
MAX	9.3	2.4	1.9	2.8	1.8	1.8	1.3	32	68	65	63	36
MIN	.20	.07	1.3	1.5	1.5	1.4	.13	.13	35	51	1.4	13
AC-FT	407	20	96	126	86	97	51	340	2820	3560	2000	1750

CAL YR 1982	TOTAL	8121.02	MEAN	22.2	MAX	71	MIN	.00	AC-FT	16110
WTR YR 1983	TOTAL	5723.91	MEAN	15.7	MAX	68	MIN	.07	AC-FT	11350

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'40", long 111°47'00", in NE1/4 sec.36, T.12 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.5 mi upstream from State dam, and 2.5 mi east of Logan.

DRAINAGE AREA.--214 mi^2.

PERIOD OF RECORD.--June 1896 to current year. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records, if records for Utah Power & Light Co.'s tailrace near Logan (station 10108000) are added. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft from topographic map. Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mi downstream at different datums. May 7, 1913, to Sept. 3, 1938, water-stage recorder at present site at different datums.

REMARKS.--Records good. Flow affected by regulation and diversions above station for power, irrigation, and municipal culinary supply. Utah Power and Light Co. stopped diverting water from river November 1970 at which time the tailrace station (station 10108000) was discontinued. During 1963, site for gaging station for Logan, Hyde Park and Smithfield Canal (station 10108400) was relocated. Records for combined flow since that time are equivalent to previous records. For record of combined flow, see following page.

AVERAGE DISCHARGE.--River only: 70 years (water years 1914-83), 133 ft^3/s, 96,360 acre-ft/yr.
Combined river and canal: 87 years, 273 ft^3/s, 197,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft^3/s Mar. 21, 1916, gage height, 5.6 ft, datum then in use, from rating curve extended above 1,000 ft^3/s; minimum daily, 6 ft^3/s Nov. 7, 1940.
Combined river and canal: Maximum discharge observed, 2,480 ft^3/s May 24, 1907; minimum daily, 50 ft^3/s Jan. 21, 1935.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 1,420 ft^3/s May 31, gage height, 5.82 ft; minimum, 72 ft^3/s Mar. 3.
Combined river and canal: Maximum daily discharge, 1,420 ft^3/s May 30; minimum daily, 128 ft^3/s Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	194	170	134	132	136	164	344	1210	948	388	266
2	220	190	166	134	134	140	166	342	1160	1010	378	266
3	213	183	164	140	128	136	170	350	1230	968	369	287
4	213	183	164	144	130	142	166	357	1320	915	363	266
5	208	183	162	142	132	142	164	413	1250	872	354	260
6	206	185	162	151	126	142	162	410	1270	845	344	255
7	204	183	162	156	136	140	162	384	1290	840	339	250
8	204	183	162	156	132	140	162	410	1320	831	333	253
9	201	183	160	149	134	138	162	446	1310	822	381	253
10	199	183	160	149	132	149	166	413	1300	826	357	245
11	194	179	160	149	130	145	174	407	1360	768	407	242
12	194	179	156	142	128	160	174	381	1330	721	369	240
13	192	172	160	144	132	166	172	366	1240	679	342	237
14	190	172	160	144	132	199	170	360	1110	642	350	235
15	188	170	160	142	128	185	166	354	1100	630	333	237
16	188	170	160	140	128	179	170	360	1110	607	342	232
17	190	170	160	144	128	168	179	344	1160	580	333	230
18	190	172	158	142	130	166	206	369	1200	553	363	230
19	188	183	158	138	136	164	225	420	1250	538	369	228
20	188	174	156	138	130	162	260	413	1220	524	369	225
21	188	174	156	138	130	160	274	443	1180	516	354	242
22	185	168	158	136	130	160	287	502	1180	498	321	240
23	185	166	160	138	130	160	298	595	1160	488	310	240
24	183	162	158	134	132	156	330	688	1170	470	307	242
25	183	168	149	136	134	154	333	804	1150	491	304	240
26	192	162	151	134	136	154	307	934	1110	498	298	237
27	194	162	158	136	134	154	287	1060	1080	457	284	250
28	192	164	156	142	132	154	279	1190	1060	436	279	255
29	194	168	140	136	---	151	298	1300	1030	426	276	245
30	199	170	130	140	---	156	324	1400	992	410	271	245
31	197	---	134	134	---	164	---	1360	---	394	268	---
TOTAL	6094	5255	4870	4382	3676	4822	6557	17919	35852	20203	10455	7373
MEAN	197	175	157	141	131	156	219	578	1195	652	337	246
MAX	232	194	170	156	136	199	333	1400	1360	1010	407	287
MIN	183	162	130	134	126	136	162	342	992	394	268	225
AC-FT	12090	10420	9660	8690	7290	9560	13010	35540	71110	40070	20740	14620

CAL YR 1982	TOTAL	123826	MEAN	339	MAX	1270	MIN	59	AC-FT	245600
WTR YR 1983	TOTAL	127458	MEAN	349	MAX	1400	MIN	126	AC-FT	252800

10109001 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM

AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	194	172	136	134	138	165	344	1250	1010	451	302
2	226	190	168	136	136	142	167	342	1200	1070	441	302
3	219	183	166	142	130	138	171	350	1270	1030	432	323
4	219	183	166	146	132	144	167	357	1360	972	426	302
5	214	183	164	144	134	144	165	413	1300	928	417	296
6	212	185	164	153	128	144	163	410	1320	901	406	291
7	210	183	164	158	138	142	163	384	1340	896	401	286
8	209	183	164	158	134	142	163	410	1360	887	395	289
9	206	183	162	151	136	140	163	446	1350	878	423	289
10	204	183	162	151	134	151	167	413	1340	882	395	281
11	199	179	162	152	132	147	175	407	1400	823	412	278
12	199	179	158	145	130	162	175	381	1370	775	382	276
13	197	172	161	147	134	168	173	366	1280	733	370	273
14	195	172	161	147	134	201	171	360	1150	707	360	271
15	197	170	161	145	130	187	167	354	1140	695	359	273
16	197	170	162	143	130	181	171	360	1150	671	366	268
17	199	170	162	146	130	170	180	344	1200	643	365	266
18	199	172	160	144	132	168	207	369	1240	616	364	266
19	197	183	160	140	138	166	226	420	1290	600	371	264
20	197	174	158	140	132	164	260	413	1260	586	370	260
21	197	174	158	140	132	162	274	443	1220	577	356	255
22	194	168	160	138	132	162	287	502	1220	559	343	258
23	194	166	162	140	132	162	298	595	1220	549	332	258
24	192	162	160	136	134	158	330	710	1230	531	329	259
25	192	168	151	138	136	156	333	832	1210	549	326	256
26	201	162	153	136	138	156	307	954	1180	550	319	253
27	203	163	160	138	136	156	287	1090	1150	508	314	266
28	196	166	158	144	134	156	279	1200	1130	487	315	271
29	194	170	142	138	---	153	298	1320	1090	477	312	261
30	199	172	132	142	---	158	324	1420	1050	461	307	261
31	197	---	136	136	---	165	---	1390	---	458	304	---
TOTAL	6292	5262	4929	4450	3732	4883	6576	18099	37270	22009	11463	8254
MEAN	203	175	159	144	133	158	219	584	1242	710	370	275
MAX	238	194	172	158	138	201	333	1420	1400	1070	451	323
MIN	192	162	132	136	128	138	163	342	1050	458	304	253
AC-FT	12480	10440	9780	8830	7400	9690	13040	35900	73930	43650	22740	16370

CAL YR 1982	TOTAL	131956	MEAN	362	MAX	1310	MIN	64	AC-FT	261700
WTR YR 1983	TOTAL	133219	MEAN	365	MAX	1420	MIN	128	AC-FT	264200

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION.--Lat 41°37'18", long 111°44'42", in NW1/4SE1/4NE1/4 sec.8, T.10 N., R.2 E., Cache County, Hydrologic Unit 16010203 on right bank 0.8 mi upstream from diversion dam, and 6 mi east of Hyrum.

DRAINAGE AREA.--268 mi^2.

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,000.60 ft NGVD of 1929, unadjusted. Prior to Oct. 2, 1934, at site 1,000 ft upstream at different datum.

REMARKS.--Records good. A few small diversions for irrigation of about 200 acres above station. Flow is slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--70 years, 129 ft^3/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft^3/s May 15, 1917, gage height, 6.5 ft from floodmarks, site and datum then in use, from rating curve extended above 800 ft^3/s; minimum, 4.7 ft^3/s Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 14	1200	228	3.68
Apr. 24	2200	358	4.16
May 9	0400	654	5.03
May 27	0300	*906	5.66

Minimum recorded, 47 ft^3/s Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	128	121	100	100	106	148	355	667	274	223	191
2	152	126	120	100	100	120	150	373	618	286	220	194
3	146	126	118	105	98	123	150	448	594	277	220	218
4	142	126	118	109	98	121	144	442	626	271	218	226
5	141	126	118	109	100	120	141	488	602	265	215	202
6	141	126	120	108	98	118	142	478	566	262	212	191
7	141	126	120	113	103	114	141	451	543	262	210	189
8	141	126	116	114	101	114	142	502	528	260	210	189
9	139	126	116	114	100	121	142	576	513	257	251	181
10	137	125	118	113	100	132	154	470	487	260	226	184
11	137	126	116	111	98	146	171	442	483	251	237	181
12	137	125	116	108	97	182	173	409	476	248	218	186
13	135	125	116	108	100	165	163	376	447	245	212	179
14	135	121	118	108	100	191	159	361	419	245	207	179
15	133	123	116	108	98	161	159	361	401	245	207	176
16	133	121	116	106	98	152	161	364	391	245	218	176
17	133	123	116	108	97	148	167	334	381	245	223	174
18	132	123	116	106	100	146	180	376	374	242	226	174
19	132	135	114	106	105	141	211	488	368	234	234	174
20	132	126	114	105	100	135	233	481	358	240	228	174
21	132	125	114	105	100	133	253	537	348	234	220	171
22	132	121	118	105	98	133	263	612	335	234	215	174
23	130	116	120	105	98	137	281	680	323	231	210	171
24	130	121	116	103	98	135	316	757	310	231	204	166
25	130	120	113	103	100	135	331	798	307	245	202	169
26	133	120	109	101	101	133	281	829	301	240	202	174
27	133	120	113	101	101	133	274	842	298	228	202	179
28	130	120	113	103	101	135	266	837	283	228	199	174
29	128	120	110	101	---	132	292	832	280	226	199	169
30	133	123	105	101	---	141	337	792	277	223	199	166
31	132	---	100	101	---	157	---	757	---	223	196	---
TOTAL	4218	3715	3574	3288	2788	4260	6125	16848	12904	7657	6663	5451
MEAN	136	124	115	106	99.6	137	204	543	430	247	215	182
MAX	156	135	121	114	105	191	337	842	667	286	251	226
MIN	128	116	100	100	97	106	141	334	277	223	196	166
AC-FT	8370	7370	7090	6520	5530	8450	12150	33420	25600	15190	13220	10810

CAL YR 1982	TOTAL	71104	MEAN	195	MAX	1240	MIN	32	AC-FT	141000
WTR YR 1983	TOTAL	77491	MEAN	212	MAX	842	MIN	97	AC-FT	153700

10117000 HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'51", long 112°03'24", in SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 3,600 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Prior to 1915, published as Hammond Ditch near Collingston. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from east side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Gage-height record and discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--69 years (water years 1913-81, 1983), 51.1 ft^3/s, 37,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft^3/s June 29, 1963, May 2, 1977; no flow at times in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	25	.00	.00	.00	.00	.00	.00	.00	168	123	80
2	38	.00	.00	.00	.00	.00	.00	.00	.00	167	129	80
3	38	.00	.00	.00	.00	.00	.00	.00	.00	168	130	73
4	38	.00	.00	.00	.00	.00	.00	.00	.00	168	131	72
5	38	.00	.00	.00	.00	.00	.00	.00	.00	167	132	73
6	37	.00	.00	.00	.00	.00	.00	.00	.00	167	132	64
7	37	.00	.00	.00	.00	.00	.00	.00	.00	167	131	55
8	37	.00	.00	.00	.00	.00	.00	.00	.00	167	129	64
9	37	.00	.00	.00	.00	.00	.00	.00	.00	169	129	63
10	37	.00	.00	.00	.00	.00	.00	.00	.00	168	126	63
11	37	.00	.00	.00	.00	.00	.00	.00	.00	169	127	63
12	37	.00	.00	.00	.00	.00	.00	.00	.00	165	126	62
13	37	.00	.00	.00	.00	.00	.00	.00	.00	165	127	61
14	38	.00	.00	.00	.00	.00	.00	.00	.00	158	128	62
15	38	.00	.00	.00	.00	.00	.00	.00	.00	161	129	61
16	38	.00	.00	.00	.00	.00	.00	.00	.00	161	129	60
17	38	.00	.00	.00	.00	.00	.00	.00	113	156	124	60
18	38	.00	.00	.00	.00	.00	.00	.00	142	157	108	60
19	39	.00	.00	.00	.00	.00	.00	.00	149	156	89	60
20	39	.00	.00	.00	.00	.00	.00	.00	158	158	78	59
21	39	.00	.00	.00	.00	.00	.00	.00	157	159	60	61
22	40	.00	.00	.00	.00	.00	.00	.00	157	159	59	61
23	40	.00	.00	.00	.00	.00	.00	.00	156	156	59	60
24	40	.00	.00	.00	.00	.00	.00	.00	159	153	58	61
25	41	.00	.00	.00	.00	.00	.00	.00	158	147	58	60
26	41	.00	.00	.00	.00	.00	.00	.00	159	139	65	60
27	41	.00	.00	.00	.00	.00	.00	.00	157	133	72	57
28	41	.00	.00	.00	.00	.00	.00	.00	162	129	71	48
29	42	.00	.00	.00	---	.00	.00	.00	166	125	72	42
30	42	.00	.00	.00	---	.00	.00	.00	169	122	72	42
31	42	---	.00	.00	---	.00	---	.00	---	123	77	---
TOTAL	1207	25.00	.00	.00	.00	.00	.00	.00	2162.00	4827	3180	1847
MEAN	38.9	.83	.00	.00	.00	.00	.00	.00	72.1	156	103	61.6
MAX	42	25	.00	.00	.00	.00	.00	.00	169	169	132	80
MIN	37	.00	.00	.00	.00	.00	.00	.00	.00	122	58	42
AC-FT	2390	50	.00	.00	.00	.00	.00	.00	4290	9570	6310	3660

CAL YR 1982	TOTAL	18755.00	MEAN	51.4	MAX	166	MIN	.00	AC-FT	37200
WTR YR 1983	TOTAL	13248.00	MEAN	36.3	MAX	169	MIN	.00	AC-FT	26280

10117000 HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	45	.00	.00	.00	.00	.00	.00	132	163	117	136
2	90	45	.00	.00	.00	.00	.00	.00	137	164	117	134
3	90	46	.00	.00	.00	.00	.00	.00	139	162	123	133
4	90	46	.00	.00	.00	.00	.00	.00	142	162	127	135
5	86	46	.00	.00	.00	.00	.00	.00	141	162	126	135
6	80	17	.00	.00	.00	.00	.00	.00	127	163	124	135
7	80	1.9	.00	.00	.00	.00	.00	.00	139	161	124	133
8	80	1.5	.00	.00	.00	.00	.00	.00	140	163	128	121
9	76	1.1	.00	.00	.00	.00	.00	.00	140	161	139	118
10	59	.65	.00	.00	.00	.00	.00	.00	141	163	143	116
11	59	.20	.00	.00	.00	.00	.00	.00	141	163	151	105
12	58	.00	.00	.00	.00	.00	.00	.00	141	163	155	103
13	53	.00	.00	.00	.00	.00	.00	.00	150	161	157	96
14	53	.00	.00	.00	.00	.00	.00	.00	150	161	158	91
15	53	.00	.00	.00	.00	.00	.00	.00	150	162	158	87
16	51	.00	.00	.00	.00	.00	.00	.00	154	160	156	84
17	51	.00	.00	.00	.00	.00	.00	.00	154	158	154	81
18	51	.00	.00	.00	.00	.00	.00	.00	155	159	156	81
19	50	.00	.00	.00	.00	.00	.00	.00	156	159	156	79
20	43	.00	.00	.00	.00	.00	.00	.00	152	160	157	79
21	43	.00	.00	.00	.00	.00	.00	.00	160	159	157	83
22	45	.00	.00	.00	.00	.00	.00	.00	162	160	157	88
23	45	.00	.00	.00	.00	.00	.00	.00	165	161	158	87
24	45	.00	.00	.00	.00	.00	.00	1.0	163	161	159	84
25	45	.00	.00	.00	.00	.00	.00	81	166	152	157	78
26	45	.00	.00	.00	.00	.00	.00	131	164	130	156	71
27	45	.00	.00	.00	.00	.00	.00	142	165	127	155	61
28	45	.00	.00	.00	.00	.00	.00	152	165	134	155	44
29	45	.00	.00	.00	---	.00	.00	122	166	126	142	44
30	45	.00	.00	.00	---	.00	.00	130	163	110	129	43
31	45	---	.00	.00	---	.00	---	129	---	109	140	---
TOTAL	1836	250.35	.00	.00	.00	.00	.00	888.00	4520	4759	4491	2865
MEAN	59.2	8.34	.00	.00	.00	.00	.00	28.6	151	154	145	95.5
MAX	90	46	.00	.00	.00	.00	.00	152	166	164	159	136
MIN	43	.00	.00	.00	.00	.00	.00	.00	127	109	117	43
AC-FT	3640	497	.00	.00	.00	.00	.00	1760	8970	9440	8910	5680

WTR YR 1982 TOTAL 19609.35 MEAN 53.7 MAX 166 MIN .00 AC-FT 38900

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'55", 112°03'36", in SW1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 4,200 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from west side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Gage-height record and discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--69 years (water years 1913-81, 1983), 246 ft^3/s, 178,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 766 ft^3/s July 8, 1983; no flow for periods in every year except 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	134	6.5	.00	.00	.00	.00	.00	.00	743	619	482
2	104	105	6.2	.00	.00	.00	.00	.00	.00	723	620	506
3	104	104	6.2	.00	.00	.00	.00	.00	.00	698	625	507
4	104	103	6.5	.00	.00	.00	.00	.00	.00	700	619	497
5	106	103	6.6	.00	.00	.00	.00	.00	.00	704	623	447
6	111	103	6.8	.00	.00	.00	.00	.00	.00	723	631	426
7	111	103	7.4	.00	.00	.00	.00	.00	.00	727	625	425
8	110	103	9.2	.00	.00	.00	.00	.00	364	724	628	406
9	109	103	7.0	.00	.00	.00	.00	.00	422	728	625	406
10	109	102	7.3	.00	.00	.00	.00	.00	425	695	627	406
11	110	101	7.5	.00	.00	.00	.00	.00	428	694	624	406
12	110	101	7.6	.00	.00	.00	.00	.00	434	692	623	408
13	110	101	7.8	.00	.00	.00	.00	.00	437	709	625	411
14	110	108	7.9	.00	.00	.00	.00	.00	438	715	630	411
15	124	102	8.1	.00	.00	.00	.00	.00	471	701	620	399
16	153	101	8.2	.00	.00	.00	.00	.00	494	688	618	400
17	153	101	.00	.00	.00	.00	.00	.00	522	688	605	401
18	153	102	.00	.00	.00	.00	.00	.00	556	698	427	396
19	152	102	.00	.00	.00	.00	.00	.00	585	725	409	402
20	153	103	.00	.00	.00	.00	.00	.00	610	734	321	405
21	154	104	.00	.00	.00	.00	.00	.00	629	737	312	400
22	153	104	.00	.00	.00	.00	.00	.00	666	734	309	396
23	152	78	.00	.00	.00	.00	.00	.00	675	704	316	399
24	151	6.2	.00	.00	.00	.00	.00	.00	718	701	316	402
25	152	4.8	.00	.00	.00	.00	.00	.00	741	652	316	398
26	152	5.1	.00	.00	.00	.00	.00	.00	749	611	316	345
27	151	5.3	.00	.00	.00	.00	.00	.00	751	594	367	279
28	151	5.4	.00	.00	.00	.00	.00	.00	751	593	392	229
29	151	5.5	.00	.00	---	.00	.00	.00	745	598	407	229
30	152	6.0	.00	.00	---	.00	.00	.00	745	603	434	229
31	152	---	.00	.00	---	.00	---	.00	---	623	473	---
TOTAL	4070	2409.3	116.80	.00	.00	.00	.00	.00	13356.00	21359	15702	11853
MEAN	131	80.3	3.77	.00	.00	.00	.00	.00	445	689	507	395
MAX	154	134	9.2	.00	.00	.00	.00	.00	751	743	631	507
MIN	103	4.8	.00	.00	.00	.00	.00	.00	.00	593	309	229
AC-FT	8070	4780	232	.00	.00	.00	.00	.00	26490	42370	31140	23510

CAL YR 1982	TOTAL	91938.10	MEAN	252	MAX	766	MIN	.00	AC-FT	182400
WTR YR 1983	TOTAL	68866.10	MEAN	189	MAX	751	MIN	.00	AC-FT	136600

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	399	123	.00	.00	.00	.00	.00	.00	645	756	506	600
2	361	123	.00	.00	.00	.00	.00	.00	598	761	532	608
3	359	123	.00	.00	.00	.00	.00	.00	565	762	551	616
4	359	124	.00	.00	.00	.00	.00	.00	605	759	579	614
5	359	124	.00	.00	.00	.00	.00	.00	624	763	613	616
6	359	124	.00	.00	.00	.00	.00	.00	629	764	626	620
7	359	124	.00	.00	.00	.00	.00	.00	628	760	664	622
8	358	124	.00	.00	.00	.00	.00	.00	646	766	690	624
9	358	124	.00	.00	.00	.00	.00	.00	682	754	685	620
10	331	124	.00	.00	.00	.00	.00	.00	703	726	685	585
11	329	124	.00	.00	.00	.00	.00	.00	703	728	686	558
12	318	124	.00	.00	.00	.00	.00	.00	713	694	686	557
13	229	123	.00	.00	.00	.00	.00	.00	715	707	681	515
14	231	123	.00	.00	.00	.00	.00	.00	718	726	677	470
15	224	122	.00	.00	.00	.00	.00	.00	724	727	679	461
16	164	121	.00	.00	.00	.00	.00	.00	725	705	670	437
17	162	121	.00	.00	.00	.00	.00	267	731	690	688	428
18	163	120	.00	.00	.00	.00	.00	373	746	688	707	426
19	131	91	.00	.00	.00	.00	.00	455	752	688	709	429
20	116	88	.00	.00	.00	.00	.00	522	754	687	728	429
21	116	88	.00	.00	.00	.00	.00	591	750	687	712	428
22	117	88	.00	.00	.00	.00	.00	623	746	688	726	423
23	119	88	.00	.00	.00	.00	.00	675	749	688	725	424
24	119	88	.00	.00	.00	.00	.00	697	762	684	724	427
25	119	88	.00	.00	.00	.00	.00	696	754	585	706	423
26	119	88	.00	.00	.00	.00	.00	690	751	583	683	285
27	120	87	.00	.00	.00	.00	.00	704	755	584	681	105
28	121	87	.00	.00	.00	.00	.00	581	756	562	644	102
29	124	87	.00	.00	---	.00	.00	680	755	511	591	101
30	124	69	.00	.00	---	.00	.00	677	755	507	610	100
31	123	---	.00	.00	---	.00	---	674	---	501	610	---
TOTAL	6990	3252	.00	.00	.00	.00	.00	8905.00	21139	21191	20454	13653
MEAN	225	108	.00	.00	.00	.00	.00	287	705	684	660	455
MAX	399	124	.00	.00	.00	.00	.00	704	762	766	728	624
MIN	116	69	.00	.00	.00	.00	.00	.00	565	501	506	100
AC-FT	13860	6450	.00	.00	.00	.00	.00	17660	41930	42030	40570	27080

WTR YR 1982 TOTAL 95584.00 MEAN 262 MAX 766 MIN .00 AC-FT 189600

10118000 BEAR RIVER NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'03", long 112°03'16", in NW1/4SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 mi north of Collinston.

DRAINAGE AREA.--6,267 mi^2.

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

REMARKS.--Records good. Natural flow of stream affected by storage reservoir, power developments, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Discharge measurements furnished by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 11,600 ft^3/s June 7-10, 1909, gage height, 7.70 ft, site and datum then in use; minimum daily, 10 ft^3/s Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,490 ft^3/s June 1, gage height, 7.33 ft; minimum daily, 650 ft^3/s Aug. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3620	2740	2930	1750	2870	3070	3350	4550	8320	5190	2920	2660
2	3400	2590	2850	1610	2670	3670	3320	5110	8390	5080	1900	2960
3	3100	2950	2930	1610	2830	3870	3250	5490	8260	5040	2710	3130
4	3020	2870	2880	1940	2280	3870	3330	5780	8180	5150	2830	3150
5	3030	3000	2930	1890	2850	3870	3330	5770	8210	5300	714	3060
6	2860	2920	2930	1730	2300	3850	3340	5760	8050	5300	1210	3210
7	3610	2950	2920	2680	2260	3830	3340	5760	7800	5290	1510	3220
8	3740	2770	2860	2910	2580	3710	3280	5760	7420	5120	1700	3160
9	3510	2950	2890	2920	2110	3680	3180	5450	7240	4850	2180	3160
10	3050	2900	2890	2980	2340	3550	3150	5380	7210	4830	2700	3190
11	2790	2920	2900	3260	2330	3400	3170	5380	7180	4840	1770	3200
12	2810	2930	2890	3280	1940	3410	3180	5400	7390	4850	2420	2900
13	2780	2820	2890	3220	2550	3640	3390	5630	7650	4860	2130	1110
14	2870	2350	2900	3010	2810	3840	3510	5230	7670	4710	2740	1930
15	2680	2370	2900	2870	2920	3860	3390	5180	7460	4300	2420	2890
16	2530	2580	2510	2810	2910	4780	3120	4890	7030	4270	650	2730
17	2340	2600	2890	2730	3050	4800	3140	4850	6710	4070	2640	2380
18	2590	2850	2830	1940	2850	4770	3080	4860	6270	3870	2940	2870
19	1890	2870	2220	2560	3140	4190	3050	5290	6100	3470	3280	2870
20	2310	2740	2820	2460	3130	4130	3270	5490	6070	3100	3750	2170
21	2400	2870	2190	2480	3030	3820	3440	5560	6180	3000	3880	2600
22	2330	2930	2590	2370	3070	3800	3620	5550	6420	2810	3900	2860
23	2000	3090	2320	2240	2530	3800	3810	5530	6630	2740	3920	2480
24	2140	2980	2790	2620	2500	3800	3840	5560	6470	2770	3910	2480
25	2510	2970	2910	2720	2910	3730	3860	5680	6420	2830	4150	2890
26	2490	2960	2870	2650	2850	3700	4930	6140	6410	3130	4280	2890
27	2760	2950	2570	2080	2890	3520	4930	6840	6210	3160	4250	3060
28	2500	2940	2060	2600	2910	3560	4920	7200	5930	2780	4030	3380
29	2400	2940	1510	2530	---	3560	4540	7600	5650	1830	3210	2900
30	2750	2800	1950	2760	---	3410	4540	7910	5410	2880	3000	3620
31	2740	---	1530	2780	---	3390	---	8150	---	2920	3000	---
TOTAL	85550	85100	82050	77990	75410	117880	107600	178730	210340	124340	86644	85110
MEAN	2760	2837	2647	2516	2693	3803	3587	5765	7011	4011	2795	2837
MAX	3740	3090	2930	3280	3140	4800	4930	8150	8390	5300	4280	3620
MIN	1890	2350	1510	1610	1940	3070	3050	4550	5410	1830	650	1110
AC-FT	169700	168800	162700	154700	149600	233800	213400	354500	417200	246600	171900	168800

CAL YR 1982 TOTAL 862832 MEAN 2364 MAX 7090 MIN 25 AC-FT 1711000
WTR YR 1983 TOTAL 1316744 MEAN 3608 MAX 8390 MIN 650 AC-FT 2612000

10118000 BEAR RIVER NEAR COLLINSTON, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	21	29	1420	1430	2400	3160	5300	4140	1190	1440	1680
2	324	711	1130	976	1460	2160	3020	5360	3930	1170	1090	1580
3	318	21	850	1420	1460	2660	2750	5520	3700	1210	909	1130
4	25	630	948	1430	1460	2970	2730	6100	3510	858	2410	1710
5	273	123	977	1090	1460	2690	2640	6760	3420	73	1180	1300
6	829	659	569	882	1460	2710	2640	7090	3310	733	1300	992
7	170	366	615	786	1460	1700	2420	6330	3290	310	1430	1250
8	198	336	516	965	1460	2430	2510	6110	3010	117	33	1090
9	220	546	1260	1040	1470	2010	2540	6040	2810	117	953	1230
10	910	881	422	655	1470	1710	2620	5900	2740	151	914	1750
11	1050	754	1280	955	1470	1830	2560	5820	2660	28	453	1720
12	1270	1440	423	745	1470	2350	2820	5590	2540	827	32	1570
13	270	1430	897	1010	1470	2890	3330	5270	1960	271	524	1860
14	1120	880	302	984	1470	2990	3880	5090	2860	654	829	2440
15	910	654	1010	1370	1480	3040	4010	4660	2390	282	759	1340
16	1380	1010	1000	1370	1780	3320	4270	4430	2820	475	1520	2850
17	1590	486	984	1260	2190	3720	4320	4450	2760	69	971	1740
18	1540	680	1450	995	2730	3900	3880	4300	2770	171	286	2640
19	1340	1040	976	1040	2560	3950	3720	4320	2750	28	654	1350
20	1380	750	704	731	1800	3660	3610	4460	2740	28	597	2080
21	309	484	1030	860	2630	2940	3540	4560	1960	27	833	2180
22	1070	655	1040	1440	3580	2450	3480	4470	1540	27	428	2450
23	956	848	1390	1440	3830	1790	3460	4500	2020	26	163	2150
24	394	688	1440	738	3210	2510	3310	4290	2040	26	827	1940
25	1280	882	669	855	2990	1920	3330	4440	1740	25	913	2130
26	61	1080	1440	1450	2800	2100	3640	4270	1520	25	516	2100
27	255	968	816	1450	2480	1970	3990	3900	1730	758	1020	3280
28	650	629	438	1450	2360	2140	4010	4460	1520	1270	730	3300
29	355	400	874	1450	---	2090	4390	4770	1530	2390	323	3710
30	983	300	823	1350	---	2810	4810	4750	861	1550	929	3550
31	1100	---	1140	1100	---	2370	---	4450	---	1470	1220	---
TOTAL	22551	20352	27442	34707	56890	80180	101390	157760	76571	16356	26186	60092
MEAN	727	678	885	1120	2032	2586	3380	5089	2552	528	845	2003
MAX	1590	1440	1450	1450	3830	3950	4810	7090	4140	2390	2410	3710
MIN	21	21	29	655	1430	1700	2420	3900	861	25	32	992
AC-FT	44730	40370	54430	68840	112800	159000	201100	312900	151900	32440	51940	119200

WTR YR 1982	TOTAL	680477	MEAN	1864	MAX	7090	MIN	21	AC-FT	1350000
CAL YR 1981	TOTAL	289483	MEAN	793	MAX	3720	MIN	7.2	AC-FT	574200

10126000 BEAR RIVER NEAR CORINNE, UT

LOCATION.--Lat 41°34'35", long 112°06'00", in NE1/4SE1/4NE1/4 sec.30, T.10 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 1.2 mi downstream from Salt Creek, 2.0 mi northeast of Corinne, and 2.8 mi downstream from Malad River.

DRAINAGE AREA.--7,029 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records fair. Natural flow of stream affected by upstream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--28 years, 1,800 ft^3/s, 1,304,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,770 ft^3/s June 4, 1983, gage height, 16.59 ft; minimum daily, 72 ft^3/s Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,770 ft^3/s June 4, gage height, 16.59 ft; minimum daily, 1,270 ft^3/s Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DISCHARGE (CUBIC FEET/SECOND) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3860	3000	3240	2590	3090	3440	3820	5120	8740	5660	2970	3300
2	3910	3020	3270	3120	3040	3680	3760	5130	9290	5430	2980	3140
3	3670	2970	3230	3060	3060	4240	3730	5400	9640	5250	2210	3190
4	3380	3080	3220	3040	3000	4580	3660	5770	9750	5140	2610	3420
5	3220	3090	3220	3090	2720	4760	3690	6110	9640	5200	2810	3460
6	3240	3160	3240	3050	3040	4740	3700	6410	9570	5310	1360	3410
7	3080	3130	3260	3100	2730	4620	3690	6500	9570	5350	1270	3480
8	3600	3090	3230	3770	2630	4490	3670	6490	9230	5340	1630	3520
9	3840	3040	3200	4000	2750	4300	3600	6440	8800	5240	1950	3490
10	3680	3100	3190	3830	2440	4180	3490	6310	8380	5040	2350	3440
11	3270	3110	3240	3790	2510	4020	3470	6120	8140	4900	2550	3420
12	3060	3120	3270	3890	2550	3860	3470	6060	8020	4860	2090	3380
13	3020	3120	3170	3820	2400	3820	3470	6020	8030	4850	2330	3000
14	2980	2820	3160	3690	2940	4030	3650	6070	8230	4850	2310	1670
15	3010	2850	3160	3510	3220	4180	3760	5990	8360	4660	2650	1750
16	2970	2810	3150	3370	3320	4240	3550	5840	8310	4430	2480	2820
17	2810	2860	2920	3270	3320	4800	3490	5590	8020	4340	2550	2710
18	2650	2670	3130	2900	3370	5200	3380	5410	7560	4130	3060	2550
19	2640	3090	2950	2420	3320	5280	3320	5420	7140	3910	3420	2890
20	2510	3150	2740	2610	3520	4950	3240	5670	6780	3510	3670	2940
21	2350	3150	2780	2840	3530	4650	3510	5930	6580	3170	4020	2420
22	2550	3020	2770	2550	3430	4410	3670	6220	6520	3050	4150	2600
23	2730	3150	2850	2710	3460	4380	3840	6200	6590	2800	4150	2930
24	2710	3250	2990	2640	3060	4410	4020	6220	6760	2840	4150	2590
25	2070	3240	3240	2820	2910	4350	4080	6200	6840	2910	4160	2710
26	2450	3170	3270	2990	3300	4270	4110	6250	6780	3080	4340	2990
27	2920	3150	3400	2640	3370	4190	4680	6460	6720	3240	4440	3090
28	2790	3150	3200	2660	3400	4080	5100	6830	6580	3320	4440	3300
29	2990	3150	3290	2850	---	4020	5220	7240	6350	3020	4250	3420
30	2700	3220	3340	3000	---	4010	5130	7730	6030	2240	3710	3310
31	2940	---	3130	3100	---	3900	---	8210	---	2700	3320	---
TOTAL	93600	91930	97450	96720	85430	134080	114970	191360	236950	129770	94380	90340
MEAN	3019	3064	3144	3120	3051	4325	3832	6173	7898	4186	3045	3011
MAX	3910	3250	3400	4000	3530	5280	5220	8210	9750	5660	4440	3520
MIN	2070	2670	2740	2420	2400	3440	3240	5120	6030	2240	1270	1670
ACFT	185700	182300	193300	191800	169500	265900	228000	379600	470000	257400	187200	179200

WTR YR 1983 TOTAL 1456980 MEAN 3992 MAX 9750 MIN 1270 ACFT 2890000

10126000 BEAR RIVER NEAR CORINNE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to current year.
SPECIFIC CONDUCTANCE: April 1976 to September 1981, once daily (discontinued).
WATER TEMPERATURES: October 1974 to September 1981, once daily (discontinued).
SEDIMENT DATA: October 1976 to current year, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 6,140 micromhos July 5, 1979; minimum daily, 440 micromhos May 25, 1978.
WATER TEMPERATURES: Maximum, 30.0°C July 27, 28, 1978; minimum, 0.0°C on many days during winter period each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
23...	1215	3140	940	8.2	3.0	4.0	1.5	11.4	665	250
MAR										
07...	1430	4580	900	8.0	4.0	6.0	46	8.7	655	160
MAY										
11...	1030	5880	790	8.2	0.0	10.0	45	8.3	650	--
JUN										
21...	1130	6750	640	8.0	19.0	24.0	33	6.4	652	960

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV									
23...	400	290	5.7	58	34	75	36	2.0	8.6
MAR									
07...	490	270	5.5	52	35	81	38	2.2	10
MAY									
11...	--	250	5.0	55	27	68	36	1.9	8.1
JUN									
21...	220	220	4.4	54	21	46	30	1.4	5.5

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV									
23...	270	55	110	0.2	11	516	514	0.7	4370
MAR									
07...	260	62	110	0.3	14	515	521	0.7	6370
MAY									
11...	230	42	87	0.2	12	440	438	0.6	6990
JUN									
21...	220	28	64	0.2	9.9	366	362	0.5	6670

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV									
23...	0.65	0.16	0.21	1.30	0.11	0.34	0.07	0.04	0.12
MAR									
07...	0.9	0.15	0.19	1.20	0.18	0.55	0.08	0.12	0.37
MAY									
11...	0.83	0.16	0.21	1.40	0.31	0.95	0.07	0.05	0.15
JUN									
21...	--	--	--	--	--	--	--	--	--

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 23...	1215	20	3	76	<1	<1	<1	<3	3	11	3
MAR 07...	1430	30	4	72	<1	<1	<1	<3	3	34	7
MAY 10...	1030	20	4	71	<1	<1	<1	<3	1	27	7
JUN 21...	1130	30	3	70	<1	<1	<1	<3	3	18	3

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 23...	75	4	1.6	<10	<1	1	1	390	<6.0	20
MAR 07...	75	10	<.1	<10	3	<1	<1	360	<6.0	9
MAY 10...	60	4	.3	<10	<1	1	<1	340	<6.0	13
JUN 21...	41	4	1.3	<10	1	<1	<1	300	<6.0	11

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
MAY 11...	1030	5880	10.0	21	195	3100

10126180 SULPHUR CREEK NEAR CORINNE, UT

LOCATION.--Lat 41°34'25", long 112°13'07", in SW1/4SE1/4NE1/4 sec.30, T.10 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 100 ft downstream from bridge on State Highway 83 and 6 mi northwest of Corinne.

DRAINAGE AREA.--15.4 mi^2.

PERIOD OF RECORD.--September 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,228.8 ft.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 65.2 ft^3/s, 47,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 243 ft^3/s Aug. 20, 1983, gage height, 2.64 ft; minimum, 8.6 ft^3/s Feb. 8, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 243 ft^3/s Aug. 20, gage height, 2.64 ft; minimum daily, 12 ft^3/s Apr. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	93	71	19	26	52	31	111	45	70	100	89
2	109	93	73	18	23	60	22	149	51	76	89	90
3	91	89	70	17	23	78	21	157	49	80	88	118
4	72	86	68	16	22	79	19	149	49	88	102	125
5	66	84	67	16	19	77	17	125	49	87	93	116
6	58	80	68	16	19	69	16	118	50	82	84	107
7	55	78	71	20	17	50	16	112	70	79	78	96
8	52	75	68	22	17	40	15	98	81	79	92	90
9	66	74	66	27	18	35	12	82	83	78	88	87
10	70	74	63	22	18	32	15	73	81	81	92	83
11	70	74	59	21	18	34	17	71	81	86	93	78
12	67	71	58	20	18	35	15	71	85	95	85	80
13	67	71	56	19	29	34	13	68	86	84	87	83
14	72	72	54	18	58	47	13	65	83	78	97	83
15	83	71	37	18	68	39	14	64	77	74	94	84
16	84	70	32	18	62	34	14	67	75	77	92	82
17	80	70	29	16	61	37	15	65	71	74	108	73
18	79	70	27	16	51	52	21	63	65	77	149	68
19	77	84	26	16	55	61	21	60	66	67	228	70
20	77	83	24	16	58	46	17	26	66	71	226	68
21	77	79	24	18	56	39	26	21	63	71	187	68
22	77	78	28	18	55	35	28	19	59	74	166	76
23	76	73	41	19	50	66	45	19	50	77	142	82
24	75	65	46	18	57	84	45	18	47	84	119	84
25	75	56	42	18	66	60	47	18	52	88	93	80
26	83	53	34	18	73	49	53	18	53	93	88	80
27	89	50	31	20	64	44	55	18	54	91	86	98
28	85	49	27	29	54	43	60	17	48	86	87	91
29	84	48	25	42	---	39	55	17	48	83	85	75
30	88	59	21	31	---	36	70	18	49	73	84	84
31	93	---	21	28	---	35	---	34	---	89	85	---
TOTAL	2410	2172	1427	630	1155	1521	828	2011	1886	2492	3387	2588
MEAN	77.7	72.4	46.0	20.3	41.3	49.1	27.6	64.9	62.9	80.4	109	86.3
MAX	113	93	73	42	73	84	70	157	86	95	228	125
MIN	52	48	21	16	17	32	12	17	45	67	78	68
AC-FT	4780	4310	2830	1250	2290	3020	1640	3990	3740	4940	6720	5130

CAL YR 1982	TOTAL	23087.5	MEAN	63.3	MAX	168	MIN	9.0	AC-FT	45790
WTR YR 1983	TOTAL	22507	MEAN	61.7	MAX	228	MIN	12	AC-FT	44640

10127040 SALT SPRING NEAR TREMONTON, UT

LOCATION.--Lat 41°42'44", long 112°13'38", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, 3 mi west of Tremonton.

PERIOD OF RECORD.--July 1979 to current year.

REMARKS.--Records fair. Record is computed by subtracting water diverted from the West Side Canal into Salt Spring from the record for station 10127050.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 32 ft^3/s July 24-29, 1979; minimum daily, 17 ft^3/s Nov. 14-20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 27 ft^3/s May 19-28; minimum daily, 20 ft^3/s Sept. 14-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	24	23	23	24	22	22	24	26	24	24	22
2	25	24	23	23	24	22	22	24	26	24	24	22
3	25	24	23	23	24	22	22	24	26	24	24	22
4	25	24	23	23	24	22	22	25	26	24	24	22
5	25	24	23	23	24	22	22	25	26	24	24	22
6	25	24	23	24	24	22	22	25	26	24	24	22
7	25	24	23	24	24	22	22	26	26	24	24	21
8	25	24	23	24	24	22	22	26	26	24	24	21
9	25	24	23	24	24	22	22	26	26	24	24	21
10	24	24	23	24	23	22	23	26	25	24	24	21
11	24	24	23	24	23	22	23	26	25	24	24	21
12	24	24	23	24	23	22	23	26	25	24	24	21
13	24	24	23	24	22	22	23	26	25	24	24	21
14	24	24	23	24	22	22	23	26	25	24	24	20
15	24	24	23	24	22	22	23	26	25	24	24	20
16	24	24	23	24	22	22	23	26	25	24	24	20
17	24	24	23	24	22	22	23	26	25	24	24	20
18	24	24	23	24	22	22	23	26	25	24	24	20
19	24	24	23	24	22	22	23	27	25	24	24	20
20	24	24	23	24	22	22	23	27	25	24	24	20
21	24	24	23	24	21	22	23	27	25	24	23	20
22	24	24	23	24	21	22	23	27	24	24	23	20
23	24	24	23	24	21	22	23	27	24	24	23	20
24	24	24	23	24	21	22	23	27	24	24	23	20
25	24	24	23	24	21	22	23	27	24	24	23	20
26	24	24	23	24	22	22	24	27	24	24	23	20
27	24	24	23	24	22	22	24	27	24	24	23	20
28	24	24	23	24	22	22	24	27	24	24	23	20
29	24	24	23	24	---	22	24	26	24	24	23	20
30	24	24	23	24	---	22	24	26	24	24	22	20
31	24	---	23	24	---	22	---	26	---	24	22	---
TOTAL	753	720	713	739	632	682	686	807	750	744	731	619
MEAN	24.3	24.0	23.0	23.8	22.6	22.0	22.9	26.0	25.0	24.0	23.6	20.6
MAX	25	24	23	24	24	22	24	27	26	24	24	22
MIN	24	24	23	23	21	22	22	24	24	24	22	20
AC-FT	1490	1430	1410	1470	1250	1350	1360	1600	1490	1480	1450	1230

CAL YR 1982	TOTAL	8086	MEAN	22.2	MAX	25	MIN	18	AC-FT	16040
WTR YR 1983	TOTAL	8576	MEAN	23.5	MAX	27	MIN	20	AC-FT	17010

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT

LOCATION.--Lat 41°42'41", long 112°13'36", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 250 ft below Salt Spring and 3 mi west of Tremonton.

PERIOD OF RECORD.--July 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 184 ft^3/s Feb. 18, 1980, gage height, 6.12 ft; minimum, 19 ft^3/s Apr. 29, 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 135 ft^3/s June 6, gage height, 4.70 ft; minimum daily, 22 ft^3/s several days in February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	62	25	24	25	37	25	27	28	50	68	27
2	69	54	24	24	25	62	26	28	28	65	44	38
3	66	52	23	24	25	69	26	27	28	60	31	64
4	66	52	24	24	26	41	26	27	29	59	39	90
5	65	51	26	25	24	36	25	27	34	49	46	85
6	66	50	23	26	24	30	25	26	67	47	45	84
7	66	51	23	26	24	28	24	26	116	41	37	84
8	66	51	23	26	24	28	24	27	107	41	45	86
9	66	51	23	27	23	26	24	27	117	63	48	88
10	65	50	23	26	23	25	25	27	119	112	36	81
11	65	49	23	26	23	25	26	27	109	70	30	73
12	65	48	23	25	23	25	30	27	107	38	36	62
13	67	46	23	25	22	25	26	28	103	35	43	57
14	64	41	23	25	22	30	24	27	97	32	46	61
15	53	41	24	25	23	29	24	27	84	49	42	65
16	60	42	25	25	30	25	24	27	59	50	37	58
17	66	41	26	25	28	25	24	27	58	53	72	52
18	64	40	27	25	24	26	24	27	46	45	98	52
19	61	42	25	25	23	27	24	28	34	36	120	55
20	61	42	26	25	23	26	24	30	35	36	123	60
21	62	42	26	25	22	25	24	29	32	46	105	62
22	62	41	25	25	22	24	25	29	31	44	104	62
23	62	82	25	25	22	26	26	29	30	49	102	62
24	62	80	24	25	22	32	25	28	32	70	99	62
25	62	47	24	25	22	30	24	28	34	97	86	68
26	62	31	24	25	30	27	24	28	38	118	76	75
27	62	28	23	25	42	26	24	28	40	97	69	95
28	61	26	23	25	34	26	25	28	41	88	66	105
29	61	25	23	25	---	27	25	27	36	92	61	89
30	62	26	23	25	---	26	26	28	42	90	38	90
31	62	---	24	25	---	26	---	27	---	79	37	---
TOTAL	1973	1384	746	778	700	940	748	853	1761	1901	1929	2092
MEAN	63.6	46.1	24.1	25.1	25.0	30.3	24.9	27.5	58.7	61.3	62.2	69.7
MAX	72	82	27	27	42	69	30	30	119	118	123	105
MIN	53	25	23	24	22	24	24	26	28	32	30	27
AC-FT	3910	2750	1480	1540	1390	1860	1480	1690	3490	3770	3830	4150

CAL YR 1982	TOTAL	12827	MEAN	35.1	MAX	116	MIN	18	AC-FT	25440
WTR YR 1983	TOTAL	15805	MEAN	43.3	MAX	123	MIN	22	AC-FT	31350

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT

LOCATION.--Lat 41°30'36", long 112°03'34", in SW1/4SE1/4SW1/4 sec.16, T.9 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 20 ft above bridge on Highway 523 and 3 mi west of Brigham City.

DRAINAGE AREA.--31.1 mi^2.

PERIOD OF RECORD.--September 1971 to current year.

REVISED RECORDS.--WDR UT-82-1: 1976-81 (M).

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 47.8 ft^3/s, 34,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 302 ft^3/s Oct. 1, 1982, gage height, 4.10 ft; minimum, 2.7 ft^3/s July 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 302 ft^3/s Oct. 1, gage height, 4.10 ft; minimum, 24 ft^3/s June 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	135	148	65	100	97	126	143	105	26	37	60
2	294	126	149	58	100	98	128	153	107	31	40	60
3	278	118	148	55	94	97	126	162	100	41	39	65
4	259	116	150	53	91	91	124	162	102	39	39	75
5	245	113	152	54	84	87	113	178	104	34	41	88
6	232	107	150	56	80	84	98	189	100	35	36	94
7	216	102	148	61	80	82	98	189	90	34	33	94
8	203	97	146	68	82	80	98	181	82	33	32	90
9	189	92	137	70	80	75	95	183	79	30	36	89
10	175	88	130	70	82	73	92	178	75	34	41	84
11	148	85	124	70	81	78	94	167	72	39	41	76
12	137	82	116	71	81	81	94	178	78	39	43	69
13	143	79	114	71	88	84	90	170	80	34	43	68
14	143	76	109	70	122	90	86	160	79	30	42	67
15	137	74	102	70	118	94	82	157	75	30	43	67
16	124	72	97	69	114	92	80	162	71	36	48	67
17	120	71	92	69	114	94	77	153	68	32	53	65
18	115	70	89	69	116	97	76	157	64	29	61	66
19	110	77	86	69	132	104	76	157	61	27	75	65
20	105	95	83	68	126	107	78	160	59	27	87	67
21	100	104	82	69	120	105	90	157	57	28	101	68
22	97	105	89	70	116	104	100	153	54	28	98	67
23	92	107	126	70	114	118	100	153	43	28	94	68
24	88	104	120	70	107	135	100	150	37	26	84	70
25	86	100	114	72	98	137	105	150	37	32	73	73
26	89	94	105	74	96	137	111	148	35	47	67	73
27	107	89	98	76	98	137	114	141	38	48	67	78
28	116	85	95	88	97	137	114	137	32	42	66	98
29	114	84	90	102	---	135	114	128	26	36	65	101
30	118	95	88	98	---	130	124	120	27	33	63	119
31	128	---	75	104	---	126	---	105	---	33	62	---
TOTAL	4798	2842	3552	2199	2811	3186	3003	4881	2037	1041	1750	2291
MEAN	155	94.7	115	70.9	100	103	100	157	67.9	33.6	56.5	76.4
MAX	294	135	152	104	132	137	128	189	107	48	101	119
MIN	86	70	75	53	80	73	76	105	26	26	32	60
AC-FT	9520	5640	7050	4360	5580	6320	5960	9680	4040	2060	3470	4540

CAL YR 1982	TOTAL	27398.2	MEAN	75.1	MAX	294	MIN	8.9	AC-FT	54340
WTR YR 1983	TOTAL	34391	MEAN	94.2	MAX	294	MIN	26	AC-FT	68210

10127110 BEAR RIVER BASIN OUTFLOW ACROSS STATE HIGHWAY 83, NEAR CORINNE, UT

LOCATION.--Records of discharge are collected at 3 continuous recording gaging stations (see stations 10126000, 10126180, and 10127100) and 46 culvert or bridge openings which cross State Highway 83 from Brigham City on the east to the base of Little Mountain 7.2 mi west of Corinne.

PERIOD OF RECORD.--October 1971 to current year.

REMARKS.--Records fair. Three of the culvert crossings are distributaries of canals. Flow through the other openings generally is determined by current meter measurements, discharge based on computerized ratings for flow through culverts, or field estimates. Records for station 10127100 Black Slough are collected at a bridge crossing on county road about 2 mi downstream from State Highway 83 in order to include Box Elder Creek. Most of the flow that crosses Highway 83 is included in records for station 10126000 Bear River near Corinne.

AVERAGE DISCHARGE.--12 years, 2,221 ft^3/s, 1,609,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 10,000 ft^3/s June 4, 1983; minimum daily, 240 ft^3/s Apr. 26, 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 10,000 ft^3/s June 4; minimum daily, 1,600 ft^3/s Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4650	3310	3520	2740	3300	3720	4040	5510	9020	5990	3330	3680
2	4680	3320	3550	3260	3250	3970	3980	5580	9580	5770	3330	3520
3	4380	3250	3510	3200	3260	4550	3940	5870	9920	5610	2560	3610
4	4040	3360	3500	3180	3200	4890	3870	6230	10000	5500	2970	3850
5	3840	3360	3500	3230	2910	5060	3890	6570	9920	5550	3160	3890
6	3810	3420	3520	3190	3230	5030	3880	6870	9920	5660	1700	3860
7	3620	3380	3540	3250	2920	4890	3870	6960	9940	5690	1600	3910
8	4120	3330	3510	3930	2820	4750	3850	6930	9620	5680	1970	3940
9	4330	3270	3460	4170	2940	4540	3780	6870	9190	5580	2290	3910
10	4150	3330	3440	3990	2650	4420	3670	6720	8780	5380	2700	3840
11	3700	3330	3480	3950	2710	4260	3660	6520	8530	5250	2900	3810
12	3460	3340	3500	4050	2750	4110	3670	6470	8420	5230	2430	3760
13	3420	3330	3400	3980	2630	4070	3660	6420	8440	5200	2670	3380
14	3380	3030	3380	3850	3240	4290	3840	6460	8630	5190	2660	2040
15	3390	3060	3360	3670	3520	4430	3950	6370	8750	4990	3000	2120
16	3330	3010	3340	3530	3610	4490	3740	6220	8700	4770	2830	3180
17	3150	3060	3100	3430	3610	5050	3690	5960	8400	4670	2920	3060
18	2980	2870	3310	3060	3660	5460	3590	5790	7930	4460	3480	2900
19	2950	3310	3120	2580	3630	5560	3530	5790	7520	4230	3940	3230
20	2810	3390	2910	2770	3830	5210	3450	6010	7150	3830	4200	3280
21	2640	3390	2950	3000	3830	4900	3740	6260	6940	3490	4530	2750
22	2830	3260	2950	2720	3730	4650	3920	6540	6870	3380	4630	2930
23	3000	3390	3080	2880	3750	4660	4110	6520	6920	3130	4600	3260
24	2970	3480	3220	2810	3360	4730	4290	6540	7080	3180	4570	2920
25	2330	3450	3460	2990	3210	4640	4350	6520	7160	3260	4550	3040
26	2720	3380	3480	3160	3600	4540	4390	6570	7100	3450	4720	3320
27	3210	3350	3600	2820	3660	4450	4980	6770	7050	3600	4810	3440
28	3080	3340	3390	2860	3680	4340	5400	7130	6890	3670	4820	3660
29	3280	3340	3470	3080	---	4270	5520	7530	6660	3360	4620	3760
30	2990	3430	3520	3210	---	4250	5450	8010	6340	2570	4080	3680
31	3240	---	3290	3310	---	4130	---	8490	---	3050	3690	---
TOTAL	106480	98870	104360	101850	92490	142310	121700	203000	247370	140370	106260	101530
MEAN	3435	3296	3366	3285	3303	4591	4057	6548	8246	4528	3428	3384
MAX	4680	3480	3600	4170	3830	5560	5520	8490	10000	5990	4820	3940
MIN	2330	2870	2910	2580	2630	3720	3450	5510	6340	2570	1600	2040
AC-FT	211200	196100	207000	202000	183500	282300	241400	402700	490700	278400	210800	201400

CAL YR 1982 TOTAL 999093 MEAN 2737 MAX 7110 MIN 588 AC-FT 1982000
WTR YR 1983 TOTAL 1566590 MEAN 4292 MAX 10000 MIN 1600 AC-FT 3107000

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT

LOCATION.--Lat 40°47'09", long 111°06'42", in NW1/4NW1/4NW1/4 sec.36, T.1 N., R.7 E., Summit County, Hydrologic Unit 16020101, on right bank 2.5 mi upstream from mouth and 10 mi northeast of Oakley.

DRAINAGE AREA.--33.8 mi^2.

PERIOD OF RECORD.--October 1946 to September 1947, October 1975 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,360 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 56.8 ft^3/s, 41,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 844 ft^3/s June 19, 1983, gage height, 5.46 ft; minimum, 6.8 ft^3/s Jan. 3, Apr. 21, Sept. 22, 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 844 ft^3/s June 19, gage height, 5.46 ft; minimum daily, 10 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	38	23	14	14	16	18	25	519	423	56	54
2	78	36	23	18	13	16	18	26	481	339	55	54
3	77	30	23	18	12	16	17	26	445	313	57	55
4	77	35	23	18	14	16	16	27	486	292	55	57
5	90	34	23	18	16	16	15	38	534	257	54	57
6	97	33	22	18	14	16	15	40	514	257	53	56
7	91	31	22	18	15	16	15	39	500	282	53	56
8	84	31	21	18	16	16	18	45	519	282	51	55
9	77	31	21	17	16	16	18	53	544	266	51	55
10	72	29	21	17	15	17	18	53	560	303	48	53
11	69	30	20	17	14	19	18	48	570	218	53	52
12	64	28	20	17	15	20	18	46	549	199	56	50
13	60	27	20	17	15	20	16	42	472	186	56	47
14	57	25	21	17	15	20	16	40	389	176	55	46
15	54	26	20	17	15	20	16	38	427	130	55	43
16	53	26	20	17	15	19	16	37	495	59	55	42
17	50	27	21	17	15	19	17	37	549	61	57	40
18	49	26	20	17	15	19	20	36	629	64	64	40
19	46	26	17	17	14	18	21	37	716	64	89	38
20	44	26	20	17	14	18	23	39	640	64	113	37
21	40	25	20	17	15	18	24	42	624	62	97	51
22	38	25	20	17	15	18	24	53	629	65	89	61
23	36	21	20	17	15	18	25	69	624	65	78	56
24	36	19	19	16	15	17	30	84	580	64	71	51
25	36	23	14	16	16	17	32	113	529	64	69	46
26	39	20	12	16	15	19	30	169	495	62	66	44
27	42	22	19	16	15	18	27	385	445	61	65	42
28	40	21	13	16	16	18	26	472	495	59	67	40
29	40	23	11	16	---	18	26	544	481	57	62	40
30	40	22	10	16	---	18	26	613	458	56	57	38
31	41	---	11	16	---	18	---	602	---	56	56	---
TOTAL	1798	816	590	523	414	550	619	3918	15898	4906	1963	1456
MEAN	58.0	27.2	19.0	16.9	14.8	17.7	20.6	126	530	158	63.3	48.5
MAX	97	38	23	18	16	20	32	613	716	423	113	61
MIN	36	19	10	14	12	16	15	25	389	56	48	37
AC-FT	3570	1620	1170	1040	821	1090	1230	7770	31530	9730	3890	2890

CAL YR 1982	TOTAL	28268	MEAN	77.4	MAX	460	MIN	10	AC-FT	56070
WTR YR 1983	TOTAL	33451	MEAN	91.6	MAX	716	MIN	10	AC-FT	66350

10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION.--Lat 40°44'14", long 111°14'50", in SE1/4NE1/4 sec.15, T.1 S., R.6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi downstream from South Fork, 2.2 mi upstream from Weber-Provo diversion canal, and 3.2 mi northeast of Oakley.

DRAINAGE AREA.--162 mi^2.

PERIOD OF RECORD.--October 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft from topographic map. Prior to Oct. 25, 1933, staff gage at site 0.2 mi downstream at different datum. Oct. 25, 1933 to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft higher.

REMARKS.--Records good except those for winter period, which are fair. Several small diversions for irrigation above station. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of lakes and reservoir, 3,400 acre-ft.

AVERAGE DISCHARGE.--79 years, 221 ft^3/s, 160,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft^3/s June 13, 1921, gage height, 9.0 ft, site and datum then in use, from rating curve extended above 2,000 ft^3/s; minimum observed, 15 ft^3/s Dec. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	0500	2,230	8.13
June 19	0130	*2,380	8.28

Minimum daily, 57 ft^3/s Feb 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	286	149	97	64	68	73	75	175	1960	1230	275	216
2	270	142	96	67	62	71	74	178	1800	1130	259	252
3	270	118	95	75	57	70	73	188	1560	1010	286	275
4	260	132	94	81	60	69	68	199	1640	918	265	360
5	286	126	91	92	67	68	74	256	1830	854	246	275
6	282	124	89	85	64	66	72	262	1830	875	231	252
7	275	118	88	84	66	65	75	243	1720	896	228	246
8	262	121	86	82	70	64	79	293	1790	896	222	275
9	256	125	88	75	69	64	78	345	1810	889	237	258
10	240	113	89	78	68	75	83	303	1860	948	231	240
11	231	119	83	75	65	86	83	286	1970	701	269	225
12	216	108	78	74	66	94	83	259	1920	623	296	210
13	204	110	84	74	65	92	75	246	1520	568	272	197
14	196	76	89	72	67	95	78	243	1270	525	246	188
15	191	79	90	73	66	86	76	228	1290	480	231	179
16	202	91	95	70	68	80	79	225	1440	398	246	170
17	180	94	87	71	67	85	86	222	1660	373	249	164
18	173	95	82	69	69	81	97	228	1870	345	300	160
19	165	101	77	68	67	77	108	234	2090	325	352	157
20	158	93	80	67	68	74	127	243	1930	314	329	151
21	154	90	87	67	69	71	140	272	2000	303	300	160
22	149	84	86	66	70	76	136	341	1980	325	296	170
23	144	77	86	65	67	75	147	452	1940	325	272	160
24	144	88	78	66	66	67	199	590	1930	293	246	152
25	144	107	61	65	65	73	210	778	1750	303	246	148
26	154	93	65	65	63	75	186	971	1560	307	243	142
27	165	94	86	65	62	69	173	1260	1500	282	240	140
28	149	96	79	65	66	70	168	1700	1500	275	234	142
29	149	101	70	63	---	66	175	1730	1400	256	234	138
30	156	97	58	68	---	79	175	1870	1300	252	222	154
31	161	---	60	62	---	83	---	2080	---	279	219	---
TOTAL	6272	3161	2574	2213	1847	2339	3352	16900	51620	17498	8022	5956
MEAN	202	105	83.0	71.4	66.0	75.5	112	545	1721	564	259	199
MAX	286	149	97	92	70	95	210	2080	2090	1230	352	360
MIN	144	76	58	62	57	64	68	175	1270	252	219	138
AC-FT	12440	6270	5110	4390	3660	4640	6650	33520	102400	34710	15910	11810

CAL YR 1982	TOTAL	108319	MEAN	297	MAX	1510	MIN	48	AC-FT	214900
WTR YR 1983	TOTAL	121754	MEAN	334	MAX	2090	MIN	57	AC-FT	241500

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UT

LOCATION.--Lat 40°47'25", long 111°24'12", in NW1/4NW1/4SE1/4 sec.29, T.1 N., R.5 E., Summit County, Hydrologic Unit 16020101, in powerhouse on downstream side of dam on Weber River, 1.2 mi south of Wanship and 1.2 mi upstream from Silver Creek.

DRAINAGE AREA.--334 mi^2.

PERIOD OF RECORD.--February 1957 to current year. Month-end contents only prior to October 1960, published in WSP 1734.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Mercury gage in powerhouse read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; storage began in fall of 1956; dam completed March 1957. Usable capacity, 60,860 acre-ft between elevation 5,930 ft (bottom of outlet tunnel) and 6,037 ft (top of spillway) above mean sea level. Dead storage, 1,260 acre-ft. Figures given herein represent usable contents. Water is used for irrigation, domestic, and industrial purposes.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 65,030 acre-ft June 24, 27, 28, 1967 and June 12, 13, 1983, elevation, 6,040.8 ft; minimum observed since storage began, 152 acre-ft Sept. 10, 15, 1959, elevation, 5,931.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 65,030 acre-ft June 12, 13, elevation, 6,040.8 ft; minimum observed, 30,240 acre-ft Apr. 22, elevation, 6,002.9 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

6,002	29,580	6,030	53,600
6,005	31,800	6,040	64,140
6,010	35,660	6,041	65,250
6,020	44,110		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE DAILY OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62380	61510	61080	57990	50640	46840	44110	32250	53200	63810	61190	53900
2	62160	61400	61080	57680	50260	46840	43750	32400	55920	63700	61190	53300
3	62050	61290	61080	57370	49970	46940	43400	32480	58730	63480	61080	53100
4	61940	61290	60970	57060	49580	47030	43040	32560	60650	63260	61190	52900
5	61940	61190	60970	56950	49290	47120	42420	32560	62160	63150	61190	52700
6	61830	61190	60970	56850	49010	47220	41810	32780	63040	62930	61080	52600
7	61830	61190	60970	56640	48720	47310	41210	32940	63700	62930	60860	52500
8	61830	61190	60970	56440	48530	47400	40430	33010	64250	62930	60750	52310
9	61730	61290	60860	56130	48530	47500	39670	33240	64580	62930	60540	52210
10	61730	61290	60860	56030	48440	47590	38830	33630	64690	63150	60540	52010
11	61620	61290	60860	55820	48340	47870	38090	33860	64800	63040	60430	51710
12	61620	61190	60860	55620	48340	48440	37270	34010	65030	62820	60330	51520
13	61510	61190	60750	55410	48250	49010	36460	34250	65030	62490	60330	51620
14	61510	61190	60750	55110	48160	49480	35660	34560	64580	62380	60220	51620
15	61510	61080	60750	54910	48160	49870	34790	34720	64580	62160	60220	51710
16	61510	61080	60750	54600	47970	49970	33940	34640	64030	62050	60110	51910
17	61510	61080	60860	54400	47870	49770	33170	34560	64030	61940	60220	52110
18	61400	61080	60750	54100	47780	49480	32330	34400	64250	61730	60330	52210
19	61400	61080	60750	53900	47680	49100	31650	34330	64690	61730	60220	52400
20	61400	61190	60750	53600	47590	48820	31130	34400	64910	61510	60000	52500
21	61290	61190	60750	53400	47500	48440	30610	34250	64910	61400	59900	52800
22	61290	61190	60540	53000	47400	48060	30240	34170	64800	61290	59790	53000
23	61290	61190	60430	52800	47310	47680	30310	34400	64800	61400	59370	53200
24	61290	61080	60330	52600	47220	47310	30610	34790	64800	61400	58620	53400
25	61190	60970	60110	52400	47120	46840	31050	35500	64690	61400	58310	53600
26	61290	60970	59790	52210	47030	46480	31580	36710	64470	61510	58100	53800
27	61400	60970	59580	51910	46940	46110	31800	38170	64360	61400	57890	54000
28	61510	60970	59370	51620	46940	45560	31950	40350	64140	61290	56850	54200
29	61400	60970	59050	51420	---	45280	32100	42950	64140	61290	55820	54400
30	61400	60970	58620	51130	---	44830	32180	46020	63920	61190	56130	54700
31	61400	---	58310	50840	---	44470	---	49480	---	61190	54500	---
MAX	62380	61510	61080	57990	50640	49970	44110	49480	65030	63810	61190	54700
MIN	61190	60970	58310	50840	46940	44470	30240	32250	53200	61190	54500	51520
(#)	6037.5	6037.1	6034.6	6027.2	6023.1	6020.4	6005.5	6025.8	6039.8	6037.3	6030.9	6031.1
(*)	-540	-430	-2660	-7470	-3900	-2470	12290	+17300	+14440	-2730	-6690	+200

CAL YR 1982 . . . . . (*) +20,790
WTR YR 1983 . . . . . (*) -7,240

(#) ELEVATION, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET

10130000 SILVER CREEK NEAR WANSHIP, UT

LOCATION.--Lat 40°45'25", long 111°28'15", in SW1/4NW1/4NW1/4 sec.2, T.1 S., R.4 E., Summit County, Hydrologic Unit 16020101, on right bank 10 ft downstream from culvert at crossover between interstate 80 lanes, 4 mi upstream from mouth, 4.5 mi southwest of Wanship.

DRAINAGE AREA.--25.8 mi^2.

PERIOD OF RECORD.--October 1941 to September 1946, July 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,360 ft from topographic map. October 1941 to September 1946, water-stage recorder at approximately same site at different datum.

REMARKS.--Several diversions for irrigation above station. Records good.

AVERAGE DISCHARGE.--5 years (1941-46), 7.00 ft^3/s, 5,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 430 ft^3/s Apr. 4, 1942, gage height, 4.28 ft; minimum, practically no flow at times in 1942 and 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94 ft^3/s Apr. 25, gage height, 1.61 ft; minimum, 1.9 ft^3/s Aug. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	13	3.4	4.3	4.1	5.6	25	51	57	11	4.8	6.6
2	22	10	3.8	4.4	4.0	5.6	21	41	46	6.9	4.8	7.1
3	17	7.6	3.9	4.5	3.9	6.5	19	39	40	7.9	4.6	17
4	12	7.6	4.1	4.7	3.8	7.3	12	36	46	4.8	5.7	27
5	13	6.9	4.4	4.7	3.9	9.0	26	61	37	3.8	5.1	14
6	10	6.5	4.6	5.0	4.0	15	21	58	34	3.4	3.2	9.8
7	7.9	6.1	4.6	5.2	4.1	21	16	47	32	4.2	2.1	10
8	7.7	7.0	4.4	5.6	4.1	19	14	33	30	3.7	2.8	14
9	7.6	11	4.1	5.2	4.2	20	17	30	31	5.9	5.1	8.8
10	6.3	10	4.1	5.4	4.0	23	24	31	33	13	3.9	6.0
11	5.9	9.1	4.3	5.0	3.8	28	31	43	33	12	4.5	5.3
12	6.0	8.1	4.7	4.9	3.7	45	26	49	40	7.8	14	6.0
13	6.0	7.0	5.0	4.9	3.6	45	21	54	39	6.6	9.2	5.8
14	5.9	6.8	5.3	5.0	3.6	55	19	45	34	6.9	7.6	6.0
15	5.2	6.7	5.5	5.0	4.7	48	19	36	30	5.8	7.1	5.8
16	5.5	7.1	5.4	5.1	4.8	33	23	43	29	6.9	14	6.0
17	5.1	7.2	5.4	4.8	5.1	26	30	40	26	7.4	17	5.8
18	4.4	7.3	5.6	4.7	5.0	23	41	31	23	5.8	15	5.8
19	3.7	10	5.4	4.8	4.5	21	60	37	24	4.4	14	5.3
20	4.2	9.0	5.3	4.9	6.2	18	61	37	26	3.7	10	5.3
21	4.2	8.4	5.4	5.1	6.8	17	70	26	25	3.6	7.9	5.6
22	4.5	8.2	5.6	5.1	6.9	16	61	18	24	5.5	11	6.0
23	4.8	7.4	5.9	5.1	6.5	16	52	16	23	7.0	9.5	5.6
24	4.2	4.0	6.2	4.9	5.4	15	64	16	19	6.3	7.9	6.6
25	4.5	4.6	5.0	4.9	5.0	13	79	16	19	6.5	6.8	7.1
26	7.3	4.2	4.0	5.3	5.3	15	60	20	20	6.7	6.6	6.3
27	12	4.0	4.4	4.7	5.3	14	55	22	20	5.2	6.0	7.9
28	11	4.3	3.9	4.6	5.3	14	51	26	16	3.9	5.6	8.2
29	10	4.8	4.1	4.4	---	14	47	29	15	4.0	8.2	7.6
30	14	5.1	4.1	4.2	---	19	47	34	13	4.1	8.2	10
31	16	---	4.2	4.2	---	29	---	40	---	4.3	7.4	---
TOTAL	278.9	219.0	146.1	150.6	131.6	656.0	1112	1105	884	189.0	239.6	248.3
MEAN	9.00	7.30	4.71	4.86	4.70	21.2	37.1	35.6	29.5	6.10	7.73	8.28
MAX	31	13	6.2	5.6	6.9	55	79	61	57	13	17	27
MIN	3.7	4.0	3.4	4.2	3.6	5.6	12	16	13	3.4	2.1	5.3
AC-FT	553	434	290	299	261	1300	2210	2190	1750	375	475	493

WTR YR 1983 TOTAL 5360.1 MEAN 14.7 MAX 79 MIN 2.1 AC-FT 10630

10130500 WEBER RIVER NEAR COALVILLE, UT

LOCATION.--Lat 40°53'43", long 111°24'04", in NE1/4SW1/4NE1/4 sec.20, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi upstream from high-water line of Echo Reservoir, 1.4 mi south of Coalville, 1.7 mi upstream from Chalk Creek, and 5.5 mi downstream from Silver Creek.

DRAINAGE AREA.--435 mi^2.

PERIOD OF RECORD.--April 1927 to current year.

REVISED RECORDS.--WSP 1314: 1943(M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map. Prior to Mar. 22, 1931, nonrecording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--Records good. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since Apr. 1, 1957, by Rockport Reservoir (see station 10129400).

AVERAGE DISCHARGE.--52 years, 205 ft^3/s, 148,500 acre-ft/yr, since completion of Weber-Provo diversion canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft^3/s May 6, 1952; maximum gage height, 5.08 ft (present datum) May 29, 1951; minimum, 6 ft^3/s Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,890 ft^3/s June 12, 13, gage height, 5.05 ft; minimum daily, 115 ft^3/s Sept. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	647	291	202	275	272	205	447	420	908	1340	219	581
2	563	260	200	275	272	205	443	416	868	1250	208	586
3	497	240	197	263	269	202	443	443	840	1170	194	604
4	451	240	192	263	269	200	468	536	1140	1060	179	614
5	447	238	189	269	269	200	527	563	1400	955	197	497
6	447	218	189	269	269	202	532	567	1620	846	213	408
7	427	218	186	275	248	208	554	545	1610	791	197	439
8	408	218	181	272	186	208	609	540	1630	796	186	497
9	396	210	176	269	184	208	618	549	1710	807	194	427
10	381	204	176	266	186	210	623	527	1750	925	186	427
11	363	197	176	266	186	221	638	527	1800	931	197	423
12	349	197	174	266	186	242	638	531	1860	764	213	321
13	335	235	171	266	189	250	628	531	1860	647	213	224
14	318	222	171	266	194	266	623	518	1730	554	210	233
15	308	202	169	266	192	318	618	545	1520	506	213	189
16	298	200	171	266	192	367	618	600	1460	468	233	123
17	288	200	174	266	192	381	623	590	1520	416	233	119
18	278	208	174	266	194	443	638	586	1610	367	278	115
19	266	224	174	266	197	439	633	600	1710	331	416	115
20	260	236	171	266	194	431	604	604	1790	285	404	117
21	250	230	200	266	194	431	609	623	1770	248	400	117
22	244	219	260	266	192	431	447	642	1740	260	435	119
23	242	208	275	269	192	435	304	667	1710	304	595	121
24	236	192	269	269	194	431	335	682	1680	298	590	121
25	230	192	266	269	197	431	345	697	1670	278	595	123
26	239	189	269	269	197	431	304	722	1640	285	600	121
27	278	184	263	269	194	427	324	707	1560	263	590	128
28	285	184	266	272	197	427	393	702	1490	242	590	128
29	275	189	275	272	---	427	408	672	1470	236	590	132
30	272	200	275	269	---	431	420	672	1420	227	586	134
31	281	---	285	272	---	451	---	672	---	219	581	---
TOTAL	10559	6445	6516	8318	5897	10159	15414	18196	46486	18069	10735	8303
MEAN	341	215	210	268	211	328	514	587	1550	583	346	277
MAX	647	291	285	275	272	451	638	722	1860	1340	600	614
MIN	230	184	169	263	184	200	304	416	840	219	179	115
AC-FT	20940	12780	12920	16500	11700	20150	30570	36090	92200	35840	21290	16470

CAL YR 1982	TOTAL	127894	MEAN	350	MAX	1310	MIN	102	AC-FT	253700
WTR YR 1983	TOTAL	165097	MEAN	452	MAX	1860	MIN	115	AC-FT	327500

10131000 CHALK CREEK AT COALVILLE, UT

LOCATION.--Lat 40°55'14", long 111°24'03", in NW1/4NE1/4SE1/4 sec.8, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi upstream from mouth.

DRAINAGE AREA.--250 mi^2.

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

REVISED RECORDS.--WSP 1564: 1929. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,560.6 ft NGVD of 1929. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft upstream at different datum.

REMARKS.--Records good. Diversions above station used for irrigation of land in the drainage basin above the station. Flow slightly affected by Chalk Creek Reservoir, capacity, 1,600 acre-ft.

AVERAGE DISCHARGE.--56 years, 65.9 ft^3/s, 47,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,570 ft^3/s June 1, 1983, gage height, 5.26 ft; minimum, less than 1 ft^3/s for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 25	0600	690	2.36
June 1	1430	*1,570	5.26
July 10	0300	443	4.13

Minimum daily, 17 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	73	55	20	28	73	80	259	1410	386	91	72
2	86	65	53	19	26	71	82	287	1360	370	82	76
3	78	50	48	30	25	63	80	294	1220	365	74	105
4	76	57	44	39	27	57	63	280	1250	318	70	177
5	82	57	55	43	32	61	59	416	1210	280	58	105
6	82	57	50	41	30	57	65	404	1110	254	42	84
7	76	55	39	44	35	55	63	319	1070	233	33	91
8	76	57	32	43	35	55	69	361	1010	217	36	110
9	69	61	29	36	38	57	67	496	1000	237	38	98
10	67	53	52	31	36	69	78	380	907	349	39	88
11	67	63	41	30	32	93	89	349	936	241	67	82
12	65	52	32	29	35	122	89	319	1030	206	70	78
13	65	55	29	31	39	128	71	334	770	188	55	74
14	63	30	44	31	43	163	76	338	637	168	52	70
15	61	39	44	35	38	128	73	308	672	168	56	68
16	61	46	52	34	41	96	76	323	672	177	78	62
17	61	59	50	40	33	91	84	327	730	174	117	62
18	59	65	44	39	44	84	110	338	766	131	206	58
19	55	73	33	36	48	73	141	445	770	120	174	55
20	55	61	38	37	35	69	186	487	676	110	134	55
21	55	57	52	39	39	61	198	404	615	107	131	58
22	53	52	48	36	38	73	207	500	556	168	149	56
23	53	36	50	38	43	69	214	646	538	155	125	43
24	53	32	44	35	48	59	342	757	545	134	100	38
25	53	53	21	36	55	61	458	890	518	140	93	35
26	55	44	18	35	52	63	236	1020	505	137	86	33
27	73	41	38	39	43	57	223	1050	538	120	80	36
28	65	55	38	34	52	63	201	1120	467	98	78	36
29	63	59	33	31	---	55	256	1200	443	86	86	33
30	65	55	17	34	---	65	280	1240	414	82	78	38
31	73	---	18	30	---	91	---	1240	---	88	74	---
TOTAL	2068	1612	1241	1075	1070	2382	4316	17131	24345	6007	2652	2076
MEAN	66.7	53.7	40.0	34.7	38.2	76.8	144	553	812	194	85.5	69.2
MAX	103	73	55	44	55	163	458	1240	1410	386	206	177
MIN	53	30	17	19	25	55	59	259	414	82	33	33
AC-FT	4100	3200	2460	2130	2120	4720	8560	33980	48290	11910	5260	4120

CAL YR 1982	TOTAL	41761	MEAN	114	MAX	800	MIN	14	AC-FT	82830
WTR YR 1983	TOTAL	65975	MEAN	181	MAX	1410	MIN	17	AC-FT	130900

10131500 ECHO RESERVOIR AT ECHO, UT

LOCATION.--Lat 40°57'50", long 111°25'55", in NE1/4NW1/4SW1/4 sec.30, T.3 N., R.5 E., Summit County, Hydrologic Unit 16020101, near outlet works at left end of Echo Dam on Weber River, 1.1 mi southeast of Echo.

DRAINAGE AREA.--726 mi^2.

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Staff gage on left side of dam read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-ft between elevation 5,450 ft (bottom of outlet tunnel) and 5,560 ft (top of radial gages in spillway) above mean sea level. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation of the Echo Project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 75,420 acre-ft June 13, 1983, elevation, 5,561.0 ft; no contents Sept. 12 to Dec. 3, 1931, Sept. 24 to Nov. 2, 1934, Oct. 12 to Nov. 21, 1944, Oct. 1 to Nov. 15, 1954, Sept. 11-20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 75,420 acre-ft June 13, elevation, 5,561.0 ft; minimum, 29,500 acre-ft Sept. 30, elevation 5,523.2 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,520	26,620	5,545	53,360
5,525	31,180	5,500	59,880
5,530	36,100	5,555	66,740
5,535	41,440	5,560	73,940
5,540	47,200	5,561	75,420

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE DAILY OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45190	53620	50110	45080	51480	49990	52100	40330	73360	74390	69290	62720
2	46370	53740	49870	45190	51600	49990	51600	40230	74240	74390	68720	63400
3	47800	53740	49870	45310	51720	50110	50850	40230	74090	74240	68290	63950
4	48890	53620	49620	45540	51850	50110	49990	40120	73800	74240	67730	64510
5	49990	53620	49500	45780	51850	50110	48770	40230	74390	74090	67020	65200
6	51100	53620	49380	46130	51850	50110	47440	40880	74680	74090	66460	65480
7	51850	53360	49130	46490	51850	50110	46130	42220	75130	74240	65620	65620
8	52350	53360	48890	46840	51850	49990	44840	42780	74830	74240	64920	65620
9	52860	53110	48770	47080	51850	49990	43580	43350	74830	74540	64230	64920
10	53110	53110	48650	47320	51850	49870	42440	44040	74830	74680	63400	63400
11	53490	52860	48400	47560	51850	49870	41440	44610	74830	74830	62860	61900
12	53620	52860	48160	47800	51600	49990	40440	45190	75130	74830	62310	62310
13	53870	52730	48040	48040	51600	50240	40120	45660	75420	74390	62040	62170
14	53870	52600	47800	48280	51350	50610	39900	46010	74680	74240	61490	60420
15	54000	52480	47560	48520	51350	50980	39680	46010	73940	74390	60950	58680
16	54120	52350	47320	48770	51100	51230	39470	45900	73650	74540	60420	56710
17	54120	52100	46960	49010	51100	51350	39250	46010	73650	74540	60150	54760
18	54120	51970	46610	49250	50850	51600	39040	46010	73800	74240	60150	52730
19	54120	51850	46370	49500	50850	52100	38820	45900	73940	73940	60680	50850
20	54120	51600	46130	49740	50610	52350	38720	46490	74240	73650	61220	48890
21	54120	51720	45900	49870	50610	52600	38820	47200	74540	73360	61220	47080
22	54000	51850	45660	49990	50360	52860	39040	48280	74390	72920	61220	45190
23	53870	51600	45540	50110	50360	53110	39470	49740	74240	72620	61090	43120
24	53870	51480	45430	50240	50110	53110	39570	51720	74240	72470	60950	41110
25	53740	51350	45310	50360	50110	52980	40010	54250	74090	72330	60420	39360
26	53620	51100	45190	50480	50110	52860	40660	57360	74240	72180	60150	37660
27	53620	50850	45080	50610	50110	52730	40560	60280	74240	71890	59610	35900
28	53620	50610	44960	50850	50110	52600	40330	63400	74090	71600	59210	33690
29	53620	50360	44840	51100	---	52480	39900	66320	74090	71160	60150	31650
30	53620	50110	44840	51230	---	52350	39470	69580	74240	70440	60950	29500
31	53620	---	44960	51350	---	52220	---	72770	---	69870	61900	---
MAX	54120	53740	50110	51350	51850	53110	52100	72770	75420	74830	69290	65620
MIN	45190	50110	44840	45080	50110	49870	38720	40120	73360	69870	59210	29500
(#)	5545.2	5542.4	5538.1	5543.4	5542.4	5544.1	5533.2	5559.2	5560.2	5557.2	5551.5	5523.2
(*)	+9580	-3510	-5150	+6390	-1240	+2110	-12750	+33300	+1470	-4370	-7970	-32400

CAL YR 1982 . . . . . (*) +230
WTR YR 1983 . . . . . (*) -14540

(#) ELEVATION, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET

10132490 LOST CREEK RESERVOIR NEAR CROYDON, UT

LOCATION.--Lat 41°11'05", long 111°23'59", in NW1/4SE1/4NE1/4 sec.8, T.5 N., R.5 E., Morgan County, Hydrologic Unit 16020101, 1.9 mi upstream from Hell Canyon and 8.1 mi northeast of Croydon.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Indicating float tape in gage house on top of dam. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; active storage began Apr. 22, 1967. Active capacity, 20,010 acre-ft at elevation 6,005.0 ft above mean sea level. Dead storage, 2,500 acre-ft between elevation 5,835.0 ft (streambed at dam axis) and 5,912.3 ft (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propagation along Lost Creek, and irrigation, municipal, and industrial use below confluence of Lost Creek and Weber River.

COOPERATION.--Gage-height record and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 21,270 acre-ft, May 30, June 1, 1983; elevation, 6,008.4 ft. Minimum since original filling of reservoir, 8,160 acre-ft Oct. 10, 14, 1977, elevation, 5,965.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 21,270 acre-ft May 30, June 1; elevation, 6,008.4 ft; minimum contents observed, 13,960 acre-ft Mar. 8; elevation, 5,987.0 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,985	13,350	6,000	18,220
5,990	14,890	6,005	20,010
5,995	16,510	6,010	21,890

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	21270	---	---	---
2	---	---	---	---	---	---	---	15370	21230	---	---	---
3	17250	17380	---	15590	---	---	15430	---	21230	---	19280	---
4	---	---	17350	---	---	---	---	15660	21160	20260	---	---
5	---	---	---	---	---	---	---	---	21120	---	---	15720
6	17280	---	---	---	---	13990	15050	16050	21080	20230	---	---
7	---	17350	---	---	14670	---	---	---	21010	---	19240	---
8	---	---	---	---	---	13960	---	16510	20970	---	---	---
9	---	---	---	15500	---	---	---	16710	---	---	---	---
10	17280	17380	---	---	---	---	14640	16910	20850	20230	---	---
11	---	---	17380	---	---	---	---	---	---	---	---	15370
12	---	---	---	---	---	---	---	16840	20740	---	---	---
13	17380	---	---	---	14490	14330	14270	---	---	20230	---	---
14	---	17320	---	---	---	---	---	16740	---	---	18500	---
15	---	---	---	---	---	---	---	---	20630	---	---	---
16	---	---	---	15310	---	14360	---	16610	---	---	---	---
17	17380	17280	---	---	---	---	14520	---	---	20010	---	---
18	---	---	17420	---	---	---	---	16510	---	---	17900	14990
19	---	---	---	---	---	---	---	---	20520	---	---	---
20	---	---	---	---	---	14550	14390	16510	---	---	---	---
21	17380	17320	17420	---	14270	---	---	---	---	19750	17620	---
22	---	---	---	---	---	---	---	16770	20440	---	---	---
23	---	---	---	15150	---	14990	---	---	---	---	---	---
24	17380	---	---	---	---	---	14830	17760	---	19500	---	14670
25	---	---	---	---	---	---	---	18400	---	---	17180	---
26	---	---	17420	---	---	---	15150	19060	20330	---	---	---
27	17380	---	---	---	14120	15180	---	19820	---	19320	---	---
28	---	17320	---	---	a14080	---	15150	20520	---	---	---	14330
29	---	---	---	---	---	---	---	21010	20300	---	16340	---
30	---	a17320	---	15020	---	15240	15240	21270	a20300	---	---	a14390
31	17420	---	a16280	a14990	---	a15270	---	21200	---	19280	a16180	---
(#)	5997.7	---	---	---	---	---	5991.1	6008.2	---	6003.0	---	---
(*)	+340	-100	-1040	-1290	-910	+1190	-30	+5960	-900	-1020	-3100	-1790

CAL YR 1982 . . . . . (*) +4200
WTR YR 1983 . . . . . (*) -2690

(#) ELEVATION, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE READING, CONTENTS INTERPOLATED

10133700 THREEMILE CREEK NEAR PARK CITY, UT

LOCATION.--Lat 40°43'32", long 111°33'44", in NW1/4NE1/4NW1/4, sec.24, T.1 S., R.3 E., Summit County, Hydrologic Unit 16020101, on left bank 1,000 ft upstream from Threemile Creek Reservoir, 1.1 mi upstream from mouth, and 5.5 mi northwest of Park City.

DRAINAGE AREA.--2.68 mi^2.

PERIOD OF RECORD.--October 1963 to September 1974, July 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,490 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--11 years (water years 1964-74), 2.13 ft^3/s, 1,540 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 24 ft^3/s June 1, 1983; minimum, 0.3 ft^3/s Apr. 6, 8, 14, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 24 ft^3/s June 1; minimum daily, 0.77 ft^3/s Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.3	1.2	.97	1.0	1.0	1.3	6.1	24	7.9	4.2	2.5
2	1.6	1.2	1.1	.96	.96	1.0	1.2	5.8	21	7.8	4.1	2.4
3	1.4	1.2	1.1	1.0	.92	1.0	1.2	6.3	18	7.7	4.1	2.7
4	1.3	1.2	1.1	1.0	.93	1.0	1.2	6.1	18	7.5	4.1	2.7
5	1.4	1.2	1.1	1.1	.98	1.0	1.2	9.0	16	7.2	4.1	2.5
6	1.3	1.2	1.2	1.0	.96	.94	1.2	8.2	14	7.4	3.9	2.5
7	1.4	1.2	1.1	1.0	.99	.94	1.2	7.8	14	7.2	4.1	2.5
8	1.3	1.2	1.0	1.0	.97	.94	1.2	7.6	13	7.0	3.7	2.5
9	1.2	1.2	1.0	.98	.96	.94	1.3	7.6	13	7.0	4.1	2.4
10	1.2	1.2	1.1	.97	.95	1.0	1.4	7.1	12	6.8	3.7	2.5
11	1.1	1.2	1.1	.98	.93	1.0	1.5	7.2	12	6.3	3.7	2.4
12	1.1	1.2	1.0	.98	.93	1.0	1.4	7.3	12	6.3	3.6	2.4
13	1.1	1.3	1.0	.98	.93	1.1	1.2	7.8	13	6.5	3.4	2.4
14	1.1	1.2	1.0	.98	.94	1.2	1.2	7.7	12	6.1	3.4	2.3
15	1.1	1.2	1.1	1.0	.93	1.1	1.3	7.8	11	6.3	3.3	2.3
16	1.1	1.3	1.1	1.0	.93	1.1	1.5	7.3	10	5.9	3.6	2.3
17	1.1	1.3	1.2	1.0	.93	1.1	1.8	6.9	11	5.7	3.4	2.2
18	1.1	1.2	1.1	.94	.92	1.2	2.3	6.5	11	5.5	3.3	2.2
19	1.0	1.2	1.0	.94	.90	1.3	2.9	7.9	10	5.5	3.3	2.2
20	1.0	1.2	.98	.94	.92	1.3	3.5	7.7	10	5.3	3.1	2.2
21	1.0	1.2	1.0	.94	.93	1.3	5.0	8.2	9.8	5.3	3.1	2.2
22	1.0	1.2	1.1	.94	.93	1.3	6.2	9.5	9.8	5.1	3.1	2.2
23	1.0	1.2	1.0	.94	.94	1.3	7.3	11	9.4	5.1	3.0	2.1
24	1.0	1.2	1.0	.94	.94	1.3	8.8	12	9.1	4.9	3.0	2.0
25	1.1	1.2	.98	.94	.94	1.3	9.0	15	9.0	4.9	2.9	2.0
26	1.3	1.1	.92	.94	.94	1.3	7.6	18	8.8	4.6	2.9	2.0
27	1.5	1.1	.92	1.0	.94	1.3	7.1	19	8.6	4.5	2.7	2.0
28	1.3	1.2	.77	1.0	1.0	1.2	5.7	20	8.4	4.4	2.7	1.9
29	1.2	1.3	.86	1.0	---	1.2	5.9	22	8.2	4.4	2.6	1.9
30	1.4	1.2	.84	1.0	---	1.3	6.0	23	8.1	4.2	2.6	1.9
31	1.6	---	.92	1.0	---	1.5	---	23	---	4.2	2.6	---
TOTAL	38.2	36.3	31.89	30.36	26.44	35.46	99.6	326.4	364.2	184.5	105.4	68.3
MEAN	1.23	1.21	1.03	.98	.94	1.14	3.32	10.5	12.1	5.95	3.40	2.28
MAX	1.9	1.3	1.2	1.1	1.0	1.5	9.0	23	24	7.9	4.2	2.7
MIN	1.0	1.1	.77	.94	.90	.94	1.2	5.8	8.1	4.2	2.6	1.9
AC-FT	76	72	63	60	52	70	198	647	722	366	209	135

WTR YR 1983 TOTAL 1347.05 MEAN 3.69 MAX 24 MIN .77 AC-FT 2670

10133900 EAST CANYON CREEK NEAR PARK CITY, UT

LOCATION.--Lat 40°47'24", long 111°35'47", in NW1/4NW1/4SE1/4 sec.27, T.1 N., R.3 E., Summit County, Hydrologic Unit 16020101 on left bank near point where Big Bear Hollow joins East Canyon, 2.3 mi north of Jeremy Ranch.

DRAINAGE AREA.--80.0 mi^2.

PERIOD OF RECORD.--June 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 531 ft^3/s June 1, gage height, 3.07 ft; minimum daily, 21 ft^3/s Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	50	36	27	30	50	91	254	459	85	46	36
2	64	45	35	26	29	64	90	248	378	80	46	37
3	53	43	32	27	26	66	83	276	326	74	45	51
4	48	42	30	28	28	62	71	282	362	68	45	64
5	56	41	32	30	31	64	74	372	323	65	44	39
6	47	40	34	29	28	65	75	345	302	60	44	36
7	48	40	32	32	37	72	72	262	273	53	44	35
8	48	41	30	31	36	79	72	276	264	56	44	38
9	46	45	27	33	36	100	85	270	251	60	47	33
10	44	44	29	30	34	110	107	237	251	67	45	33
11	44	41	29	30	30	162	112	243	270	52	44	33
12	44	39	28	26	33	243	86	243	293	50	44	30
13	43	39	27	27	37	217	77	262	267	47	44	29
14	41	36	28	27	32	276	80	202	237	46	44	30
15	40	36	29	30	34	154	88	173	214	50	44	29
16	40	37	30	28	37	116	100	204	194	46	45	27
17	39	37	32	32	38	107	123	156	204	45	46	27
18	38	38	30	35	39	98	147	137	206	47	46	25
19	38	37	28	31	35	93	182	190	214	47	48	26
20	38	35	26	33	40	85	197	169	214	47	39	27
21	36	36	27	38	43	82	245	173	209	48	37	27
22	37	35	30	37	46	85	320	209	202	48	41	27
23	37	34	29	32	46	90	342	245	192	47	39	26
24	36	33	26	37	42	82	395	267	187	47	40	26
25	38	34	25	38	42	74	405	293	182	50	41	26
26	45	33	22	34	42	75	311	330	171	46	39	26
27	57	32	23	36	41	78	302	349	160	47	39	30
28	46	34	21	33	41	78	235	392	137	46	39	32
29	45	38	25	31	---	75	237	409	119	46	44	30
30	57	37	23	34	---	100	251	426	98	45	39	32
31	63	---	25	31	---	123	---	437	---	46	37	---
TOTAL	1440	1152	880	973	1013	3225	5055	8331	7159	1661	1329	967
MEAN	46.5	38.4	28.4	31.4	36.2	104	169	269	239	53.6	42.9	32.2
MAX	84	50	36	38	46	276	405	437	459	85	48	64
MIN	36	32	21	26	26	50	71	137	98	45	37	25
AC-FT	2860	2280	1750	1930	2010	6400	10030	16520	14200	3290	2640	1920

WTR YR 1983 TOTAL 33185 MEAN 90.9 MAX 459 MIN 21 AC-FT 65820

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UT

LOCATION.--Lat 40°55'14", long 111°35'59", in NE1/4SE1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi southeast of Morgan.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

REMARKS.--Reservoir was formed in 1896 by a 58-ft rockfill dam, capacity, 3,850 acre-ft, which was raised 25 ft in 1900, capacity, 9,000 acre-ft, raised 12 ft more in 1902, capacity, 14,000 acre-ft, was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (revised), and was replaced in 1966 by present concrete thin-arch dam which forms a reservoir having an active capacity of 48,110 acre-ft between elevation 5,577.0 ft and 5,705.0 ft. Dead storage, 3,090 acre-ft. Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 49,840 acre-ft June 1, 1983, elevation, 5,707.5 ft; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 49,840 acre-ft June 1, elevation, 5,707.5 ft; minimum observed, 35,130 acre-ft Apr. 18, elevation, 5,684.3 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,684	34,960	5,700	44,760
5,685	35,530	5,707	49,490
5,690	38,470	5,708	50,190

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	41050	---	---	---	39800	49840	---	48250	45750
2	36520	---	40920	---	---	---	38590	---	---	48730	---	---
3	---	---	---	41050	40730	40240	---	---	---	---	---	45680
4	---	---	40920	---	---	---	---	40490	49630	---	48180	---
5	---	---	---	---	40730	40360	37760	---	---	48660	---	---
6	---	39440	40920	41050	---	---	---	---	---	---	48180	45680
7	---	---	---	---	---	40610	37150	41610	49490	48660	---	45680
8	---	---	---	41050	40670	---	---	---	---	---	---	---
9	36860	---	40920	---	---	---	36690	42240	49420	48590	48110	---
10	---	---	---	41110	40670	40800	---	---	---	---	---	45160
11	---	---	40920	---	---	---	36280	42880	49280	48660	48110	---
12	---	---	---	41110	40610	41110	---	---	---	---	---	---
13	---	40050	---	---	---	---	---	---	---	---	48110	44560
14	---	---	40920	---	40490	42050	35650	43270	49280	---	---	---
15	---	---	---	41110	---	42370	---	---	---	---	---	43850
16	37510	---	40980	---	40420	---	35190	---	49140	48590	48040	---
17	---	---	---	---	---	42370	---	43460	---	---	---	43080
18	---	---	40980	41110	---	42370	35130	---	49080	---	48110	---
19	---	---	---	---	40240	---	---	43460	---	48520	---	---
20	---	40550	---	41170	---	---	35360	---	49080	---	48110	41930
21	---	---	40980	---	40110	41610	---	43590	---	48460	---	---
22	37940	40610	---	41770	---	---	---	---	49010	---	47630	41300
23	---	---	41050	---	40110	41050	36520	43920	---	48520	---	---
24	---	40670	---	---	---	---	---	---	---	---	---	40610
25	---	---	41050	41050	---	---	---	44960	49010	---	46620	---
26	---	---	---	---	39990	40240	38060	---	---	48520	---	39870
27	---	40730	41050	40920	---	---	---	---	48940	---	46010	---
28	---	---	---	---	39990	39620	38710	47500	---	48390	---	39190
29	38590	---	---	40800	---	---	---	48870	48800	---	45950	---
30	---	40800	41050	---	---	39070	39250	49420	48800	48320	---	38650
31	38830	---	41050	40730	---	38950	---	49630	---	48250	45820	---
(#)	---	5693.8	---	5693.7	5692.5	---	5691.3	---	---	---	---	---
(*)	+2720	+1970	+250	-320	-740	-1040	+300	+10380	-830	-550	-2430	-7170

CAL YR 1982 . . . . . (*) +9130
WTR YR 1983 . . . . . (*) +2540

(#) ELEVATION, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE READING, CONTENTS INTERPOLATED

10134500 EAST CANYON CREEK NEAR MORGAN, UT

LOCATION.--Lat 40°55'21", long 111°36'23", in SW1/4NW1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on right bank 2,500 ft downstream from East Canyon Dam, 2.4 mi upstream from Sheep Canyon, and 8.7 mi southeast of Morgan.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only prior to October 1937, published in WSP 1314.

GAGE.--Water-stage recorder and Lyman rectangular weir. Altitude of gage is 5,460 ft from river-profile map.

REVISED RECORDS.--WSP 1634, WDR UT-77-1: Drainage area.

REMARKS.--Records good. No diversions between station and East Canyon Reservoir (see preceding page), which completely regulates flow.

AVERAGE DISCHARGE.--52 years, 55.0 ft^3/s, 39,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft^3/s May 4, 1952, gage height, 3.49 ft; minimum daily, 0.2 ft^3/s Dec. 19, 29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 726 ft^3/s June 1, gage height, 2.95 ft; minimum daily, 5.4 ft^3/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	7.2	33	37	58	44	232	139	698	175	85	86
2	12	7.2	34	37	58	44	230	179	669	164	83	86
3	30	7.4	37	37	58	50	230	179	616	162	81	86
4	49	7.4	37	36	58	56	225	179	596	153	80	86
5	55	7.4	37	37	58	56	220	179	599	145	78	86
6	80	7.4	37	37	58	56	220	179	562	137	95	86
7	32	7.4	37	38	58	67	220	181	532	131	97	115
8	6.0	7.4	38	38	58	78	225	181	506	125	92	141
9	6.0	7.4	37	38	59	78	228	181	487	125	92	143
10	5.4	7.4	37	38	59	83	228	181	464	133	92	143
11	6.0	7.4	37	38	59	88	228	235	413	131	90	143
12	6.0	7.4	37	38	59	99	228	270	401	123	88	143
13	6.0	7.4	37	38	59	104	228	265	392	117	88	190
14	6.6	7.4	37	38	59	106	228	268	360	113	88	220
15	6.6	7.4	37	38	59	121	228	270	329	110	88	220
16	6.6	7.2	37	38	59	137	197	270	305	112	86	220
17	6.6	7.2	37	38	59	139	175	273	286	108	86	216
18	6.6	7.2	37	38	59	175	175	275	281	102	86	216
19	6.6	7.3	38	38	61	223	175	273	278	95	88	216
20	7.1	19	38	49	61	218	151	270	281	90	141	216
21	7.2	27	38	58	56	218	125	268	273	86	166	216
22	7.2	27	38	58	50	230	125	268	260	92	223	213
23	7.2	27	38	58	50	230	127	252	252	95	223	213
24	7.2	29	38	56	50	230	127	190	245	97	223	213
25	7.2	30	38	58	50	230	127	192	235	97	223	213
26	7.2	30	38	56	45	230	127	192	228	121	223	211
27	7.2	30	38	58	44	230	127	192	220	115	127	209
28	7.2	30	38	58	44	230	127	195	209	102	85	206
29	7.2	30	37	58	---	230	127	286	192	93	86	206
30	7.2	31	37	58	---	230	127	446	181	88	86	206
31	7.2	---	37	58	---	232	---	596	---	85	86	---
TOTAL	440.3	449.5	1151	1398	1565	4542	5537	7504	11350	3622	3555	5164
MEAN	14.2	15.0	37.1	45.1	55.9	147	185	242	378	117	115	172
MAX	80	31	38	58	61	232	232	596	698	175	223	220
MIN	5.4	7.2	33	36	44	44	125	139	181	85	78	86
AC-FT	873	892	2280	2770	3100	9010	10980	14880	22510	7180	7050	10240

CAL YR 1982	TOTAL	30974.3	MEAN	84.9	MAX	290	MIN	4.2	AC-FT	61440
WTR YR 1983	TOTAL	46277.8	MEAN	127	MAX	698	MIN	5.4	AC-FT	91790

10136500 WEBER RIVER AT GATEWAY, UT

LOCATION.--Lat 41°08'13", long 111°49'54", in NE1/4SW1/4SW1/4 sec.27, T.5 N., R.1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft downstream from tailrace of Gateway powerplant, 500 ft upstream from Union Pacific Railroad bridge, 1,200 ft downstream from Strawberry Creek, and 3,200 ft east of section house at Gateway.

DRAINAGE AREA.--1,627 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1889 to June 1893, July to December 1893 (gage heights only), August 1894 to September 1899, August to November 1900, January to October 1901, April to June 1903 (gage heights and discharge measurements only), July to August 1919, August 1920 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Uinta" 1889-1903.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft by barometer. Oct. 13, 1889 to July 11, 1903, nonrecording gage at site 1.2 mi downstream at different datum. June 22, 1919 to Oct. 22, 1929, water-stage recorder at site 900 ft upstream at different datum. Oct. 22, 1929 to Nov. 27, 1964, at sites 1,300 ft downstream at different datums.

REMARKS.--Records good. Many diversions for irrigation above and below station. Water diverted above station by Gateway Canal since July 1957, part of which returns to river above station through tailrace of Gateway hydroelectric powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see stations 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft^3/s May 31, 1896; minimum observed, 33 ft^3/s Feb. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,970 ft^3/s June 1, gage height, 9.26 ft; minimum, 256 ft^3/s Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	706	572	592	463	486	667	1400	2040	5690	2140	796	467
2	560	559	577	459	490	914	1660	2130	5720	2160	733	586
3	347	549	570	467	467	928	1620	2370	5600	2090	682	682
4	338	547	559	441	471	841	1530	2430	5750	1920	682	790
5	333	539	566	419	485	842	1830	2570	5580	1700	710	744
6	338	535	564	415	474	852	1860	2630	5520	1440	672	699
7	464	532	569	472	493	799	1890	2320	5400	1300	699	655
8	481	528	547	492	490	816	1920	2360	5350	1240	694	844
9	503	527	534	465	485	860	1970	2560	5360	1270	784	1250
10	490	528	555	430	486	917	1990	2500	5190	1470	784	1460
11	487	526	550	417	479	1240	1980	2610	5090	1580	750	1260
12	529	523	544	408	479	1390	1910	2610	5020	1520	785	496
13	525	524	539	404	493	1280	1660	2530	4980	1250	716	868
14	524	512	548	400	503	1770	1610	2430	4790	1020	710	1410
15	517	515	540	394	503	1270	1590	2560	4370	954	733	1410
16	515	514	534	393	496	1190	1600	2690	3840	992	750	1410
17	501	519	537	396	493	1120	1620	2540	3550	917	756	1410
18	515	519	537	401	506	1090	1690	2700	3460	844	705	1420
19	525	743	528	408	592	1110	1840	2850	3550	750	738	1410
20	523	625	526	463	540	1040	1820	2700	3590	688	779	1430
21	518	589	538	484	520	1020	2040	2590	3520	639	973	1440
22	500	579	579	488	501	1020	1910	2650	3470	672	1010	1440
23	508	535	690	490	496	1070	1780	2780	3370	688	1250	1440
24	513	507	645	493	508	1200	1940	2870	3220	634	1320	1480
25	512	548	596	493	534	1190	2200	3030	3060	672	1350	1460
26	521	539	562	489	567	1180	2090	3380	2900	666	1300	1460
27	576	538	598	502	547	1180	2150	3820	2820	639	1230	1580
28	546	547	570	542	528	1220	2120	3970	2680	602	1030	1730
29	540	551	603	521	---	1180	2390	4030	2450	602	550	1690
30	564	574	617	509	---	1510	2410	4090	2290	694	525	1660
31	594	---	491	496	---	1510	---	4350	---	733	482	---
TOTAL	15613	16443	17505	14114	14112	34216	56020	87690	127180	34486	25678	36081
MEAN	504	548	565	455	504	1104	1867	2829	4239	1112	828	1203
MAX	706	743	690	542	592	1770	2410	4350	5750	2160	1350	1730
MIN	333	507	491	393	467	667	1400	2040	2290	602	482	467
AC-FT	30970	32610	34720	28000	27990	67870	111100	173900	252300	68400	50930	71570

CAL YR 1982	TOTAL	317783	MEAN	871	MAX	3100	MIN	102	AC-FT	630300
WTR YR 1983	TOTAL	479138	MEAN	1313	MAX	5750	MIN	333	AC-FT	950400

10136500 WEBER RIVER AT GATEWAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1958 to June 1983 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1958 to September 1959.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
05...	1115	336	550	8.2	8.0	10.0	8.3	634	246
NOV									
09...	1130	521	430	7.8	7.0	7.0	8.4	630	195
JAN									
19...	1430	406	470	8.1	3.0	3.0	10.3	626	216
FEB									
25...	1130	540	470	8.4	7.5	4.5	10.1	630	227
MAR									
30...	1145	1360	465	7.9	9.0	5.0	9.7	635	206
APR									
26...	1215	2000	370	7.9	6.5	4.5	10.0	632	174
MAY									
12...	1615	2490	380	8.1	8.5	7.5	9.4	634	172
JUN									
30...	1645	2270	365	8.2	24.5	18.5	7.1	640	174

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
05...	35	69	18	23	17	.7	2.6	212	38
NOV									
09...	34	55	14	14	13	.5	2.0	161	35
JAN									
19...	15	60	16	17	14	.5	2.0	201	28
FEB									
25...	30	63	17	17	14	.5	2.3	198	29
MAR									
30...	--	56	16	16	14	.5	2.2	184	34
APR									
26...	--	50	12	13	14	.4	1.8	157	21
MAY									
12...	--	49	12	13	14	.4	2.1	159	24
JUN									
30...	--	50	12	9.3	10	.3	1.9	164	18

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT									
05...	34	0.2	10	325	0.44	295	0.51	0.03	0.09
NOV									
09...	20	0.2	6.8	245	0.33	345	0.22	<0.01	--
JAN									
19...	23	0.2	7.4	276	0.37	303	0.27	0.01	0.03
FEB									
25...	23	0.2	8.7	280	0.38	408	0.27	0.05	0.15
MAR									
30...	22	0.1	9.5	--	0.36	--	0.28	0.07	0.21
APR									
26...	22	0.2	9.8	--	0.30	--	0.27	0.06	0.18
MAY									
12...	18	<0.1	10	--	0.30	--	0.22	0.06	0.18
JUN									
30...	11	0.1	7.4	208	0.28	1280	0.16	0.02	0.06

10136500 WEBER RIVER AT GATEWAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT				
05...	1115	60	16	13
NOV				
09...	1130	30	6	7
JAN				
19...	1430	30	6	11
FEB				
25...	1130	30	<3	18
MAR				
30...	1145	30	25	14
APR				
26...	1215	30	51	8
MAY				
12...	1615	30	27	11
JUN				
30...	1645	20	40	29

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°16'07", long 111°40'24", in SE1/4NE1/4SW1/4 sec.12, T.6 N., R.2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi downstream from Magpie Creek, 0.5 mi upstream from Huntsville Mountain Canal, 5.0 mi downstream from Causey Dam, and 5.0 mi east of Huntsville.

DRAINAGE AREA.--137 mi^2.

PERIOD OF RECORD.--March 1921 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft by barometer. Prior to Aug. 14, 1934, at site 300 ft upstream at different datum.

REMARKS.--Records good. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--62 years, 113 ft^3/s, 81,870 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/s May 3, 1952, gage height, 5.98 ft; minimum, 9 ft^3/s Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft^3/s May 30, gage height, 5.23 ft; minimum, 47 ft^3/s Nov. 14-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	57	57	94	61	80	135	503	1240	194	121	85
2	72	55	55	94	62	96	139	506	1150	198	121	86
3	64	54	52	94	61	103	133	554	1020	187	121	106
4	61	53	50	95	60	106	139	565	1060	178	118	96
5	56	52	50	108	61	107	144	637	997	170	115	86
6	54	52	52	112	60	110	141	608	931	164	113	79
7	54	52	54	115	61	112	139	563	882	160	113	79
8	52	51	53	112	61	116	137	629	846	152	113	79
9	51	50	51	107	60	130	137	644	827	152	132	76
10	50	50	50	104	60	142	142	553	744	146	110	76
11	50	50	50	102	60	189	148	512	704	137	106	76
12	50	50	50	101	60	226	144	478	613	132	103	76
13	49	50	52	100	61	210	141	466	536	126	103	76
14	48	49	53	99	61	296	139	464	474	123	102	76
15	48	49	53	99	61	277	139	474	436	125	102	75
16	48	49	53	100	61	246	142	471	409	120	103	75
17	48	49	53	101	62	210	156	462	382	116	106	75
18	48	51	53	104	63	176	176	485	357	112	102	75
19	48	72	54	102	64	166	210	517	335	109	94	75
20	48	64	54	99	63	156	261	558	314	106	94	75
21	48	61	54	99	63	144	285	640	294	104	92	76
22	48	59	130	96	64	120	299	709	274	102	90	78
23	48	56	120	97	64	190	317	753	261	102	88	78
24	48	62	112	80	65	220	382	799	248	100	88	79
25	48	60	100	62	67	230	450	979	236	123	88	78
26	52	56	95	62	70	180	445	1120	231	128	88	78
27	53	56	99	62	71	160	489	1210	217	125	86	81
28	50	55	96	63	72	140	471	1200	207	125	86	81
29	50	56	94	62	---	140	493	1200	205	121	85	80
30	57	58	94	62	---	135	510	1270	198	121	85	80
31	59	---	94	62	---	139	---	1320	---	123	85	---
TOTAL	1632	1638	2137	2849	1759	5052	7183	21849	16628	4181	3153	2391
MEAN	52.6	54.6	68.9	91.9	62.8	163	239	705	554	135	102	79.7
MAX	72	72	130	115	72	296	510	1320	1240	198	132	106
MIN	48	49	50	62	60	80	133	462	198	100	85	75
AC-FT	3240	3250	4240	5650	3490	10020	14250	43340	32980	8290	6250	4740

CAL YR 1982	TOTAL	66567	MEAN	182	MAX	1200	MIN	25	AC-FT	132000
WTR YR 1983	TOTAL	70452	MEAN	193	MAX	1320	MIN	48	AC-FT	139700

10139300 WHEELER CREEK NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°15'14", long 111°50'32", in SW1/4NW1/4SE1/4 sec.16, T.6 N., R.1 E., Weber County, Hydrologic Unit 16020102, on right bank 150 ft upstream from mouth, 150 ft downstream from culvert under State Highway 39, 250 ft downstream from Pine View Dam on Ogden River, 3.8 mi west of Huntsville, and 7.2 mi east of Ogden.

DRAINAGE AREA.--11.1 mi^2.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--Records good except those of no gage-height record, July 24 to Aug. 24, which are fair.

AVERAGE DISCHARGE.--25 years, 10.2 ft^3/s, 7,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft^3/s May 21, 1981, gage height, 3.95 ft from indirect measurement; no flow Dec. 5, 1962, July 25, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 19	0430	133	*2.63
Mar. 11	1700	*174	2.62
May 31	0330	146	2.28

Minimum daily, 2.1 ft^3/s Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	4.5	2.6	3.3	12	30	60	108	26	10	4.5
2	16	9.6	4.2	2.6	3.0	29	29	58	104	23	10	4.5
3	10	8.6	4.2	2.7	2.7	31	27	58	97	21	9.6	5.0
4	7.2	8.2	4.0	2.9	2.8	27	24	59	84	20	9.4	4.8
5	6.0	7.7	4.2	3.3	2.9	27	23	70	63	19	9.2	4.5
6	5.1	6.9	4.2	3.8	3.0	27	22	64	71	19	9.0	4.2
7	5.1	6.0	4.2	3.8	3.1	24	22	58	97	19	8.8	4.2
8	4.9	5.9	4.0	3.8	3.3	23	22	63	104	19	8.6	4.2
9	4.5	5.8	3.3	3.8	3.3	28	24	60	104	22	14	3.8
10	4.2	5.7	3.8	3.8	3.3	33	35	51	101	19	12	3.8
11	4.2	5.4	3.7	3.6	3.1	72	32	48	110	18	13	3.8
12	4.0	5.1	3.5	3.2	3.1	49	29	45	108	22	11	3.6
13	4.0	5.0	3.3	2.8	3.8	41	27	44	101	21	10	3.6
14	3.8	4.4	3.2	2.8	4.0	78	26	52	81	20	9.1	3.3
15	3.8	4.6	3.4	2.9	3.6	44	28	56	74	19	8.6	3.3
16	3.8	4.5	3.6	3.1	3.6	36	31	53	74	18	8.6	2.9
17	3.8	4.5	3.5	3.3	3.3	32	35	48	77	17	9.0	2.9
18	3.8	4.9	3.3	3.7	4.0	30	52	58	87	16	9.4	2.7
19	3.9	43	3.2	3.5	4.8	28	58	94	97	16	10	2.7
20	4.0	16	3.1	3.6	4.0	24	74	65	84	14	12	2.9
21	4.0	12	3.3	3.6	4.0	23	64	68	87	14	10	2.9
22	4.0	10	3.6	3.6	4.0	23	62	74	84	14	8.6	2.9
23	4.0	5.6	3.6	3.6	4.0	22	64	77	81	12	8.0	2.9
24	4.0	3.0	2.7	3.6	4.0	22	63	84	81	11	6.0	2.9
25	4.3	3.8	2.5	3.3	4.5	20	51	94	71	15	5.3	2.7
26	8.2	3.7	2.5	3.6	5.3	20	44	104	60	14	5.3	2.7
27	11	3.5	2.5	4.0	4.8	20	45	104	58	12	5.3	5.6
28	8.8	3.8	2.3	4.0	4.8	20	48	112	39	12	5.0	4.0
29	8.2	4.0	2.1	3.8	---	20	55	112	32	11	5.0	3.1
30	13	4.5	2.3	3.8	---	34	60	121	26	11	4.8	3.3
31	13	---	2.5	3.8	---	35	---	115	---	11	4.5	---
TOTAL	204.6	226.7	104.3	106.3	103.4	954	1206	2229	2445	525	269.1	108.2
MEAN	6.60	7.56	3.36	3.43	3.69	30.8	40.2	71.9	81.5	16.9	8.68	3.61
MAX	20	43	4.5	4.0	5.3	78	74	121	110	26	14	5.6
MIN	3.8	3.0	2.1	2.6	2.7	12	22	44	26	11	4.5	2.7
AC-FT	406	450	207	211	205	1890	2390	4420	4850	1040	534	215

CAL YR 1982	TOTAL	6435.19	MEAN	17.6	MAX	137	MIN	.70	AC-FT	12760
WTR YR 1983	TOTAL	8481.6	MEAN	23.2	MAX	121	MIN	2.1	AC-FT	16820

10141000 WEBER RIVER NEAR PLAIN CITY, UT

LOCATION.--Lat 41°16'42", long 112°05'28", in NW1/4NW1/4NE1/4 sec.8, T.6 N., R.2 W., Weber County, Hydrologic Unit 16020102, on upstream side of right highway bridge abutment, on State Highway 40, 1 mi downstream from Fourmile Creek, 1.5 mi south of Plain City, and 6 mi upstream from mouth.

DRAINAGE AREA.--2,081 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,207.10 ft NGVD of 1929. Prior to Aug. 29, 1949, nonrecording gage at same site and datum, and Aug. 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft upstream at same datum.

REMARKS.--Records good. Practically entire flow is diverted during summer months for irrigation above station. Flow regulated by Rockport, Echo, Lost Creek, East Canyon, and Pine View Reservoirs; also diversion above station to Willard Bay Reservoir (see stations 10129400, 10131500, 10132490, 10134000, and 10140800).

AVERAGE DISCHARGE.--18 years (1966-83), 532 ft^3/s, 385,400 acre-ft/yr since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/s May 6, 1952, gage height, 19.01 ft; practically no flow during latter part of several summers since 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,250 ft^3/s June 2, gage height, 18.51 ft; minimum daily, 96 ft^3/s Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	800	960	794	980	359	1790	2860	5750	1730	185	205
2	347	767	888	783	1000	544	1950	2740	6730	1690	157	266
3	312	750	834	785	960	630	2050	2840	7060	1730	120	448
4	290	746	806	810	970	573	1990	2950	6810	1560	96	623
5	266	742	794	787	1000	498	2070	3060	6730	1390	101	647
6	202	736	785	771	1000	530	2370	3160	6630	1180	100	564
7	382	730	800	802	1050	519	2560	3130	6270	920	101	443
8	667	726	771	853	1010	483	2480	2890	5780	800	107	549
9	667	720	712	838	1020	495	2490	3120	5730	680	117	890
10	663	720	657	794	994	569	2510	3340	5700	760	192	1230
11	651	716	651	688	946	672	2450	3390	5580	860	169	1260
12	678	706	642	533	942	1100	2230	3560	5550	760	157	463
13	674	706	642	497	1050	1100	1880	3400	5380	610	160	309
14	619	690	638	386	1090	1620	1700	3180	4990	510	107	1020
15	611	688	636	377	299	1210	1670	3170	4540	440	104	1100
16	613	686	626	373	215	1000	1680	3460	3890	430	272	1090
17	611	678	647	376	234	940	1680	3280	3250	360	344	1090
18	604	696	649	352	230	920	1750	3260	2970	300	466	1100
19	621	978	642	317	367	980	1820	3610	2960	222	573	1120
20	643	935	636	530	310	940	1870	3580	2920	167	574	1130
21	686	817	672	344	287	920	2130	3560	2700	147	728	1150
22	680	779	802	310	307	900	2090	3500	2490	148	781	1170
23	674	742	1020	321	290	1200	1880	3580	2600	156	942	1200
24	678	698	1050	319	291	1600	1950	3720	2500	146	1140	1210
25	696	716	1040	331	300	2160	2290	3760	2050	165	1160	1190
26	781	720	969	478	355	2050	2280	3870	1940	196	1060	1170
27	860	714	1000	904	376	1950	2360	4430	1880	151	1000	1410
28	773	728	976	1080	334	1880	2400	4910	1860	117	836	1670
29	748	742	937	1060	---	2000	2620	5150	1860	98	443	1630
30	777	882	935	1020	---	1980	2840	5280	1890	104	295	1690
31	845	---	882	990	---	1970	---	5460	---	141	244	---
TOTAL	18743	22454	24699	19603	18207	34292	63830	111200	126990	18668	12831	29037
MEAN	605	748	797	632	650	1106	2128	3587	4233	602	414	968
MAX	860	978	1050	1080	1090	2160	2840	5460	7060	1730	1160	1690
MIN	202	678	626	310	215	359	1670	2740	1860	98	96	205
AC-FT	37180	44540	48990	38880	36110	68020	126600	220600	251900	37030	25450	57590

CAL YR 1982	TOTAL	324730	MEAN	890	MAX	3490	MIN	57	AC-FT	644100
WTR YR 1983	TOTAL	500554	MEAN	1371	MAX	7060	MIN	96	AC-FT	992800

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.
SPECIFIC CONDUCTANCE: October 1975 to September 1981, once daily (discontinued).
WATER TEMPERATURES: October 1975 to September 1981, once daily (discontinued).
SEDIMENT DATA: October 1976 to current year, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,130 micromhos May 16, 1977; minimum, 120 micromhos November 11, 1978.
WATER TEMPERATURES: Maximum, 28.5°C June 25, 26, 1977; minimum, 0.0°C Dec. 31, 1978, Jan. 1, 1979, Jan. 31, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
30...	1530	905	475	8.0	6.0	5.0	3.5	9.1	626	210
FEB										
28...	1430	349	690	8.0	12.0	6.5	5.8	9.4	645	26
MAY										
25...	1300	3680	290	8.3	24.5	11.0	130	8.3	650	490
AUG										
29...	1700	377	540	8.1	31.0	18.5	20	7.0	650	410

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV									
30...	240	190	3.8	51	15	24	21	0.8	3.7
FEB									
28...	24	260	5.3	68	23	48	28	1.3	5.7
MAY									
25...	400	130	2.6	37	9.1	11	15	0.4	1.9
AUG									
29...	130	210	4.2	57	16	27	22	0.8	3.5

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV									
30...	190	26	35	0.2	7.9	275	275	0.37	672
FEB									
28...	250	33	68	0.2	11	408	408	0.55	384
MAY									
25...	120	16	14	0.2	9.3	170	169	0.23	1690
AUG									
29...	200	22	40	0.2	10	291	297	0.4	296

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV									
30...	0.16	0.21	2.00	0.58	0.39	1.2	0.22	0.12	0.37
FEB									
28...	0.20	0.26	1.60	0.94	0.90	2.8	0.74	0.55	1.7
MAY									
25...	0.09	0.12	1.10	0.39	0.37	1.1	0.07	0.08	0.25
AUG									
29...	0.24	0.31	1.00	0.97	0.35	1.1	0.35	0.35	1.1

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV											
30...	1530	<10	2	93.00	<0.50	<1	<1	<3.00	3	10	<1
FEB											
28...	1430	<10	3	110	<0.50	<1	<1	<3.00	4	<3.00	2
MAY											
25...	1300	90	1	64.00	<0.50	<1	<1	<3.00	5	100	2
AUG											
29...	1700	<10	4	110	<0.50	<1	<1	<3.00	2	4.00	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
30...	30	28	0.1	<10	<1	<1	<1	220	<6.0	10
FEB										
28...	50	59	<0.1	<10	3	<1	<1	300	<6.0	10
MAY										
25...	10	11	<0.1	<10	7	<1	<1	130	<6.0	4.00
AUG										
29...	40	52	<0.1	20	36	1	1	230	<6.0	7.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV						
30...	1530	905	5.0	88	113	276
FEB						
28...	1430	349	6.5	73	32	30
MAY						
25...	1300	3680	11.0	82	285	2830
AUG						
29...	1700	377	18.5	83	59	60

10141040 HOOPER SLOUGH NEAR HOOPER, UT

LOCATION.--Lat 41°11'26", long 112°09'07", in NE1/4NE1/4NW1/4 sec.11, T.5 N., R.3 W., Weber County, Hydrologic Unit 16020102, on upstream end of left wingwall of bridge-covered Parshall flume, 0.5 mi east of 7500 West Street, 1.7 mi north of Hooper and 0.2 mi upstream from mouth.

DRAINAGE AREA.--13.0 mi^2.

PERIOD OF RECORD.--March 1975 to September 1977, September 1978 to current year.

GAGE.--Water-stage recorder on 6-ft concrete Parshall flume. Altitude of gage is 4,212 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 15.4 ft^3/s, 11,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83 ft^3/s Mar. 26, 1975, gage height, 3.17 ft; minimum, 1.4 ft^3/s Apr. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 65 ft^3/s May 2, Aug. 19; minimum daily, 6.7 ft^3/s Jan. 2, 3, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	12	34	7.2	19	16	17	61	28	12	30	34
2	52	11	20	6.7	16	15	16	65	31	29	26	32
3	43	9.8	16	6.7	14	14	16	55	38	36	23	37
4	32	9.4	15	6.8	12	13	17	44	42	35	21	36
5	22	9.2	14	6.7	11	14	18	35	40	30	23	33
6	19	8.8	12	7.6	10	13	18	30	37	17	28	32
7	17	8.5	11	9.8	11	13	16	29	35	21	24	30
8	16	8.3	10	9.8	13	15	14	24	35	22	22	28
9	15	8.2	9.3	9.0	14	14	14	21	34	16	27	26
10	14	8.0	9.3	8.6	23	13	13	20	33	22	34	20
11	13	7.8	9.0	8.4	21	12	13	24	34	30	30	18
12	12	7.5	8.8	8.3	20	12	13	45	35	25	36	21
13	12	7.4	8.8	8.0	23	13	12	39	35	21	36	16
14	11	6.9	8.9	7.8	54	18	11	27	32	22	27	22
15	11	7.4	8.9	7.7	44	16	11	24	30	25	28	21
16	9.4	7.5	8.2	7.5	29	13	10	33	25	23	43	26
17	9.1	7.6	8.2	7.5	22	14	9.9	28	20	28	54	19
18	9.4	7.6	9.0	7.6	20	28	9.9	24	24	20	56	21
19	9.3	15	8.7	7.7	21	28	9.6	30	18	21	65	24
20	9.5	12	9.4	8.0	18	29	9.6	25	17	21	59	25
21	9.2	11	12	8.2	16	23	16	20	18	20	56	26
22	9.1	9.8	18	8.5	15	19	16	18	18	22	59	26
23	9.2	8.4	27	9.1	14	35	14	18	16	25	52	23
24	17	8.0	17	10	14	56	12	18	16	24	46	19
25	21	8.2	13	10	13	48	12	18	20	33	43	16
26	18	8.0	11	12	13	40	14	18	22	42	39	16
27	17	8.0	9.8	14	15	28	14	18	24	32	33	21
28	17	8.7	8.4	26	17	26	13	21	21	26	36	27
29	17	10	8.1	26	---	21	13	27	21	20	37	21
30	15	20	7.0	24	---	18	23	28	13	20	46	21
31	12	---	7.0	25	---	16	---	27	---	21	43	---
TOTAL	548.2	280.0	376.8	330.2	532	653	415.0	914	812	761	1182	737
MEAN	17.7	9.33	12.2	10.7	19.0	21.1	13.8	29.5	27.1	24.5	38.1	24.6
MAX	52	20	34	26	54	56	23	65	42	42	65	37
MIN	9.1	6.9	7.0	6.7	10	12	9.6	18	13	12	21	16
AC-FT	1090	555	747	655	1060	1300	823	1810	1610	1510	2340	1460

CAL YR 1982	TOTAL	6886.0	MEAN	18.9	MAX	56	MIN	5.2	AC-FT	13660
WTR YR 1983	TOTAL	7541.2	MEAN	20.7	MAX	65	MIN	6.7	AC-FT	14960

10141400 HOWARD SLOUGH AT HOOPER, UT

LOCATION.--Lat 41°08'25", long 112°07'17", in SW1/4SW1/4NE1/4 sec.25, T.5 N., R.3 W., Davis County, Hydrologic Unit 16020102, on upstream end of left wingwall of bridge on State Highway 37, 1.5 mi south of Hooper and 2.7 mi upstream from mouth.

DRAINAGE AREA.--20.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year. Records collected at this site by U.S. Bureau of Reclamation June 1952 to September 1955.

GAGE.--Water-stage recorder. Altitude of gage is 4,215 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years, 28.2 ft^3/s, 20,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 294 ft^3/s Feb. 15, 1979, gage height, 3.97 ft; minimum, 1.8 ft^3/s Apr. 30-May 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 120 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 1	1530	144	2.63
Dec. 1	0100	133	2.50
Feb. 13	2300	190	3.12
Mar. 23	2000	159	3.48
May 1	1630	*198	3.56
Aug. 20	1500	150	2.94

Minimum, 13 ft^3/s May 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	32	110	22	39	39	39	156	54	27	55	54
2	97	28	69	21	35	36	37	89	65	32	49	58
3	69	27	49	21	32	36	41	44	35	41	46	69
4	53	27	45	21	29	37	45	34	38	42	38	63
5	37	27	42	21	28	40	38	29	48	37	37	56
6	39	26	39	23	27	39	36	30	35	31	34	55
7	38	26	36	30	32	41	32	26	39	28	35	56
8	36	25	32	30	34	48	32	21	40	36	30	56
9	34	25	29	28	52	41	30	18	46	33	34	62
10	32	25	29	27	55	40	30	16	51	49	43	59
11	32	24	28	26	45	40	31	35	48	44	45	54
12	31	23	28	26	42	42	29	69	54	41	46	46
13	31	23	27	25	80	42	27	35	49	42	44	44
14	30	22	28	26	138	65	25	26	38	36	46	55
15	29	24	27	26	67	48	26	27	28	34	49	57
16	27	23	26	25	51	44	25	49	28	50	84	55
17	24	24	26	25	41	63	25	29	27	41	116	55
18	23	24	28	26	42	78	26	25	31	40	125	50
19	22	46	27	26	47	76	26	45	35	37	130	53
20	22	37	29	26	39	69	22	28	35	31	128	54
21	22	34	33	26	37	58	39	23	32	33	119	57
22	22	30	60	27	35	55	24	21	24	32	122	59
23	23	27	87	29	34	126	20	22	26	38	92	55
24	24	25	49	28	33	98	17	40	28	40	84	58
25	25	26	38	32	33	85	25	35	25	44	65	60
26	47	25	34	33	36	63	24	32	29	57	57	56
27	62	25	32	35	41	54	20	33	28	51	55	88
28	32	27	25	75	39	54	19	42	23	48	51	65
29	31	31	25	48	---	43	22	37	22	41	51	54
30	36	74	21	56	---	40	76	35	22	41	64	66
31	39	---	21	47	---	42	---	39	---	54	65	---
TOTAL	1184	862	1179	937	1243	1682	908	1190	1083	1231	2039	1729
MEAN	38.2	28.7	38.0	30.2	44.4	54.3	30.3	38.4	36.1	39.7	65.8	57.6
MAX	115	74	110	75	138	126	76	156	65	57	130	88
MIN	22	22	21	21	27	36	17	16	22	27	30	44
AC-FT	2350	1710	2340	1860	2470	3340	1800	2360	2150	2440	4040	3430

CAL YR 1982	TOTAL	12149.1	MEAN	33.3	MAX	149	MIN	7.9	AC-FT	24100
WTR YR 1983	TOTAL	15267	MEAN	41.8	MAX	156	MIN	16	AC-FT	30280

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to August 1978, October 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
14...	1100	31	850	7.9	17.0	9.5	6.7	655	311
NOV									
09...	1430	24	870	7.9	8.0	8.0	6.3	645	314
JAN									
11...	1130	27	860	8.0	2.5	1.0	9.1	660	319
FEB									
24...	1045	33	1100	8.3	10.0	4.5	8.7	643	371
MAR									
31...	1145	39	1280	8.0	6.0	7.5	7.9	645	366
APR									
27...	1045	20	1370	8.1	15.5	8.5	8.8	647	412
MAY									
19...	1200	53	1470	8.2	12.5	11.5	8.6	650	325
JUN									
07...	1300	42	640	8.3	25.0	18.5	7.0	648	230
AUG									
26...	1700	48	790	8.1	25.0	24.0	6.1	650	274
SEP									
07...	1315	55	640	8.1	31.0	19.5	6.1	--	238

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
14...	.00	62	38	65	30	1.6	12	328	50
NOV									
09...	.00	58	41	71	32	1.8	12	337	54
JAN									
11...	.00	60	41	69	31	1.7	12	341	53
FEB									
24...	.00	66	50	110	38	2.5	16	406	71
MAR									
31...	--	59	53	140	44	3.3	18	432	90
APR									
27...	--	61	63	150	43	3.3	22	485	89
MAY									
19...	--	46	51	180	51	4.4	38	477	87
JUN									
07...	--	51	25	45	29	1.3	7.7	245	35
AUG									
26...	--	57	32	52	28	1.4	9.2	299	46
SEP									
07...	--	54	25	35	24	1.0	6.6	255	--

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 14...	55	0.4	16	496	0.67	41.5	2.7	0.06	0.18
NOV 09...	61	0.4	17	517	0.70	34.1	3.1	0.13	0.40
JAN 11...	63	0.4	19	523	0.71	38.4	3.4	0.19	0.58
FEB 24...	89	0.5	20	667	0.91	58.9	4.2	0.31	0.95
MAR 31...	120	0.5	21	762	1.0	80.9	5.7	0.41	1.3
APR 27...	130	0.5	23	831	1.1	44.9	5.2	0.44	1.3
MAY 19...	150	0.2	19	862	1.2	123	3.2	1.4	4.3
JUN 07...	39	0.3	15	366	0.50	41.5	1.1	0.24	0.74
AUG 26...	45	0.3	19	440	0.60	57.1	2.0	0.12	0.37
SEP 07...	35	0.2	15	--	--	--	1.1	0.09	0.28

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
APR 27...	1045	78	180	<1	<10	2	<1	120	<.1	1	<1	9

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 14...	1100	220	10	21
NOV 09...	1430	200	9	17
JAN 11...	1130	180	9	39
FEB 24...	1045	260	5	32
MAR 31...	1145	350	12	40
APR 27...	1045	410	23	47
MAY 19...	1200	600	63	45
JUN 07...	1300	140	86	30
AUG 26...	1700	190	11	17
SEP 07...	1315	--	10	17

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
APR 27...	1045	<.01

10146400 CURRANT CREEK NEAR MONA, UT

LOCATION.--Lat 39°48'09", long 111°51'44", in NE1/4SW1/4NW1/4, sec.6, T.12 S., R.1 E., Juab County, Hydrologic Unit 16020201, on left bank 20 ft upstream from old bridge crossing, 300 ft downstream from Burriston ponds, 0.5 mi upstream from Mount Nebo Reservoir, 2 mi southwest of Mona.

DRAINAGE AREA.--73.8 mi^2.

PERIOD OF RECORD.--June 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years, 37.8 ft^3/s, 27,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 454 ft^3/s May 31, 1983, gage height, 6.77 ft; minimum, 3.4 ft^3/s Aug. 1-4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 454 ft^3/s May 31, gage height, 6.77 ft; minimum, 20 ft^3/s July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	86	115	28	66	177	101	243	419	90	25	26
2	56	59	96	28	50	96	91	274	416	104	25	34
3	44	47	55	28	45	77	109	206	378	118	25	39
4	38	45	45	32	43	115	109	211	351	111	24	49
5	39	43	41	38	49	211	91	245	345	94	22	47
6	42	41	38	37	46	120	80	253	332	70	22	37
7	39	40	35	56	54	84	76	268	325	62	22	31
8	40	43	32	53	80	80	75	214	306	68	22	36
9	40	61	36	52	103	70	74	270	289	82	23	35
10	37	75	40	41	94	66	71	320	290	91	29	30
11	35	68	48	38	78	73	80	390	286	85	31	29
12	34	52	49	39	75	84	111	265	294	71	28	30
13	34	44	37	38	87	91	112	240	270	55	27	33
14	33	38	34	40	106	110	89	225	230	42	26	32
15	33	37	36	40	85	111	80	245	208	25	26	31
16	32	42	45	44	84	98	77	232	205	25	29	29
17	30	42	39	56	86	107	77	232	223	26	36	28
18	30	44	40	56	86	145	84	192	202	24	40	31
19	28	58	38	53	116	116	98	202	233	23	47	31
20	31	56	36	58	87	95	104	204	213	21	43	33
21	34	47	42	55	69	85	188	230	200	21	45	33
22	34	44	63	48	62	83	145	316	200	23	43	32
23	35	35	120	51	61	87	129	377	186	28	36	39
24	35	34	80	51	64	97	146	427	165	31	33	52
25	37	36	58	65	71	115	200	397	170	27	34	51
26	49	36	46	67	79	118	210	389	153	26	33	47
27	87	38	40	70	89	93	160	400	151	24	35	70
28	58	45	34	108	185	101	169	419	115	24	34	61
29	43	64	32	93	---	94	180	426	101	24	33	56
30	51	99	30	80	---	82	225	432	91	24	30	67
31	107	---	29	73	---	87	---	443	---	23	26	---
TOTAL	1352	1499	1509	1616	2200	3168	3541	9187	7347	1562	954	1179
MEAN	43.6	50.0	48.7	52.1	78.6	102	118	296	245	50.4	30.8	39.3
MAX	107	99	120	108	185	211	225	443	419	118	47	70
MIN	28	34	29	28	43	66	71	192	91	21	22	26
AC-FT	2680	2970	2990	3210	4360	6280	7020	18220	14570	3100	1890	2340

CAL YR 1982	TOTAL	13712.9	MEAN	37.6	MAX	153	MIN	9.9	AC-FT	27200
WTR YR 1983	TOTAL	35114	MEAN	96.2	MAX	443	MIN	21	AC-FT	69650

10148200 TIE FORK NEAR SOLDIER SUMMIT, UT

LOCATION.--39°57'00", long 111°12'58", in NE1/4NE1/4SW1/4 sec.14, T.10 S., R.6 E., Utah County, Hydrologic Unit 16020202, on right bank 230 ft upstream from mouth and U.S. Highway 6-50, 250 ft downstream from Denver & Rio Grande Western Railroad, 7.4 mi west of Soldier Summit, and 15.2 mi east of Thistle.

DRAINAGE AREA.--19.4 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 6,120 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion.

AVERAGE DISCHARGE.--20 years, 5.64 ft^3/s, 4,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft^3/s Aug. 21, 1983, result of instantaneous removal of upstream blockage, gage height, about 7.85 ft from high-water mark, from rating curve extended above 26 ft^3/s on basis of slope-area measurement; minimum, 0.15 ft^3/s Aug. 19, 20, 1983, result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 2	0100	87	3.67
Aug. 17	1600	42	2.52
Aug. 21	0200	*1,200 (1)	7.85 (1)

(1) Figures are approximate, high flow was result of an instantaneous removal of upstream blockage.

Minimum, 0.15 ft^3/s Aug. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	4.9	4.4	3.1	3.6	4.2	7.9	26	82	29	16	7.0
2	5.6	4.7	4.3	3.1	3.4	4.4	8.1	27	75	29	16	7.2
3	5.6	4.6	4.2	3.4	3.1	4.4	8.3	28	71	28	16	6.7
4	5.6	4.6	4.4	3.8	3.4	4.3	8.2	30	65	27	15	9.0
5	5.6	4.6	4.3	3.8	3.6	4.2	8.3	32	58	26	15	7.4
6	5.5	4.6	4.3	3.8	3.4	4.3	8.2	33	54	26	15	6.8
7	5.3	4.5	4.2	4.0	3.6	4.4	8.4	34	53	25	15	6.2
8	5.3	4.8	4.1	3.8	3.6	4.6	8.5	36	51	25	15	6.2
9	5.5	4.7	4.2	4.0	3.6	4.9	8.6	39	47	25	14	6.2
10	5.3	4.7	4.2	3.8	3.5	5.3	8.7	41	45	24	13	6.0
11	5.2	4.6	4.1	3.6	3.5	5.7	9.1	43	44	23	13	5.8
12	5.2	4.5	3.7	3.2	3.5	6.1	9.1	43	44	23	14	5.6
13	5.1	4.4	3.9	3.5	3.5	6.3	9.1	45	42	22	13	5.9
14	5.0	3.5	4.1	3.8	3.5	6.8	9.0	44	40	21	13	5.5
15	5.0	4.1	4.2	4.0	3.5	6.9	9.1	44	38	21	13	5.8
16	4.9	4.4	4.0	4.0	3.5	7.1	9.5	44	37	21	13	6.1
17	5.0	4.5	4.0	4.0	3.4	7.5	9.7	43	36	20	14	6.4
18	4.9	4.4	4.0	4.0	3.4	7.7	10	43	36	19	12	6.0
19	4.9	4.5	3.9	3.8	3.4	7.7	11	43	35	19	9.7	6.0
20	4.8	4.4	4.5	3.8	3.6	7.5	12	41	34	19	.20	6.2
21	4.8	4.4	4.0	3.8	3.9	7.5	13	42	33	18	24	8.5
22	4.8	4.4	4.0	3.8	3.5	7.5	14	44	33	18	9.0	11
23	4.8	3.7	4.1	3.8	3.6	7.6	15	48	33	18	8.2	9.4
24	4.8	3.6	4.0	3.8	3.8	7.6	17	52	32	18	8.0	8.2
25	4.9	4.4	3.2	3.8	3.6	7.5	19	56	31	18	7.6	7.2
26	5.0	4.3	2.8	3.8	3.5	7.4	20	60	31	17	7.8	6.3
27	5.0	4.3	3.4	3.8	3.6	7.5	21	63	30	17	7.6	7.6
28	4.9	4.4	3.2	3.8	3.5	7.5	23	68	30	17	7.2	6.6
29	4.9	4.4	3.0	3.7	---	7.3	24	72	29	16	8.1	6.3
30	5.0	4.4	2.6	3.6	---	7.7	26	77	29	16	7.5	8.0
31	5.2	---	2.9	3.6	---	8.0	---	84	---	16	6.8	---
TOTAL	159.2	132.3	120.2	115.6	98.6	197.4	372.8	1425	1298	661	366.70	207.1
MEAN	5.14	4.41	3.88	3.73	3.52	6.37	12.4	46.0	43.3	21.3	11.8	6.90
MAX	5.8	4.9	4.5	4.0	3.9	8.0	26	84	82	29	24	11
MIN	4.8	3.5	2.6	3.1	3.1	4.2	7.9	26	29	16	.20	5.5
AC-FT	316	262	238	229	196	392	739	2830	2570	1310	727	411

CAL YR 1982	TOTAL	3483.5	MEAN	9.54	MAX	50	MIN	1.8	AC-FT	6910
WTR YR 1983	TOTAL	5153.90	MEAN	14.1	MAX	84	MIN	.20	AC-FT	10220

10150500 SPANISH FORK AT CASTILLA, UT

LOCATION.--Lat 40°02'59", long 111°32'50", in SE1/4NE1/4NW1/4 sec.12, T.9 S., R.3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft upstream from outlet of Cold Springs, 0.9 mi upstream from diversion dam of Bureau of Reclamation, 1.5 mi northwest of Castilla, and 2.8 mi downstream from Diamond Fork.

DRAINAGE AREA.--652 mi^2.

PERIOD OF RECORD.--September 1889 to December 1890, April 1903 to November 1917, May 1919 to September 1925, January 1933 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Spanish Fork" 1889-90, 1903-08.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,870 ft from topographic map. Prior to May 3, 1919, nonrecording gages at various sites 1.5 mi to 2.5 mi downstream from present site at different datums below power canal, which began diverting late in 1908. May 3, 1919, to Apr. 14, 1920, nonrecording gage, Apr. 15, 1920, to Sept. 30, 1925, and Jan. 1, 1933, to Apr. 16, 1940, water-stage recorder, at present site upstream from power canal at datum 2.00 ft lower.

REMARKS.--Records fair. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir, capacity, 270,000 acre-ft, in Colorado River Basin via Strawberry Tunnel for irrigation in vicinity of Spanish Fork. Flow affected by mudslide and draining of resultant lake about 5 mi upstream Apr. 14 to Sept. 30, 1983.

AVERAGE DISCHARGE.--13 years (1890, 1903-14), 172 ft^3/s; 59 years (1914-17, 1919-25, 1933-83), 222 ft^3/s, 160,800 acre-ft/yr; includes transmountain diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,610 ft^3/s May 3, 1952, gage height, 9.83 ft; minimum, 5.8 ft^3/s Dec. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,980 ft^3/s May 30, gage height, 10.67 ft; minimum, 65 ft^3/s Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	151	136	97	119	162	361	421	2630	600	326	320
2	179	140	129	99	113	191	358	404	2770	625	320	310
3	173	134	123	99	99	205	378	404	2720	604	320	320
4	156	129	117	109	113	215	333	418	2700	587	330	350
5	150	129	131	121	123	217	314	418	2620	596	340	355
6	143	129	123	127	113	213	306	496	2560	583	350	330
7	143	127	125	125	123	208	309	457	2310	579	360	300
8	146	134	127	123	123	210	317	505	2080	566	366	310
9	143	155	129	121	123	220	322	574	2030	549	366	320
10	140	151	131	115	123	242	395	527	1990	537	366	310
11	140	142	129	115	119	301	421	496	1950	533	370	300
12	140	134	125	111	119	395	384	454	1910	541	393	292
13	138	136	123	113	123	407	356	424	1770	531	397	292
14	136	119	127	113	125	448	344	410	1610	541	389	286
15	134	121	125	115	121	401	339	410	1520	545	408	280
16	134	123	127	115	123	339	265	454	1420	537	320	274
17	136	125	123	119	121	336	168	481	1340	528	310	270
18	134	127	125	119	125	320	173	530	1240	516	408	262
19	136	136	109	115	129	304	230	613	1180	504	374	255
20	136	134	117	117	123	285	312	677	1130	496	340	255
21	134	131	131	117	121	275	401	784	1100	492	325	270
22	134	127	131	117	121	270	436	989	1030	488	320	288
23	134	117	140	117	125	278	466	1260	937	476	314	300
24	131	111	129	117	129	267	475	1480	881	404	310	308
25	134	127	105	119	138	262	436	1880	830	400	308	280
26	140	117	90	117	140	260	370	2270	780	350	304	292
27	153	113	109	117	142	265	370	2330	735	294	300	280
28	142	125	113	121	144	291	389	2590	708	320	310	252
29	138	127	101	119	---	275	384	2700	669	346	338	240
30	140	131	95	121	---	312	386	2710	630	320	355	220
31	166	---	95	119	---	404	---	2680	---	340	360	---
TOTAL	4482	3902	3740	3589	3460	8778	10498	31246	47780	15328	10697	8721
MEAN	145	130	121	116	124	283	350	1008	1593	494	345	291
MAX	199	155	140	127	144	448	475	2710	2770	625	408	355
MIN	131	111	90	97	99	162	168	404	630	294	300	220
AC-FT	8890	7740	7420	7120	6860	17410	20820	61980	94770	30400	21220	17300

CAL YR 1982	TOTAL	123325	MEAN	338	MAX	1450	MIN	30	AC-FT	244600
WTR YR 1983	TOTAL	152221	MEAN	417	MAX	2770	MIN	90	AC-FT	301900

10152000 SPANISH FORK NEAR LAKESHORE, UT

LOCATION.--Lat 40°09'30", long 111°43'50", in SE1/4SE1/4SE1/4 sec.32, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020202, on left bank 1.1 mi upstream from mouth and 2.5 mi north of Lake Shore.

DRAINAGE AREA.--675 mi^2.

PERIOD OF RECORD.--December 1903 to September 1907, March 1909 to December 1919, May 1920 to September 1925, January 1938 to current year. Published as "at Lake Shore" 1909, 1913-25.

REVISED RECORDS.--WSP 1314: 1904. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft from topographic map. Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 mi upstream at various datums. Jan. 23, 1938 to Mar. 23, 1953, water-stage recorder at present site at different datums. Mar. 24, 1953 to Sept. 15, 1957, water-stage recorder at present site at datum 4.0 ft higher.

REMARKS.--Records poor. Flow regulated by many diversions for irrigation and hydroelectric powerplant. During latter part of irrigation season, only wasted and return waters pass gage. Station is below all diversions.

AVERAGE DISCHARGE.--63 years (water years 1905-07, 1910-18, 1921-25, 1939-83), 91.4 ft^3/s, 66,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,010 ft^3/s May 29, 1983; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,010 ft^3/s May 29; minimum daily, 15 ft^3/s Sept. 19, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	160	159	121	146	210	405	456	2580	149	54	37
2	242	147	151	123	140	227	397	459	2410	154	45	38
3	215	134	143	125	130	236	426	449	2230	147	45	29
4	203	130	137	133	138	259	384	456	2190	123	48	37
5	207	128	151	138	147	267	358	525	2230	119	42	31
6	194	129	142	142	138	257	347	575	2100	114	37	31
7	185	130	147	141	150	252	349	531	1930	108	39	31
8	200	128	150	140	152	248	357	583	1500	107	50	37
9	190	152	145	138	156	257	360	691	1450	109	44	33
10	183	157	148	135	152	273	424	640	1400	109	37	25
11	172	154	146	133	149	307	480	622	1390	96	34	25
12	168	140	145	132	148	392	445	577	1470	92	37	27
13	163	145	141	132	152	420	413	545	1350	90	39	22
14	158	131	144	131	159	445	390	514	1200	85	37	17
15	157	132	142	134	152	426	380	485	1090	96	32	20
16	155	137	146	136	151	358	347	571	973	78	42	19
17	150	138	142	138	150	352	261	607	957	72	37	18
18	156	141	145	138	154	337	255	654	824	69	50	17
19	168	150	134	135	172	322	275	714	703	63	96	15
20	173	147	134	134	154	304	306	771	613	67	99	16
21	175	147	153	135	152	296	337	883	510	65	103	16
22	176	146	149	134	152	294	355	1160	372	59	111	15
23	178	139	166	136	153	298	369	1470	306	67	117	15
24	179	128	173	135	155	301	438	1810	271	71	120	18
25	182	144	138	137	160	303	463	2080	227	78	115	24
26	163	133	124	138	164	301	398	2480	204	74	108	31
27	139	130	136	138	173	298	379	2690	196	62	103	35
28	135	135	137	152	217	326	405	2870	197	57	92	35
29	127	139	130	146	---	314	410	3010	160	55	82	34
30	131	145	119	149	---	326	412	2840	153	53	62	35
31	168	---	118	148	---	441	---	2700	---	51	50	---
TOTAL	5503	4196	4435	4227	4316	9647	11325	35418	33186	2739	2007	783
MEAN	178	140	143	136	154	311	378	1143	1106	88.4	64.7	26.1
MAX	311	160	173	152	217	445	480	3010	2580	154	120	38
MIN	127	128	118	121	130	210	255	449	153	51	32	15
AC-FT	10920	8320	8800	8380	8560	19130	22460	70250	65820	5430	3980	1550

CAL YR 1982	TOTAL	78520.5	MEAN	215	MAX	1330	MIN	2.3	AC-FT	155700
WTR YR 1983	TOTAL	117782	MEAN	323	MAX	3010	MIN	15	AC-FT	233600

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT

LOCATION.--Lat 40°35'48", long 111°05'48", in NE1/4SW1/4SE1/4 sec.36, T.2 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank 500 ft upstream from bridge on State Highway 150, 1,500 ft upstream from mouth, and 9.5 mi southeast of Kamas.

DRAINAGE AREA.--24.4 mi^2.

PERIOD OF RECORD.--August 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft from topographic map.

REMARKS.--Records poor. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

AVERAGE DISCHARGE.--20 years, 40.2 ft^3/s, 29,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft^3/s July 4, 1975, gage height, 3.00 ft; minimum recorded, 1.9 ft^3/s several days during winter of 1964-65.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	2000	476	2.49
June 18	2200	*514	2.59

Minimum daily, 6.2 ft^3/s Feb. 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	25	16	8.0	6.8	10	11	22	324	170	36	32
2	51	25	15	8.3	6.2	10	11	22	281	154	34	41
3	54	27	15	9.1	6.2	10	12	22	237	135	42	46
4	54	25	14	9.9	6.2	10	28	25	271	122	38	61
5	56	24	14	11	6.4	10	42	32	324	116	52	44
6	49	22	14	12	6.9	9.9	29	30	291	116	51	40
7	47	21	14	11	7.4	9.9	22	29	278	109	51	41
8	43	19	13	12	7.4	9.9	12	41	291	111	49	47
9	41	18	13	11	7.4	10	12	43	281	105	48	39
10	39	18	14	11	7.3	11	10	39	314	103	47	36
11	36	17	14	11	7.3	14	10	37	343	85	70	33
12	35	16	15	11	7.3	15	10	33	304	75	60	31
13	35	16	13	11	7.3	15	10	31	231	69	53	29
14	35	18	14	11	7.3	15	11	30	203	66	49	28
15	36	18	13	11	7.3	15	12	29	221	63	51	27
16	36	17	13	11	7.3	15	12	28	274	60	56	25
17	36	16	12	11	7.3	14	12	28	307	56	57	24
18	35	15	12	10	7.3	14	14	29	381	53	66	21
19	33	14	12	10	7.3	12	15	28	385	49	67	19
20	31	13	12	9.4	7.3	17	19	28	330	48	57	19
21	29	13	12	8.5	7.3	19	20	37	314	44	53	17
22	29	13	12	8.5	7.3	13	20	54	307	47	52	16
23	28	12	12	8.5	7.3	12	23	83	301	47	47	15
24	28	11	11	8.5	7.3	15	30	111	298	42	44	16
25	28	11	9.9	8.5	7.3	13	31	152	254	44	41	14
26	29	12	9.6	8.5	7.3	12	28	195	215	44	39	14
27	29	13	9.1	8.5	6.9	15	25	240	209	41	36	17
28	29	13	9.1	8.5	8.1	11	23	301	221	39	35	15
29	27	15	8.6	8.5	---	14	24	353	200	38	37	14
30	27	17	8.0	8.5	---	11	23	414	189	36	37	16
31	28	---	8.0	7.4	---	12	---	360	---	36	34	---
TOTAL	1146	514	381.3	302.1	200.0	393.7	561	2906	8379	2323	1489	837
MEAN	37.0	17.1	12.3	9.75	7.14	12.7	18.7	93.7	279	74.9	48.0	27.9
MAX	56	27	16	12	8.1	19	42	414	385	170	70	61
MIN	27	11	8.0	7.4	6.2	9.9	10	22	189	36	34	14
AC-FT	2270	1020	756	599	397	781	1110	5760	16620	4610	2950	1660

CAL YR 1982	TOTAL	18778.4	MEAN	51.4	MAX	318	MIN	7.0	AC-FT	37250
WTR YR 1983	TOTAL	19432.1	MEAN	53.2	MAX	414	MIN	6.2	AC-FT	38540

10154200 PROVO RIVER NEAR WOODLAND, UT

LOCATION.--Lat 40°33'28", long 111°10'05", in NE1/4NW1/4SE1/4 sec.17, T.3 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi downstream from Twin Pine Bridge, 1.6 mi downstream from South Fork and 3.5 mi southeast of Woodland.

DRAINAGE AREA.--162 mi^2.

PERIOD OF RECORD.--August 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft from topographic map.

REMARKS.--Records good. Records include flow of Duchesne Tunnel, transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these is available from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--20 years, 222 ft^3/s, 160,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft^3/s May 28, 1979, gage height, 5.32 ft; minimum, 22 ft^3/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,610 ft^3/s May 30, gage height, 5.22 ft; minimum, 38 ft^3/s Apr. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	122	94	66	72	85	82	162	1860	710	202	155
2	257	114	93	68	64	78	80	159	1750	655	208	190
3	263	91	91	76	60	78	78	164	1520	590	240	221
4	249	109	90	83	67	78	72	173	1600	523	210	312
5	197	107	90	90	76	77	78	224	1760	485	208	213
6	176	107	90	83	68	76	77	221	1650	469	202	190
7	168	103	88	82	74	74	78	205	1550	445	195	190
8	150	109	86	80	76	74	80	260	1660	422	197	210
9	153	112	90	77	76	74	78	293	1640	418	190	185
10	144	101	91	77	74	83	83	257	1710	429	183	173
11	140	110	82	74	71	94	83	246	1840	367	218	162
12	138	96	80	76	72	103	82	224	1720	329	213	153
13	135	101	88	76	72	101	78	208	1350	306	197	146
14	136	78	90	74	74	103	77	205	1150	290	185	144
15	140	91	91	76	72	94	77	208	1250	287	192	138
16	146	94	91	74	76	88	82	202	1400	275	210	134
17	142	98	90	76	70	93	90	202	1580	254	221	134
18	138	98	88	76	76	88	101	216	1750	237	249	128
19	130	101	78	74	72	85	116	213	1760	232	249	126
20	128	96	85	74	74	80	136	208	1640	266	213	126
21	124	94	90	74	76	78	144	248	1580	303	197	124
22	120	91	88	74	76	85	140	329	1490	322	195	122
23	120	73	90	74	76	83	157	453	1370	319	183	120
24	118	85	85	73	77	74	208	603	1260	297	176	128
25	122	103	61	76	78	80	210	831	1120	306	171	122
26	136	88	68	74	77	82	176	1040	988	293	164	122
27	140	90	88	72	72	76	171	1260	922	260	159	128
28	122	91	74	74	76	78	166	1610	899	208	155	120
29	124	90	64	67	---	73	171	1970	837	202	164	112
30	132	93	58	77	---	86	164	2200	783	197	164	124
31	138	---	61	67	---	90	---	2000	---	197	157	---
TOTAL	4801	2936	2593	2334	2044	2591	3415	16794	43389	10893	6067	4652
MEAN	155	97.9	83.6	75.3	73.0	83.6	114	542	1446	351	196	155
MAX	275	122	94	90	78	103	210	2200	1860	710	249	312
MIN	118	73	58	66	60	73	72	159	783	197	155	112
AC-FT	9520	5820	5140	4630	4050	5140	6770	33310	86060	21610	12030	9230

CAL YR 1982	TOTAL	104125	MEAN	285	MAX	1700	MIN	50	AC-FT	206500
WTR YR 1983	TOTAL	102509	MEAN	281	MAX	2200	MIN	58	AC-FT	203300

10155000 PROVO RIVER NEAR HAILSTONE, UT

LOCATION.--Lat 40°36'03", long 111°21'35", in SW1/4NE1/4SE1/4 sec.34, T.2 S., R.5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 3 mi upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--233 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft from river-profile map. Prior to Nov. 20, 1964 at datum 1.00 6 ft higher.

REMARKS.--Records good. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Flow also affected by irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on flow of Weber-Provo diversion canal, Duchesne Tunnel, and capacities of small reservoirs--total capacity, 10,080 acre-ft--is available from Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--30 years (1954-83) 284 ft^3/s, 205,800 acre-ft/yr, since completion of Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,020 ft^3/s May 31, 1983, gage height, 8.02 ft; minimum, 11 ft^3/s Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,020 ft^3/s May 31, gage height, 8.02 ft; minimum, 64 ft^3/s Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	383	158	120	83	85	93	117	270	2140	911	270	185
2	330	137	115	88	81	99	113	274	1940	851	254	247
3	335	117	113	93	78	97	113	270	1640	778	250	266
4	326	134	117	96	81	96	100	270	1800	701	254	420
5	274	132	115	104	84	95	108	349	2280	644	266	286
6	232	127	113	102	80	95	106	373	2070	602	262	250
7	218	122	111	100	80	94	104	308	1770	576	262	258
8	198	132	108	96	82	99	111	349	2070	550	250	295
9	185	139	110	93	84	104	102	442	2100	538	243	247
10	170	124	116	90	82	129	113	389	2430	576	214	228
11	164	132	110	88	80	164	113	383	2880	488	232	214
12	161	117	104	87	79	188	115	340	2750	426	286	204
13	155	124	112	88	84	164	106	326	2060	383	270	198
14	155	96	113	87	85	179	102	344	1690	359	254	194
15	158	115	114	90	79	142	102	312	1800	340	250	185
16	161	124	115	89	83	117	108	321	1870	340	290	176
17	161	124	108	90	77	127	120	299	2230	303	316	175
18	155	127	106	92	83	120	139	321	2410	262	359	168
19	145	155	99	90	80	113	153	354	2530	243	378	164
20	145	132	103	89	80	104	191	316	2260	312	326	168
21	142	124	108	92	82	98	211	321	2210	368	312	163
22	142	117	106	83	81	113	214	448	2010	415	316	159
23	142	100	108	86	82	113	208	596	1760	426	290	152
24	139	113	102	86	86	98	286	724	1660	389	262	159
25	142	134	80	88	94	108	326	868	1480	409	211	153
26	164	120	88	88	92	111	262	1050	1340	409	201	152
27	176	115	96	86	88	102	262	1180	1210	364	191	163
28	150	116	94	88	86	113	250	1450	1140	286	188	158
29	153	117	88	81	---	100	270	2000	1060	270	201	149
30	161	117	74	90	---	124	270	2820	1000	254	201	163
31	188	---	80	81	---	134	---	2770	---	270	191	---
TOTAL	5910	3741	3246	2784	2318	3633	4895	20857	57590	14043	8050	6099
MEAN	191	125	105	89.8	82.8	117	163	672	1920	453	260	203
MAX	383	158	120	104	94	188	326	2820	2880	911	378	420
MIN	139	96	74	81	77	93	100	270	1000	243	188	149
AC-FT	11720	7420	6440	5520	4600	7210	9710	41330	114200	27850	15970	12100

CAL YR 1982	TOTAL	124127	MEAN	340	MAX	1770	MIN	70	AC-FT	246200
WTR YR 1983	TOTAL	133146	MEAN	365	MAX	2880	MIN	74	AC-FT	264100

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT

LOCATION.--Lat 40°24'12", long 111°31'44", in NE1/4NE1/4NE1/4 sec.7, T.5 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft upstream from Deer Creek, 1,000 ft downstream from Deer Creek Dam, and 4.1 mi northeast of Vivian Park.

DRAINAGE AREA.--547 mi^2.

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-81-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft from topographic map.

REMARKS.--Records good. Flow regulated by Deer Creek Reservoir and by small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow also affected by irrigation diversions above station and water diverted to Provo River by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Information is available on these stations from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--30 years, 368 ft^3/s, 266,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft^3/s June 3, 1983, gage height, 9.11 ft; no flow Feb. 2, 3, 1957, Nov. 12, 19, 1961, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,260 ft^3/s June 3, gage height, 9.11; minimum daily, 122 ft^3/s Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	509	506	340	229	356	442	630	1960	774	506	373
2	207	509	506	337	229	362	440	630	2240	800	500	408
3	204	515	506	340	229	370	440	630	1980	843	492	460
4	200	512	506	340	229	375	440	639	1940	791	488	465
5	187	512	506	340	229	372	440	676	1950	771	486	474
6	187	512	506	337	229	370	442	689	1940	494	451	494
7	187	512	506	308	231	370	442	673	1980	327	465	486
8	185	512	506	292	231	372	445	708	2000	290	494	486
9	185	512	506	292	226	372	364	711	2010	267	497	494
10	183	512	506	292	229	375	445	695	2010	295	500	477
11	183	512	506	292	231	378	448	689	1970	327	497	477
12	181	509	506	292	229	381	448	679	1970	353	480	477
13	213	506	506	292	229	378	492	676	1970	384	465	457
14	313	506	506	284	226	378	533	673	1970	384	462	454
15	400	506	506	279	231	364	533	670	1740	370	480	462
16	425	506	506	277	236	343	533	670	1580	389	462	462
17	420	509	518	277	236	334	545	664	1560	381	428	460
18	417	509	536	277	236	332	548	667	1560	381	386	448
19	417	509	536	261	236	329	550	667	1560	378	165	454
20	417	509	536	236	236	329	556	670	1560	431	124	488
21	414	509	536	226	231	326	590	685	1560	488	122	486
22	417	509	533	226	229	324	611	685	1560	497	131	474
23	417	509	533	229	229	321	632	742	1560	494	137	462
24	423	509	533	226	234	326	657	787	1400	480	209	471
25	423	509	533	226	239	337	660	833	997	445	259	486
26	423	506	533	229	236	340	645	919	794	408	259	468
27	423	506	468	229	234	343	575	1270	800	414	259	486
28	420	506	462	229	298	340	642	1360	758	425	266	500
29	442	506	468	229	---	340	636	1380	755	483	384	483
30	468	506	468	229	---	403	632	1570	749	515	403	488
31	471	---	454	229	---	445	---	1780	---	512	428	---
TOTAL	10059	15273	15743	8492	6547	11085	15806	25417	48383	14591	11685	14060
MEAN	324	509	508	274	234	358	527	820	1613	471	377	469
MAX	471	515	536	340	298	445	660	1780	2240	843	506	500
MIN	181	506	454	226	226	321	364	630	749	267	122	373
AC-FT	19950	30290	31230	16840	12990	21990	31350	50410	95970	28940	23180	27890

CAL YR 1982	TOTAL	177396	MEAN	486	MAX	1600	MIN	125	AC-FT	351900
WTR YR 1983	TOTAL	197141	MEAN	540	MAX	2240	MIN	122	AC-FT	391000

10163000 PROVO RIVER AT PROVO, UT

LOCATION.--Lat 40°14'16", long°41'55", in NE1/4NW1/4SE1/4 sec.3, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft downstream from bridge on State Highway 114, 2.1 mi west of Provo, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--673 mi^2.

PERIOD OF RECORD.--May 1903 to June 1905, May 1933 to September 1934, January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "at San Pedro, Los Angeles and Salt Lake Railroad bridge, near Provo" 1903-04, and as "at Rio Grande Western Railroad bridge, near Provo" 1905.

REVISED RECORDS.--WSP 1564: 1904, 1934. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,510 ft from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mi upstream at different datums. May 1933 to September 1934, nonrecording gage at present site at different datum. January 1937 to November 1938, water-stage recorder at site 1,000 ft upstream at different datum. November 1938 to August 1957, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good. Station is below all diversions. At time entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir and small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow affected by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Certain diversions for industrial use which reach Provo Bay, an arm of Utah Lake, are made above station; however, part of this flow is used for irrigation.

AVERAGE DISCHARGE.--48 years, 198 ft^3/s, 143,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft^3/s May 6, 1952, gage height, 6.37 ft; no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,420 ft^3/s June 3, gage height, 7.67 ft; minimum, 29 ft^3/s July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	302	591	596	416	308	443	459	704	2080	413	176	108
2	285	578	587	401	302	431	455	676	2180	435	164	94
3	276	591	583	394	298	439	459	676	2160	521	164	164
4	269	587	570	394	292	459	451	672	1710	487	173	266
5	276	587	557	394	295	455	447	704	1870	426	167	278
6	256	596	557	390	292	447	447	704	1820	328	144	296
7	250	596	557	382	305	439	443	685	1950	147	139	289
8	250	600	561	361	336	431	443	723	2120	79	147	289
9	250	622	557	357	329	428	390	751	2200	77	156	278
10	247	600	557	357	319	428	443	723	2220	101	142	256
11	247	591	544	350	315	431	463	766	2130	96	144	248
12	272	587	544	343	308	439	466	737	2130	108	147	214
13	308	587	553	340	315	443	499	699	2100	103	158	179
14	319	583	578	332	322	447	540	685	2090	87	153	153
15	401	587	583	326	315	431	536	681	1920	79	158	139
16	470	578	587	322	312	412	536	695	1680	66	201	144
17	474	574	591	322	305	401	544	685	1440	54	281	139
18	478	578	587	329	308	401	557	667	1440	42	356	136
19	486	613	587	322	312	394	570	681	1480	36	373	144
20	499	587	578	308	305	386	578	676	1460	44	344	188
21	491	578	587	298	305	375	604	685	1430	87	316	201
22	478	574	596	302	298	368	640	709	1480	118	300	192
23	486	570	618	305	298	390	649	746	1480	144	270	167
24	486	570	600	312	298	390	662	790	1290	134	263	176
25	486	570	591	336	305	401	681	834	895	153	312	179
26	495	566	587	326	315	412	672	983	567	144	312	179
27	503	566	557	319	354	405	600	1270	521	139	228	218
28	486	566	570	346	416	397	658	1350	449	136	176	293
29	499	578	566	326	---	386	658	1580	435	139	164	300
30	570	596	566	319	---	394	667	1650	413	142	153	340
31	609	---	536	312	---	459	---	1930	---	158	144	---
TOTAL	12204	17547	17788	10641	8782	12962	16217	26517	47140	5223	6525	6247
MEAN	394	585	574	343	314	418	541	855	1571	168	210	208
MAX	609	622	618	416	416	459	681	1930	2220	521	373	340
MIN	247	566	536	298	292	368	390	667	413	36	139	94
AC-FT	24210	34800	35280	21110	17420	25710	32170	52600	93500	10360	12940	12390

CAL YR 1982	TOTAL	135666	MEAN	372	MAX	1180	MIN	20	AC-FT	269100
WTR YR 1983	TOTAL	187793	MEAN	515	MAX	2220	MIN	36	AC-FT	372500

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT

LOCATION.--Lat 40°26'52", long 111°40'53", in SE1/4NW1/4NE1/4 sec.26, T.4 S., R.2 E., Utah County, Hydrologic Unit 16020201, on left bank 600 ft downstream from Rock Creek, 1,000 ft upstream from intake for upper powerplant of Utah Power & Light Co., 4.0 mi upstream from mouth of canyon, and 6.7 mi northeast of American Fork.

DRAINAGE AREA.--51.1 mi^2.

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945, published in WSP 1314.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map. Prior to Sept. 8, 1965, at same site at different datum. Sept. 8, 1965 to Nov. 20, 1967, at site 300 ft upstream.

REMARKS.--Records good. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibbie Reservoir; total capacity, 1,260 acre-ft.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--56 years, 55.9 ft^3/s, 40,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred July 30, 1953, gage height, 9.20 ft, from floodmark; minimum, 1.1 ft^3/s Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,000 ft^3/s May 31; minimum daily, 21 ft^3/s Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	53	40	30	23	27	34	66	687	378	158	74
2	61	52	40	30	28	25	33	65	611	394	149	82
3	62	50	39	31	21	25	32	65	545	341	145	84
4	62	49	38	31	22	25	32	66	553	324	142	81
5	64	48	37	30	23	25	30	79	559	319	139	76
6	62	48	37	29	23	25	30	78	555	370	131	73
7	61	49	36	29	24	24	30	73	553	390	125	73
8	60	49	35	29	25	24	30	81	639	408	120	72
9	59	48	35	28	24	24	29	87	656	439	123	70
10	59	48	34	28	24	25	29	82	610	412	112	67
11	58	47	34	28	24	27	28	73	677	286	106	65
12	57	43	34	27	23	30	28	64	522	252	112	64
13	57	44	35	27	23	31	27	56	389	242	111	64
14	56	39	35	27	23	33	27	49	353	247	104	63
15	55	39	34	26	23	32	28	45	349	252	112	61
16	54	41	33	26	23	32	30	41	378	231	155	60
17	54	42	32	26	22	31	32	37	423	221	142	58
18	53	44	32	25	22	30	35	35	501	213	135	57
19	52	45	31	25	23	30	38	34	666	213	133	57
20	51	42	32	25	22	30	41	35	600	230	117	57
21	50	42	34	24	23	30	43	42	556	223	108	56
22	48	41	35	24	23	31	47	53	536	213	101	55
23	47	39	36	23	24	31	52	63	485	208	94	55
24	46	39	34	23	24	31	61	85	509	207	87	54
25	49	42	30	24	24	33	66	118	490	224	84	53
26	58	40	28	24	24	33	62	162	433	238	82	54
27	57	40	31	24	25	34	60	223	401	212	79	55
28	55	40	28	24	26	33	60	370	427	189	78	54
29	52	41	29	23	---	34	63	497	419	174	76	55
30	54	41	29	23	---	34	65	738	387	162	74	57
31	55	---	29	22	---	34	---	1000	---	160	72	---
TOTAL	1732	1325	1046	815	658	913	1202	4562	15469	8372	3506	1906
MEAN	55.9	44.2	33.7	26.3	23.5	29.5	40.1	147	516	270	113	63.5
MAX	64	53	40	31	28	34	66	1000	687	439	158	84
MIN	46	39	28	22	21	24	27	34	349	160	72	53
AC-FT	3440	2630	2070	1620	1310	1810	2380	9050	30680	16610	6950	3780

CAL YR 1982	TOTAL	35720	MEAN	97.9	MAX	478	MIN	11	AC-FT	70850
WTR YR 1983	TOTAL	41506	MEAN	114	MAX	1000	MIN	21	AC-FT	82330

10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UT

LOCATION.--Lat 40°26'38", long 111°55'17", in NW1/4SE1/4NW1/4 sec.26, T.4 S., R.1 W., Salt Lake County, Hydrologic Unit 16020201, at narrows 5.5 mi northwest of Lehi and 7.5 mi downstream from Utah Lake.

DRAINAGE AREA.--3,010 mi^2, including 255 mi^2 in closed basin in Cedar Valley.

PERIOD OF RECORD.--May to December 1904, July 1913 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,469.44 ft NGVD of 1929. Prior to May 16, 1920, nonrecording gage and May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 mi upstream at different datum.

REMARKS.--Records good. Figures given herein represent combined flow of Jordan River, Utah and Salt Lake Canal, and East Jordan Canal. In addition to the combined flow indicated below, 14,109 acre-ft of Utah Lake water bypassed the Jordan River narrows in the Utah Lake Distributing Company Canal. Flow may be regulated by gates and pumps at outlet of Utah Lake, pumps at Pelican Point, and diversion dam at narrows.

COOPERATION.--Records of bypassed flow furnished by the Jordan River Distribution System.

AVERAGE DISCHARGE.--70 years (1913-83), 381 ft^3/s, 276,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,150 ft^3/s June 23, 1983; no flow at times most years when gates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	651	749	834	906	1000	1140	1250	1480	1800	2090	1760	1530
2	643	726	814	902	1040	1160	1230	1440	1860	2010	1750	1500
3	640	756	871	1020	1030	1210	1220	1450	1890	2000	1720	1470
4	614	756	871	1030	1030	1180	1240	1460	1890	2040	1710	1520
5	603	756	871	1020	1040	1190	1230	1460	1920	2050	1710	1500
6	647	760	871	1020	1040	1210	1280	1460	1940	2050	1700	1490
7	603	745	834	1010	1040	1210	1280	1480	1970	2060	1710	1490
8	614	788	841	994	1050	1200	1310	1480	2000	2060	1690	1490
9	625	796	871	1010	1050	1200	1320	1380	2010	2040	1670	1420
10	643	802	863	1020	1050	1200	1310	1420	2010	1970	1680	1410
11	651	745	888	1030	1050	1210	1250	1460	1970	1980	1680	1420
12	651	792	888	1030	1050	1200	1260	1480	1980	1980	1660	1400
13	643	760	880	1030	1050	1200	1280	1460	2010	1960	1650	1400
14	643	796	913	1030	1010	1150	1300	1470	2040	1940	1620	1410
15	651	796	922	1020	1050	1130	1320	1480	2050	1850	1610	1380
16	647	784	888	1020	1040	1200	1320	1450	2040	1890	1620	1390
17	654	784	880	1020	1050	1210	1330	1480	2090	1900	1620	1380
18	585	796	854	1030	1060	1200	1340	1500	2070	1900	1560	1370
19	636	800	867	1030	987	1180	1340	1480	2050	1890	1610	1230
20	643	796	878	1020	1060	1200	1340	1550	2100	1850	1570	1250
21	651	796	895	1030	1070	1220	1360	1580	2090	1840	1540	1300
22	651	764	906	1040	1060	1210	1370	1590	2120	1860	1530	1290
23	643	780	893	1050	1070	1210	1370	1610	2150	1850	1540	1300
24	651	792	760	1050	1070	1220	1360	1630	2130	1850	1530	1310
25	658	776	889	1050	1080	1230	1330	1640	2120	1850	1540	1280
26	654	796	897	1060	1090	1250	1400	1660	2120	1850	1520	1280
27	654	792	909	1070	1100	1280	1400	1700	2100	1820	1500	1300
28	680	800	930	1040	1130	1260	1420	1740	2040	1820	1510	1240
29	688	805	908	1050	---	1260	1420	1770	2120	1790	1500	1250
30	692	816	911	1040	---	1270	1450	1810	2110	1770	1490	1280
31	707	---	916	1010	---	1200	---	1790	---	1770	1540	---
TOTAL	20016	23400	27213	31682	29447	37390	39630	47840	60790	59580	50040	41280
MEAN	646	780	878	1022	1052	1206	1321	1543	2026	1922	1614	1376
MAX	707	816	930	1070	1130	1280	1450	1810	2150	2090	1760	1530
MIN	585	726	760	902	987	1130	1220	1380	1800	1770	1490	1230
AC-FT	39700	46410	53980	62840	58410	74160	78610	94890	120600	118200	99250	81880

CAL YR 1982	TOTAL	222985	MEAN	611	MAX	930	MIN	149	AC-FT	442300
WTR YR 1983	TOTAL	468308	MEAN	1283	MAX	2150	MIN	585	AC-FT	928900

10167230 JORDAN RIVER AT 9000 SOUTH, NEAR MIDVALE, UT

LOCATION.--Lat 40°35'15", long 111°54'43", in SW1/4SW1/4NE1/4 sec.2, T.3 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204 on left bank 50 ft upstream from bridge on Utah State Highway 177 (9000 South Street), 3,600 ft downstream from diversion dam at head of North Jordan Canal, and about 1 mi west of Sandy.

DRAINAGE AREA.--3,160 mi^2, approximately.

PERIOD OF RECORD.--December 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,289.33 ft, Utah State Department of Highway Datum.

REMARKS.--Records good except for those of no gage-height record, Oct. 6 to Dec. 9, which are fair. Flow regulated. Diversions upstream for irrigation, municipal, and industrial supplies.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft^3/s June 14, 1983, gage height, 8.02 ft; minimum, 9 ft^3/s July 6, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,650 ft^3/s June 14, gage height, 8.02 ft; minimum, 540 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	725	755	1040	970	1060	1190	1100	1250	1320	1550	1310	1190
2	733	745	995	980	1070	1150	1130	1240	1320	1530	1300	1210
3	713	740	970	980	1070	1140	1100	1240	1330	1490	1290	1210
4	705	745	960	990	1060	1140	1120	1260	1350	1480	1270	1220
5	668	755	945	1020	1080	1130	1110	1310	1380	1480	1260	1240
6	670	760	960	1040	1080	1120	1120	1300	1390	1470	1250	1220
7	680	730	950	1040	1100	1120	1120	1310	1430	1480	1240	1200
8	640	740	920	1040	1110	1120	1130	1330	1440	1500	1230	1210
9	650	770	930	993	1110	1120	1130	1280	1480	1510	1210	1200
10	640	780	943	1030	1100	1100	1150	1240	1480	1490	1200	1150
11	640	745	953	1030	1110	1070	1130	1280	1530	1470	1190	1170
12	655	745	969	1030	1120	1060	1200	1290	1530	1460	1200	1150
13	645	745	966	1030	1130	1060	1200	1280	1560	1440	1200	1110
14	645	740	972	1040	1100	1040	1220	1280	1600	1440	1170	1080
15	655	770	988	1050	1120	1010	1230	1290	1630	1400	1180	1070
16	655	810	996	1050	1120	1030	1230	1290	1620	1400	1270	1050
17	650	820	1000	1050	1120	1080	1230	1290	1600	1420	1340	1050
18	620	825	977	1040	1130	1080	1240	1290	1610	1420	1410	1030
19	580	860	990	1050	1090	1050	1250	1320	1580	1390	1460	987
20	620	860	996	1040	1090	1060	1250	1250	1600	1380	1430	929
21	640	850	1000	1040	1130	1080	1260	1240	1600	1350	1390	973
22	640	840	1020	1050	1120	1080	1260	1250	1580	1360	1370	1010
23	655	810	1060	1060	1120	1100	1200	1250	1600	1370	1370	1020
24	650	820	899	1060	1120	1120	1180	1240	1600	1350	1350	1070
25	660	825	935	1070	1130	1140	1170	1250	1600	1370	1350	1050
26	725	835	980	1070	1140	1130	1200	1260	1600	1380	1300	1030
27	760	840	980	1090	1150	1130	1210	1240	1600	1360	1250	1080
28	755	855	940	1100	1180	1120	1210	1240	1550	1350	1220	1090
29	750	880	960	1100	---	1120	1220	1260	1570	1330	1210	1100
30	765	910	960	1100	---	1120	1230	1300	1560	1320	1220	1120
31	790	---	970	1070	---	1110	---	1310	---	1320	1210	---
TOTAL	20979	23905	30124	32303	31060	34120	35530	39460	45640	44060	39650	33219
MEAN	677	797	972	1042	1109	1101	1184	1273	1521	1421	1279	1107
MAX	790	910	1060	1100	1180	1190	1260	1330	1630	1550	1460	1240
MIN	580	730	899	970	1060	1010	1100	1240	1320	1320	1170	929
AC-FT	41610	47420	59750	64070	61610	67680	70470	78270	90530	87390	78650	65890

CAL YR 1982	TOTAL	167874	MEAN	460	MAX	1060	MIN	47	AC-FT	333000
WTR YR 1983	TOTAL	410050	MEAN	1123	MAX	1630	MIN	580	AC-FT	813300

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°38'43", long 111°55'18", in NE1/4SW1/4 sec.14, T.2 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, at bridge at 5800 South, and 2.3 mi southwest of Murray.

DRAINAGE AREA.--3,240 mi^2.

PERIOD OF RECORD.--July 1965 to September 1968, February 1974 to March 1980 (gage heights and discharge measurements only), April 1980 to current year. (Prior to 1983 published in "Surface Water and Climatologic Data" reports for Utah.)

GAGE.--Water-stage recorder. Datum of gage is 4,257.93 ft NGVD of 1929.

REMARKS.--Records good except for those of no gage-height record, June 11 to July 31, which are fair. Flow affected by regulation at Utah Lake and Jordan Narrows. Many diversions above station for irrigation and industry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,090 ft^3/s June 14, 1983; minimum daily, 68 ft^3/s Apr. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,090 ft^3/s June 14; minimum, 658 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	975	996	1210	1150	1180	1360	1200	1300	1410	1920	1350	1260
2	1030	964	1140	1150	1190	1310	1230	1280	1410	1920	1360	1270
3	996	969	1130	1140	1210	1280	1220	1280	1450	1880	1350	1280
4	975	996	1130	1150	1190	1310	1240	1300	1530	1800	1330	1290
5	917	996	1120	1150	1200	1290	1210	1360	1490	1800	1310	1300
6	948	980	1120	1160	1210	1260	1210	1350	1620	1790	1300	1280
7	969	964	1110	1160	1220	1260	1190	1360	1700	1790	1300	1270
8	912	975	1060	1150	1240	1250	1210	1400	1760	1800	1280	1280
9	922	1020	1100	1100	1230	1250	1210	1340	1940	1800	1280	1270
10	917	1010	1100	1160	1220	1230	1210	1310	2000	1800	1270	1210
11	927	975	1110	1190	1230	1190	1200	1400	2090	1780	1250	1230
12	932	969	1120	1150	1230	1160	1310	1420	2050	1750	1270	1220
13	917	985	1110	1130	1260	1160	1280	1390	2090	1740	1270	1190
14	917	969	1110	1130	1250	1160	1330	1360	2090	1710	1250	1170
15	927	1030	1120	1140	1260	1100	1330	1390	2080	1670	1260	1160
16	927	1030	1130	1140	1260	1100	1310	1400	2070	1650	1350	1150
17	917	1040	1150	1140	1250	1180	1320	1380	2030	1650	1420	1150
18	886	1040	1110	1140	1280	1200	1330	1360	2020	1630	1510	1150
19	816	1100	1120	1160	1240	1170	1330	1410	2010	1640	1580	1110
20	886	1070	1140	1160	1200	1160	1310	1310	2010	1600	1530	1080
21	896	1070	1140	1160	1250	1220	1330	1280	2000	1560	1480	1110
22	896	1060	1140	1190	1230	1220	1330	1310	2000	1530	1450	1140
23	886	1020	1200	1180	1230	1220	1240	1290	2000	1510	1450	1140
24	881	1040	1020	1200	1230	1250	1210	1230	2000	1500	1420	1190
25	912	1040	1030	1210	1230	1300	1190	1230	2000	1500	1420	1170
26	1030	1030	1140	1210	1240	1260	1220	1230	2000	1500	1380	1160
27	1030	1050	1160	1220	1260	1260	1240	1200	1990	1500	1330	1190
28	1010	1060	1100	1260	1320	1260	1240	1200	1960	1500	1300	1200
29	1020	1080	1150	1230	---	1240	1240	1220	1940	1450	1290	1210
30	991	1160	1130	1250	---	1230	1260	1340	1930	1370	1290	1220
31	1020	---	1150	1190	---	1230	---	1380	---	1350	1280	---
TOTAL	29185	30688	34800	36250	34540	38070	37680	41010	56670	51390	41910	36050
MEAN	941	1023	1123	1169	1234	1228	1256	1323	1889	1658	1352	1202
MAX	1030	1160	1210	1260	1320	1360	1330	1420	2090	1920	1580	1300
MIN	816	964	1020	1100	1180	1100	1190	1200	1410	1350	1250	1080
AC-FT	57890	60870	69030	71900	68510	75510	74740	81340	112400	101900	83130	71510

CAL YR 1982	TOTAL	222326	MEAN	609	MAX	1210	MIN	175	AC-FT	441000
WTR YR 1983	TOTAL	468243	MEAN	1283	MAX	2090	MIN	816	AC-FT	928800

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT

LOCATION.--Lat 40°43'37", long 111°55'33", in SE1/4SW1/4SW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, near right bank on upstream side of diversion dam at head of canal, and 250 ft downstream from highway bridge over Jordan River on 2100 South Street.

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft NGVD of 1929. Prior to Oct. 22, 1952, at site 350 ft downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft downstream at different datum.

REMARKS.--Records good. Flow regulated by diversion structure at station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential and industrial area (see station 10170490 for records of combined flow of Jordan River and Surplus Canal). Several diversions for irrigation and waterfowl ponds below station.

AVERAGE DISCHARGE.--40 years, 284 ft^3/s, 205,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft^3/s June 12, 1983, gage height, 7.12 ft, present datum; no flow Jan. 21 to Feb. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,180 ft^3/s June 12, gage height, 7.12 ft; minimum daily, 920 ft^3/s Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	1110	1150	1020	1090	1280	1400	1650	3060	2590	1790	1350
2	1350	1060	1090	1030	1080	1250	1410	1610	2980	2580	1670	1400
3	1240	1040	1060	1030	1080	1210	1470	1600	2850	2420	1600	1580
4	1190	997	1040	1030	1070	1260	1440	1610	2920	2340	1590	1760
5	1160	991	1040	1020	1080	1260	1410	1710	2990	2330	1520	1610
6	1030	991	1030	1040	1090	1220	1370	1790	2960	2380	1470	1550
7	1100	973	1030	1060	1100	1220	1370	1760	2910	2510	1420	1510
8	1090	967	973	1050	1120	1220	1390	1800	2910	2580	1380	1530
9	1020	991	985	1030	1120	1200	1400	1750	2970	2650	1460	1510
10	991	997	991	1060	1130	1190	1400	1680	2930	2930	1410	1380
11	1000	997	997	1080	1140	1190	1420	1940	2960	2520	1380	1370
12	961	967	1020	1060	1150	1220	1470	1990	3140	2290	1490	1340
13	920	1000	1030	1030	1180	1240	1420	1820	3000	2200	1600	1240
14	926	961	1010	1030	1230	1330	1420	1740	2830	2120	1480	1200
15	967	973	1020	1030	1160	1230	1420	1730	2740	2150	1470	1190
16	973	955	1030	1030	1150	1220	1420	1900	2740	2100	1820	1200
17	973	961	1040	1050	1150	1280	1430	1800	2810	2140	1970	1210
18	973	967	1030	1090	1190	1310	1470	1810	2910	2070	2140	1180
19	932	1090	1040	1090	1240	1330	1480	1960	3020	1920	2420	1180
20	1020	1070	1040	1090	1160	1290	1520	1900	3000	1850	2160	1100
21	1030	1020	1040	1090	1200	1290	1520	1850	2960	1770	2020	1170
22	1020	991	1040	1110	1220	1310	1540	1960	2930	1800	1910	1210
23	1020	961	1140	1110	1260	1320	1480	2080	2970	1880	1840	1200
24	997	961	1050	1100	1260	1370	1470	2180	2920	1940	1770	1280
25	1020	991	961	1120	1220	1460	1590	2300	2890	1990	1680	1240
26	1290	943	1050	1090	1230	1460	1570	2460	2810	2170	1570	1210
27	1530	943	1080	1090	1290	1440	1600	2600	2740	1970	1480	1250
28	1120	943	1020	1190	1290	1470	1500	2690	2730	1740	1400	1300
29	1080	961	1030	1150	---	1410	1480	2820	2650	1680	1420	1320
30	1100	1040	1000	1160	---	1400	1530	2950	2660	1620	1450	1420
31	1150	---	1020	1120	---	1480	---	3030	---	1670	1410	---
TOTAL	33513	29812	32077	33280	32680	40360	43810	62470	86890	66900	51190	39990
MEAN	1081	994	1035	1074	1167	1302	1460	2015	2896	2158	1651	1333
MAX	1530	1110	1150	1190	1290	1480	1600	3030	3140	2930	2420	1760
MIN	920	943	961	1020	1070	1190	1370	1600	2650	1620	1380	1100
AC-FT	66470	59130	63620	66010	64820	80050	86900	123900	172300	132700	101500	79320

CAL YR 1982	TOTAL	266556	MEAN	730	MAX	2350	MIN	195	AC-FT	528700
WTR YR 1983	TOTAL	552972	MEAN	1515	MAX	3140	MIN	920	AC-FT	1097000

10171000 JORDAN RIVER AT SALT LAKE CITY, UT

LOCATION.--Lat 40°44'01", long 111°55'21", in SW1/4SE1/4NW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West, Salt Lake City, 4,000 ft downstream from diversion structure at head of Surplus Canal, and 1.7 mi downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi^2 includes 255 mi^2 closed basin in Cedar Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see following page.

AVERAGE DISCHARGE.--40 years (1943-83), 143 ft^3/s, 103,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft^3/s June 3, 1944, gage height, 5.55 ft; maximum gage height, 5.75 ft June 26, 1952; no flow May 10, 24, 1952. May 21, 22, 1962, Sept. 21, 1963, May 14 to June 1, 1964, and Sept. 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum daily combined discharge (Jordan River and Surplus Canal), 3,350 ft^3/s June 12, 1983; minimum daily, 89 ft^3/s June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 362 ft^3/s Aug. 18, gage height, 4.34 ft; minimum daily, 35 ft^3/s May 14-18. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 3,350 ft^3/s June 12; minimum daily, 1,110 ft^3/s Oct. 13, 14, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	186	201	226	183	182	130	159	36	263	227	257
2	156	182	186	225	182	182	137	122	36	260	225	257
3	211	178	190	223	181	175	121	122	36	256	222	281
4	225	176	196	226	179	171	136	122	36	250	218	284
5	218	174	192	227	177	170	145	122	36	254	214	268
6	195	171	203	229	175	167	153	122	36	256	209	263
7	186	169	215	225	178	167	148	122	36	265	212	259
8	171	169	211	224	183	176	149	122	36	270	214	256
9	189	168	209	214	180	183	144	122	80	278	215	247
10	189	168	210	214	178	172	136	122	124	290	208	233
11	191	169	210	222	177	161	138	122	124	270	205	226
12	189	165	207	222	174	168	138	122	210	256	211	229
13	187	160	206	233	174	164	135	122	298	246	216	215
14	186	159	206	220	183	162	128	35	292	238	211	207
15	186	177	206	218	173	144	133	35	296	240	209	204
16	184	189	206	216	185	142	145	35	295	237	241	201
17	183	187	207	207	181	142	142	35	293	237	285	197
18	182	175	204	209	183	146	143	35	294	241	327	197
19	181	144	200	207	166	143	138	36	292	233	279	196
20	184	132	199	204	153	128	122	36	291	228	284	188
21	182	165	201	202	153	138	130	36	289	223	268	183
22	179	200	205	198	151	132	141	36	288	224	253	186
23	177	193	215	196	150	123	144	36	286	231	265	186
24	173	189	199	197	146	114	153	36	285	229	259	191
25	174	190	184	192	166	124	174	36	283	175	253	187
26	179	197	186	186	183	116	145	36	280	150	269	204
27	144	204	186	185	180	117	143	36	277	208	268	236
28	190	203	193	200	178	114	137	36	271	231	261	238
29	193	203	221	188	---	116	143	36	265	224	261	236
30	192	206	226	186	---	120	155	36	264	219	263	241
31	194	---	226	181	---	131	---	36	---	235	262	---
TOTAL	5716	5348	6306	6502	4852	4590	4226	2266	5965	7417	7514	6753
MEAN	184	178	203	210	173	148	141	73.1	199	239	242	225
MAX	225	206	226	233	185	183	174	159	298	290	327	284
MIN	144	132	184	181	146	114	121	35	36	150	205	183
AC-FT	11340	10610	12510	12900	9620	9100	8380	4490	11830	14710	14900	13390

CAL YR 1982	TOTAL	61765	MEAN	169	MAX	258	MIN	40	AC-FT	122500
WTR YR 1983	TOTAL	67455	MEAN	185	MAX	327	MIN	35	AC-FT	133800

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1974 to current year.
SPECIFIC CONDUCTANCE: October 1974 to September 1978, October 1980 to September 1981, once daily (discontinued).
WATER TEMPERATURES: April 1975 to September 1978, October 1980 to September 1981, once daily (discontinued).
SEDIMENT DATA: October 1976 to current year, periodically.

INSTRUMENTATION.--Specific conductance recorder October 1974 to September 1981; temperature recorder April 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,330 micromhos Mar. 29, 1977; minimum, 536 micromhos June 25, 1978.
WATER TEMPERATURES: Maximum, 28.0°C Aug. 29, 30, 1975; minimum, 0.5°C Jan. 2, 3, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
22...	1500	194	1390	8.0	3.5	6.5	1.0	9.3	650	280
JAN										
13...	1400	224	1430	8.0	3.5	4.0	25	10.6	655	110
MAR										
29...	1130	117	1500	8.0	10.5	8.0	44	8.8	651	K600
MAY										
24...	1045	36	1250	7.9	20.5	14.5	43	6.5	651	490
JUN										
20...	1545	291	850	8.2	23.0	17.0	70	7.2	642	340
SEP										
01...	1300	254	1280	8.0	25.0	21.5	80	6.0	649	390

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV									
22...	380	390	7.8	74	50	140	43	3.2	13
JAN									
13...	120	400	8.1	74	53	140	42	3.1	13
MAR									
29...	980	450	8.9	84	57	150	41	3.2	13
MAY									
24...	190	380	7.5	76	45	110	38	2.5	10
JUN									
20...	470	250	4.9	51	29	71	38	2.0	7.4
SEP									
01...	690	340	6.8	60	46	130	44	3.1	14

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV									
22...	230	230	190	0.6	23	857	860	1.2	449
JAN									
13...	230	220	190	0.6	23	866	855	1.2	524
MAR									
29...	240	270	200	0.6	21	946	942	1.3	299
MAY									
24...	210	220	150	0.3	15	775	755	1.1	75.3
JUN									
20...	170	120	96	0.4	14	494	490	0.67	388
SEP									
01...	200	200	180	0.6	23	769	778	1.0	527

K Results based on colony count outside acceptable range (nonideal colony count).

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV 22...	1.2	1.30	1.7	4.10	0.67	2.1	0.55	0.40	1.2
JAN 13...	1.0	1.00	1.3	2.30	0.59	1.8	0.45	0.44	1.3
MAR 29...	1.4	0.72	0.93	2.60	0.52	1.6	0.33	0.30	0.92
MAY 24...	1.5	0.55	0.71	1.80	0.60	1.8	0.40	0.36	1.1
JUN 20...	0.59	0.41	0.53	1.30	0.50	1.5	0.20	0.14	0.43
SEP 01...	0.76	0.55	0.71	1.90	0.53	1.6	0.32	0.31	0.95

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 22...	1500	10	11	72.00	<0.50	<1	<1	<3.00	4	6.00	<1
MAR 29...	1130	10	10	67.00	0.50	1	1	3.00	4	9.00	5
JUN 20...	1545	100	8	66.00	<0.50	<1	<1	<3.00	4	90	5
SEP 01...	1300	10	17	77.00	0.80	1	1	3.00	2	4.00	1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 22...	130	18	0.1	10	2	1	<1	1000	<6.0	10
MAR 29...	130	24	0.1	10	1	2	1	1100	6.0	20
JUN 20...	70	28	<0.1	<10	1	1	<1	600	<6.0	20
SEP 01...	120	16	0.1	20	3	1	1	890	6.0	8.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 22...	1500	194	6.5	74	77	40
JAN 13...	1400	224	4.0	81	89	54
MAR 29...	1130	117	8.0	81	108	34
MAY 24...	1045	36	14.5	86	82	8.0
JUN 20...	1545	291	17.0	69	197	155
SEP 01...	1300	254	21.5	88	162	111

10170490 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal

DISCHARGE, CUBIC FEET per SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1300	1350	1250	1270	1460	1530	1810	3100	2850	2020	1610
2	1510	1240	1280	1260	1260	1430	1550	1730	3020	2840	1900	1660
3	1450	1220	1250	1250	1260	1390	1590	1720	2890	2680	1820	1860
4	1420	1170	1240	1260	1250	1430	1580	1730	2960	2590	1810	2040
5	1380	1170	1230	1250	1260	1430	1560	1830	3030	2580	1730	1880
6	1230	1160	1230	1270	1270	1390	1520	1910	3000	2640	1680	1810
7	1290	1140	1250	1290	1280	1390	1520	1880	2950	2780	1630	1770
8	1260	1140	1180	1270	1300	1400	1540	1920	2950	2850	1590	1790
9	1210	1160	1190	1240	1300	1380	1540	1870	3050	2930	1680	1760
10	1180	1170	1200	1270	1310	1360	1540	1800	3050	3220	1620	1610
11	1190	1170	1210	1300	1320	1350	1560	2060	3080	2790	1590	1600
12	1150	1130	1230	1280	1320	1390	1610	2110	3350	2550	1700	1570
13	1110	1160	1240	1260	1350	1400	1560	1940	3300	2450	1820	1460
14	1110	1120	1220	1250	1410	1490	1550	1780	3120	2360	1690	1410
15	1150	1150	1230	1250	1330	1370	1550	1770	3040	2390	1680	1390
16	1160	1140	1240	1250	1340	1360	1570	1940	3040	2340	2060	1400
17	1160	1150	1250	1260	1330	1420	1570	1840	3100	2380	2260	1410
18	1160	1140	1230	1300	1370	1460	1610	1850	3200	2310	2470	1380
19	1110	1230	1240	1300	1410	1470	1620	2000	3310	2150	2700	1380
20	1200	1200	1240	1290	1310	1420	1640	1940	3290	2080	2440	1290
21	1210	1190	1240	1290	1350	1430	1650	1890	3250	1990	2290	1350
22	1200	1190	1250	1310	1370	1440	1680	2000	3220	2020	2160	1400
23	1200	1150	1360	1310	1410	1440	1620	2120	3260	2110	2110	1390
24	1170	1150	1250	1300	1410	1480	1620	2220	3210	2170	2030	1470
25	1190	1180	1150	1310	1390	1580	1760	2340	3170	2170	1930	1430
26	1470	1140	1240	1280	1410	1580	1720	2500	3090	2320	1840	1410
27	1670	1150	1270	1280	1470	1560	1740	2640	3020	2180	1750	1490
28	1310	1150	1210	1390	1470	1580	1640	2730	3000	1970	1660	1540
29	1270	1160	1250	1340	---	1530	1620	2860	2920	1900	1680	1560
30	1290	1250	1230	1350	---	1520	1690	2990	2920	1840	1710	1660
31	1340	---	1250	1300	---	1610	---	3070	---	1910	1670	---
TOTAL	39240	35170	38430	39810	37530	44940	48050	64790	92890	74340	58720	46780
MEAN	1266	1172	1240	1284	1340	1450	1602	2090	3096	2398	1894	1559
MAX	1670	1300	1360	1390	1470	1610	1760	3070	3350	3220	2700	2040
MIN	1110	1120	1150	1240	1250	1350	1520	1720	2890	1840	1590	1290
AC-FT	77830	69760	76230	78960	74440	89140	95310	128500	184200	147500	116500	92790

CAL YR 1982	TOTAL	328444	MEAN	900	MAX	2480	MIN	370	AC-FT	651500
WTR YR 1983	TOTAL	620690	MEAN	1701	MAX	3350	MIN	1110	AC-FT	1231000

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT
(Hydrologic bench mark station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NW1/4SW1/4NE1/4 sec.35, T.1 N., R.1 E., Salt Lake County, Hydrologic Unit 16020204, on right bank 0.4 mi upstream from dam forming Red Butte Reservoir, and 1.7 mi northeast of Fort Douglas.

DRAINAGE AREA.--7.25 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District Office, Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft from topographic map.

REMARKS.--Records good except those for the period April 24 to June 16, which are fair. No regulation or diversion above station. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas.

AVERAGE DISCHARGE.--20 years, 4.50 ft^3/s, 3,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft^3/s May 28, 1983, maximum gage height, 3.70 ft May 30, 1983; minimum, 0.23 ft^3/s Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 13	2300	26	2.08
May 7	2000	47	3.15
May 28	unknown	*105	--
May 30	unknown	--	*3.70

Minimum, 0.47 ft^3/s Dec. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	4.4	1.7	1.8	3.3	6.2	13	38	73	12	7.3	4.2
2	5.1	4.2	3.0	1.8	3.2	6.9	13	37	60	12	7.0	4.3
3	4.6	4.1	3.4	2.0	2.9	7.9	12	38	60	11	6.7	4.5
4	4.3	4.0	3.0	2.4	3.1	8.1	12	40	57	11	6.4	4.5
5	4.2	3.9	2.9	3.5	3.1	8.5	11	42	56	11	6.4	4.3
6	3.9	3.7	2.9	3.3	3.0	8.6	11	42	50	11	6.1	4.2
7	3.9	3.6	2.9	3.4	3.0	8.6	11	46	45	11	6.0	4.2
8	3.7	3.6	2.7	3.0	3.0	8.5	11	49	42	10	5.8	4.2
9	3.7	3.5	2.7	2.9	3.1	9.3	12	47	35	11	6.4	4.1
10	3.6	3.5	2.7	2.9	3.2	11	15	45	33	11	5.8	4.1
11	3.5	3.4	2.7	3.3	3.2	15	16	44	30	10	5.8	4.1
12	3.3	3.4	2.7	3.3	3.2	18	15	40	30	9.6	5.8	4.1
13	3.2	3.4	2.7	3.3	3.4	18	14	39	28	9.4	5.7	4.0
14	3.1	3.2	2.7	3.2	3.5	23	14	38	25	9.2	5.6	4.0
15	3.1	3.2	2.7	3.2	3.5	20	14	36	23	9.6	5.6	4.0
16	3.0	3.2	2.8	3.2	3.5	18	15	36	21	9.2	6.4	4.0
17	2.9	3.1	2.8	3.3	3.5	17	16	35	20	8.8	6.4	4.0
18	2.8	3.1	2.8	3.3	3.8	16	18	35	20	8.6	6.7	4.0
19	2.7	3.2	2.8	3.3	4.0	15	20	38	18	8.4	6.6	4.0
20	2.7	3.1	2.9	3.3	3.9	14	23	39	17	8.2	6.1	4.0
21	2.8	3.0	3.0	3.3	4.0	14	28	43	16	8.2	5.7	4.0
22	2.7	3.0	3.1	3.3	4.1	13	31	46	16	8.1	5.6	4.0
23	2.7	2.8	3.5	3.3	4.2	13	34	50	16	8.0	5.3	4.0
24	2.7	2.6	3.2	3.3	4.6	13	40	58	16	7.8	5.1	4.0
25	2.7	2.6	2.8	3.3	5.0	12	45	61	15	7.8	4.9	4.0
26	3.3	2.6	2.6	3.2	5.3	12	39	80	15	7.4	4.8	4.0
27	3.2	2.6	2.4	3.3	5.3	12	37	85	14	7.4	4.7	4.1
28	2.9	2.6	2.1	3.5	5.4	12	35	95	14	7.4	4.7	4.0
29	2.9	2.7	1.7	3.3	---	11	34	83	13	7.2	4.8	4.0
30	3.1	3.1	1.6	3.4	---	12	35	80	12	7.2	4.4	4.0
31	4.5	---	1.6	3.3	---	14	---	79	---	7.3	4.3	---
TOTAL	106.7	98.4	83.1	96.2	104.3	395.6	644	1564	890	285.8	178.9	122.9
MEAN	3.44	3.28	2.68	3.10	3.72	12.8	21.5	50.5	29.7	9.22	5.77	4.10
MAX	5.9	4.4	3.5	3.5	5.4	23	45	95	73	12	7.3	4.5
MIN	2.7	2.6	1.6	1.8	2.9	6.2	11	35	12	7.2	4.3	4.0
AC-FT	212	195	165	191	207	785	1280	3100	1770	567	355	244

CAL YR 1982	TOTAL	1955.5	MEAN	5.36	MAX	25	MIN	1.2	AC-FT	3880
WTR YR 1983	TOTAL	4569.9	MEAN	12.5	MAX	95	MIN	1.6	AC-FT	9060

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1964 to current year.
WATER TEMPERATURES: April 1964 to September 1978, once daily.
SEDIMENT DATA: October 1968 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
17...	1015	3.0	620	7.9	2.5	1.5	.60	9.4	615	K8
JAN										
14...	1430	3.3	590	8.1	3.0	2.0	1.0	10.3	625	K1
MAR										
29...	1420	11	550	8.0	6.5	6.0	1.4	9.9	621	K3
MAY										
24...	1415	56	455	8.2	23.0	13.0	220	7.8	621	K10
AUG										
02...	1415	7.0	590	8.1	27.0	15.5	.50	8.0	624	31
SEP										
02...	1200	4.5	600	8.2	19.0	12.5	1.1	9.1	1020	31

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV									
17...	K15	334	82	91	26	12	7	.3	1.0
JAN									
14...	26	309	75	84	24	12	8	.3	1.0
MAR									
29...	38	275	--	74	22	12	9	.3	1.0
MAY									
24...	43	228	--	63	17	11	9	.3	1.4
AUG									
02...	120	298	--	78	25	13	9	.3	1.2
SEP									
02...	90	304	--	79	26	13	8	.3	1.0

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV									
17...	253	91	14	0.1	11	351	398	0.48	2.8
JAN									
14...	235	85	12	0.1	11	368	371	0.50	3.3
MAR									
29...	211	62	11	0.1	11	329	320	0.45	10.1
MAY									
24...	209	37	11	0.1	11	280	277	0.38	42.3
AUG									
02...	240	69	15	0.1	11	347	356	0.47	6.6
SEP									
02...	223	72	14	0.1	12	356	351	0.48	4.3

K Results based on colony count outside acceptable range (nonideal colony count).

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV 17...	<0.10	<0.06	0.08	0.90	0.05	0.15	0.05	<0.01	--
JAN 14...	<0.10	<0.06	0.08	0.50	0.03	0.09	0.02	0.03	0.09
MAR 29...	<0.10	0.19	0.24	0.50	0.06	0.18	0.02	0.05	0.15
MAY 24...	<0.10	<0.06	--	2.40	1.20	3.7	0.07	0.04	0.12
AUG 02...	<0.10	0.04	0.05	0.70	0.05	0.15	0.04	0.02	0.06
SEP 02...	<0.10	0.03	0.04	0.20	<0.01	--	<0.01	0.02	0.06

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
JAN 14...	1430	20	1	60	<1	<1	<1	<3	2	6	<1
MAY 24...	1415	100	2	57	<1	<1	<1	<3	1	42	3

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
JAN 14...	27	26	<.1	<10	3	1	<1	440	<6.0	7
MAY 24...	11	16	<.1	<10	4	1	<1	250	<6.0	7

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV 17...	1015	3.0	1.5	53	38	.31
JAN 14...	1430	3.3	2.0	79	24	.22
MAR 29...	1420	11	6.0	42	82	2.5
MAY 24...	1415	56	13.0	56	1780	269
AUG 02...	1415	7.0	15.5	51	36	.68
SEP 02...	1200	4.5	12.5	49	24	.29

10172550 JORDAN RIVER AT 500 NORTH, AT SALT LAKE CITY, UT

LOCATION.--Lat 40°46'49", long 111°56'16", in SW1/4NW1/4NE1/4 sec.34, T.1 N., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on left bank at downstream edge of 500 North Street bridge in Salt Lake City.

DRAINAGE AREA.--3,562 mi^2, includes 255 mi^2 closed basin in Cedar Valley.

PERIOD OF RECORD.--October 1975 to current year. Records of stage 1960-75 are available from the Salt Lake District Office.

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map.

REMARKS.--Records good. Flow affected by regulation at Surplus Canal, Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies.

AVERAGE DISCHARGE.--8 years, 201 ft^3/s, 145,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 932 ft^3/s June 1, 1983, gage height, 5.24 ft; minimum recorded, 60 ft^3/s Oct. 18, 1979 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 932 ft^3/s June 1, gage height, 5.24 ft; minimum, 167 ft^3/s Nov. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	231	244	254	226	233	283	439	863	381	298	300
2	207	234	237	257	228	242	307	398	785	382	294	298
3	249	219	230	254	224	239	317	391	733	396	289	350
4	263	213	246	258	222	263	306	400	726	388	283	336
5	257	211	239	260	219	251	307	402	720	388	269	305
6	224	206	236	262	213	231	300	392	717	374	266	298
7	247	211	255	274	209	236	284	380	713	401	265	292
8	206	214	236	260	234	245	300	401	698	398	266	288
9	215	210	229	250	217	248	298	418	658	389	283	282
10	215	216	232	248	209	251	299	422	708	405	273	266
11	216	220	236	260	207	265	328	516	766	381	265	261
12	214	213	231	259	203	280	315	441	764	366	268	256
13	211	205	228	260	211	289	303	407	715	345	278	248
14	209	207	231	260	274	346	289	410	649	328	268	240
15	209	220	229	258	211	299	280	419	649	340	262	230
16	206	231	226	256	218	301	300	438	669	343	324	230
17	207	222	225	251	211	299	303	384	532	333	374	220
18	208	208	223	255	233	331	314	384	522	326	450	219
19	209	216	219	249	234	352	326	427	522	314	393	217
20	212	182	217	245	196	290	325	352	522	314	344	210
21	209	195	220	248	202	303	345	399	550	316	344	208
22	201	241	229	244	196	324	371	412	562	311	323	209
23	199	230	270	241	188	324	377	441	528	323	317	209
24	196	217	240	250	185	270	397	461	516	323	315	213
25	202	218	211	260	198	333	458	476	526	312	303	212
26	286	232	211	230	257	296	400	514	516	268	309	219
27	239	237	213	229	241	286	394	598	503	253	316	271
28	218	236	213	296	227	276	384	682	467	298	311	262
29	224	241	241	238	---	281	392	766	432	296	318	257
30	239	260	256	247	---	278	412	855	401	288	311	269
31	260	---	256	226	---	325	---	863	---	303	306	---
TOTAL	6861	6596	7209	7839	6093	8787	10014	14688	18632	10583	9485	7675
MEAN	221	220	233	253	218	283	334	474	621	341	306	256
MAX	286	260	270	296	274	352	458	863	863	405	450	350
MIN	196	182	211	226	185	231	280	352	401	253	262	208
AC-FT	13610	13080	14300	15550	12090	17430	19860	29130	36960	20990	18810	15220

CAL YR 1982	TOTAL	87867	MEAN	241	MAX	450	MIN	159	AC-FT	174300
WTR YR 1983	TOTAL	114462	MEAN	314	MAX	863	MIN	182	AC-FT	227000

10172630 GOGGIN DRAIN NEAR MAGNA, UT

LOCATION.--Lat 40°49'00", long 112°06'00", in SW1/4NW1/4SW1/4 sec.17, T.1 N., R.2 W., Salt Lake County, Hydrologic Unit 16020204, about 7 mi downstream from Surplus Canal wasteway, 3.3 mi north of Saltair, and 7.2 mi north of Magna.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1968, October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,204 ft from topographic map.

REMARKS.--Records poor. The drain carries natural drainage and surplus water spilled from canals from the area.

AVERAGE DISCHARGE.--17 years, 188 ft^3/s, 136,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,560 ft^3/s June 13, 1983; no flow several days many years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,560 ft^3/s June 13, minimum daily, 521 ft^3/s Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	973	779	854	796	852	821	970	1100	1540	1460	1180	972
2	944	731	877	790	838	832	932	1120	1540	1450	1180	973
3	877	691	835	793	838	801	955	1120	1520	1420	1170	996
4	787	691	801	798	826	807	946	1130	1540	1380	1150	1070
5	770	683	796	829	832	871	932	1150	1550	1350	1110	1070
6	737	677	793	868	838	854	952	1180	1550	1330	1090	1060
7	731	677	776	894	846	832	935	1170	1550	1330	1060	1040
8	782	666	751	888	863	846	935	1180	1540	1350	1040	1030
9	718	677	734	868	874	877	929	1180	1540	1380	1080	1040
10	672	683	751	874	866	868	932	1160	1540	1430	1060	1000
11	664	688	745	903	866	854	946	1170	1540	1430	1040	921
12	653	658	756	923	866	866	961	1170	1550	1380	1050	918
13	634	669	773	932	883	880	964	1170	1560	1320	1080	895
14	626	658	762	923	944	926	952	1150	1540	1290	1080	863
15	607	658	759	938	906	866	961	1140	1510	1290	1060	856
16	583	656	768	949	900	804	955	1170	1500	1270	1100	854
17	588	656	779	958	880	818	949	1220	1500	1250	1170	857
18	582	637	779	973	874	880	961	1220	1510	1230	1240	851
19	521	702	768	1010	897	932	981	1230	1530	1200	1320	869
20	541	782	776	1020	849	961	996	1230	1530	1170	1320	824
21	564	742	782	1030	854	935	1020	1210	1540	1160	1260	799
22	561	688	793	1040	849	923	999	1200	1530	1140	1230	781
23	558	672	835	1050	793	929	947	1200	1520	1180	1200	792
24	546	688	857	1070	765	949	990	1220	1510	1200	1120	814
25	551	702	712	1100	729	984	1010	1220	1510	1200	1070	811
26	642	694	742	1000	704	987	1020	1250	1510	1230	1080	808
27	838	688	790	810	756	987	1020	1280	1490	1250	1050	807
28	849	696	787	891	832	1010	1020	1320	1490	1210	1010	857
29	754	707	745	894	---	993	1030	1400	1480	1170	1000	865
30	729	731	796	891	---	973	1060	1480	1470	1140	1010	904
31	765	---	790	877	---	973	---	1500	---	1140	997	---
TOTAL	21347	20727	24262	28580	23620	27839	29160	37640	45730	39730	34607	27197
MEAN	689	691	783	922	844	898	972	1214	1524	1282	1116	907
MAX	973	782	877	1100	944	1010	1060	1500	1560	1460	1320	1070
MIN	521	637	712	790	704	801	929	1100	1470	1140	997	781
AC-FT	42340	41110	48120	56690	46850	55220	57840	74660	90710	78800	68640	53950

CAL YR 1982	TOTAL	169089.8	MEAN	463	MAX	1180	MIN	6.1	AC-FT	335400
WTR YR 1983	TOTAL	360439	MEAN	988	MAX	1560	MIN	521	AC-FT	714900

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
NOV								
01...	1230	786	1510	7.9	9.0	8.0	382	160
29...	1320	704	1500	7.8	6.5	5.0	396	170
DEC								
28...	1330	741	1600	7.8	-3.0	1.0	403	170
JAN								
28...	1510	907	1650	7.8	5.5	4.5	373	150
FEB								
22...	1335	814	1550	7.8	7.0	4.0	381	160
MAR								
28...	1340	1010	1790	7.9	7.0	8.0	401	--
APR								
18...	1300	925	1490	7.9	11.0	7.0	381	--
MAY								
18...	1215	1220	1390	7.9	13.0	11.0	359	--
JUN								
28...	1330	1470	890	7.7	--	19.0	249	--
JUL								
29...	1200	1180	1230	7.9	32.0	22.0	331	--
AUG								
22...	1440	1230	1260	8.0	24.0	21.0	313	--
SEP								
06...	1030	1040	1250	7.9	23.0	20.0	321	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV									
01...	74	48	150	45	3.4	13	224	220	200
29...	73	52	160	46	3.6	14	223	230	200
DEC									
28...	74	53	170	47	3.8	15	232	240	230
JAN									
28...	67	50	180	50	4.1	15	221	230	240
FEB									
22...	70	50	170	48	3.9	14	225	230	220
MAR									
28...	73	53	210	52	4.7	16	239	260	270
APR									
18...	70	50	160	47	3.7	13	230	230	200
MAY									
18...	68	46	140	45	3.3	12	215	210	190
JUN									
28...	52	29	82	41	2.3	7.9	174	120	110
JUL									
29...	65	41	120	43	2.9	11	210	180	160
AUG									
22...	56	42	130	46	3.3	12	196	180	170
SEP									
06...	56	44	130	46	3.2	12	195	190	170

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV								
01...	0.5	22	863	1.2	1830	1.2	0.44	1.3
29...	0.6	23	888	1.2	1690	1.2	0.42	1.3
DEC								
28...	0.6	24	948	1.3	1900	0.96	0.45	1.4
JAN								
28...	0.6	21	937	1.3	2300	0.81	0.31	0.95
FEB								
22...	0.6	21	912	1.2	2000	0.70	0.41	1.3
MAR								
28...	0.6	19	1046	1.4	2860	0.87	0.30	0.92
APR								
18...	0.5	19	882	1.2	2200	0.73	0.32	0.98
MAY								
18...	0.6	18	815	1.1	2680	0.60	0.23	0.71
JUN								
28...	0.4	13	519	0.71	2060	0.54	0.18	0.55
JUL								
29...	0.5	20	724	0.98	2310	0.64	0.19	0.58
AUG								
22...	0.6	22	731	0.99	2430	0.49	0.17	0.52
SEP								
06...	0.5	23	744	1.0	2090	0.65	0.31	0.95

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
DEC												
28...	1330	13	69	<1	<10	3	1	140	<.1	1	<1	15
JUL												
29...	1200	16	77	<1	<10	30	1	110	.3	1	<1	15

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
NOV				
01...	1230	300	10	21
29...	1320	300	<3	16
DEC				
28...	1330	320	4	18
JAN				
28...	1510	300	6	16
FEB				
22...	1335	290	7	20
MAR				
28...	1340	350	8	23
APR				
18...	1300	280	6	13
MAY				
18...	1215	260	340	29
JUN				
28...	1330	160	10	27
JUL				
29...	1200	240	26	16
AUG				
22...	1440	250	21	9
SEP				
06...	1030	270	17	9

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
DEC		
28...	1330	<.01
JUL		
29...	1200	<.01

10172650 KENNECOTT DRAIN NEAR MAGNA, UT

LOCATION.--Lat 40°45'28", long 112°10'12", in SW1/4NE1/4SW1/4 sec.3, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, on left bank about 50 ft upstream from culvert on Interstate 80, and 4.5 mi northwest of Magna.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1967. October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map. Prior to June 25, 1976, water-stage recorder at site 350 ft downstream at different datum.

REMARKS.--Records poor. Small diversions for industrial use above station.

AVERAGE DISCHARGE.--17 years (water years 1964-68, 1972-83), 98.4 ft^3/s, 71,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft^3/s Mar. 18, 1964, gage height, 5.50 ft, result of break in dike of Kennecott tailings pond; minimum, 11 ft^3/s July 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 194 ft^3/s Oct. 1, minimum daily, 66 ft^3/s Jan. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	107	130	87	98	93	138	155	95	92	116	113
2	161	106	134	87	102	74	143	153	108	94	105	117
3	142	107	144	87	92	88	152	147	108	96	104	125
4	144	95	152	87	79	100	155	140	99	99	99	135
5	146	87	150	89	76	119	153	132	100	98	91	138
6	118	77	131	120	77	118	147	132	99	93	91	143
7	105	72	117	158	108	126	143	122	93	80	96	137
8	120	80	128	162	126	130	138	123	89	81	104	129
9	123	91	108	148	109	119	132	118	88	85	114	134
10	110	91	75	108	94	107	132	106	83	99	123	123
11	96	89	70	66	91	111	144	143	89	99	128	110
12	93	80	81	80	84	108	153	179	110	102	119	111
13	93	83	99	93	86	126	120	165	114	101	111	109
14	81	78	109	93	128	150	101	148	108	96	107	114
15	75	80	112	92	141	150	97	133	99	101	107	114
16	76	83	116	104	108	133	92	154	93	102	114	116
17	78	88	118	98	92	129	94	160	83	98	129	120
18	72	92	115	88	91	137	91	141	84	96	147	113
19	72	104	110	99	90	158	97	145	82	84	166	116
20	70	120	108	100	84	164	101	135	84	88	172	118
21	73	129	110	116	90	159	103	129	82	86	156	120
22	78	129	118	105	92	138	102	125	79	91	159	120
23	74	129	121	101	92	153	99	122	78	101	150	120
24	79	129	112	102	86	155	122	115	78	101	139	113
25	80	129	87	118	84	144	131	107	80	92	123	107
26	91	128	92	134	80	149	141	105	75	98	120	111
27	158	128	75	134	84	158	142	103	84	102	120	119
28	175	128	78	110	102	165	132	95	88	99	113	126
29	145	128	87	109	---	147	129	90	88	86	125	123
30	94	129	87	116	---	139	128	89	91	90	131	128
31	101	---	87	107	---	126	---	81	---	96	127	---
TOTAL	3317	3096	3361	3298	2666	4073	3752	3992	2731	2926	3806	3622
MEAN	107	103	108	106	95.2	131	125	129	91.0	94.4	123	121
MAX	194	129	152	162	141	165	155	179	114	102	172	143
MIN	70	72	70	66	76	74	91	81	75	80	91	107
AC-FT	6580	6140	6670	6540	5290	8080	7440	7920	5420	5800	7550	7180

CAL YR 1982	TOTAL	34377	MEAN	94.2	MAX	252	MIN	27	AC-FT	68190
WTR YR 1983	TOTAL	40640	MEAN	111	MAX	194	MIN	66	AC-FT	80610

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
13...	1120	93	5680	7.8	14.0	10.0	--	--	1100
NOV									
22...	1200	127	5900	8.1	--	4.5	10.1	--	1100
JAN									
28...	1555	110	5990	8.2	7.0	6.0	10.4	645	940
FEB									
22...	1300	93	6140	7.9	5.0	7.0	--	655	1000
MAY									
19...	1500	148	5280	7.9	18.0	12.0	9.4	655	930
JUN									
14...	1345	112	3770	8.3	24.0	18.5	10.1	657	640
JUL									
18...	1245	97	2950	7.6	36.0	22.0	10.2	650	620
AUG									
31...	1315	121	2930	7.8	32.0	23.0	--	--	590
SEP									
07...	1430	140	3610	7.4	29.0	22.0	9.9	649	650

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
13...	21	280	89	850	62	12	46	230	730
NOV									
22...	21	280	89	930	64	13	50	180	750
JAN									
28...	19	180	120	1100	70	16	50	290	700
FEB									
22...	21	260	92	960	66	13	50	210	790
MAY									
19...	19	260	69	690	60	10	45	150	630
JUN									
14...	13	150	65	540	64	9.6	26	200	450
JUL									
18...	12	140	66	420	58	7.5	26	230	370
AUG									
31...	12	120	71	450	61	8.3	27	230	390
SEP									
07...	13	150	66	530	63	9.3	32	210	420

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT									
13...	1400	1.6	27	3570	4.8	895	2.0	0.80	2.5
NOV									
22...	1500	1.8	21	3730	5.1	1280	1.8	0.59	1.8
JAN									
28...	1800	1.0	24	4160	5.6	1230	1.9	0.95	2.9
FEB									
22...	1600	1.5	22	3900	5.3	984	1.9	0.91	2.8
MAY									
19...	1200	1.6	14	3000	4.1	1200	0.93	0.35	1.1
JUN									
14...	860	1.3	18	2230	3.0	675	0.78	0.54	1.7
JUL									
18...	620	0.8	22	1800	2.5	472	0.73	0.32	0.98
AUG									
31...	720	0.9	30	1950	2.6	636	1.0	0.33	1.0
SEP									
07...	850	0.9	28	2200	3.0	833	1.0	0.29	0.89

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 14...	1345	32	<100	1	<10	14	2	230	<0.1	5	<1	110

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 13...	1120	590	30	100
NOV 22...	1200	490	50	90
JAN 28...	1555	650	40	140
FEB 22...	1300	580	20	150
MAY 19...	1500	340	30	80
JUN 14...	1345	400	40	80
JUL 18...	1245	340	60	60
AUG 31...	1315	430	90	50
SEP 07...	1430	420	30	80

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
JUN 14...	1345	0.03

10172700 VERNON CREEK NEAR VERNON, UT

LOCATION.--Lat 39°58'46", long 112°22'46", in NE1/4SW1/4SW1/4 sec.2, T.10 S., R.5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi upstream from confluence with Dutch Creek forming Faust Creek and 8.3 mi southeast of Vernon.

DRAINAGE AREA.--25.0 mi^2.

PERIOD OF RECORD.--June 1958 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from AMS topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--25 years, 3.28 ft^3/s, 2,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft^3/s Aug. 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum, 0.41 ft^3/s Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 24	1800	93	2.10
May 8	1900	*98	2.14
Aug. 17	1800	17	1.32

Minimum, 2.6 ft^3/s Dec. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.7	3.5	4.2	4.2	7.0	8.8	44	31	15	10	9.4
2	5.2	4.7	3.9	4.2	4.2	7.4	9.3	45	29	14	10	9.4
3	5.0	4.6	4.2	4.2	4.2	7.4	9.9	44	25	14	10	10
4	4.8	4.6	4.4	4.2	4.2	7.4	9.6	50	24	14	10	9.7
5	5.5	4.7	4.4	4.2	4.2	6.7	10	67	25	14	10	9.5
6	5.1	4.3	4.4	4.2	4.2	6.7	9.8	58	23	14	10	9.4
7	4.9	4.4	4.4	4.2	3.7	6.7	9.8	54	23	14	9.8	9.5
8	4.9	4.4	4.4	4.2	4.4	6.7	10	66	21	14	9.7	9.3
9	4.8	4.4	4.7	3.9	4.2	6.7	9.9	65	20	13	9.7	9.3
10	4.7	4.4	4.7	3.9	4.2	6.7	10	44	20	13	9.6	9.4
11	4.7	4.4	4.4	3.9	4.2	7.1	10	38	20	13	9.7	9.3
12	4.7	4.3	4.7	3.9	4.2	8.4	9.9	33	20	13	10	9.4
13	4.7	4.4	4.4	4.1	4.2	9.1	9.7	30	19	13	9.9	9.5
14	4.7	4.3	4.4	4.2	4.2	10	9.7	29	18	13	10	9.5
15	4.7	4.3	4.7	4.4	4.2	10	9.8	30	18	13	11	9.5
16	4.4	4.3	4.2	4.4	4.2	10	9.9	30	18	13	12	9.5
17	4.4	4.2	4.7	4.4	4.2	9.9	10	29	18	12	12	9.7
18	4.4	4.2	4.7	4.4	4.2	9.4	11	30	17	12	12	9.8
19	4.4	4.3	4.7	4.4	4.4	9.2	15	30	17	12	11	9.8
20	4.4	4.2	4.7	4.4	4.2	9.1	20	35	17	11	11	9.6
21	4.4	4.2	4.7	4.4	4.2	9.2	24	39	17	11	11	9.6
22	4.4	4.2	4.7	4.4	4.7	9.2	31	36	17	12	10	9.6
23	4.4	4.1	4.7	4.4	4.7	9.6	40	34	17	11	9.8	9.9
24	4.5	4.3	4.4	4.5	4.7	9.3	70	35	16	11	9.5	9.6
25	4.5	4.4	4.4	4.4	4.7	9.1	60	36	15	11	9.4	9.6
26	4.6	4.3	4.4	4.4	4.7	8.8	42	36	15	11	9.5	9.7
27	4.5	4.3	4.4	4.4	4.7	8.8	36	36	15	11	9.5	10
28	4.4	4.4	4.4	4.4	4.9	8.5	40	33	15	10	9.5	9.9
29	4.4	4.5	4.4	4.4	---	8.5	45	34	15	10	9.5	9.9
30	4.7	4.6	4.4	4.4	---	8.9	48	35	15	10	9.4	9.9
31	4.8	---	4.4	4.4	---	8.9	---	35	---	10	9.4	---
TOTAL	145.4	131.4	137.9	132.4	121.2	260.4	648.1	1240	580	382	313.9	288.2
MEAN	4.69	4.38	4.45	4.27	4.33	8.40	21.6	40.0	19.3	12.3	10.1	9.61
MAX	5.5	4.7	4.7	4.5	4.9	10	70	67	31	15	12	10
MIN	4.4	4.1	3.5	3.9	3.7	6.7	8.8	29	15	10	9.4	9.3
AC-FT	288	261	274	263	240	517	1290	2460	1150	758	623	572

CAL YR 1982	TOTAL	1756.8	MEAN	4.81	MAX	16	MIN	3.0	AC-FT	3480
WTR YR 1983	TOTAL	4380.9	MEAN	12.0	MAX	70	MIN	3.5	AC-FT	8690

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'47", long 112°34'25", in SW1/4NW1/4SW1/4 sec.6, T.4 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft upstream from Forest Service Guard Station, 1.7 mi above Wasatch National Forest boundary, 9.2 mi southwest of Grantsville, and 14.8 mi west of Tooele.

DRAINAGE AREA.--4.19 mi^2. Area at crest-stage gage site, 3.26 mi^2.

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--W 1983: 1982.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,360 ft from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

REMARKS.--Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--20 years, 6.68 ft^3/s, 4,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft^3/s June 8, 1964, gage height, 2.27 ft; minimum daily, 1.7 ft^3/s Jan. 6-12, 1967, many days 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 80 ft^3/s May 29; peaks above base of 20 ft^3/s not determined; minimum daily, 3.7 ft^3/s many days in February.

REVISIONS.--Revised figures of discharge for the water year 1982, superseding those previously published are given herein.

Sept. 26 13	Sept. 27 . . . . . 8.3	Sept. 29 . . . . . 7.8
Sept. 27 . . . . . 7.8	Sept. 28 . . . . . 7.8	

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	7.3	4.6	4.1	4.1	4.3	6.4	9.4	68	25	11	8.7
2	7.7	7.3	4.5	4.1	4.1	4.5	6.4	9.0	62	27	11	8.3
3	7.7	7.1	4.4	4.1	4.1	4.5	6.4	9.4	58	31	10	8.8
4	7.7	7.3	4.5	4.1	4.1	4.8	6.4	9.8	56	30	11	8.8
5	7.7	7.3	4.8	4.4	4.1	4.1	6.4	10	52	28	11	8.8
6	7.7	7.1	4.7	4.4	4.1	4.1	6.4	10	48	27	11	8.8
7	7.7	6.8	4.4	4.3	3.9	4.1	6.0	11	53	28	10	8.3
8	7.3	6.8	4.4	4.1	3.7	4.1	6.0	11	41	29	11	8.3
9	7.3	6.8	4.4	4.1	3.7	4.2	6.0	13	46	31	12	8.3
10	7.3	6.8	4.4	4.1	3.7	4.5	6.0	12	38	29	12	8.3
11	6.8	6.5	4.4	4.1	3.7	5.6	6.2	12	47	27	11	8.8
12	6.8	6.3	4.4	4.1	3.7	6.5	6.0	13	50	24	12	8.8
13	6.8	6.0	4.4	4.1	3.7	6.8	6.0	12	41	23	12	8.8
14	6.4	6.0	4.4	4.1	3.7	7.3	6.0	9.9	40	19	13	9.2
15	6.2	5.6	4.4	4.1	3.7	7.3	6.0	9.0	36	19	12	9.4
16	6.0	5.6	4.4	4.1	3.7	7.2	6.0	10	36	19	8.7	9.3
17	6.0	5.0	4.4	4.3	3.7	6.9	5.6	11	36	18	8.6	9.3
18	6.0	5.1	4.4	4.1	3.8	6.8	6.2	9.9	36	16	9.0	9.3
19	6.0	5.0	4.4	4.2	3.7	6.8	6.4	9.9	33	15	12	9.3
20	6.0	4.8	4.4	4.4	3.7	6.4	6.8	9.7	23	15	13	9.3
21	6.0	4.8	4.4	4.4	3.7	6.4	7.2	10	24	15	12	9.3
22	5.6	4.8	4.4	4.4	3.7	6.0	7.5	13	29	14	10	8.8
23	5.6	4.8	4.4	4.4	3.7	6.0	8.1	15	29	14	9.6	8.3
24	5.6	4.7	4.1	4.1	4.0	6.0	10	25	32	13	8.9	8.6
25	5.7	4.4	4.1	4.1	4.1	6.0	12	48	31	14	8.5	8.3
26	6.0	4.4	4.1	4.1	4.1	6.0	13	44	34	13	8.5	8.3
27	6.4	4.4	4.1	4.1	4.1	5.6	12	48	31	13	9.3	8.3
28	6.2	4.4	4.1	4.1	4.1	5.2	11	52	31	14	9.3	8.3
29	6.6	4.4	4.1	4.1	---	5.2	10	80	28	13	9.0	8.3
30	6.8	4.4	4.1	4.1	---	5.6	9.0	75	26	12	8.8	8.3
31	7.2	---	4.1	4.1	---	6.4	---	70	---	11	8.8	---
TOTAL	206.5	172.0	135.1	129.4	108.2	175.2	223.4	691.0	1195	626	324.0	261.7
MEAN	6.66	5.73	4.36	4.17	3.86	5.65	7.45	22.3	39.8	20.2	10.5	8.72
MAX	7.7	7.3	4.8	4.4	4.1	7.3	13	80	68	31	13	9.4
MIN	5.6	4.4	4.1	4.1	3.7	4.1	5.6	9.0	23	11	8.5	8.3
AC-FT	410	341	268	257	215	348	443	1370	2370	1240	643	519

CAL YR 1982	TOTAL	3336.8	MEAN	9.14	MAX	36	MIN	2.2	AC-FT	6620
WTR YR 1983	TOTAL	4247.5	MEAN	11.6	MAX	80	MIN	3.7	AC-FT	8420

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°31'58", long 112°34'19", in NW1/4NE1/4NW1/4 sec.30, T.3 S., R.6 W., Tooele County, Hydrologic Unit 16020304 on left bank 100 ft upstream from Wasatch National Forest boundary and 200 ft upstream from North Willow Irrigation Company diversion structure, and 7.4 mi southwest of Grantsville.

DRAINAGE AREA.--5.38 mi^2.

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 100 ft^3/s May 29, 1983; minimum daily, 1.6 ft^3/s several days in January and February 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 25	1400	30	1.62
May 10	0300	49	1.68
May 29	--	*100	maximum daily
June 9	0900	55	2.01

Minimum daily, 3.3 ft^3/s many days during November, December, and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	5.3	3.5	3.5	3.5	4.4	6.8	18	72	21	7.4	5.1
2	7.2	5.2	3.5	3.5	3.5	4.7	7.4	17	66	19	8.0	5.2
3	7.2	4.9	3.5	3.7	3.4	5.4	7.4	18	62	17	8.0	5.4
4	7.1	4.9	3.3	3.7	3.4	5.5	7.3	21	58	16	8.6	5.2
5	6.8	4.8	3.3	3.6	3.3	5.6	6.9	28	54	15	8.4	4.9
6	6.6	4.6	3.3	3.5	3.3	5.6	6.8	28	50	15	6.8	4.7
7	6.3	4.6	3.3	3.5	3.3	5.6	6.5	26	47	16	6.6	4.5
8	5.9	4.4	3.3	3.5	3.3	5.6	6.4	26	47	18	6.8	4.4
9	5.7	4.3	3.3	3.5	3.3	5.4	6.7	36	52	19	8.6	4.4
10	5.3	4.1	3.3	3.5	3.3	5.6	6.8	40	50	17	9.2	4.4
11	5.2	4.0	3.3	3.5	3.3	7.6	7.2	28	48	14	8.2	4.2
12	4.8	3.7	3.3	3.6	3.3	12	7.3	27	45	12	7.0	4.1
13	4.8	3.7	3.3	3.7	3.3	14	7.1	24	38	10	6.6	4.1
14	4.8	3.6	3.3	3.8	3.3	15	6.8	21	32	9.2	6.2	3.9
15	4.6	3.5	3.4	4.0	3.3	15	6.8	19	31	9.2	5.6	3.8
16	4.5	3.5	3.5	4.0	3.3	14	7.1	17	29	9.2	5.6	3.8
17	4.2	3.5	3.5	4.2	3.3	12	7.5	15	29	8.8	6.2	3.8
18	4.3	3.5	3.5	4.3	3.4	11	8.2	14	31	8.8	7.5	3.7
19	4.3	3.5	3.5	4.3	3.5	9.2	10	14	34	8.2	9.3	3.8
20	4.3	3.5	3.5	4.3	3.5	8.2	12	14	30	8.6	9.3	3.8
21	4.1	3.5	3.5	4.3	3.5	7.6	15	16	29	8.2	8.8	3.7
22	4.0	3.3	3.5	4.0	3.5	7.3	16	24	28	8.2	8.0	3.7
23	4.0	3.3	3.5	4.0	3.5	6.8	18	36	27	8.6	7.2	3.9
24	4.0	3.5	3.5	4.0	3.6	6.5	25	40	27	8.0	6.7	3.9
25	4.1	3.3	3.5	4.0	3.7	6.4	33	48	26	7.4	6.3	3.8
26	4.5	3.5	3.5	3.9	3.8	6.0	28	46	25	7.4	5.9	3.8
27	5.2	3.3	3.5	3.8	4.0	5.7	24	48	25	7.4	5.6	4.1
28	5.3	3.3	3.3	3.8	4.1	5.5	20	70	24	7.0	5.5	4.1
29	5.3	3.3	3.3	3.7	---	5.3	18	100	23	7.4	5.4	4.1
30	5.6	3.4	3.3	3.6	---	5.6	17	90	22	7.4	5.4	4.1
31	5.4	---	3.4	3.5	---	6.2	---	80	---	8.0	5.3	---
TOTAL	162.8	116.8	105.5	117.8	96.8	240.3	363.0	1049	1161	356.0	220.0	126.4
MEAN	5.25	3.89	3.40	3.80	3.46	7.75	12.1	33.8	38.7	11.5	7.10	4.21
MAX	7.4	5.3	3.5	4.3	4.1	15	33	100	72	21	9.3	5.4
MIN	4.0	3.3	3.3	3.5	3.3	4.4	6.4	14	22	7.0	5.3	3.7
AC-FT	323	232	209	234	192	477	720	2080	2300	706	436	251

CAL YR 1982	TOTAL	2563.7	MEAN	7.02	MAX	29	MIN	1.7	AC-FT	5090
WTR YR 1983	TOTAL	4115.4	MEAN	11.3	MAX	100	MIN	3.3	AC-FT	8160

10172870 TROUT CREEK NEAR CALLAO, UT

LOCATION.--Lat 39°44'39", long 113°53'21", in SW1/4NW1/4SW1/4 sec.28, T.12 S., R.18 W., Juab County, Hydrologic Unit 16020306, on left bank 2.9 mi upstream from Birch Creek and 14 mi southwest of Callao.

DRAINAGE AREA.--8.19 mi^2.

PERIOD OF RECORD.--October 1958 to current year. Monthly discharge only for October and November 1958, published in WSP 1734.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map.

REMARKS.--Records good. No diversion above station.

AVERAGE DISCHARGE.--25 years, 5.74 ft^3/s, 4,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177 ft^3/s June 2, 1983, gage height, 2.84 ft; minimum, 0.24 ft^3/s Feb. 25, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 2	0300	*177	2.84
June 19	0100	164	2.77

Minimum daily, 3.0 ft^3/s Jan. 1, 2, Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	7.1	3.7	3.0	3.3	4.0	5.2	9.5	156	59	6.4	5.2
2	8.4	6.9	3.5	3.0	3.3	4.1	5.3	9.4	146	54	6.3	5.2
3	8.9	6.6	3.5	3.1	3.3	4.2	5.4	9.4	124	43	6.2	5.3
4	9.1	6.6	3.4	3.2	3.4	4.2	5.3	9.9	99	38	6.1	5.2
5	9.5	6.4	3.4	3.2	3.4	4.2	5.2	11	89	35	6.1	5.0
6	9.2	6.2	3.4	3.2	3.6	4.2	5.2	11	93	34	5.9	4.7
7	9.1	6.1	3.4	3.2	3.2	4.2	5.1	11	99	32	5.9	4.4
8	9.6	5.9	3.4	3.2	3.2	4.2	5.2	15	114	31	5.7	4.4
9	10	5.8	3.3	3.2	3.2	4.7	5.2	18	114	29	5.8	4.4
10	9.5	5.7	3.4	3.2	3.2	5.4	5.4	18	102	26	5.6	4.4
11	9.0	5.6	3.3	3.3	3.0	6.1	5.7	16	121	23	5.9	4.2
12	8.5	5.4	3.2	3.1	3.2	6.1	5.6	14	109	20	6.2	4.1
13	8.3	5.3	3.2	3.3	3.2	6.2	5.5	13	79	18	5.9	3.8
14	8.0	5.9	3.3	3.3	3.2	6.3	5.4	11	68	18	6.0	3.8
15	8.0	5.5	3.2	3.4	3.2	6.1	5.4	11	74	16	5.9	3.8
16	8.4	4.2	3.2	3.6	3.2	5.8	5.5	10	82	14	5.7	3.8
17	8.9	4.1	3.4	3.6	3.2	5.7	5.8	9.9	102	13	6.2	3.7
18	9.3	4.1	3.4	3.6	3.2	5.5	6.5	9.9	119	12	7.9	3.7
19	9.5	4.1	3.4	3.6	3.3	5.5	6.5	9.9	128	11	7.5	3.7
20	9.3	3.9	3.2	3.5	3.3	5.2	7.0	11	89	9.9	6.8	4.0
21	8.9	3.8	3.2	3.4	3.2	5.2	8.0	15	58	9.2	6.5	4.0
22	8.4	3.8	3.3	3.4	3.3	5.1	8.4	23	92	8.9	6.4	3.9
23	8.1	3.8	3.2	3.4	3.3	5.0	9.4	38	90	8.6	6.3	3.8
24	7.9	3.8	3.2	3.3	3.6	4.9	11	50	96	7.9	6.1	3.8
25	8.0	3.7	3.2	3.3	3.7	4.8	12	60	88	7.5	6.0	3.4
26	8.1	3.7	3.1	3.3	3.8	4.7	11	79	80	7.0	5.9	3.6
27	7.8	3.7	3.1	3.3	3.8	4.7	11	96	67	6.8	5.7	3.7
28	7.5	3.6	3.1	3.4	4.0	4.7	10	106	63	6.5	5.6	3.9
29	7.5	3.6	3.1	3.4	---	4.6	9.9	117	62	6.4	5.4	4.2
30	7.5	3.8	3.1	3.3	---	5.0	9.8	124	60	6.2	5.3	4.8
31	7.5	---	3.1	3.4	---	5.6	---	131	---	6.4	5.2	---
TOTAL	266.4	148.7	101.9	102.7	93.8	156.2	211.9	1076.9	2863	617.3	188.4	125.9
MEAN	8.59	4.96	3.29	3.31	3.35	5.04	7.06	34.7	95.4	19.9	6.08	4.20
MAX	10	7.1	3.7	3.6	4.0	6.3	12	131	156	59	7.9	5.3
MIN	7.5	3.6	3.1	3.0	3.0	4.0	5.1	9.4	58	6.2	5.2	3.4
AC-FT	528	295	202	204	186	310	420	2140	5680	1220	374	250

CAL YR 1982	TOTAL	2530.0	MEAN	6.93	MAX	49	MIN	1.7	AC-FT	5020
WTR YR 1983	TOTAL	5953.1	MEAN	16.3	MAX	156	MIN	3.0	AC-FT	11810

10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat 41°51'31", long 113°19'35", in NW1/4NW1/4NW1/4 sec.15, T.13 N., R.13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft upstream from diversion structure, 200 ft downstream from confluence of left hand and right hand forks, and 2.9 mi north of Park Valley.

DRAINAGE AREA.--8.72 mi^2.

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft from topographic map. Prior to Aug. 26, 1982 at site 110 ft downstream at different datum.

REMARKS.--Records poor. No diversions above station.

AVERAGE DISCHARGE.--9 years, 6.21 ft^3/s, 4,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft^3/s May 28, 1983; minimum, 0.14 ft^3/s Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 150 ft^3/s May 28; minimum daily, 1.4 ft^3/s several days in December, January, and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.9	2.3	1.4	1.4	2.2	3.5	11	110	28	9.8	5.0
2	3.2	2.7	2.3	1.4	1.4	2.3	3.3	11	100	28	9.2	5.2
3	3.4	2.6	2.2	1.4	1.4	2.6	3.4	12	95	28	9.6	5.7
4	3.4	2.8	2.2	1.4	1.4	2.4	3.4	12	80	26	10	5.2
5	3.2	2.7	2.2	1.4	1.4	2.4	3.3	13	70	23	9.9	4.7
6	3.0	2.7	2.2	1.4	1.4	2.3	3.3	14	65	23	10	4.5
7	3.0	2.7	2.2	1.4	1.4	2.2	3.3	14	70	24	9.6	4.4
8	2.9	2.7	2.2	1.4	1.4	2.2	3.4	14	85	25	9.7	4.8
9	2.8	2.7	2.2	1.5	1.4	2.9	3.8	16	90	26	9.2	4.7
10	2.7	2.7	2.2	1.5	1.4	3.5	3.9	16	85	24	9.0	4.2
11	2.7	2.6	2.2	1.5	1.4	4.0	4.0	15	84	22	8.7	4.1
12	2.7	2.5	2.2	1.5	1.4	3.8	4.0	15	84	20	8.5	4.0
13	2.7	2.5	2.2	1.5	1.4	6.3	4.0	14	65	19	7.9	3.9
14	2.6	2.3	2.0	1.5	1.4	5.2	4.0	14	50	19	7.7	3.9
15	2.6	2.4	2.0	1.4	1.5	4.6	3.9	14	48	18	7.7	3.9
16	2.6	2.2	2.1	1.4	1.5	4.3	3.9	13	45	18	8.8	3.9
17	2.6	2.3	2.3	1.4	1.5	4.1	4.2	13	50	16	8.9	3.9
18	2.6	2.3	2.4	1.4	1.5	3.8	5.3	13	54	14	8.7	3.9
19	2.6	2.4	2.3	1.4	1.5	3.7	6.2	14	39	14	9.7	3.9
20	2.8	2.3	2.2	1.4	1.5	3.5	6.6	14	33	15	8.5	3.9
21	2.7	2.3	2.2	1.4	1.5	3.4	7.6	15	32	14	9.0	3.9
22	2.8	2.3	2.3	1.4	1.5	3.4	8.9	20	32	13	7.6	3.9
23	2.8	2.3	2.3	1.4	1.5	3.3	9.6	25	37	12	7.0	3.9
24	2.7	2.3	2.1	1.4	1.7	3.3	11	40	37	12	6.5	3.9
25	2.8	2.3	2.0	1.4	1.7	3.2	12	55	33	12	6.2	3.9
26	3.5	2.3	1.9	1.4	1.6	3.2	11	70	30	12	5.8	3.9
27	3.2	2.2	1.8	1.4	1.6	3.2	10	90	29	11	5.7	4.4
28	2.7	2.1	1.7	1.4	1.7	3.0	10	150	28	10	5.5	4.2
29	2.9	2.2	1.6	1.4	---	3.0	10	140	29	10	5.4	4.0
30	3.3	2.3	1.5	1.4	---	3.8	11	125	29	9.4	5.2	4.8
31	3.1	---	1.4	1.4	---	3.5	---	120	---	9.8	5.1	---
TOTAL	89.6	73.6	64.9	44.0	41.4	104.6	181.8	1122	1718	555.2	250.1	128.5
MEAN	2.89	2.45	2.09	1.42	1.48	3.37	6.06	36.2	57.3	17.9	8.07	4.28
MAX	3.5	2.9	2.4	1.5	1.7	6.3	12	150	110	28	10	5.7
MIN	2.6	2.1	1.4	1.4	1.4	2.2	3.3	11	28	9.4	5.1	3.9
AC-FT	178	146	129	87	82	207	361	2230	3410	1100	496	255

CAL YR 1982	TOTAL	2762.00	MEAN	7.57	MAX	51	MIN	.90	AC-FT	5480
WTR YR 1983	TOTAL	4373.7	MEAN	12.0	MAX	150	MIN	1.4	AC-FT	8680

NOTE.--No gage-height record Oct. 20 to Dec. 16.

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT

LOCATION.--Lat 37°37'19", long 112°31'07", in NE1/4NW1/4SW1/4 sec.3, T.37 S., R.6 W., Garfield County, Hydrologic Unit 16030001, on left bank 0.5 mi upstream from West Hatch ditch diversion, 2 mi upstream from Spring Hollow, 4.5 mi upstream from mouth, and 5 mi southwest of Hatch.

DRAINAGE AREA.--105 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,300 ft from topographic map.

REMARKS.--Records fair. One small diversion for irrigation above station.

AVERAGE DISCHARGE.--19 years, 52.3 ft^3/s, 37,890 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft^3/s June 19, 1983, gage height, 5.13 ft; minimum recorded, 0.06 ft^3/s Dec. 25, 1977, Jan. 1, 22, 1978, result of ice jam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 250 ft^3/s, 838 ft^3/s June 19, gage height, 5.13 ft; minimum daily, 6.8 ft^3/s Dec. 29 to Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	22	12	6.8	10	16	18	36	636	503	144	76
2	34	21	11	6.8	9.6	16	18	34	615	494	131	76
3	34	22	8.0	7.4	9.0	16	19	34	570	486	124	74
4	34	22	8.2	8.5	9.6	14	16	36	579	476	122	73
5	33	21	8.0	11	9.6	12	15	40	574	464	124	72
6	33	22	7.8	12	9.6	13	14	44	600	454	129	71
7	32	22	8.0	12	10	14	15	44	612	447	119	71
8	30	23	8.6	12	10	14	15	48	619	440	111	72
9	30	22	9.2	12	10	14	16	60	626	433	118	70
10	28	23	9.2	12	10	14	17	76	630	392	110	69
11	28	22	8.6	12	10	15	17	89	646	371	110	67
12	27	19	8.2	12	11	17	16	86	692	359	112	65
13	27	18	8.2	12	11	18	15	80	621	304	104	65
14	26	14	7.6	11	11	19	15	75	592	261	99	64
15	25	15	7.6	11	11	18	16	75	606	232	101	62
16	24	15	7.9	11	12	16	17	81	622	218	103	61
17	24	15	8.4	11	12	16	18	81	662	205	100	62
18	24	16	8.8	11	12	16	19	78	701	196	114	63
19	24	17	9.2	10	12	15	19	82	720	188	105	61
20	24	17	9.2	10	11	15	20	84	690	182	105	60
21	23	16	8.8	10	12	15	21	95	665	180	104	59
22	23	15	9.6	10	12	16	21	133	648	176	101	59
23	23	17	9.6	10	12	17	23	178	633	167	97	60
24	22	17	9.0	10	12	17	30	244	617	159	94	61
25	22	17	8.4	10	13	16	35	304	587	158	92	59
26	23	14	8.0	10	13	15	35	362	568	153	88	57
27	24	13	7.6	10	13	14	36	392	552	147	84	58
28	24	12	7.2	11	14	15	38	440	541	140	82	57
29	23	13	6.8	11	---	15	40	497	530	133	80	58
30	24	13	6.8	11	---	16	40	554	517	136	78	73
31	23	---	6.8	11	---	18	---	600	---	162	76	---
TOTAL	831	535	262.3	325.5	311.4	482	654	5062	18471	8816	3261	1955
MEAN	26.8	17.8	8.46	10.5	11.1	15.5	21.8	163	616	284	105	65.2
MAX	36	23	12	12	14	19	40	600	720	503	144	76
MIN	22	12	6.8	6.8	9.0	12	14	34	517	133	76	57
AC-FT	1650	1060	520	646	618	956	1300	10040	36640	17490	6470	3880

CAL YR 1982	TOTAL	21516.9	MEAN	59.0	MAX	466	MIN	4.5	AC-FT	42680
WTR YR 1983	TOTAL	40966.2	MEAN	112	MAX	720	MIN	6.8	AC-FT	81260

NOTE.--No gage-height record Dec. 24 to Apr. 18.

10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW1/4SW1/4NW1/4 sec.28, T.36 S., R.5 W., Garfield County, Hydrologic Unit 16030001, on right bank at highway bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi^2.

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to September 1983 (discontinued). Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

REVISED RECORDS.--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,870 ft from river-profile map. See WSP 1734 for history of changes prior to Oct. 4, 1949. Relocated at present site Aug. 22, 1978.

REMARKS.--Records fair. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

AVERAGE DISCHARGE.--61 years, 127 ft^3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft^3/s May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft^3/s for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 20 ft^3/s Aug. 30, 31, Sept. 1, 7-9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 500 ft^3/s, 1,380 ft^3/s June 2, gage height, 4.36 ft; minimum daily, 39 ft^3/s Dec. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	80	76	40	60	89	87	246	1330	695	282	169
2	105	78	72	40	54	87	88	228	1340	674	282	167
3	101	77	66	42	60	87	93	215	1240	656	266	162
4	98	78	66	48	62	79	82	232	1210	640	260	158
5	97	79	65	54	62	74	80	259	1170	609	259	160
6	99	77	64	58	60	74	78	288	1160	593	264	160
7	98	77	66	66	62	75	78	295	1140	582	277	160
8	97	83	68	70	63	75	78	329	1120	579	252	178
9	95	87	72	70	63	79	81	382	1130	579	253	164
10	88	86	72	70	62	79	84	437	1120	539	244	160
11	86	81	70	70	62	87	84	487	1130	503	237	160
12	79	77	66	68	63	92	78	467	1200	474	241	157
13	77	78	66	66	63	94	75	445	1120	446	231	152
14	75	74	64	69	63	99	76	437	1030	411	221	151
15	74	80	64	63	62	85	78	433	1040	386	219	151
16	73	80	66	63	64	79	83	473	1050	365	226	149
17	71	79	71	64	63	80	89	467	1070	351	224	149
18	70	81	72	64	66	79	99	462	1130	344	222	149
19	71	88	75	66	64	72	103	472	1200	334	228	149
20	72	85	72	62	62	72	112	468	1180	329	223	147
21	71	79	74	64	64	72	120	499	1080	325	220	145
22	77	82	75	58	66	75	121	557	1040	331	215	144
23	76	84	77	62	66	77	132	646	1020	316	208	142
24	76	86	72	63	69	74	176	745	983	301	203	148
25	75	86	60	63	71	69	215	834	923	295	200	157
26	77	84	47	63	68	69	215	945	860	287	193	149
27	84	82	47	63	68	71	217	1000	831	280	188	149
28	77	78	48	64	80	72	239	1050	795	274	185	149
29	77	80	48	64	---	72	265	1150	762	267	182	149
30	78	80	39	68	---	77	282	1230	727	260	180	149
31	81	---	39	62	---	89	---	1280	---	301	175	---
TOTAL	2587	2426	1999	1907	1792	2454	3688	17458	32131	13326	7060	4633
MEAN	83.5	80.9	64.5	61.5	64.0	79.2	123	563	1071	430	228	154
MAX	112	88	77	70	80	99	282	1280	1340	695	282	178
MIN	70	74	39	40	54	69	75	215	727	260	175	142
AC-FT	5130	4810	3970	3780	3550	4870	7320	34630	63730	26430	14000	9190

CAL YR 1982	TOTAL	48653	MEAN	133	MAX	633	MIN	35	AC-FT	96500
WTR YR 1983	TOTAL	91461	MEAN	251	MAX	1340	MIN	39	AC-FT	181400

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT

LOCATION.--Lat 38°06'15", long 112°20'08", in NE1/4SW1/4NW1/4 sec.20, T.31 S., R.4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi upstream from Pine Creek and 6 mi southwest of Circleville.

DRAINAGE AREA.--986 mi^2.

PERIOD OF RECORD.--May to September 1912, April 1914 to September 1927 (fragmentary 1923, 1925-57), October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1922(M). WSP 1314: 1916. WRD UT-75-1: 1969. WDR UT-78-1: Drainage area. W 1983: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft from river-profile map. May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft upstream at different datum. Apr. 23, 1914 to Sept. 30, 1927, and Nov. 21, 1949 to Aug. 6, 1954, water-stage recorder at site 300 ft upstream at datum 0.23 ft higher.

REMARKS.--Records good. Many diversions above and below station.

AVVERAGE DISCHARGE.--43 years (1914-22, 1923-24, 1949-83), 148 ft^3/s, 107,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s (revised) June 2, 1983, gage height, 7.06 ft, minimum daily, 18 ft^3/s June 30, July 1, 5, 1960, June 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1938 may have exceeded that of June 2, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,980 ft^3/s June 2, gage height, 7.06 ft; minimum daily, 94 ft^3/s Dec. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	165	180	100	150	202	185	389	1770	670	360	236
2	179	163	156	110	150	259	186	381	1880	649	326	228
3	173	159	151	120	140	231	189	357	1830	620	300	210
4	168	153	148	130	140	235	193	338	1670	589	284	176
5	166	153	146	140	150	199	183	339	1580	572	279	173
6	162	152	145	150	150	188	172	359	1490	555	299	178
7	166	152	146	160	150	190	167	378	1380	559	387	174
8	151	153	150	160	160	186	164	418	1330	577	311	201
9	141	167	146	160	170	190	161	506	1270	588	287	179
10	144	186	155	150	170	198	163	588	1230	567	286	169
11	144	186	161	150	160	207	172	669	1230	517	274	161
12	144	168	156	150	160	226	177	749	1320	472	302	160
13	142	153	146	140	170	231	175	750	1370	432	300	156
14	144	148	145	140	180	244	170	737	1220	392	265	150
15	142	150	136	140	180	219	166	713	1110	359	255	144
16	146	153	136	150	170	187	164	691	1070	346	291	148
17	142	157	137	150	170	182	166	713	1050	341	301	168
18	142	167	135	160	170	180	182	718	1050	340	336	175
19	140	184	131	160	180	181	198	707	1060	334	304	168
20	139	186	130	150	180	176	214	702	1070	311	299	147
21	137	170	135	140	170	177	241	704	1040	317	287	166
22	137	161	134	140	170	175	240	751	1000	351	270	174
23	140	157	146	150	180	168	235	869	972	342	259	178
24	140	159	141	150	180	172	264	998	934	307	252	180
25	140	159	128	150	190	171	320	1130	897	290	249	205
26	152	155	116	150	190	164	347	1180	868	277	252	187
27	163	150	110	160	180	161	343	1290	837	274	254	202
28	165	150	110	160	182	162	330	1340	794	276	251	194
29	159	153	100	170	---	164	330	1370	754	250	420	195
30	161	163	94	170	---	165	359	1430	707	248	326	296
31	165	---	94	160	---	176	---	1610	---	288	272	---
TOTAL	4727	4832	4244	4570	4692	5966	6556	23874	35783	13010	9138	5478
MEAN	152	161	137	147	168	192	219	770	1193	420	295	183
MAX	193	186	180	170	190	259	359	1610	1880	670	420	296
MIN	137	148	94	100	140	161	161	338	707	248	249	144
AC-FT	9380	9580	8420	9060	9310	11830	13000	47350	70980	25810	18130	10870

CAL YR 1982	TOTAL	59493	MEAN	163	MAX	484	MIN	71	AC-FT	118000
WTR YR 1983	TOTAL	122870	MEAN	337	MAX	1880	MIN	94	AC-FT	243700

10183500 SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°12'22", long 112°12'25", in SE1/4NE1/4NW1/4 sec.16, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft upstream from bridge on State Highway 22, 1.1 mi west of Kingston, and 1.9 mi upstream from East Fork.

DRAINAGE AREA.--1,131 mi^2.

PERIOD OF RECORD.--June 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft from river-profile map. Prior to Sept. 20, 1918, at site 1 mi downstream at different datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--69 years, 127 ft^3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft^3/s (including estimated flow of 360 ft^3/s in overflow channel bypassing station), Mar. 4, 1938, gage height, 5.20 ft from rating curve extended above 600 ft^3/s; minimum, 0.90 ft^3/s July 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,590 ft^3/s June 3, gage height, 4.82 ft; minimum daily, 28 ft^3/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	157	192	110	162	207	195	411	1430	630	112	251
2	171	151	172	112	151	250	188	368	1540	620	118	227
3	159	149	163	115	148	240	190	325	1560	602	177	200
4	159	150	158	120	157	251	192	296	1520	562	180	170
5	145	150	158	137	158	233	181	304	1440	508	177	160
6	148	141	153	149	158	212	174	351	1380	482	174	140
7	153	129	154	155	155	206	169	375	1360	454	186	130
8	134	131	158	155	162	205	165	369	1300	431	240	110
9	137	151	161	152	185	204	159	464	1260	418	227	90
10	125	175	165	146	184	208	160	534	1240	404	220	70
11	134	182	170	143	175	216	165	567	1210	390	177	60
12	134	173	173	138	174	229	170	601	1230	364	174	53
13	115	163	167	136	182	236	166	593	1360	318	167	48
14	115	156	161	136	193	241	165	575	1330	269	161	45
15	106	155	156	135	194	235	162	539	1200	234	158	35
16	106	158	152	143	186	201	160	539	1140	206	158	28
17	108	162	152	147	185	191	161	588	1110	190	155	32
18	122	168	155	165	184	193	175	566	1070	174	152	50
19	132	179	152	167	249	196	187	539	1060	161	145	45
20	137	182	149	161	199	194	197	566	1070	155	145	35
21	137	177	151	155	184	190	209	566	1030	149	138	35
22	140	169	153	149	192	191	213	611	1010	140	132	45
23	142	163	153	157	196	186	210	694	945	137	130	54
24	140	162	148	159	211	185	238	811	885	140	130	62
25	140	162	145	163	213	189	324	893	840	137	128	85
26	145	164	130	160	230	185	362	965	820	137	127	102
27	150	165	119	167	203	179	334	1010	800	137	127	118
28	155	162	114	179	193	178	303	1060	745	129	126	131
29	148	166	111	178	---	185	313	1110	690	123	150	129
30	151	176	110	167	---	180	379	1150	635	120	449	167
31	157	---	110	158	---	188	---	1240	---	118	273	---
TOTAL	4333	4828	4665	4614	5163	6384	6366	19580	34210	9039	5313	2907
MEAN	140	161	150	149	184	206	212	632	1140	292	171	96.9
MAX	188	182	192	179	249	251	379	1240	1560	630	449	251
MIN	106	129	110	110	148	178	159	296	635	118	112	28
AC-FT	8590	9580	9250	9150	10240	12660	12630	38840	67860	17930	10540	5770

CAL YR 1982	TOTAL	47609	MEAN	130	MAX	348	MIN	22	AC-FT	94430
WTR YR 1983	TOTAL	107402	MEAN	294	MAX	1560	MIN	28	AC-FT	213000

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT

LOCATION.--Lat 37°34'33", long 112°15'54", in NE1/4SE1/4NW1/4 sec.19, T.37 S., R.4 W., Garfield County, Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft upstream from highway bridge, 0.6 mi downstream from Skunk Creek, 3.6 mi upstream from Tropic Reservoir Dam, 9.1 mi southwest of Rubys Inn, and 10.5 mi southeast of Hatch.

DRAINAGE AREA.--71.6 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: 1973.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft from river-profile map. Prior to October 10, 1966, on right bank at different datum.

REMARKS.--Records fair. No diversions above station.

AVERAGE DISCHARGE.--22 years, 18.0 ft^3/s, 13,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft^3/s May 23, 1980, gage height, 3.28 ft; no flow for several days in February and March 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	0230	*372	3.11
Aug. 1	0300	245	2.68
Sept. 30	1130	121	2.44

Minimum daily, 7.0 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	15	9.0	8.0	8.0	13	20	90	344	37	64	16
2	14	13	10	9.0	9.0	13	20	85	306	36	30	17
3	13	13	11	10	9.5	14	20	98	246	35	25	16
4	12	12	11	11	10	15	20	119	201	34	27	16
5	12	12	11	12	10	16	20	132	174	33	27	16
6	11	12	11	11	10	16	20	129	150	32	23	14
7	12	11	11	10	10	16	20	132	138	34	30	15
8	11	12	11	10	10	16	20	156	134	39	28	17
9	11	13	11	10	10	18	20	179	124	39	29	15
10	11	12	11	10	10	20	20	189	115	34	23	15
11	11	13	11	10	10	20	20	205	106	32	26	15
12	11	13	11	10	10	20	20	179	131	30	30	14
13	11	12	11	10	10	20	20	178	99	29	26	14
14	11	12	11	11	11	20	20	162	88	28	21	14
15	11	11	11	11	11	20	20	160	81	27	21	14
16	11	12	11	12	11	18	20	164	76	26	21	14
17	11	13	11	11	12	17	21	149	70	25	24	18
18	11	13	11	11	12	16	24	153	64	26	38	19
19	10	13	11	9.5	12	15	27	151	60	25	27	14
20	10	13	11	8.0	12	15	30	152	57	26	22	14
21	10	13	10	9.0	12	15	40	164	53	35	21	14
22	11	13	9.5	10	12	15	45	183	50	41	20	14
23	11	12	9.0	11	12	15	78	221	49	34	19	21
24	11	12	8.5	11	12	15	86	255	47	30	19	22
25	11	11	8.5	11	12	15	92	283	46	32	19	18
26	15	11	9.0	11	12	15	101	298	47	29	18	17
27	20	11	9.5	11	12	15	98	315	44	30	16	19
28	15	11	8.5	10	12	15	107	325	41	29	16	16
29	14	11	8.5	9.0	---	16	116	345	39	26	18	18
30	14	11	9.0	8.5	---	18	104	361	38	26	17	70
31	17	---	7.0	8.0	---	20	---	360	---	54	17	---
TOTAL	382	366	314.0	314.0	303.5	512	1289	6072	3218	993	762	536
MEAN	12.3	12.2	10.1	10.1	10.8	16.5	43.0	196	107	32.0	24.6	17.9
MAX	20	15	11	12	12	20	116	361	344	54	64	70
MIN	10	11	7.0	8.0	8.0	13	20	85	38	25	16	14
AC-FT	758	726	623	623	602	1020	2560	12040	6380	1970	1510	1060

CAL YR 1982	TOTAL	6755.5	MEAN	18.5	MAX	88	MIN	6.4	AC-FT	13400
WTR YR 1983	TOTAL	15061.5	MEAN	41.3	MAX	361	MIN	7.0	AC-FT	29870

NOTE.--No gage-height record Nov. 12 to Apr. 22.

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UT

LOCATION.--Lat 38°10'15", long 112°01'25", in NW1/4SW1/4NW1/4 sec.28, T.30 S., R.2 W., Piute County, Hydrologic Unit 16030002, near spillway on right side of dam on Otter Creek, 3.7 mi northwest of Antimony and 9.3 mi east of Kingston.

DRAINAGE AREA.--373 mi^2.

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage usually read on 10th, 20th, and last day of each month. Altitude of gage is 6,350 ft by barometer.

REMARKS.--Reservoir was formed in 1898 by a 15-ft earthfill, rock-faced dam which was raised some each year to the ultimate height of 45 ft in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft between gage height zero (bottom of outlet gage) and 36.0 ft (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the stage to 37.0 ft, capacity, 55,200 acre-ft. Spillway crest is at gage height 33.5 ft. Figures given herein represent total contents. Reservoir stores water from Otter Creek and also water diverted from East Fork Sevier River, for irrigation in Sevier River basin.

COOPERATION.--Gage-height record furnished by Otter Creek Reservoir Company. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 56,760 acre-ft May 31, 1982, gage height, 37.6 ft; minimum observed, 200 acre-ft Sept. 10, 1956, gage height, 1.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 54,950 acre-ft July 10, gage height, 36.9 ft; minimum observed, 37,700 acre-ft Oct. 10, gage height, 29.6 ft.

Capacity table (gage height, in feet, and usable contents, in acre-feet)

29	36,410	36	52,660
30	38,550	37	55,200
35	50,170		

RESERVOIR STORAGE (ACRE-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	49190	50670	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	37700	40310	43020	46290	48710	49440	49930	49680	52920	54950	51670	50170
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	38990	41200	44410	47490	49190	49440	49440	50670	53420	54440	50670	49190
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	(a)50500	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	41890	---	48220	---	49680	49190	52410	54180	52920	50420	48710
31	39870	---	46290	(a)48700	---	50170	---	(a)52460	---	(a)52810	(a)50400	---
(#)	30.6	31.5	33.4	---	---	35.0	34.6	---	36.6	---	---	34.4
(*)	+4710	+2020	+4400	+2410	+1800	-330	-980	+3270	+1720	-1370	-2410	-1690

CAL YR 1982 . . . . . (*) +10300
WTR YR 1983 . . . . . (*) +13550

(#) GAGE HEIGHT, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT READING, CONTENTS INTERPOLATED

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°11'49", long 112°09'01", in NW1/4SW1/4SE1/4 sec.13, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030002, on left bank 1,500 ft upstream from bridge on State Highway 22, 2.2 mi east of Kingston, 4.6 mi upstream from mouth, and 10 mi downstream from Otter Creek.

DRAINAGE AREA.--1,207 mi^2.

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,150 ft from river-profile map. Prior to Apr. 29, 1914, staff gage at site 0.5 mi upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft downstream at different datum. June 12, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft downstream at different datum.

REMARKS.--Records fair. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

AVERAGE DISCHARGE.--70 years, 78.2 ft^3/s, 56,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft^3/s May 12, 1941, gage height, 5.05 ft; minimum, 1.0 ft^3/s Jan. 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 1,060 ft^3/s May 26, gage height, 4.90 ft; minimum, 10 ft^3/s Jan 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	19	27	13	73	130	183	294	1290	105	76	89
2	25	19	23	12	74	135	176	291	1300	95	99	40
3	22	18	31	13	75	141	176	284	1200	88	93	36
4	21	18	31	12	76	158	170	283	1110	82	85	33
5	21	18	20	12	76	164	168	287	1050	80	79	31
6	20	18	22	12	78	163	164	335	900	80	76	32
7	20	17	18	12	80	163	162	358	860	78	101	32
8	19	19	21	12	84	165	160	352	830	76	146	32
9	19	19	22	13	90	165	163	380	780	76	115	32
10	16	19	17	13	89	158	172	461	740	76	121	32
11	15	21	18	15	84	151	164	526	665	75	105	30
12	15	20	19	12	93	175	166	583	600	75	91	30
13	15	19	18	14	95	177	163	568	550	66	83	30
14	15	18	22	17	98	181	154	549	500	65	90	31
15	16	21	18	19	99	178	143	489	475	66	82	31
16	16	18	18	23	100	185	152	465	445	71	80	57
17	16	17	18	28	100	220	179	453	400	64	83	61
18	16	18	18	38	101	210	236	438	360	62	81	62
19	15	19	17	41	105	209	238	427	330	58	83	63
20	16	20	17	44	106	198	236	417	305	55	84	62
21	16	19	18	47	108	186	237	414	280	71	82	63
22	18	19	18	49	104	185	237	469	250	77	80	64
23	18	18	19	52	97	193	234	557	225	80	79	72
24	18	18	18	54	116	169	235	750	200	76	79	72
25	18	18	17	57	120	150	240	890	180	77	78	74
26	18	18	16	58	124	143	267	1070	160	75	73	74
27	19	17	16	61	129	138	284	1130	150	76	72	74
28	19	17	15	67	128	143	261	1180	140	79	77	77
29	19	18	14	69	---	168	296	1200	130	76	81	74
30	23	19	14	70	---	202	297	1210	120	72	85	86
31	24	---	13	71	---	198	---	1240	---	72	105	---
TOTAL	580	556	593	1030	2702	5301	6113	18350	16525	2324	2744	1576
MEAN	18.7	18.5	19.1	33.2	96.5	171	204	592	551	75.0	88.5	52.5
MAX	32	21	31	71	129	220	297	1240	1300	105	146	89
MIN	15	17	13	12	73	130	143	283	120	55	72	30
AC-FT	1150	1100	1180	2040	5360	10510	12130	36400	32780	4610	5440	3130

CAL YR 1982	TOTAL	26554.8	MEAN	72.8	MAX	580	MIN	9.8	AC-FT	52670
WTR YR 1983	TOTAL	58394	MEAN	160	MAX	1300	MIN	12	AC-FT	115800

NOTE: No gage-height record May 24 to July 11.

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UT

LOCATION.--Lat 38°19'26", long 112°11'26", in NW1/4NE1/4NW1/4 sec.3, T.29 S., R.3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi south of Marysvale.

DRAINAGE AREA.--2,438 mi^2.

PERIOD OF RECORD.--March 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage read at irregular intervals. Datum of gage is 5,900.8 ft NGVD of 1929 (levels by Office of State Engineer).

REMARKS.--Reservoir is formed by earthfill dam; storage began in summer of 1910. Capacity, 71,830 acre-ft between gage heights 10 ft (approximate bottom of reservoir) and 76 ft (top of flashboards on spillway since 1941). Spillway crest is at gage height 70.2 ft. No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 83,050 acre-ft June 5, 1983, gage height, 79.8 ft, original capacity table; no contents at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 83,050 acre-ft June 5, gage height, 79.8 ft; minimum observed, 43,580 acre-ft Oct. 1, gage height, 62.5 ft.

Capacity table (gage height, in feet, and usable contents, in acre-feet)

62	42,680	75	69,260
63	44,480	79	80,330
65	48,170	80	83,730
70	58,030		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43580	50070	58450	60140	60350	59090	57620	61000	80330	---	62290	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	58030
4	---	---	60140	---	---	---	---	---	---	---	---	---
5	46310	---	---	---	---	59090	---	---	83050	71830	---	---
6	---	---	---	---	---	---	---	---	---	---	62290	---
7	---	---	---	---	---	---	---	60780	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	58450	---	---	58030	---	---	71830	---	58030
10	48170	---	---	---	---	58450	---	---	82030	---	64530	---
11	---	---	---	---	---	---	---	62290	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	53970	60140	---	---	---	---	---	---	---	---	57010
14	---	---	---	---	---	---	---	---	---	71310	---	---
15	50070	---	---	60140	---	58450	---	63860	82030	---	---	---
16	---	---	---	---	---	---	59300	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	54970
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	49690	---	---	---	58030	58030	---	64530	77280	---	64530	---
21	---	55980	---	---	---	---	---	---	---	---	---	54370
22	---	---	---	59090	---	---	---	---	---	---	---	---
23	---	---	59720	---	---	---	59930	---	---	64530	---	---
24	49120	---	---	---	---	---	---	---	---	---	---	52000
25	---	---	---	---	---	---	---	---	78500	---	64530	---
26	---	---	59720	---	55980	55980	---	67570	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	(a)58050	---	61000	---	77280	---	---	---
29	---	---	---	60140	---	---	---	---	---	---	---	---
30	---	58030	59090	---	---	---	61000	77280	(a)75720	62290	64530	52000
31	50070	---	(a)59620	(a)60280	---	(a)57350	---	78800	---	(a)62290	(a)62900	---
(#)	66.0	70.0	---	---	---	---	71.4	78.5	---	---	---	67.0
(*)	+6490	+7960	+1590	+660	-2230	-700	+3650	+17800	-3080	-13430	+610	-10900

CAL YR 1982 . . . . . (*) +10780
WTR YR 1983 . . . . . (*) +8420

(#) GAGE HEIGHT, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'43", long 112°11'30", in NW1/4SW1/4SE1/4 sec.34, T.28 S., R.3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi downstream from Piute Dam and 8.5 mi south of Marysvale.

DRAINAGE AREA.--2,441 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to August 1911, May 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,870 ft by barometer. Prior to May 4, 1912, nonrecording gage at site 0.25 mi upstream at different datums. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.05 mi upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft higher. Feb. 26, 1970 to Apr. 22, 1979 at site 0.25 mi downstream at different datum.

REMARKS.--Records good. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--71 years (1912-83), 215 ft^3/s, 155,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft^3/s May 23, 24, 1922; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,480 ft^3/s June 4, 5, gage height, 3.62 ft; minimum, 7.5 ft^3/s Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	139	70	132	358	440	202	687	2020	1240	341	557
2	12	142	85	132	353	440	359	687	2180	767	317	557
3	30	140	101	132	347	440	350	684	2330	677	282	564
4	30	54	173	130	341	440	350	681	2470	677	256	594
5	30	52	252	106	337	440	350	677	2460	677	256	602
6	30	53	233	79	333	440	287	677	2410	677	256	602
7	30	54	230	79	345	440	251	679	2340	677	256	602
8	31	54	230	79	388	440	251	685	2280	677	256	602
9	31	54	229	79	390	461	250	735	2250	684	256	595
10	31	30	225	138	390	487	248	800	2220	707	256	563
11	31	11	225	191	390	487	248	843	2140	707	256	557
12	31	14	226	191	390	487	251	938	2020	707	287	498
13	31	15	246	191	389	487	251	969	2010	708	311	330
14	40	14	280	191	390	487	251	988	2060	707	311	292
15	110	14	275	191	392	487	309	992	2120	705	312	291
16	125	14	271	191	391	487	353	1000	2060	687	337	291
17	125	15	266	142	390	487	353	1020	2010	672	357	291
18	125	14	262	98	390	487	354	1020	1930	669	361	291
19	132	14	260	102	390	487	357	1020	1810	666	361	291
20	138	14	256	108	407	487	410	1020	1660	617	361	291
21	138	14	253	111	440	487	456	1020	1570	545	361	291
22	138	14	252	66	440	485	407	1020	718	647	361	291
23	138	14	279	40	440	482	315	1050	765	643	361	291
24	138	14	332	84	441	481	324	1100	1610	586	361	291
25	138	14	327	242	447	480	437	1160	1510	552	370	291
26	138	14	326	242	447	480	548	1300	1460	550	440	291
27	138	15	325	242	447	480	583	1440	1410	517	472	291
28	138	15	323	286	442	184	637	1540	1380	428	555	291
29	138	15	278	379	---	10	677	1610	1350	390	562	291
30	138	39	204	371	---	10	683	1690	1320	390	563	291
31	138	---	132	364	---	10	---	1810	---	390	558	---
TOTAL	2669.8	1079	7426	5109	11045	12927	11102	31542	55873	19943	10950	12171
MEAN	86.1	36.0	240	165	394	417	370	1017	1862	643	353	406
MAX	138	142	332	379	447	487	683	1810	2470	1240	563	602
MIN	8.8	11	70	40	333	10	202	677	718	390	256	291
AC-FT	5300	2140	14730	10130	21910	25640	22020	62560	110800	39560	21720	24140

CAL YR 1982	TOTAL	75211.8	MEAN	206	MAX	640	MIN	8.8	AC-FT	149200
WTR YR 1983	TOTAL	181836.8	MEAN	498	MAX	2470	MIN	8.8	AC-FT	360700

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1958 to September 1959, February 1961 to April 1983 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)
OCT									
08...	1230	32	475	8.4	5.0	10.5	9.3	607	219
NOV									
15...	1230	15	475	8.4	14.5	7.0	11.7	606	203
DEC									
13...	1200	221	490	8.5	5.0	1.5	13.7	676	212
JAN									
20...	1200	110	480	8.4	-1.0	2.5	12.0	597	217
FEB									
16...	1130	400	495	8.3	10.0	3.0	11.7	604	220
MAR									
16...	1200	482	445	8.2	6.5	5.5	10.3	602	213
APR									
27...	1300	574	430	8.4	19.5	9.0	9.6	600	205

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
08...	.00	48	24	30	23	.9	4.2	240	25
NOV									
15...	.00	45	22	29	23	.9	4.1	244	26
DEC									
13...	.00	47	23	28	22	.9	4.0	249	24
JAN									
20...	.00	49	23	27	21	.8	3.8	237	23
FEB									
16...	.00	50	23	26	20	.8	4.0	251	25
MAR									
16...	.00	49	22	24	19	.7	3.6	228	23
APR									
27...	--	46	22	23	19	.7	3.6	219	19

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT								
08...	10	0.3	25	311	0.42	26.5	<0.10	0.01
NOV								
15...	10	0.3	27	311	0.42	12.3	0.13	0.07
DEC								
13...	11	0.3	27	315	0.43	188	0.21	0.03
JAN								
20...	10	0.3	27	306	0.42	90.9	0.13	0.01
FEB								
16...	10	0.3	26	316	0.43	341	0.21	0.02
MAR								
16...	9.7	0.3	25	294	0.40	383	0.10	0.02
APR								
27...	11	0.3	22	--	0.38	--	<0.10	0.06

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT		
08...	1230	80
NOV		
15...	1230	70
DEC		
13...	1200	60
JAN		
20...	1200	70
FEB		
16...	1130	60
MAR		
16...	1200	60
APR		
27...	1300	340

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT

LOCATION.--Lat 38°34'20", long 112°15'27", in NE1/4NW1/4NE1/4 sec.5, T.26 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi upstream from bridge on U.S. Highway 89, 0.7 mi upstream from Clear Creek, and 1.0 mi south of Sevier.

DRAINAGE AREA.--2,707 mi^2.

PERIOD OF RECORD.--May 1911 to November 1916 (published as Sevier River at Sevier), April 1939 to September 1955, October 1960 to current year. Records for November 1916 to September 1929 (published as Sevier River at Sevier) include flow of Clear Creek and are not equivalent.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,560 ft by barometer. Prior to May 16, 1912, nonrecording gage, and May 16, 1912 to Sept. 30, 1929, water-stage recorder, at site 0.8 mi downstream at different datums (datum lowered 1.0 ft Mar. 31, 1913).

REMARKS.--Records good. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

AVERAGE DISCHARGE.--43 years (1912-16, 1939-55, 1960-83), 240 ft^3/s, 173,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,500 ft^3/s June 3, 1983, gage height, 4.82 ft; minimum, 2.3 ft^3/s Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft^3/s during last week of May 1922, computed on basis of records for station near Marysvale; minimum, 9.8 ft^3/s March 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,500 ft^3/s June 3, gage height, 4.82 ft; minimum daily, 41 ft^3/s Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	160	67	153	349	433	49	627	2390	1480	425	543
2	85	159	89	152	343	434	262	628	2450	1390	363	543
3	74	158	102	150	344	431	339	630	2290	1070	363	543
4	68	140	113	150	341	442	341	625	2190	988	321	569
5	62	85	197	120	339	442	341	625	2180	943	298	574
6	60	80	236	120	340	433	340	638	2140	930	291	579
7	59	78	232	120	338	429	268	632	2230	924	291	583
8	60	77	232	130	374	432	255	635	2260	930	291	583
9	60	79	232	160	405	431	254	646	2250	956	287	574
10	59	80	232	200	395	456	254	710	2260	956	291	558
11	60	66	232	280	391	470	253	767	2280	912	287	538
12	61	46	231	280	390	466	256	799	2360	852	287	533
13	62	45	231	237	398	471	257	846	2260	810	328	434
14	63	43	258	182	402	475	256	866	2160	786	336	328
15	71	42	276	180	398	473	260	873	2140	774	344	321
16	123	42	276	181	404	472	312	920	2210	763	359	313
17	134	43	271	182	400	470	338	926	2210	729	383	310
18	137	44	266	177	396	471	340	925	2250	702	387	306
19	136	45	263	170	393	465	343	925	2290	696	387	306
20	145	45	262	163	396	460	344	936	2250	688	383	306
21	150	44	259	167	421	462	390	936	2100	604	379	310
22	152	43	258	167	438	469	421	920	1970	628	379	310
23	153	43	260	165	438	469	360	936	1170	654	375	313
24	155	42	293	151	435	471	319	1010	1340	638	375	313
25	157	42	319	130	437	468	331	1070	1880	605	375	317
26	159	42	300	145	439	469	446	1190	1810	579	395	317
27	163	41	300	195	442	466	515	1350	1670	558	447	324
28	161	42	290	247	437	450	542	1580	1640	558	489	320
29	160	43	270	312	---	115	593	1820	1580	429	538	317
30	161	46	240	363	---	60	623	2070	1540	416	543	320
31	162	---	175	355	---	51	---	2240	---	425	543	---
TOTAL	3412	1985	7262	5884	11023	13006	10202	30301	61750	24373	11540	12505
MEAN	110	66.2	234	190	394	420	340	977	2058	786	372	417
MAX	163	160	319	363	442	475	623	2240	2450	1480	543	583
MIN	59	41	67	120	338	51	49	625	1170	416	287	306
AC-FT	6770	3940	14400	11670	21860	25800	20240	60100	122500	48340	22890	24800

CAL YR 1982	TOTAL	83528	MEAN	229	MAX	644	MIN	23	AC-FT	165700
WTR YR 1983	TOTAL	193243	MEAN	529	MAX	2450	MIN	41	AC-FT	383300

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT

LOCATION.--Lat 38°34'45", long 112°17'22", in NW1/4NW1/4SW1/4 sec.31, T.25 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on left bank at south side of State Highway 13, 1.8 mi west of Sevier, 2.3 mi upstream from mouth, and 17.2 mi southwest of Richfield.

DRAINAGE AREA.--164 mi^2.

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft from topographic map.

REMARKS.--Records fair. Small diversions for irrigation above station. Flow regulated by several small reservoirs, combined capacity about 1,000 acre-ft, at headwaters.

AVERAGE DISCHARGE.--26 years, 34.4 ft^3/s, 24,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 769 ft^3/s Apr. 29, 1973, gage height, 4.41 ft; minimum, 1.5 ft^3/s Feb. 21, 1976, gage height, 0.85 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 663 ft^3/s May 31, gage height, 4.06 ft; minimum, 4.7 ft^3/s Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	24	15	12	12	26	46	126	473	180	100	28
2	24	20	15	12	8.8	27	44	117	478	175	92	28
3	23	17	9.3	12	13	32	45	122	418	175	97	28
4	22	18	13	12	13	27	43	137	414	171	80	28
5	23	18	12	12	12	26	36	150	370	161	73	28
6	22	17	11	13	12	26	35	155	352	160	67	27
7	20	17	10	14	14	27	35	141	341	160	58	27
8	20	17	11	15	17	34	37	150	334	150	52	26
9	19	17	11	15	14	41	35	219	332	180	60	26
10	18	17	17	13	13	46	39	214	323	145	51	26
11	18	17	15	14	13	53	44	218	336	122	47	25
12	18	12	14	12	12	60	41	192	330	118	45	25
13	17	17	14	13	12	49	38	184	319	111	42	25
14	17	9.8	11	13	12	46	39	159	315	104	41	25
15	16	12	14	13	12	43	40	150	308	99	46	25
16	16	12	14	15	14	42	44	208	308	94	42	25
17	16	16	15	15	14	37	53	195	315	90	39	25
18	15	16	14	14	18	35	77	208	319	90	38	25
19	15	17	9.8	14	15	29	93	210	319	90	36	26
20	15	16	15	13	13	30	107	178	315	94	35	22
21	15	15	15	14	15	30	108	186	315	109	45	22
22	15	16	14	13	16	28	123	261	315	110	41	23
23	15	16	15	14	17	27	154	310	313	118	39	23
24	15	14	9.5	13	20	26	232	350	305	119	36	23
25	14	14	8.7	14	19	27	222	343	281	117	32	22
26	17	13	7.0	13	19	25	172	403	257	105	30	22
27	22	12	9.4	14	21	28	152	414	236	97	32	22
28	16	15	11	14	22	25	144	425	225	90	40	22
29	17	16	12	13	---	30	144	418	205	83	37	22
30	20	16	12	13	---	44	136	452	198	82	32	22
31	32	---	12	13	---	51	---	466	---	97	29	---
TOTAL	578	473.8	385.7	414	412.8	1077	2558	7461	9669	3796	1534	743
MEAN	18.6	15.8	12.4	13.4	14.7	34.7	85.3	241	322	122	49.5	24.8
MAX	32	24	17	15	22	60	232	466	478	180	100	28
MIN	14	9.8	7.0	12	8.8	25	35	117	198	82	29	22
AC-FT	1150	940	765	821	819	2140	5070	14800	19180	7530	3040	1470

CAL YR 1982	TOTAL	12269.7	MEAN	33.6	MAX	155	MIN	5.0	AC-FT	24340
WTR YR 1983	TOTAL	29102.3	MEAN	79.7	MAX	478	MIN	7.0	AC-FT	57720

NOTE.--No gage-height record June 2 to Sept. 16.

10205000 SEVIER RIVER NEAR SIGURD, UT

LOCATION.--Lat 38°52'13", long 111°57'14", in SW1/4NE1/4SW1/4 sec.19, T.22 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on left bank 200 ft downstream from county road bridge, 0.5 mi downstream from Rocky Ford Dam, 2.3 mi northeast of Sigurd, and 5.0 mi upstream from Lost Creek.

DRAINAGE AREA.--3,375 mi^2.

PERIOD OF RECORD.--July to September 1912, July 1914 to current year. Prior to October 1938, published as "near Vermillion."

REVISED RECORDS.--WSP 1394: 1927-28, 1947.

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft by barometer. July to September 1912, nonrecording gage 0.3 mi downstream at different datum. July 31, 1914 to Apr. 19, 1917, nonrecording gage and Apr. 20, 1917 to Oct. 16, 1935, water-stage recorder, at present site at datum 2.00 ft lower.

REMARKS.--Records good. Flow regulated by reservoirs above station. During irrigation season practically entire flow through Rocky Ford Dam is diverted above station for irrigation below station.

AVERAGE DISCHARGE.--69 years, 102 ft^3/s, 73,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft^3/s May 30, 1922, gage height, 6.1 ft, present datum, from rating curve extended above 600 ft^3/s on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) at times when Rocky Ford Reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,380 ft^3/s June 14, gage height, 6.33 ft; minimum daily, 35 ft^3/s Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	163	158	338	452	526	265	477	1880	1100	183	35
2	176	169	161	283	466	526	272	491	1980	1040	181	40
3	174	176	169	261	469	529	325	520	2190	956	211	47
4	171	180	180	257	466	535	443	523	2310	835	244	56
5	169	255	192	263	466	547	488	449	2350	633	253	64
6	166	308	220	270	466	557	508	424	2320	526	248	78
7	163	262	270	274	463	560	503	376	2290	485	236	86
8	142	216	296	270	463	557	474	355	2250	455	192	86
9	122	185	378	259	466	550	435	352	2290	430	176	86
10	136	176	400	246	474	544	435	352	2250	422	169	86
11	136	173	371	228	480	544	441	365	2160	308	160	91
12	136	173	360	257	480	550	435	386	2280	350	106	117
13	135	166	358	288	511	564	427	469	2320	397	92	218
14	132	155	358	308	520	578	405	550	2350	288	92	348
15	144	132	365	320	500	609	397	541	2290	171	101	316
16	164	123	376	325	494	625	392	564	2190	173	126	238
17	153	132	384	328	491	657	394	692	2170	222	160	181
18	141	136	389	335	494	641	430	782	2140	224	209	166
19	117	138	389	323	491	629	491	796	2070	218	234	158
20	107	144	386	294	494	625	466	792	2080	163	212	134
21	103	148	386	281	497	621	460	773	2110	146	197	123
22	102	152	392	274	497	617	503	768	2060	114	205	124
23	102	150	394	272	503	613	547	778	1940	101	199	140
24	105	148	400	263	511	609	568	786	1690	123	196	160
25	110	148	419	230	517	605	514	880	1360	216	123	161
26	120	152	416	246	517	605	446	900	1360	238	94	163
27	132	153	403	306	523	605	446	1000	1480	226	93	188
28	146	150	352	363	526	597	474	1130	1410	218	86	222
29	153	150	350	386	---	601	480	1280	1310	226	64	222
30	156	155	352	403	---	532	471	1280	1190	203	48	210
31	158	---	363	432	---	294	---	1520	---	166	38	---
TOTAL	4315	5068	10387	9183	13697	17752	13335	21351	60070	11373	4928	4344
MEAN	139	169	335	296	489	573	445	689	2002	367	159	145
MAX	176	308	419	432	526	657	568	1520	2350	1100	253	348
MIN	102	123	158	228	452	294	265	352	1190	101	38	35
AC-FT	8560	10050	20600	18210	27170	35210	26450	42350	119100	22560	9770	8620

CAL YR 1982	TOTAL	45721.2	MEAN	125	MAX	419	MIN	2.5	AC-FT	90690
WTR YR 1983	TOTAL	175803	MEAN	482	MAX	2350	MIN	35	AC-FT	348700

10205030 SALINA CREEK NEAR EMERY, UT

LOCATION.--Lat 38°54'43", long 111°31'47", in SE1/4SW1/4NW1/4 sec.12, T.22 S., R.3 E., Sevier County, Hydrologic Unit 16030003, on right bank, 2.5 mi upstream from Soil Conservation Service retention dam, 15.3 mi west of Emery, and 18.4 mi east of Salina.

DRAINAGE AREA.--51.8 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map. Prior to June 9, 1971, at site 300 ft downstream at different datum.

REMARKS.--Records good except those for winter period and no gage-height record, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--20 years, 18.4 ft^3/s, 13,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 621 ft^3/s May 27, 1983, gage height, 5.44 ft; minimum discharge, 0.80 ft^3/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 60 ft^3/s, 621 ft^3/s May 27, gage height, 5.44 ft; minimum daily, 1.5 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	9.7	1.8	4.6	8.5	9.4	22	196	90	37	29
2	14	11	8.9	1.9	3.0	8.6	9.0	20	180	84	37	29
3	13	9.8	5.1	2.0	2.9	8.5	9.2	26	168	78	37	28
4	13	10	6.2	2.6	3.4	8.8	11	35	164	72	37	27
5	13	11	6.2	3.6	8.3	8.6	11	39	186	68	36	26
6	13	11	6.0	5.2	7.6	8.5	13	33	194	64	36	25
7	13	11	7.2	5.6	8.3	8.8	10	31	194	60	35	27
8	12	11	7.5	5.2	8.3	8.5	9.0	48	194	64	35	27
9	12	11	9.2	4.4	8.8	8.7	8.7	62	201	62	34	25
10	12	11	9.4	3.8	8.7	9.4	9.2	61	213	56	34	23
11	11	10	9.1	3.8	9.1	9.5	9.5	54	188	53	34	24
12	11	8.4	7.9	4.2	8.7	9.9	9.1	42	180	51	36	24
13	11	8.6	5.7	4.7	8.5	9.9	9.0	42	176	48	35	24
14	11	7.6	4.8	4.8	8.4	10	9.0	44	174	47	35	22
15	11	8.0	5.2	5.0	8.0	9.6	9.0	46	174	45	37	21
16	11	8.5	6.4	5.2	8.2	9.1	8.9	49	174	44	37	21
17	11	8.8	6.4	5.8	8.6	9.1	9.7	48	178	42	36	21
18	11	9.8	7.3	5.8	8.2	9.3	11	46	188	40	37	20
19	11	10	8.5	5.0	8.2	8.9	10	43	188	40	36	18
20	11	9.2	8.8	4.8	6.0	8.9	12	47	188	40	35	20
21	11	9.9	6.9	4.7	6.5	9.0	12	69	160	39	34	19
22	11	9.4	5.9	4.7	7.1	8.5	14	104	135	38	34	19
23	11	9.6	5.4	4.9	8.2	8.5	17	136	135	38	33	19
24	11	7.0	4.4	4.8	8.4	9.5	25	169	124	38	33	19
25	11	6.8	2.0	5.2	8.2	9.1	28	246	114	37	33	18
26	11	7.8	1.8	5.0	8.2	8.5	25	325	107	37	32	16
27	11	8.6	1.9	5.2	8.3	8.9	22	385	101	36	31	18
28	12	8.6	1.7	5.4	8.3	8.2	22	434	97	36	30	15
29	12	9.5	1.6	5.2	---	8.4	21	410	93	36	32	12
30	12	9.5	1.5	5.2	---	9.1	23	340	90	36	29	15
31	12	---	1.6	4.8	---	10	---	238	---	39	28	---
TOTAL	365	283.4	180.2	140.3	209.0	278.8	405.7	3694	4854	1558	1065	651
MEAN	11.8	9.45	5.81	4.53	7.46	8.99	13.5	119	162	50.3	34.4	21.7
MAX	15	11	9.7	5.8	9.1	10	28	434	213	90	37	29
MIN	11	6.8	1.5	1.8	2.9	8.2	8.7	20	90	36	28	12
AC-FT	724	562	357	278	415	553	805	7330	9630	3090	2110	1290

CAL YR 1982	TOTAL	7406.5	MEAN	20.3	MAX	107	MIN	1.5	AC-FT	14690
WTR YR 1983	TOTAL	13684.4	MEAN	37.5	MAX	434	MIN	1.5	AC-FT	27140

NOTE.--No gage-height record Dec. 23 to Feb. 3 and July 20 to Sept. 30.

10206000 SALINA CREEK AT SALINA, UT

LOCATION.--Lat 38°57'24", long 111°51'58", in SW1/4NW1/4NW1/4 sec.25, T.21 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on right bank 150 ft upstream from bridge on U.S. Highway 89 in Salina and 0.8 mi upstream from mouth.

DRAINAGE AREA.--292 mi^2.

PERIOD OF RECORD.--April to September 1914 (fragmentary), April 1915 to September 1916, October 1917 to September 1919, November 1942 to September 1955, water year 1960 (annual maximum), October 1960 to current year.

REVISED RECORDS.--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1965(M` WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,140 ft estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft downstream at different datum. Mar. 23, 1915 to Oct. 16, 1917, nonrecording gage, and Oct. 17, 1917 to Sept. 30, 1919, water-stage recorder at site about 0.2 mi upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--38 years (water years 1916, 1918-19, 1944-55, 1961-83), 24.2 ft^3/s, 17,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft^3/s Aug. 26, 1970, gage height, 7.17 ft from floodmark, from rating curve extended above 400 ft^3/s, on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft^3/s May 27, gage height, 5.59 ft; minimum daily, 7.0 ft^3/s July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	37	28	9.5	22	31	44	102	784	176	67	26
2	14	31	26	9.8	19	30	39	90	867	159	54	24
3	13	23	22	12	14	31	40	105	762	140	52	23
4	16	26	21	14	18	36	35	147	721	130	52	46
5	18	28	20	15	20	41	32	230	721	119	60	29
6	16	27	19	17	20	35	30	212	782	116	49	25
7	13	27	19	18	23	35	31	131	797	116	51	21
8	13	30	17	17	24	34	31	181	805	95	47	20
9	14	30	14	13	25	35	32	354	858	94	45	18
10	14	30	13	11	24	39	42	249	894	90	38	15
11	14	29	19	10	23	46	48	230	882	76	45	14
12	14	23	22	12	25	59	38	114	794	69	71	14
13	14	28	22	13	26	58	34	105	755	58	59	13
14	13	17	21	14	25	63	31	100	724	48	37	15
15	14	23	21	17	23	45	28	98	688	45	43	14
16	13	30	25	18	27	38	30	201	656	41	77	12
17	14	30	25	23	25	38	39	145	625	36	99	12
18	13	30	23	22	36	35	67	128	525	32	208	11
19	13	35	24	22	29	34	72	119	476	29	79	9.0
20	14	28	23	22	22	31	100	115	435	35	43	8.6
21	21	30	23	22	25	30	92	229	427	24	39	12
22	22	27	24	21	24	34	95	524	419	17	37	19
23	22	28	26	23	30	32	124	694	351	50	32	22
24	21	23	20	22	31	28	241	832	322	36	29	62
25	21	25	20	23	31	31	272	931	283	34	26	40
26	25	24	19	22	27	31	165	1070	254	32	25	33
27	33	26	20	23	27	28	119	1100	224	9.8	23	32
28	23	30	18	24	30	33	112	1070	223	11	21	31
29	24	30	13	23	---	29	108	1100	221	7.0	31	30
30	31	28	8.0	23	---	35	115	1110	202	18	30	34
31	47	---	9.0	23	---	62	---	988	---	35	27	---
TOTAL	578	833	624.0	558.3	695	1167	2286	12804	17477	1977.8	1596	684.6
MEAN	18.6	27.8	20.1	18.0	24.8	37.6	76.2	413	583	63.8	51.5	22.8
MAX	47	37	28	24	36	63	272	1110	894	176	208	62
MIN	13	17	8.0	9.5	14	28	28	90	202	7.0	21	8.6
AC-FT	1150	1650	1240	1110	1380	2310	4530	25400	34670	3920	3170	1360

CAL YR 1982	TOTAL	14771.26	MEAN	40.5	MAX	376	MIN	.71	AC-FT	29300
WTR YR 1983	TOTAL	41280.7	MEAN	113	MAX	1110	MIN	7.0	AC-FT	81880

10208500 OAK CREEK NEAR FAIRVIEW, UT

LOCATION.--Lat 39°40'26", long 111°24'30", in NW1/4NE1/4SW1/4 sec.19, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 16030004, on right bank 2.1 mi upstream from mouth and 3.7 mi northeast of Fairview.

DRAINAGE AREA.--11.8 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,550 ft from topographic map.

REMARKS.--Records poor. No diversion or regulation above station.

AVERAGE DISCHARGE.--18 years, 11.1 ft^3/s, 8,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft^3/s May 30, 1983, gage height, 5.99 ft result of indirect measurement of peak flow; minimum, 0.78 ft^3/s Nov. 29, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft^3/s May 30, gage height, 5.99 ft, result of indirect measurement of peak flow; peaks above base of 25 ft^3/s, not determined; minimum daily, 2.8 ft^3/s Dec. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	7.2	5.2	3.2	4.1	5.2	6.2	20	370	55	15	6.6
2	4.6	6.6	4.9	3.5	3.7	5.0	6.6	20	340	51	13	6.6
3	5.0	5.9	4.3	3.7	3.5	5.0	5.9	21	310	48	18	6.7
4	5.2	6.4	4.6	4.0	3.6	5.0	5.2	28	270	46	14	10
5	5.2	6.4	4.6	4.0	3.7	5.0	6.0	25	250	42	13	8.0
6	4.6	6.4	4.1	4.3	3.6	4.8	5.5	41	230	39	12	6.6
7	4.6	6.1	4.3	4.7	3.8	4.8	6.6	38	220	37	11	6.0
8	4.8	6.6	4.8	4.4	4.0	4.8	7.2	50	190	36	9.8	5.8
9	4.4	6.4	4.1	4.1	4.1	5.0	7.2	61	180	34	9.0	5.7
10	4.2	6.1	5.2	3.9	3.9	5.4	7.2	68	165	32	10	5.5
11	4.2	6.1	4.5	3.9	3.7	6.1	7.1	62	150	31	12	5.5
12	4.2	5.7	4.4	4.0	3.8	6.9	7.1	60	140	30	33	5.4
13	4.4	6.1	4.0	4.1	4.1	7.2	6.9	57	130	28	15	5.3
14	4.6	4.8	3.9	4.1	4.0	7.4	6.9	53	120	26	11	5.2
15	5.0	6.4	4.3	4.2	3.6	6.9	6.2	50	110	25	10	5.4
16	5.2	6.4	4.9	4.3	4.1	5.8	7.4	48	107	24	9.2	5.8
17	5.4	6.1	4.2	4.4	3.8	6.1	8.0	47	101	23	8.7	6.0
18	5.3	5.9	4.7	4.5	4.0	6.1	8.6	47	96	22	8.4	5.6
19	5.0	5.9	3.9	4.5	4.3	6.2	8.9	46	92	21	8.2	5.5
20	5.0	5.7	4.1	3.8	3.9	5.5	11	45	89	21	7.9	5.8
21	5.0	5.4	4.5	3.9	4.1	6.2	12	54	86	20	7.6	6.2
22	5.0	5.4	5.0	4.3	4.2	5.9	14	62	83	21	7.6	7.3
23	5.0	5.2	4.8	4.0	4.4	5.6	16	76	79	22	7.4	9.4
24	5.4	5.7	4.4	4.2	4.6	5.4	20	90	74	21	7.1	7.7
25	6.1	5.7	4.1	3.8	4.6	5.7	24	108	71	19	6.8	6.9
26	7.2	4.8	3.7	4.3	4.8	5.5	23	130	69	22	6.8	6.6
27	7.2	4.8	4.3	4.0	4.5	5.3	22	180	66	29	6.7	7.4
28	6.6	5.0	3.8	3.9	4.4	5.8	21	240	64	17	6.6	7.0
29	6.6	5.2	3.2	3.9	---	5.6	23	310	63	15	6.6	6.8
30	7.4	5.4	2.8	4.1	---	7.2	21	410	59	14	6.5	7.9
31	8.0	---	2.8	4.2	---	7.7	---	340	---	15	6.5	---
TOTAL	165.4	175.8	132.4	126.2	112.9	180.1	337.7	2887	4374	886	324.4	196.2
MEAN	5.34	5.86	4.27	4.07	4.03	5.81	11.3	93.1	146	28.6	10.5	6.54
MAX	8.0	7.2	5.2	4.7	4.8	7.7	24	410	370	55	33	10
MIN	4.2	4.8	2.8	3.2	3.5	4.8	5.2	20	59	14	6.5	5.2
AC-FT	328	349	263	250	224	357	670	5730	8680	1760	643	389

CAL YR 1982	TOTAL	6676.0	MEAN	18.3	MAX	206	MIN	1.6	AC-FT	13240
WTR YR 1983	TOTAL	9898.1	MEAN	27.1	MAX	410	MIN	2.8	AC-FT	19630

NOTE.--No gage-height record May 31 to Sept. 30.

10215700 OAK CREEK NEAR SPRING CITY, UT

LOCATION.--Lat 39°26'52", long 111°25'29", in SW1/4SE1/4SW1/4, sec.1, T.16 S., R.4 E., Sanpete County, on right bank about 400 ft upstream from powerplant diversion, 0.8 mi downstream from South Fork, and 4.5 mi southeast of Spring City.

DRAINAGE AREA.--8.35 mi^2.

PERIOD OF RECORD.--October 1964 to September 1974, June 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,400 ft from topographic map.

REMARKS.--Records fair. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

AVERAGE DISCHARGE.--14 years, 11.0 ft^3/s, 7,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft^3/s July 23, 1965, gage height, 3.75 ft from floodmark, from rating curve extended above 75 ft^3/s; minimum, 0.93 ft^3/s Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 1	2300	*153	3.03
June 28	2400	106	2.73

Minimum daily, 2.7 ft^3/s Feb 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	8.3	4.2	4.2	4.2	3.7	3.7	5.2	130	94	27	13
2	6.8	8.0	3.7	3.7	3.8	3.7	3.7	5.2	132	86	23	13
3	8.4	6.9	4.8	3.7	3.2	4.2	3.2	5.2	129	86	21	13
4	8.4	7.6	4.8	4.2	3.7	4.2	3.0	5.6	129	76	21	16
5	8.4	7.8	4.8	4.2	3.7	4.2	3.2	6.8	128	73	19	12
6	8.0	7.6	4.8	4.2	3.7	3.9	2.8	6.8	132	72	19	12
7	8.0	7.7	4.8	4.2	3.7	3.7	3.0	6.4	115	70	18	11
8	6.4	8.0	4.2	4.2	3.7	3.7	3.2	8.4	110	68	17	11
9	6.4	7.6	4.2	3.7	3.7	3.7	3.2	9.3	93	66	17	11
10	7.2	7.2	4.2	3.7	3.7	3.7	3.2	8.4	69	62	17	11
11	7.2	6.8	3.7	4.2	3.2	3.7	3.2	8.3	69	57	20	11
12	7.2	4.8	3.7	4.2	3.2	3.7	3.7	8.0	91	54	19	11
13	7.2	5.6	3.7	4.2	3.2	3.7	3.7	8.4	88	51	17	11
14	7.8	5.6	3.7	4.2	3.2	3.4	3.7	8.4	86	49	17	11
15	8.1	5.6	4.2	3.7	3.2	3.4	3.7	8.4	84	45	17	10
16	8.3	6.0	4.2	3.7	3.2	3.6	3.7	7.6	90	42	18	10
17	8.2	6.0	4.8	4.2	3.2	3.7	3.7	7.6	80	40	17	10
18	8.0	6.0	4.8	4.8	3.2	3.7	3.7	7.6	63	37	17	10
19	7.2	5.6	4.8	4.8	3.2	3.7	4.8	7.6	61	36	16	9.9
20	7.6	5.6	4.8	4.8	2.7	3.7	4.8	7.6	67	39	16	9.3
21	7.8	5.2	4.8	4.8	3.7	3.6	4.8	8.8	72	44	15	9.3
22	7.8	4.8	4.8	4.2	3.7	3.7	4.8	11	76	43	16	9.3
23	8.1	3.2	4.8	4.2	3.7	3.7	5.2	14	72	43	15	11
24	8.6	3.7	4.8	4.8	3.7	3.2	5.6	19	76	38	14	10
25	8.4	3.7	4.2	4.8	3.7	3.2	5.6	27	87	45	14	9.7
26	8.8	3.7	4.2	4.8	3.7	3.2	5.2	39	82	40	14	9.4
27	6.5	3.7	4.8	4.8	3.7	3.2	5.2	58	87	42	13	11
28	7.0	4.2	4.2	4.5	3.7	3.2	5.2	74	87	35	13	9.9
29	8.0	4.2	4.2	4.2	---	3.2	5.2	88	96	31	13	10
30	8.7	4.2	4.2	4.2	---	3.7	5.2	98	96	31	14	12
31	9.1	---	4.8	4.2	---	3.7	---	106	---	33	13	---
TOTAL	240.8	174.9	136.7	132.3	98.2	112.6	122.9	689.6	2777	1628	527	327.8
MEAN	7.77	5.83	4.41	4.27	3.51	3.63	4.10	22.2	92.6	52.5	17.0	10.9
MAX	9.1	8.3	4.8	4.8	4.2	4.2	5.6	106	132	94	27	16
MIN	6.4	3.2	3.7	3.7	2.7	3.2	2.8	5.2	61	31	13	9.3
AC-FT	478	347	271	262	195	223	244	1370	5510	3230	1050	650

CAL YR 1982	TOTAL	4814.2	MEAN	13.2	MAX	78	MIN	2.8	AC-FT	9550
WTR YR 1983	TOTAL	6967.8	MEAN	19.1	MAX	132	MIN	2.7	AC-FT	13820

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE1/4SE1/4SE1/4 sec.9, T.18 S., R.3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi^2.

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WRD UT-81-1: 1979, 1980(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft from topographic map.

REMARKS.--Records poor. Records do not include flow diverted around station in an 8-inch pipeline, for culinary water for the city of Manti, and generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

AVERAGE DISCHARGE.--15 years, 31.8 ft^3/s, 23,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft^3/s June 9, 1973, gage height, 2.93 ft; minimum, 0.9 ft^3/s Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 440 ft^3/s May 30 and June 11; peaks above base of 50 ft^3/s not determined; minimum daily, 4.4 ft^3/s Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	7.0	6.0	5.7	5.8	9.6	23	390	285	81	26
2	18	13	6.4	6.4	5.1	5.6	9.3	21	365	270	68	26
3	19	10	5.8	6.8	4.8	6.7	9.4	24	330	260	62	29
4	18	11	6.4	7.0	5.2	7.2	8.8	33	295	255	57	44
5	18	12	6.8	7.4	5.6	7.0	8.0	39	270	255	53	26
6	16	11	6.6	7.4	5.2	6.8	8.0	35	280	250	52	24
7	16	11	6.0	7.2	5.4	6.7	9.4	33	300	250	49	24
8	15	12	6.4	6.8	5.7	6.9	11	44	340	242	46	24
9	14	12	5.8	6.4	6.4	7.6	11	54	380	232	43	22
10	14	12	6.4	5.8	5.6	9.0	10	49	420	220	39	22
11	14	11	6.8	6.0	5.2	11	10	49	440	207	40	22
12	13	9.2	6.4	6.4	5.8	11	9.7	41	390	190	41	22
13	14	11	6.0	6.6	6.2	11	9.4	39	300	180	38	22
14	14	8.2	6.4	6.4	5.8	11	9.4	38	280	170	40	22
15	15	8.8	6.6	6.0	5.0	9.8	11	37	285	162	43	21
16	15	9.2	6.8	6.0	5.8	9.9	11	42	290	156	44	21
17	15	10	7.2	6.4	5.2	8.8	12	37	300	150	41	25
18	14	11	6.8	6.6	5.8	8.6	13	36	310	145	46	22
19	13	9.6	6.4	5.8	5.0	8.6	14	35	330	130	42	22
20	13	9.0	7.0	6.2	4.4	7.8	16	33	330	160	41	21
21	13	9.8	7.4	6.2	4.8	8.2	16	41	310	142	39	20
22	13	8.0	7.4	5.4	5.0	8.3	16	58	320	128	39	20
23	13	6.6	7.0	6.4	5.2	8.3	22	69	310	125	37	21
24	14	7.0	6.6	5.8	5.4	7.8	33	87	300	120	33	22
25	14	7.5	6.0	6.4	5.8	8.2	33	124	285	130	29	22
26	15	7.2	5.6	6.6	5.4	8.1	30	201	280	115	28	21
27	12	7.6	6.2	6.8	5.0	9.4	26	295	270	107	28	24
28	14	8.0	5.6	6.9	4.8	8.0	24	320	270	97	30	22
29	15	8.0	5.2	6.8	---	8.5	24	360	260	92	28	21
30	15	8.0	4.7	6.5	---	9.7	24	440	270	87	27	24
31	16	---	5.2	6.1	---	12	---	415	---	94	26	---
TOTAL	459	292.7	196.9	199.5	150.3	263.3	458.0	3152	9500	5406	1310	704
MEAN	14.8	9.76	6.35	6.44	5.37	8.49	15.3	102	317	174	42.3	23.5
MAX	19	14	7.4	7.4	6.4	12	33	440	440	285	81	44
MIN	12	6.6	4.7	5.4	4.4	5.6	8.0	21	260	87	26	20
AC-FT	910	581	391	396	298	522	908	6250	18840	10720	2600	1400

CAL YR 1982	TOTAL	13548.1	MEAN	37.1	MAX	307	MIN	3.4	AC-FT	26870
WTR YR 1983	TOTAL	22091.7	MEAN	60.5	MAX	440	MIN	4.4	AC-FT	43820

10216200 GUNNISON RESERVOIR NEAR STERLING, UT

LOCATION.--Lat 39°12'23", long 111°42'37", in SE1/4NW1/4NE1/4 sec.32, T.18 S., R.2 E., Sanpete County, Hydrologic Unit 16030004, on right bank 250 ft upstream from earthfill, rock-faced dam on San Pitch River, 1.2 mi northwest of Sterling, 5.7 mi southwest of Manti, and 6.8 mi northeast of Gunnison.

DRAINAGE AREA.--672 mi^2.

PERIOD OF RECORD.--January 1965 to current year.

REVISED RECORDS.--WSP 2127: Drainage area. WDR UT-79-1, WDR UT-81-1: Change in contents.

GAGE.--Inclined staff gage. Datum of gage at top of dead storage is 5,366.2 ft NGVD of 1929 (levels by the Soil Conservation Service and U.S. Geological Survey).

REMARKS.--The reservoir is formed by earthfill, rock-faced dam on the San Pitch River. Active capacity, 18,200 acre-ft at elevation 5,389.6 ft. Dead storage 650 acre-ft below elevation 5,366.2 ft. Figures given herein represent active contents. Extensive diversions above and below reservoir for irrigation. The reservoir is owned and operated by the Gunnison Irrigation Company. Record fair to June and poor thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 19,360 acre-ft June 21, 1982, elevation, 5,389.6 ft; no contents during Sept. 1966, Oct. 1-13, 1966, Aug. 20-29, 1972, Aug. 18 to Sept. 25, July 11 to Oct. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum observed contents, 18,200 acre-ft May 31, elevation, 5,390.5 ft; minimum contents observed, 8,660 acre-ft Oct. 1, elevation, 5381.0 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Soil Conservation Service in 1965)

5,380	7,750	5,389	17,440
5,385	12,720	5,390	18,710

RESERVOIR STORAGE (ACRE-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8660	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	17310	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	17820	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	13000
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	17070	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	15720	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	15720	---	---	---
28	---	---	---	---	(a)17690	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	(a)14810	---	---	---	---	(b)17100	---	(c)15720	---	---	(c)13000
31	(a)11740	---	(a)17120	(a)17300	---	(b)15700	---	(b)18200	---	(c)15330	(c)13670	---
(*)	+3080	+3070	+2310	+180	+390	-1990	+1400	+1100	-2480	-390	-1660	-670

CAL YR 1982 . . . . . (*) +7360
WTR YR 1983 . . . . . (*) +4340

(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED.
(b) CONTENT FIGURES FURNISHED BY SOIL CONSERVATION SERVICE.
(c) CONTENTS ESTIMATED FROM NOTES BY LOWER SEVIER RIVER COMMISSIONER.

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT

LOCATION.--Lat 39°09'19", long 111°52'37", in NE1/4NE1/4SE1/4 sec.14, T.19 S., R.1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft downstream from San Pitch River and 3.2 mi west of Gunnison.

DRAINAGE AREA.--4,921 mi^2.

PERIOD OF RECORD.--March 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,025 ft from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft higher.

REMARKS.--Records fair. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

AVERAGE DISCHARGE.--71 years, 238 ft^3/s, 172,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,000 ft^3/s June 19-21, 1983; minimum, 5.6 ft^3/s July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,000 ft^3/s June 19-21; minimum daily 282 ft^3/s Apr. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	421	397	544	588	758	1010	667	957	3400	3200	620	360
2	360	420	539	589	767	1030	593	1000	3500	3100	600	350
3	358	425	518	589	770	1050	570	1080	3650	3000	593	350
4	366	500	529	589	766	1090	632	1150	3900	2900	608	380
5	362	517	541	589	780	1130	703	1260	4100	2800	627	450
6	372	581	554	589	784	1150	719	1240	4200	2700	593	420
7	367	614	588	589	786	1200	539	1120	4300	2600	580	370
8	362	607	626	586	797	1280	570	1050	4300	2500	584	440
9	351	606	635	585	837	1320	539	1170	4400	2400	505	476
10	335	585	714	583	847	1310	497	1180	4400	2300	480	510
11	336	597	751	583	845	1330	526	1190	4500	2100	544	501
12	338	604	727	583	866	1340	548	1180	4400	1950	513	481
13	335	619	711	582	899	1360	509	1150	4400	1900	509	546
14	332	595	708	581	933	1480	401	1160	4400	1850	509	540
15	326	570	710	579	958	1560	328	1200	4500	1600	497	560
16	325	547	709	575	938	1530	282	1330	4500	1300	513	580
17	338	537	705	569	915	1600	622	1430	4700	1100	548	580
18	338	544	707	584	915	1620	603	1510	4900	1000	826	560
19	327	548	705	601	938	1620	593	1550	5000	950	1120	540
20	316	526	699	594	915	1540	598	1580	5000	900	918	520
21	312	471	705	565	916	1510	612	1600	5000	860	692	520
22	309	471	712	554	913	1480	617	1800	4700	840	719	520
23	305	461	732	547	927	1460	617	1900	4600	800	672	500
24	302	427	694	546	980	1400	617	2050	4600	780	566	520
25	302	439	678	550	1040	1340	893	2150	4400	760	589	520
26	304	450	678	588	1010	1270	1180	2250	4300	740	575	540
27	332	452	679	597	968	1220	990	2400	4100	720	539	560
28	342	473	667	705	987	1040	931	2650	4000	700	470	560
29	339	484	609	750	---	997	938	2850	3700	680	430	580
30	352	503	589	744	---	1000	944	3000	3400	660	400	640
31	383	---	585	743	---	977	---	3200	---	640	380	---
TOTAL	10547	15570	20248	18596	24755	40244	19378	50337	129250	50330	18319	14974
MEAN	340	519	653	600	884	1298	646	1624	4308	1624	591	499
MAX	421	619	751	750	1040	1620	1180	3200	5000	3200	1120	640
MIN	302	397	518	546	758	977	282	957	3400	640	380	350
AC-FT	20920	30880	40160	36890	49100	79820	38440	99840	256400	99830	36340	29700

CAL YR 1982	TOTAL	125150	MEAN	343	MAX	850	MIN	81	AC-FT	248200
WTR YR 1983	TOTAL	412548	MEAN	1130	MAX	5000	MIN	282	AC-FT	818300

NOTE.--No gage-height record May 20 to Aug. 3.

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UT

LOCATION.--Lat 39°22'20", long 112°01'57", in NW1/4NW1/4NW1/4 sec.1, T.17 S., R.2 W., Juab County, Hydrologic Unit 16030003, at Sevier Bridge Dam on Sevier River, 9.0 mi northeast of Scipio.

DRAINAGE AREA.--5,155 mi^2.

PERIOD OF RECORD.--January 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage below gage height 60 ft and wire-weight gage above, at left end of dam, read once daily. Datum of gage is 4,937.51 ft NGVD of 1929.

REMARKS.--Reservoir was formed by a 30-ft earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft by June 1916. Capacity, 236,000 acre-ft between gage heights 6.0 ft (approximate bottom of outlet tunnel) and 80.0 ft (top of flashboard on spillway). No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1961, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 271,600 acre-ft June 21-24, 1983; gage height, 83.0 ft; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 271,600 acre-ft June 21-24, gage height, 83.0 ft; minimum contents observed, 72,070 acre-ft Aug. 25, gage height, 53.6 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

53	72,270	72	161,300
54	73,280	75	186,500
65	114,900	78	215,100
68	132,600	80	236,150
70	146,200	83	271,600

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130700	152900	185700	212100	223400	234000	229700	227600	235100	257800	139900	75730
2	131300	153600	186500	212100	223400	234000	228600	227600	238400	253100	135900	76030
3	132600	154400	187500	213100	224400	234000	227600	227600	241700	248500	132600	76650
4	133200	155100	188400	213100	224400	232900	226500	227600	242800	245100	129400	77280
5	133900	155900	190200	213100	225400	234000	226500	227600	244000	242800	126300	77900
6	134600	157500	191100	213100	225400	234000	225400	228600	245100	240600	123400	78520
7	135200	158200	192000	213100	226500	235100	225400	229700	247300	237300	119900	79150
8	135900	159000	193800	213100	227600	235100	224400	229700	249600	234000	117100	79780
9	136500	159800	194700	214100	227600	235100	224400	228600	254300	229700	113400	80410
10	137200	---	195700	214100	227600	235100	225400	228600	255500	224400	110300	81050
11	137900	---	196600	214100	228600	235100	226500	227600	257800	221300	107400	81690
12	138500	164600	197600	214100	229700	234000	226500	229700	259000	218200	104200	82320
13	139900	165400	198500	214100	230800	234000	225400	229700	261500	215100	101100	82960
14	140600	167000	199500	214100	231900	231900	225400	228600	262800	211100	98190	83610
15	142000	167800	200400	215100	231900	235100	225400	228600	265300	207100	95420	84260
16	142700	169400	201400	215100	231900	235100	225400	228600	264100	203300	92770	85240
17	142700	170200	201400	215100	231900	235100	224400	228600	265300	200400	90290	86220
18	143400	171100	202300	216100	231900	235100	224400	228600	267800	196600	87890	87220
19	144100	172700	203300	216100	231900	235100	224400	228600	267800	192000	85560	87890
20	144800	174400	204200	216100	232900	235100	224400	228600	270400	187500	83610	88230
21	144800	175300	205200	217200	232900	235100	225400	228600	271600	183000	81690	88560
22	145500	176100	206200	217200	232900	234000	225400	227600	271600	178700	79460	89230
23	145500	176100	206200	218200	232900	234000	225400	227600	271600	175300	76960	89940
24	146200	176900	207100	218200	232900	234000	225400	227600	271600	170200	74500	91000
25	146200	178700	208100	219200	232900	234000	225400	228600	270400	166200	72070	92060
26	147000	---	209100	219200	232900	232900	226500	229700	162100	166200	72980	93150
27	147000	181300	210100	220300	232900	232900	227600	230800	267800	158200	73580	94280
28	149200	182200	210100	220300	234000	231900	227600	230800	265300	154400	74200	95790
29	150700	183000	211100	221300	---	231900	227600	230800	264100	150700	74810	97370
30	151400	183900	211100	222300	---	230800	227600	231900	260300	147000	75420	99010
31	152100	---	211100	222300	---	230800	---	234000	---	142700	75730	---
MAX	152100	---	211100	222300	234000	235100	229700	234000	271600	257800	139900	99010
MIN	130700	---	185700	212100	223400	230800	224400	227600	162100	142700	72070	75730
(#)	70.8	74.7	77.6	78.7	79.8	79.5	79.2	79.8	82.1	69.5	54.8	61.6
(*)	+23300	+31800	+27200	+11200	+11700	-3200	-3200	+6400	+26300	-117600	-66970	+23280

CAL YR 1982 . . . . . (*) +50500
WTR YR 1983 . . . . . (*) -29770

(#) GAGE HEIGHT, IN FEET, AT END OF MONTH
(*) CHANGE IN CONTENTS, IN ACRE-FEET

10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE1/4SW1/4SE1/4 sec.35, T.16 S., R.2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi downstream from Sevier Bridge Dam and 11.6 mi southwest of Juab.

DRAINAGE AREA.--5,165 mi^2.

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder and rubble masonry control since Apr. 16, 1914. Altitude of gage is 4,940 ft by barometer. Prior to Apr. 16, 1914, staff gage 500 ft upstream at different datum. Apr. 16, 1914 to Apr. 7, 1938, water-stage recorder at present site and datum. Apr. 8, 1938 to Mar. 31, 1942, water-stage recorder at site 1,300 ft upstream at different datum. Apr. 1, 1942 to July 15, 1961, water-stage recorder on left bank same site and datum.

REMARKS.--Records fair. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

AVERAGE DISCHARGE.--72 years, 239 ft^3/s, 173,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft^3/s June 25, 1983, gage height, 10.90 ft; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,190 ft^3/s June 25, gage height, 10.90 ft; minimum daily, 2.0 ft^3/s Dec. 2-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	4.0	2.6	385	393	995	1450	1170	3220	4550	2380	67
2	6.3	4.0	2.0	386	394	1020	1410	1180	3320	4390	2320	67
3	6.3	4.0	2.0	388	397	1030	1410	1180	3360	4190	2260	67
4	6.3	3.7	2.0	389	399	1060	1400	1180	3410	4240	2200	67
5	6.3	3.3	2.0	390	454	1080	1390	1250	3460	4040	2140	113
6	5.5	3.3	2.0	393	515	1100	1320	1290	3300	4040	2100	165
7	5.5	3.3	2.0	393	518	1180	1240	1290	3440	4090	2060	172
8	5.5	3.7	40	396	522	1280	1050	1290	3540	4050	2020	188
9	5.5	3.4	135	396	519	1490	871	1330	3620	3870	1980	115
10	5.5	3.5	140	396	520	1580	866	1360	3760	3770	1940	115
11	5.5	3.3	179	396	534	1580	869	1450	3900	3720	1920	114
12	5.5	3.3	211	396	548	1580	872	1520	4100	3670	1900	114
13	4.0	3.3	211	397	549	1580	889	1520	4160	3520	1880	114
14	4.0	3.3	208	398	604	1550	915	1570	4230	3420	1860	115
15	4.0	3.7	208	396	644	1540	912	1580	4320	3220	1850	115
16	4.0	4.0	240	396	652	1670	913	1610	4380	3020	1840	116
17	4.0	4.0	293	395	659	1790	911	1770	4240	2920	1820	115
18	3.9	4.0	293	393	679	1790	910	1850	4340	2890	1800	114
19	4.0	4.0	293	390	709	1790	913	1970	4500	2860	1800	117
20	3.7	4.0	290	389	705	1790	913	2070	4570	2830	1780	116
21	3.3	4.0	290	389	740	1800	916	2220	4700	2790	1780	116
22	3.4	4.0	290	389	794	1780	919	2280	4740	2760	1770	116
23	4.0	4.0	292	389	798	1780	921	2270	4760	2730	1760	116
24	4.0	4.0	296	389	813	1790	923	2400	4900	2680	1760	114
25	4.0	4.0	290	392	902	1780	926	2460	4920	2640	1760	114
26	4.2	4.0	293	391	963	1780	931	2520	4920	2610	525	89
27	4.0	3.3	294	393	970	1770	976	2680	4850	2580	75	73
28	3.3	3.3	326	395	973	1750	1040	3080	4830	2550	72	72
29	3.3	3.3	380	389	---	1750	1050	3240	4810	2520	70	71
30	3.6	2.6	383	391	---	1630	1130	3100	4750	2480	68	71
31	4.2	---	383	393	---	1490	---	3130	---	2430	68	---
TOTAL	142.9	109.6	6272.6	12158	17867	47575	31156	58810	125350	102070	49558	3238
MEAN	4.61	3.65	202	392	638	1535	1039	1897	4178	3293	1599	108
MAX	6.3	4.0	383	398	973	1800	1450	3240	4920	4550	2380	188
MIN	3.3	2.6	2.0	385	393	995	866	1170	3220	2430	68	67
AC-FT	283	217	12440	24120	35440	94370	61800	116600	248600	202500	98300	6420

CAL YR 1982	TOTAL	91992.1	MEAN	252	MAX	962	MIN	1.5	AC-FT	182500
WTR YR 1983	TOTAL	454307.1	MEAN	1245	MAX	4920	MIN	2.0	AC-FT	901100

NOTE.--No gage-height record May 25 to Aug. 29.

10219200 CHICKEN CREEK NEAR LEVAN, UT

LOCATION.--Lat 39°33'08", long 111°49'45", in NW1/4NE1/4SW1/4 sec.33, T.14 S., R.1 E., Juab County, Hydrologic Unit 16030005, on right bank 370 ft downstream from county road bridge, just upstream from diversion structure, 0.4 mi upstream from mouth of canyon, and 1.9 mi east of Levan.

DRAINAGE AREA.--27.9 mi^2.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft from topographic map. Prior to Jan. 18, 1978 at site 250 ft upstream at different datum.

REMARKS.--Records poor. Due to changes in irrigation diversion downstream of orifice, a reliable stage-discharge relationship could not be maintained for the period Mar. 31 to Sept. 30.

AVERAGE DISCHARGE.--21 years, 7.91 ft^3/s, 5,730 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft^3/s Sept. 8, 1981, gage height, 5.70 ft, from rating curve extended above 250 ft^3/s on basis of velocity-area study; no flow Feb. 11, 14, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s not determined. Maximum daily discharge, 380 ft^3/s June 1; minimum daily discharge 2.5 ft^3/s Nov. 25 and Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.6	2.8	3.2	4.1	9.1	24	79	380	38	16	12
2	4.6	4.6	2.8	3.0	4.0	9.7	24	78	310	37	15	12
3	4.3	3.7	2.9	3.2	3.9	10	21	83	250	36	15	12
4	4.1	3.7	2.9	3.4	4.1	11	18	80	210	35	15	12
5	4.6	3.5	3.3	3.5	4.3	10	16	96	190	35	15	12
6	4.1	3.5	3.3	3.6	4.1	10	15	90	170	34	14	12
7	3.9	3.5	3.3	3.7	4.3	10	15	86	150	33	14	11
8	3.9	3.7	3.3	3.6	4.3	10	14	83	140	31	14	11
9	3.7	3.7	3.3	3.5	4.3	10	17	81	130	29	14	11
10	3.5	3.5	3.3	3.4	4.1	12	20	78	120	28	14	11
11	3.5	3.5	3.3	3.4	4.1	19	22	81	115	26	14	11
12	3.7	3.3	3.3	3.3	4.1	25	20	84	110	25	14	11
13	3.5	3.2	3.3	3.7	4.3	21	18	86	102	25	14	11
14	3.5	3.0	3.4	3.8	4.3	22	18	83	98	24	14	11
15	3.3	3.0	3.9	3.9	4.3	23	19	81	92	24	15	11
16	3.3	3.0	3.9	4.0	4.3	20	21	78	87	23	15	10
17	3.3	3.0	3.7	4.0	4.3	19	23	76	82	22	15	10
18	3.2	2.8	3.9	4.1	4.9	18	27	77	78	21	16	10
19	3.2	2.8	3.8	4.3	4.6	17	31	88	73	20	16	10
20	3.2	3.0	3.8	4.3	4.9	16	38	99	70	19	15	9.9
21	3.2	3.0	3.7	4.1	5.2	16	52	110	66	19	15	9.8
22	3.2	3.0	3.7	4.3	5.2	16	65	130	61	19	14	9.6
23	3.2	2.9	3.5	4.3	5.6	16	74	150	57	18	14	9.5
24	3.2	2.7	3.3	4.1	5.6	15	89	180	53	18	14	9.4
25	3.2	2.5	3.2	4.1	6.7	14	98	210	50	18	13	9.3
26	3.9	2.6	3.0	4.1	6.7	15	96	250	47	17	13	9.3
27	3.9	2.6	2.8	4.0	6.7	15	92	320	45	17	13	9.3
28	3.5	2.8	2.5	3.9	7.6	16	89	340	46	17	13	9.2
29	3.5	2.8	2.6	4.0	---	16	84	350	42	16	12	9.1
30	4.9	2.8	2.8	4.1	---	21	81	360	39	16	12	9.0
31	7.2	---	3.1	4.1	---	30	---	375	---	16	12	---
TOTAL	119.2	97.3	101.7	118.0	134.9	491.8	1241	4442	3463	756	439	314.4
MEAN	3.85	3.24	3.28	3.81	4.82	15.9	41.4	143	115	24.4	14.2	10.5
MAX	7.2	5.6	3.9	4.3	7.6	30	98	375	380	38	16	12
MIN	3.2	2.5	2.5	3.0	3.9	9.1	14	76	39	16	12	9.0
AC-FT	236	193	202	234	268	975	2460	8810	6870	1500	871	624

CAL YR 1982	TOTAL	3779.4	MEAN	10.4	MAX	82	MIN	1.8	AC-FT	7500
WTR YR 1983	TOTAL	11718.3	MEAN	32.1	MAX	380	MIN	2.5	AC-FT	23240

10224000 SEVIER RIVER NEAR LYNNDYL, UT

LOCATION.--Lat 39°28'55", long 112°23'35", in NW1/4NE1/4SE1/4 sec.27, T.15 S., R.5 W., Millard County, Hydrologic Unit 16030005, on right bank 1.6 mi downstream from highway bridge and 3.5 mi southwest of Lynndyl.

DRAINAGE AREA.--5,966 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1914 to October 1919, October 1942 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft by barometer.

REMARKS.--Records fair except those above gage height of 9.50 ft and of no gage-height record, Aug. 27 to Sept. 21, which are poor. Flow regulated by Sevier Bridge Reservoir about 35 mi upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

AVERAGE DISCHARGE.--46 years, 210 ft^3/s, 152,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,020 ft^3/s June 15-17, 1983; minimum discharge, 2.4 ft^3/s Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,020 ft^3/s June 15-17; minimum daily, 38 ft^3/s Aug. 30 to Sept. 21, and Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	79	82	190	428	1080	1580	920	4160	4640	2100	38
2	115	74	90	200	398	1070	1440	1010	4160	4570	2100	38
3	101	73	80	210	394	1080	1360	1040	4200	4330	2080	38
4	87	72	75	240	393	1110	1330	1050	4330	3980	2100	38
5	83	71	75	270	393	1170	1300	1040	4550	3720	2090	38
6	82	71	75	290	407	1200	1280	1060	4660	3640	2050	38
7	81	70	79	310	472	1210	1260	1120	4740	3520	1970	38
8	78	70	115	310	487	1220	1170	1140	4600	3460	1950	38
9	76	70	90	290	576	1310	1090	1150	4620	3370	1930	38
10	74	74	133	290	606	1410	876	1150	4620	3220	1910	38
11	74	75	255	290	535	1590	774	1210	4570	3000	1890	38
12	74	72	220	280	517	1680	776	1270	4660	2870	1870	38
13	74	71	250	290	544	1680	764	1350	4880	2740	1830	38
14	73	70	271	290	554	1620	747	1420	5000	2600	1800	38
15	72	69	280	310	565	1600	768	1440	5020	2480	1800	38
16	71	69	189	340	612	1590	770	1510	5020	2400	1800	38
17	71	69	197	380	616	1570	778	1590	5020	2330	1800	38
18	70	69	250	390	632	1650	778	1640	4900	2320	1810	38
19	69	72	262	390	655	1700	773	1790	4640	2310	1840	38
20	69	74	270	380	750	1700	770	1870	4640	2300	1810	38
21	68	74	237	400	761	1700	786	1950	4660	2280	1790	38
22	68	72	232	430	766	1710	790	2050	4760	2270	1780	40
23	70	71	237	430	829	1700	784	2120	4850	2270	1770	42
24	70	70	243	430	852	1700	787	2200	4930	2270	1760	48
25	70	70	233	450	875	1700	795	2210	4880	2250	1750	45
26	70	70	210	460	914	1700	775	2250	4900	2230	1730	53
27	76	71	200	479	990	1700	780	2360	4900	2200	1000	55
28	82	70	200	523	1060	1700	791	2470	4810	2170	500	47
29	81	70	190	585	---	1700	843	2680	4740	2140	300	39
30	72	73	180	503	---	1700	873	3070	4640	2120	38	38
31	78	---	190	447	---	1690	---	3780	---	2110	38	---
TOTAL	2428	2145	5690	11077	17581	46940	28388	52910	141060	88110	50986	1205
MEAN	78.3	71.5	184	357	628	1514	946	1707	4702	2842	1645	40.2
MAX	129	79	280	585	1060	1710	1580	3780	5020	4640	2100	55
MIN	68	69	75	190	393	1070	747	920	4160	2110	38	38
AC-FT	4820	4250	11290	21970	34870	93110	56310	104900	279800	174800	101100	2390

CAL YR 1982	TOTAL	78261.1	MEAN	214	MAX	811	MIN	7.6	AC-FT	155200
WTR YR 1983	TOTAL	448520	MEAN	1229	MAX	5020	MIN	38	AC-FT	889600

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1951 to current year.
SPECIFIC CONDUCTANCE: March 1951 to September 1980, once daily, October 1980 to September 1981, continuous (discontinued).
WATER TEMPERATURES: March 1951 to September 1980, once daily, October 1980 to September 1981, continuous (discontinued).
SEDIMENT DATA: October 1976 to current year, periodically.

INSTRUMENTATION.--Conductance and water temperature recorder October 1980 to September 1981.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 8,300 micromhos Dec. 27, 1962; minimum daily, 395 micromhos Feb. 17, 1980.
WATER TEMPERATURES: Maximum recorded, 33.0°C Aug. 23, 1981; minimum, 0.0°C on many days during winter period of most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
23...	1000	68	2240	8.4	0.0	0.5	2.1	11.8	630	65
JAN										
27...	1000	480	2000	8.1	7.5	3.5	51	10.6	625	K25
MAR										
30...	1000	1700	1800	8.6	17.0	8.5	50	9.8	634	K5
MAY										
18...	1130	1630	1670	8.5	17.0	12.0	40	9.0	633	150
JUL										
21...	0840	2340	880	8.6	24.5	21.5	92	6.4	635	48
AUG										
19...	1205	1700	1100	8.5	27.0	22.5	1.0	7.3	633	--

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV									
23...	87	630	13	90	98	260	47	4.6	5.9
JAN									
27...	K5400	470	9.4	63	76	260	54	5.3	6.9
MAR									
30...	350	470	9.4	70	72	210	49	4.3	6.0
MAY									
18...	920	500	10	73	77	190	45	3.8	6.3
JUL									
21...	880	310	6.2	59	40	75	34	1.9	5.3
AUG									
19...	940	340	6.8	57	48	110	41	2.7	5.9

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV									
23...	280	400	390	0.3	15	1470	1430	2.0	271
JAN									
27...	290	320	330	0.4	16	1280	1250	1.7	1660
MAR									
30...	310	280	250	0.4	18	1110	1090	1.5	5090
MAY									
18...	310	280	220	0.3	--	1070	1030	1.5	4710
JUL									
21...	270	110	74	0.4	10	533	533	0.72	3370
AUG									
19...	270	150	130	0.3	10	669	671	0.91	3070

K Results based on colony count outside acceptable range (nonideal colony count).

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV 23...	0.51	0.09	0.12	1.00	0.03	0.09	0.01	<0.01	0.03
JAN 27...	0.49	0.06	0.08	1.40	0.16	0.49	0.04	0.01	0.03
MAR 30...	0.43	0.12	0.15	0.9	0.09	0.28	0.03	0.02	0.06
MAY 18...	0.21	<0.06	0.08	0.6	0.02	0.06	0.00	0.02	0.06
JUL 21...	<0.1	0.05	0.06	1.20	0.19	0.58	0.02	0.02	0.06
AUG 19...	0.26	0.12	0.15	1.50	0.16	0.49	0.02	0.04	0.12

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 23...	1000	20	6	200	<10	<1	10	<1.00	1	40	<1
MAR 30...	1000	10	3	71.00	0.50	1	1	3.00	2	4.00	2
MAY 18...	1130	<10	6	70.00	0.50	<1	<1	<3.00	3	4.00	1
AUG 19...	1205	10	6	110	<0.50	<1	<1	<3.00	3	4.00	<1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 23...	80	10	<0.1	4	<1	1	<1	1000	5.4	10
MAR 30...	70	3	0.1	10	2	1	1	1100	6.0	20
MAY 18...	70	3	0.1	<10	2	1	<1	1100	<6.0	7.00
AUG 19...	50	4	0.1	<10	1	1	<1	720	<6.0	5.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 23...	1000	68	0.5	34	20	3.7
JAN 27...	1000	480	3.5	83	248	321
MAR 30...	1000	1700	8.5	52	248	1140
MAY 18...	1130	1630	12.0	70	518	2280
JUL 21...	0840	2340	21.5	95	223	1410
AUG 19...	1205	1700	22.5	74	337	1550

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'23", long 112°13'55", in NE1/4NE1/4NW1/4 sec.7, T.17 S., R.3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi upstream from a 12-inch pipeline diversion at Walker's Fork and 5.7 mi east of Oak City.

DRAINAGE AREA.--5.58 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft from topographic map.

REMARKS.--Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--19 years, 3.20 ft^3/s, 2,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft^3/s Apr. 29, 1973, gage height, 2.21 ft; minimum, 0.03 ft^3/s Dec. 31, 1967, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 14	0700	15	1.71
May 24	1900	*87	2.19
Aug. 15	2100	25	1.00
Sept. 3	1700	12	.85

Minimum daily, 1.4 ft^3/s Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.7	3.8	1.5	3.6	6.6	12	50	40	10	2.7	2.3
2	2.9	3.7	3.0	1.5	3.6	6.6	12	46	39	9.5	2.7	2.3
3	3.0	3.5	2.9	1.5	3.0	6.8	13	40	32	9.0	2.7	3.4
4	3.0	3.4	2.6	1.5	3.2	7.6	13	39	27	9.0	2.5	3.5
5	3.3	3.2	2.9	1.5	3.5	7.3	12	42	28	8.2	2.3	2.7
6	3.4	3.3	2.9	1.6	3.8	7.0	12	42	26	7.4	2.1	2.7
7	3.1	3.3	3.0	1.6	3.8	7.0	12	42	26	8.2	2.1	2.6
8	3.2	3.3	3.0	1.9	4.3	7.0	12	47	29	9.6	2.1	2.6
9	3.2	3.3	3.2	2.1	4.1	7.3	12	52	30	8.4	2.0	2.2
10	3.1	3.4	3.3	2.2	4.1	7.8	12	54	31	7.4	1.9	2.4
11	3.0	3.1	3.3	2.2	4.1	9.0	12	42	33	6.4	1.8	2.4
12	2.7	3.0	3.5	2.1	4.1	10	13	36	31	7.6	1.9	2.4
13	2.6	3.0	3.5	2.1	4.4	11	12	34	30	6.6	1.8	2.2
14	2.5	2.9	3.3	2.1	4.3	14	12	31	28	5.6	1.8	2.2
15	2.4	2.9	3.5	2.1	4.4	14	12	30	25	4.7	4.8	2.2
16	2.3	2.7	3.5	2.2	4.4	13	12	30	23	4.2	3.1	2.0
17	2.3	2.7	3.5	2.5	4.4	12	13	31	21	4.0	3.0	2.0
18	2.3	2.7	3.5	2.6	4.6	12	15	30	22	4.6	3.4	2.2
19	2.2	3.2	3.5	2.7	4.4	12	16	30	24	3.4	4.4	2.0
20	2.2	3.2	3.6	2.8	4.4	11	18	28	26	3.5	3.3	2.0
21	2.2	3.2	3.6	2.7	4.8	11	20	31	26	3.4	3.1	2.0
22	2.1	3.2	3.5	2.6	5.0	10	23	44	21	3.5	2.9	1.9
23	2.1	3.0	3.6	2.7	5.1	10	30	67	18	3.9	2.8	2.0
24	2.1	3.0	3.5	2.9	5.3	10	41	63	17	3.4	2.6	2.0
25	2.1	2.9	3.5	2.7	5.5	10	44	56	20	3.4	2.6	1.8
26	2.1	2.9	2.6	2.8	5.5	10	41	41	32	3.3	2.5	2.0
27	2.1	2.7	2.0	3.0	5.9	9.6	39	28	28	3.2	2.4	2.0
28	2.1	2.7	1.7	3.2	6.4	9.3	42	43	24	3.1	2.3	1.8
29	2.1	2.6	1.6	3.3	---	9.3	48	44	15	2.8	2.3	1.9
30	2.9	2.9	1.5	3.6	---	10	52	48	11	2.7	2.2	1.9
31	4.2	---	1.4	3.6	---	12	---	45	---	2.9	2.3	---
TOTAL	81.7	92.6	93.8	73.4	124.0	300.2	637	1286	783	172.9	80.4	67.6
MEAN	2.64	3.09	3.03	2.37	4.43	9.68	21.2	41.5	26.1	5.58	2.59	2.25
MAX	4.2	3.7	3.8	3.6	6.4	14	52	67	40	10	4.8	3.5
MIN	2.1	2.6	1.4	1.5	3.0	6.6	12	28	11	2.7	1.8	1.8
AC-FT	162	184	186	146	246	595	1260	2550	1550	343	159	134

CAL YR 1982	TOTAL	1267.09	MEAN	3.47	MAX	23	MIN	.40	AC-FT	2510
WTR YR 1983	TOTAL	3792.6	MEAN	10.4	MAX	67	MIN	1.4	AC-FT	7520

NOTE.--No gage-height record June 18 to July 18.

10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'11", long 112°17'07", in NE1/4NE1/4SW1/4, sec.10, T.17 S., R.4 W., Millard County, Hydrologic Unit 16030005, on right bank 0.5 mi upstream from Fish Lake National Forest, 3.2 mi east of Oak City along road to Forest Camp.

DRAINAGE AREA.--17.8 mi^2.

PERIOD OF RECORD.--June 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,640 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 190 ft^3/s May 23, 1983; minimum daily, 1.7 ft^3/s Oct. 1-3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 190 ft^3/s May 23; peaks above base of 20 ft^3/s not determined; mininum daily, 4.3 ft^3/s Oct. 23-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	8.5	5.9	8.1	11	19	35	96	130	38	13	15
2	5.7	8.3	5.5	8.3	10	20	37	88	130	34	13	15
3	5.7	8.1	5.3	8.8	10	20	38	82	110	31	13	20
4	5.7	8.1	5.5	9.2	11	20	38	80	100	32	12	21
5	6.0	8.1	5.9	9.9	11	21	38	86	105	27	11	17
6	6.3	8.1	6.0	10	11	21	38	86	96	25	10	17
7	6.0	8.1	6.0	10	11	22	37	92	96	29	10	16
8	6.0	8.1	6.0	9.9	12	22	38	120	110	34	10	16
9	6.0	8.1	6.4	9.9	12	23	37	150	120	31	9.8	14
10	6.0	8.1	6.8	9.4	12	24	38	150	130	24	9.4	15
11	6.0	7.8	6.8	9.5	12	26	38	125	140	22	9.0	15
12	5.7	7.6	7.1	9.6	12	30	37	105	130	27	9.4	15
13	5.7	7.6	7.2	9.9	13	34	38	105	109	26	9.0	14
14	5.7	7.3	7.2	9.9	13	39	38	82	93	24	14	14
15	5.3	7.2	7.2	9.9	13	44	38	79	82	22	25	14
16	5.1	7.4	7.4	9.9	13	44	40	82	69	21	17	13
17	5.0	7.3	7.6	10	13	44	41	92	58	19	16	13
18	4.9	6.1	7.8	10	13	42	45	83	59	22	19	14
19	4.6	4.8	8.1	11	13	40	51	93	70	31	23	13
20	4.6	4.7	8.3	11	13	37	54	91	81	19	18	13
21	4.6	5.0	9.1	11	14	37	63	110	87	18	17	13
22	4.6	5.3	9.5	10	14	35	65	150	82	19	17	13
23	4.3	5.3	9.9	11	14	34	59	190	67	20	16	12
24	4.3	5.3	8.8	11	15	32	63	170	52	17	16	13
25	4.3	5.3	8.5	11	15	30	82	150	55	17	16	13
26	4.6	5.3	8.4	11	16	29	95	120	70	16	15	13
27	5.4	5.3	8.1	11	17	28	85	94	104	16	15	12
28	5.0	5.3	8.1	12	18	28	85	140	88	15	15	12
29	5.2	5.6	7.8	12	---	28	90	150	47	13	15	12
30	6.0	5.8	8.1	12	---	29	110	160	40	13	14	11
31	8.4	---	8.1	11	---	35	---	140	---	14	15	---
TOTAL	168.4	202.9	228.4	317.2	362	937	1591	3541	2710	716	441.6	428
MEAN	5.43	6.76	7.37	10.2	12.9	30.2	53.0	114	90.3	23.1	14.2	14.3
MAX	8.4	8.5	9.9	12	18	44	110	190	140	38	25	21
MIN	4.3	4.7	5.3	8.1	10	19	35	79	40	13	9.0	11
AC-FT	334	402	453	629	718	1860	3160	7020	5380	1420	876	849

CAL YR 1982	TOTAL	3168.8	MEAN	8.68	MAX	42	MIN	2.2	AC-FT	6290
WTR YR 1983	TOTAL	11643.5	MEAN	31.9	MAX	190	MIN	4.3	AC-FT	23090

NOTE.--No gage-height record May 21 to June 11 and July 20 to Sept. 20.

10234500 BEAVER RIVER NEAR BEAVER, UT

LOCATION.--Lat 38°16'50", long 112°34'25", in SW1/4SW1/4SE1/4 sec.18, T.29 S., R.6 W., Beaver County, Hydrologic Unit 16030007, on left bank 4.2 mi east of Beaver. Prior to July 15, 1983, at site 1,800 ft upstream.

DRAINAGE AREA.--91.0 mi^2.

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map. Prior to Mar. 30, 1914, nonrecording gage, and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 800 ft upstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at site 1,800 ft upstream at different datum. Mar. 21, 1959 to Mar. 21, 1978 at site 3,800 ft upstream at different datum. Mar. 21, 1978 to May 28, 1983, at site 1,800 ft upstream at different datum.

REMARKS.--Records good except those for winter period and no gage-height record, May 28 to July 14, which are poor. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

AVERAGE DISCHARGE.--69 years, 52.2 ft^3/s, 37,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft^3/s July 22, 1936, gage height, 7.27 ft, site and datum then in use, from rating curve extended above 500 ft^3/s; minimum, 1.8 ft^3/s Dec. 6, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 10	2115	203	2.46
June 19	unknown	*940	3.70

Minimum daily, 14 ft^3/s Dec. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	31	22	15	23	24	28	53	860	370	109	83
2	42	28	21	15	19	24	27	49	850	350	105	81
3	45	27	19	16	21	25	27	49	800	330	107	74
4	44	33	21	17	22	25	26	66	720	320	102	70
5	44	31	23	19	22	25	27	82	650	300	101	67
6	41	31	23	22	21	24	28	73	620	290	98	65
7	41	33	24	23	22	24	27	78	600	280	98	74
8	37	32	20	24	22	24	25	108	680	280	99	76
9	37	31	19	24	22	24	25	149	640	320	94	67
10	36	32	21	24	21	28	27	169	680	260	94	64
11	35	35	25	24	21	28	27	169	720	240	94	68
12	35	30	25	24	22	28	26	138	720	220	108	69
13	34	36	24	23	23	29	27	130	680	200	103	67
14	34	29	23	23	22	34	26	111	640	190	106	64
15	34	39	24	23	21	32	26	106	620	172	107	62
16	34	37	25	23	22	29	26	111	640	167	109	62
17	33	34	25	24	22	30	29	101	660	156	105	62
18	32	34	26	24	22	27	34	96	680	147	110	61
19	31	33	27	24	22	27	33	96	880	143	102	55
20	31	30	24	24	20	30	37	101	820	139	99	65
21	32	32	24	23	21	26	37	155	700	135	97	63
22	31	31	24	23	21	26	39	243	600	131	95	60
23	32	27	25	23	22	26	46	372	560	127	93	59
24	31	27	25	23	24	25	68	368	520	120	91	61
25	31	29	19	23	24	24	88	410	480	120	92	60
26	29	29	16	23	24	26	76	454	460	113	90	52
27	34	28	17	23	23	24	68	509	440	108	87	62
28	24	26	15	23	24	25	60	543	430	105	88	44
29	33	28	14	23	---	24	61	680	410	102	93	36
30	33	25	14	22	---	26	58	800	390	100	87	45
31	35	---	15	23	---	32	---	840	---	111	76	---
TOTAL	1087	928	669	687	615	825	1159	7409	19150	6146	3039	1898
MEAN	35.1	30.9	21.6	22.2	22.0	26.6	38.6	239	638	198	98.0	63.3
MAX	45	39	27	24	24	34	88	840	880	370	110	83
MIN	24	25	14	15	19	24	25	49	390	100	76	36
AC-FT	2160	1840	1330	1360	1220	1640	2300	14700	37980	12190	6030	3760

CAL YR 1982	TOTAL	22851	MEAN	62.6	MAX	358	MIN	10	AC-FT	45320
WTR YR 1983	TOTAL	43612	MEAN	119	MAX	880	MIN	14	AC-FT	86500

10237000 BEAVER RIVER AT ADAMSVILLE, UT

LOCATION.--Lat 38°15'13", long 112°45'56", in NE1/4SW1/4SW1/4 sec.28, T.29 S., R.8 W., Beaver County, Hydrologic Unit 16030007, on right bank 80 ft upstream from bridge on State Highway 21, 1.6 mi upstream from Indian Creek, and 1.6 mi east of Adamsville.

DRAINAGE AREA.--303 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1913 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft from topographic map. Prior to Sept. 15, 1936, water-stage recorder and Sept. 15, 1936, to Oct. 15, 1937, nonrecording gage, at site 1.1 mi downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.2 mi downstream at different datum. May 29, 1946, to Mar. 19, 1970 at site 1.75 mi downstream at different datum. Mar. 20, 1970, to July 25, 1979 at site 450 ft downstream at different datum.

REMARKS.--Records fair. One small diversion between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

AVERAGE DISCHARGE.--69 years (1914-83), 38.0 ft^3/s, 27,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,700 ft^3/s June 19, 20, 1983; no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,700 ft^3/s June 19, 20; minimum daily, 21 ft^3/s July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	82	78	34	58	57	84	104	1600	450	42	38
2	40	70	63	34	56	55	80	104	1500	400	43	43
3	39	62	70	37	58	58	82	98	1300	360	39	45
4	38	62	68	37	62	69	80	98	1000	320	32	45
5	38	64	64	40	62	66	74	122	900	300	29	38
6	37	63	58	45	60	62	71	139	780	280	26	32
7	36	64	53	50	62	70	72	123	850	260	32	31
8	35	69	54	58	62	67	69	136	1010	230	42	42
9	35	76	53	62	62	63	67	215	941	200	30	41
10	35	83	55	62	60	67	65	251	1350	180	63	41
11	36	87	54	62	59	77	65	338	1620	170	63	44
12	34	75	54	62	60	86	74	304	1330	150	44	41
13	33	80	53	62	61	95	76	253	1150	120	38	39
14	34	70	56	60	64	106	71	173	1080	110	35	39
15	39	67	60	60	60	106	69	120	980	90	44	38
16	47	60	62	60	58	94	67	128	980	70	89	41
17	45	67	60	60	54	92	62	109	1100	50	161	45
18	47	69	58	62	56	88	64	82	1400	40	156	49
19	47	67	55	62	57	94	64	68	1700	34	163	41
20	49	64	58	62	54	81	72	58	1700	32	108	39
21	48	68	58	62	56	78	82	84	1500	30	79	43
22	47	71	59	60	54	86	88	232	1300	29	68	46
23	49	75	65	60	55	87	86	414	1200	28	57	46
24	50	74	45	60	52	82	117	485	1000	27	52	58
25	51	69	39	60	58	89	156	580	900	26	42	70
26	54	65	35	60	56	98	159	700	800	40	36	62
27	74	64	36	60	56	95	146	840	700	33	28	94
28	57	64	34	60	57	88	123	990	640	25	26	85
29	55	71	32	60	---	88	125	1100	570	23	30	73
30	63	80	32	58	---	88	118	1300	510	22	36	79
31	107	---	34	60	---	88	---	1450	---	21	36	---
TOTAL	1444	2102	1655	1731	1629	2520	2628	11198	33391	4150	1769	1468
MEAN	46.6	70.1	53.4	55.8	58.2	81.3	87.6	361	1113	134	57.1	48.9
MAX	107	87	78	62	64	106	159	1450	1700	450	163	94
MIN	33	60	32	34	52	55	62	58	510	21	26	31
AC-FT	2860	4170	3280	3430	3230	5000	5210	22210	66230	8230	3510	2910

CAL YR 1982	TOTAL	15971.8	MEAN	43.8	MAX	204	MIN	5.0	AC-FT	31680
WTR YR 1983	TOTAL	65685	MEAN	180	MAX	1700	MIN	21	AC-FT	130300

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.
SEDIMENT DATA: October 1976 to current year, periodically.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1981 (discontinued).
WATER TEMPERATURES: October 1975 to September 1981 (discontinued).

INSTRUMENTATION.--Specific-conductance recorder and temperature recorder since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,130 micromhos Oct. 14, 1976; minimum, 258 micromhos Feb. 4, 1977.
WATER TEMPERATURES: Maximum, 31.5°C June 28, 1977; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
DEC										
14...	1130	59	380	8.2	0.0	0.0	2.5	12.2	615	K9
MAR										
31...	1040	89	305	7.3	4.5	8.5	34	9.0	605	K290
JUN										
21...	1040	1600	154	7.1	24.0	12.0	640	8.6	610	--
AUG										
18...	1020	122	540	8.4	25.0	18.5	3.0	6.9	612	4600

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
DEC									
14...	55	160	3.2	46	11	25	25	0.9	4.4
MAR									
31...	410	130	2.5	36	8.6	17	22	0.7	3.6
JUN									
21...	--	58	1.2	17	3.8	7.8	21	0.5	3.8
AUG									
18...	14000	200	4.0	54	16	35	26	1.1	14

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
DEC									
14...	170	26	17	0.6	36	252	267	0.34	39.8
MAR									
31...	120	25	13	0.5	30	198	207	0.27	47.5
JUN									
21...	63	11	4.4	0.4	21	120	109	0.16	518
AUG									
18...	230	29	29	0.9	39	361	358	0.49	119

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC									
14...	0.39	0.06	0.08	0.7	0.13	0.4	0.07	0.03	0.09
MAR									
31...	0.37	0.23	0.3	1.40	0.26	0.8	0.13	0.07	0.21
JUN									
21...	0.19	0.09	0.12	1.60	0.25	0.77	0.17	0.18	0.55
AUG									
18...	0.41	0.14	0.18	1.30	0.30	0.92	0.15	0.15	0.46

K Results based on colony count outside acceptable range (nonideal colony count).

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC											
14...	1130	<10	2	34.00	<0.50	<1	<1	<3.00	1	<3.00	1
MAR											
31...	1040	10	2	30.00	<0.50	<1	<1	<3.00	1	10	3
JUN											
21...	1040	700	1	24.00	1.10	<1	<1	<3.00	3	200	3
AUG											
18...	1020	10	4	54.00	<0.50	<1	<1	<3.00	3	60	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
DEC										
14...	20	77	<0.1	<10	<1	<1	<1	330	<10	<3.00
MAR										
31...	10	50	<0.1	<10	1	<1	<1	260	<6.0	5.00
JUN										
21...	10	57	<0.1	<10	5	<1	<1	120	<6.0	20
AUG										
18...	20	92	<0.1	<10	2	<1	<1	470	<6.0	9.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
DEC						
14...	1130	59	0.0	80	37	5.8
FEB						
10...	1245	61	6.0	39	82	14
MAR						
31...	1040	89	8.5	60	398	95
JUN						
21...	1040	1600	12.0	82	3940	17000
AUG						
18...	1020	122	18.5	52	102	34

10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'05", in SE1/4NE1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, at right end of Rocky Ford Dam on Beaver River, 5.0 mi east of Minersville.

DRAINAGE AREA.--534 mi^2.

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to October 1, 1967.

REVISED RECORDS.--WDR UT-75-1: Drainage area.

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft NGVD of 1929 (levels by topographic survey).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft between gage height, 8.0 ft (bottom of outlet tunnel) and 51.0 ft (spillway crest). Prior to fall of 1937, the spillway crest was at elevation 52.5 ft; capacity, 24,910 acre-ft. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville and Milford.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 26,330 acre-ft June 24-29, 1969, gage height, 53.8 ft. No contents at times in 1915, 1918-19, 1939, 1956, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 24,730 acre-ft July 12, gage height, 53.8 ft; minimum observed, 12,120 acre-ft, gage height, 40.4 ft Oct. 21.

Capacity table (gage height, in feet, and usable contents, in acre-feet)

40	11,790	50	20,560
41	12,600	53	23,850
45	15,830	54	24,950

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	24070	---	19800	20670
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	17530	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	24180	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	23300	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	24730	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	17910
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	18950	---	---	---	---	---	---	---	---	---
21	12120	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	24510	24510	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	12680	---	---	---	---	24620	23520	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	21330	---
27	---	---	---	---	---	---	---	---	24180	21330	---	---
28	---	---	---	21880	(a)23850	---	---	---	---	20780	---	---
29	---	---	19520	---	---	---	---	---	---	---	---	17910
30	---	(a)17040	---	---	---	---	(a)23590	---	(a)24290	---	---	(a)17990
31	(a)13410	---	(a)19680	(a)22210	---	(a)24620	---	(a)24060	---	(a)20050	(a)20780	---
(*)	+3130	+3630	+2640	+2530	+1640	+770	-1030	+470	+230	-4250	+740	-2790

CAL YR 1982 . . . . . (*) +5360
WTR YR 1983 . . . . . (*) +7710

(*) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in SE1/4NW1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi downstream from Rocky Ford Dam and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi^2.

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

REVISED RECORDS.--WSP 1564: 1920, 1924. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1916. Altitude of gage is 5,400 ft by barometer. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--Records fair. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

AVERAGE DISCHARGE.--68 years (1914-36, 1937-83), 39.2 ft^3/s, 28,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s June 12, 1983, gage height, 4.74 ft, from rating curve extended above 500 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft^3/s Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft^3/s June 12, gage height, 4.74 ft, from rating curve extended above 500 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 5.5 ft^3/s Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.7	8.0	8.0	10	31	95	190	999	387	86	173
2	9.9	7.6	7.6	6.7	10	36	98	226	1150	440	76	178
3	9.9	7.8	8.1	5.5	10	53	90	251	1160	371	60	177
4	9.9	7.7	8.3	7.5	10	58	103	254	1090	328	51	177
5	9.9	7.7	8.3	7.5	10	60	107	255	957	351	47	175
6	9.6	7.7	8.3	7.6	9.7	63	120	255	878	341	66	170
7	9.3	7.8	8.6	7.7	9.8	67	127	254	878	286	75	160
8	9.0	7.5	8.6	8.0	27	66	126	253	870	234	75	150
9	8.8	7.2	8.6	8.0	52	64	123	252	883	227	74	140
10	8.8	7.6	8.6	8.0	66	64	120	246	934	228	80	130
11	8.5	7.6	8.6	8.0	71	63	112	249	971	218	86	120
12	8.1	7.2	9.3	8.1	41	70	104	249	1170	184	86	110
13	7.7	7.3	9.4	8.6	12	75	120	287	1200	177	86	110
14	7.7	7.3	9.4	8.6	12	80	120	365	1030	181	94	109
15	7.7	7.2	9.8	8.6	12	83	120	390	885	181	109	109
16	7.9	7.4	9.5	8.7	12	92	120	386	810	180	117	109
17	8.1	7.4	9.7	9.5	12	100	120	380	828	180	98	109
18	8.0	7.3	9.7	9.2	12	99	120	377	996	179	22	76
19	8.7	7.6	9.4	9.1	12	101	120	276	1160	179	18	54
20	8.6	7.3	9.9	9.1	12	98	120	229	1210	178	26	54
21	8.8	7.1	10	9.1	12	99	120	203	1190	178	27	54
22	9.0	7.5	10	9.1	12	98	120	240	1170	163	74	54
23	8.8	7.6	10	9.4	12	90	122	318	1120	144	74	54
24	9.0	7.6	9.9	9.7	12	83	125	343	949	159	85	54
25	8.4	7.7	9.8	9.8	31	83	126	463	909	166	92	54
26	8.2	7.6	9.1	9.8	31	82	126	567	645	165	112	54
27	7.9	7.7	9.1	10	31	82	126	647	596	165	121	53
28	7.7	7.7	8.6	10	31	84	131	694	578	142	124	53
29	7.5	7.9	8.5	10	---	85	165	752	285	131	134	53
30	7.5	8.2	8.0	10	---	84	186	812	284	117	149	53
31	7.7	---	8.0	10	---	86	---	892	---	99	163	---
TOTAL	266.6	226.5	278.7	268.9	594.5	2379	3632	11555	27785	6659	2587	3126
MEAN	8.60	7.55	8.99	8.67	21.2	76.7	121	373	926	215	83.5	104
MAX	10	8.2	10	10	71	101	186	892	1210	440	163	178
MIN	7.5	7.1	7.6	5.5	9.7	31	90	190	284	99	18	53
AC-FT	529	449	553	533	1180	4720	7200	22920	55110	13210	5130	6200

CAL YR 1982	TOTAL	17570.2	MEAN	48.1	MAX	168	MIN	7.1	AC-FT	34850
WTR YR 1983	TOTAL	59358.2	MEAN	163	MAX	1210	MIN	5.5	AC-FT	117700

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT

LOCATION.--Lat 37°47'35", long 112°48'55", in SW1/4NE1/4NE1/4 sec.1, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft above mouth of Parowan Creek and 3.5 mi south of Parowan.

DRAINAGE AREA.--11.6 mi^2, does not include 2.0 mi^2 that contributes runoff to Yankee Meadows Reservoir, located on Boworg Creek, which is a tributary to Center Creek, 0.5 mi below station.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,900 ft from topographic map.

REMARKS.--Records fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--19 years, 6.43 ft^3/s, 4,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 353 ft^3/s Aug. 10, 1965, gage height, 4.96 ft from floodmarks, from rating curve extended above 18 ft^3/s on basis of slope-area measurements at gage height, 4.96 ft; minimum recorded, 1.4 ft^3/s July 16, 1972 and Jan. 24, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	1300	48	1.48
July 9	0130	*57	1.62

Minimum daily, 2.5 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	4.7	4.7	2.7	4.4	5.3	5.5	7.1	24	32	18	8.9
2	5.4	4.3	4.8	3.0	4.3	5.3	5.6	7.1	26	32	17	8.8
3	5.4	4.7	5.3	3.6	4.6	5.6	5.6	7.1	24	32	16	8.6
4	5.1	4.8	4.7	4.4	4.6	5.7	5.5	7.7	22	32	15	8.5
5	5.1	4.7	4.8	4.8	4.5	5.6	5.8	8.4	22	32	15	8.4
6	5.0	4.7	4.9	4.7	4.4	5.5	5.7	8.4	23	33	14	8.3
7	5.1	4.8	5.2	4.6	4.5	5.5	5.7	8.4	24	33	15	8.6
8	5.1	4.9	5.0	4.6	4.6	5.5	5.6	9.8	25	35	14	8.4
9	5.0	4.8	4.6	4.5	4.4	5.6	5.4	11	24	41	14	8.1
10	4.9	5.0	4.5	4.4	4.5	5.9	5.1	11	24	42	13	8.1
11	4.7	5.6	4.5	4.4	4.5	6.0	5.2	9.8	24	42	12	8.1
12	4.7	5.1	4.9	4.4	4.5	5.8	5.2	9.1	24	35	12	8.0
13	4.7	6.2	4.7	4.3	4.7	5.9	5.2	8.4	23	36	11	7.7
14	4.7	6.5	5.3	4.3	4.7	6.2	5.8	7.7	23	35	11	7.5
15	4.8	4.3	5.7	4.3	4.7	5.9	5.5	7.7	23	25	11	7.4
16	4.7	4.6	4.6	4.3	4.6	5.8	5.8	8.4	23	25	11	7.5
17	4.7	4.7	4.7	4.5	4.6	5.9	6.3	7.7	24	26	11	7.7
18	4.9	4.7	4.9	4.4	5.1	5.8	6.5	7.7	25	24	11	7.6
19	4.9	4.7	5.2	4.4	5.3	5.8	6.5	8.4	25	23	11	7.5
20	4.8	4.8	4.6	4.4	5.0	5.3	6.7	8.4	26	22	10	7.5
21	4.7	4.8	4.5	4.3	5.3	5.4	6.5	14	26	23	10	7.6
22	4.6	4.8	4.6	4.4	5.3	5.2	6.1	18	25	22	9.9	7.5
23	4.6	4.7	4.6	4.6	5.3	5.0	7.3	19	26	21	9.7	7.5
24	4.8	4.6	3.6	4.6	5.4	5.1	9.0	19	27	21	9.8	7.5
25	4.9	4.5	2.6	4.5	5.5	5.1	8.8	19	29	20	9.5	7.4
26	4.8	4.8	2.7	4.4	5.5	5.0	7.9	20	29	20	9.4	7.7
27	4.7	4.5	2.8	4.4	5.3	5.0	7.8	21	30	19	9.2	7.5
28	4.9	4.4	2.8	4.5	5.2	5.1	8.5	22	31	18	9.1	7.4
29	5.2	4.3	2.7	4.4	---	5.2	9.0	22	32	18	9.0	7.7
30	4.9	4.5	2.5	4.4	---	6.1	8.1	23	32	20	8.9	7.9
31	4.9	---	2.6	4.4	---	5.8	---	37	---	19	8.8	---
TOTAL	152.0	144.5	133.6	133.9	135.3	171.9	193.2	403.3	765	858	365.3	236.9
MEAN	4.90	4.82	4.31	4.32	4.83	5.55	6.44	13.0	25.5	27.7	11.8	7.90
MAX	5.4	6.5	5.7	4.8	5.5	6.2	9.0	37	32	42	18	8.9
MIN	4.6	4.3	2.5	2.7	4.3	5.0	5.1	7.1	22	18	8.8	7.4
AC-FT	301	287	265	266	268	341	383	800	1520	1700	725	470

CAL YR 1982	TOTAL	2136.4	MEAN	5.85	MAX	11	MIN	1.5	AC-FT	4240
WTR YR 1983	TOTAL	3692.9	MEAN	10.1	MAX	42	MIN	2.5	AC-FT	7320

10241600 SUMMIT CREEK NEAR SUMMIT, UT

LOCATION.--Lat 37°47'13", long 112°54'56", in NW1/4NE1/4SW1/4 sec.6, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft upstream from concrete diversion dam, 1.2 mi south of U.S. Highway 91, and 1.3 mi southeast of Summit.

DRAINAGE AREA.--24.0 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,313 ft (levels by U.S. Geological Survey). Prior to July 15, 1971, at site 600 ft downstream at different datum.

REMARKS.--Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--19 years, 4.58 ft^3/s, 3,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 858 ft^3/s Aug. 6, 1971, gage height, 4.25 ft from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 ft^3/s Feb. 5-7, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 10	2000	58	2.60
May 31	1700	*515	3.78
Aug. 6	1900	21	2.59

Minimum, 0.50 ft^3/s Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.5	1.5	1.3	2.2	2.8	4.0	7.1	74	17	6.9	4.2
2	2.6	2.2	1.9	1.6	2.2	2.8	4.0	5.4	39	15	7.2	4.2
3	2.8	1.3	1.9	2.0	2.4	2.9	4.3	6.2	38	15	6.9	4.0
4	2.6	2.1	2.1	2.1	2.3	2.9	3.2	7.1	31	14	6.0	4.0
5	2.6	2.2	2.0	2.2	2.3	2.7	3.4	11	35	13	5.8	4.0
6	2.3	2.1	2.1	2.3	2.3	2.6	4.8	11	57	13	6.6	3.8
7	2.1	2.1	2.0	2.4	2.3	2.8	3.9	16	41	13	6.9	4.0
8	2.2	2.1	1.9	2.4	2.4	2.7	3.5	25	54	12	6.0	4.2
9	2.1	2.2	1.9	2.2	2.4	2.9	3.5	34	65	11	6.0	4.0
10	2.1	1.9	2.0	2.2	2.3	3.3	3.9	46	57	10	5.5	3.8
11	2.2	2.2	2.0	2.1	2.5	3.7	3.5	44	50	9.8	5.3	3.8
12	2.2	1.5	2.0	2.2	2.6	3.3	2.8	28	63	9.4	5.3	3.6
13	2.1	1.4	2.1	2.3	2.6	3.5	3.2	28	39	9.1	5.3	3.6
14	2.1	1.2	1.9	2.4	2.5	4.1	3.5	27	41	8.7	6.0	3.4
15	2.1	1.3	2.0	2.3	2.7	3.1	3.5	30	41	8.4	5.8	3.4
16	2.1	1.3	2.1	2.4	2.7	3.0	3.2	34	39	8.1	5.8	3.4
17	2.1	1.6	2.2	2.2	2.6	3.4	3.9	26	39	7.8	6.3	3.8
18	2.1	1.8	2.1	2.1	3.0	3.3	4.8	28	39	7.2	6.0	3.6
19	2.1	2.1	2.1	2.1	2.7	3.3	4.4	30	38	7.2	5.5	3.4
20	2.1	2.1	2.2	2.1	2.5	3.3	4.8	39	33	6.9	5.5	3.4
21	2.1	1.9	2.1	2.1	2.8	3.2	4.4	60	29	6.9	5.3	3.4
22	2.1	2.1	2.1	2.2	2.8	3.1	4.4	77	26	7.2	5.1	3.4
23	2.1	2.1	2.1	2.3	2.9	3.3	6.2	93	25	6.6	4.8	3.4
24	2.1	2.1	1.5	2.2	3.0	2.8	9.6	90	24	6.3	4.8	3.4
25	2.1	2.0	1.2	2.2	2.9	2.8	11	107	23	6.3	4.8	3.4
26	2.4	1.8	1.3	2.2	2.6	2.7	9.6	132	22	6.0	4.6	3.6
27	2.8	1.9	1.3	2.2	2.5	2.7	9.6	187	21	5.5	4.6	3.8
28	1.7	2.0	1.3	2.3	2.7	2.8	8.3	221	19	5.5	4.4	3.6
29	2.5	2.0	1.3	2.2	---	2.8	9.6	271	18	5.3	4.4	3.6
30	2.8	2.0	1.4	2.2	---	3.4	8.3	176	18	5.8	4.4	4.2
31	2.8	---	1.1	2.2	---	4.0	---	258	---	6.9	4.4	---
TOTAL	70.7	57.1	56.7	67.2	71.7	96.0	157.1	2154.8	1138	283.9	172.2	111.4
MEAN	2.28	1.90	1.83	2.17	2.56	3.10	5.24	69.5	37.9	9.16	5.55	3.71
MAX	2.8	2.5	2.2	2.4	3.0	4.1	11	271	74	17	7.2	4.2
MIN	1.7	1.2	1.1	1.3	2.2	2.6	2.8	5.4	18	5.3	4.4	3.4
AC-FT	140	113	112	133	142	190	312	4270	2260	563	342	221

CAL YR 1982	TOTAL	1433.60	MEAN	3.93	MAX	49	MIN	.40	AC-FT	2840
WTR YR 1983	TOTAL	4436.8	MEAN	12.2	MAX	271	MIN	1.1	AC-FT	8800

10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°40'20", long 113°02'02", in SE1/4SE1/4NE1/4 sec.13, T.36 S., R.11 W., Iron County, Hydrologic Unit 16030006, on right bank 600 ft downstream from powerplant, 1.2 mi east of Cedar City, and 3.0 mi from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi^2.

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,000 ft from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good. No diversion above station for irrigation. Diversion above station for municipal supply at Cedar City. Slight regulation at low flow by steam powerplant above station.

AVERAGE DISCHARGE.--47 years (1935-37, 1938-83), 33.5 ft^3/s, 24,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s July 23, 1969, gage height, 11.67 ft from floodmark, based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft^3/s Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	2100	*1,480	6.60
June 12	0700	908	6.12
Aug. 1	1600	1,000	6.12

Minimum, 7.0 ft^3/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	10	10	12	19	30	68	923	136	100	28
2	21	13	13	11	13	21	33	64	658	131	51	40
3	19	13	14	12	16	24	39	71	538	122	40	32
4	16	13	16	14	14	21	27	95	565	116	37	27
5	15	13	16	15	13	19	24	106	588	106	35	25
6	14	12	16	17	13	19	22	100	622	102	82	24
7	14	12	16	18	13	19	23	104	593	96	55	23
8	14	14	15	18	14	19	22	160	640	100	55	26
9	14	14	15	15	14	23	23	216	548	110	61	25
10	14	12	16	15	13	37	26	225	543	102	38	23
11	14	14	16	14	14	40	24	184	560	74	35	22
12	14	13	16	16	14	36	23	138	767	66	35	21
13	14	14	18	18	14	42	23	131	496	72	31	20
14	13	12	13	19	13	46	23	129	423	68	30	19
15	13	14	15	17	16	30	23	145	391	58	30	19
16	13	15	16	18	16	25	25	158	391	57	33	18
17	13	15	17	16	14	25	37	122	395	61	70	27
18	12	15	15	15	19	23	51	127	409	57	100	22
19	12	16	15	14	18	23	42	145	382	50	82	18
20	12	14	16	12	16	20	58	155	340	48	65	18
21	12	13	15	12	21	22	51	258	301	45	50	18
22	11	14	14	16	25	20	48	374	268	46	42	18
23	11	14	16	14	24	20	66	446	241	43	37	19
24	11	13	10	13	27	20	106	565	225	40	33	22
25	12	13	9.9	13	22	20	100	576	204	40	32	20
26	16	12	11	13	19	20	87	658	187	38	30	19
27	20	14	12	13	16	20	82	721	173	36	29	22
28	15	14	11	14	17	20	86	794	170	34	28	20
29	16	14	11	12	---	20	93	822	158	32	26	20
30	17	14	13	14	---	31	79	916	148	35	26	65
31	18	---	9.4	13	---	45	---	1080	---	46	26	---
TOTAL	453	409	436.3	451	460	789	1396	9853	12847	2167	1424	720
MEAN	14.6	13.6	14.1	14.5	16.4	25.5	46.5	318	428	69.9	45.9	24.0
MAX	23	16	18	19	27	46	106	1080	923	136	100	65
MIN	11	12	9.4	10	12	19	22	64	148	32	26	18
AC-FT	899	811	865	895	912	1560	2770	19540	25480	4300	2820	1430

CAL YR 1982	TOTAL	14821.0	MEAN	40.6	MAX	398	MIN	6.0	AC-FT	29400
WTR YR 1983	TOTAL	31405.3	MEAN	86.0	MAX	1080	MIN	9.4	AC-FT	62290

13077700 GEORGE CREEK NEAR YOST, UT

LOCATION.--Lat 41°55'07", long 113°28'51", in SE1/4SW1/4SW1/4 sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi southeast of Yost, 5 mi south of Utah-Idaho State line, and 16 mi southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 mi^2.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--24 years, 8.07 ft^3/s, 5,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft^3/s May 30, 1983, gage height, 1.78 ft; minimum, 1.0 ft^3/s July 14-19, 1976, Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 295 ft^3/s May 30, gage height, 1.78 ft; minimum daily, 2.2 ft^3/s Feb. 18-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.8	3.1	2.6	2.4	3.1	2.7	7.8	162	39	9.9	5.3
2	4.8	3.6	3.1	2.6	2.4	3.4	2.7	7.7	148	39	9.2	5.7
3	5.2	3.6	2.9	2.6	2.4	3.2	2.6	8.0	143	34	8.3	6.2
4	5.2	3.9	2.9	2.6	2.4	2.9	2.7	8.5	115	30	8.5	5.9
5	4.8	3.8	2.9	2.6	2.4	2.9	2.6	11	108	30	8.3	5.5
6	4.6	3.7	2.9	2.6	2.4	2.6	2.6	11	101	31	7.9	5.3
7	4.6	3.7	2.9	2.6	2.4	2.6	2.6	12	108	31	8.0	5.1
8	4.4	3.7	2.9	2.6	2.4	2.6	2.6	13	131	31	9.2	5.4
9	4.2	3.7	2.9	2.6	2.4	2.8	2.7	15	138	33	8.1	5.5
10	4.0	3.7	2.9	2.6	2.4	3.7	2.8	14	132	34	7.5	5.3
11	4.0	3.6	2.9	2.4	2.4	4.9	2.7	12	134	26	8.0	5.5
12	4.1	3.4	2.9	2.4	2.4	4.8	2.7	10	113	22	7.3	5.3
13	4.1	3.5	2.9	2.4	2.4	5.1	2.6	9.1	78	20	6.6	5.1
14	3.8	3.1	2.6	2.4	2.4	4.8	2.6	8.3	69	19	7.0	5.0
15	4.0	3.2	2.6	2.4	2.4	4.4	2.6	7.9	72	19	7.5	4.6
16	4.0	3.0	2.8	2.4	2.4	3.8	2.7	7.5	73	18	11	4.5
17	4.0	3.1	2.7	2.4	2.3	3.7	3.2	7.7	81	17	9.7	4.2
18	3.9	3.1	2.6	2.4	2.2	3.4	4.2	7.8	94	17	7.9	4.2
19	3.6	3.2	2.6	2.4	2.2	3.3	4.7	8.0	87	16	9.7	4.2
20	3.8	3.1	2.6	2.4	2.2	3.1	5.6	8.9	75	16	7.9	4.2
21	3.7	3.1	2.6	2.4	2.2	3.1	6.4	12	64	16	9.7	4.2
22	3.9	3.1	2.6	2.4	2.2	2.9	6.7	21	50	15	7.8	4.0
23	3.9	3.1	2.6	2.4	2.3	2.9	8.4	37	71	15	7.3	3.8
24	3.7	3.1	2.9	2.4	2.4	2.9	12	64	80	15	6.9	4.1
25	3.9	3.1	2.9	2.4	2.4	2.9	12	82	74	14	6.4	3.8
26	4.8	3.1	2.7	2.4	2.5	2.6	10	101	70	14	6.1	3.8
27	4.4	3.0	2.4	2.4	2.5	2.7	8.9	140	67	13	6.0	5.3
28	3.7	2.9	2.5	2.4	2.5	2.6	8.1	240	52	13	6.3	5.4
29	4.0	3.0	2.6	2.4	---	2.6	7.9	216	40	12	6.0	4.7
30	4.6	3.1	2.6	2.4	---	2.9	7.9	190	40	11	5.8	11
31	4.3	---	2.6	2.4	---	2.9	---	187	---	10	5.5	---
TOTAL	130.5	100.1	85.6	76.4	66.3	102.1	148.5	1485.2	2770	670	241.3	152.1
MEAN	4.21	3.34	2.76	2.46	2.37	3.29	4.95	47.9	92.3	21.6	7.78	5.07
MAX	5.2	3.9	3.1	2.6	2.5	5.1	12	240	162	39	11	11
MIN	3.6	2.9	2.4	2.4	2.2	2.6	2.6	7.5	40	10	5.5	3.8
AC-FT	259	199	170	152	132	203	295	2950	5490	1330	479	302

CAL YR 1982	TOTAL	3638.2	MEAN	9.97	MAX	79	MIN	1.0	AC-FT	7220
WTR YR 1983	TOTAL	6028.1	MEAN	16.5	MAX	240	MIN	2.2	AC-FT	11960

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		DIRTY DEVIL RIVER BASIN				
East Spring Canyon	Quitchupah Creek	Lat 38°56'18", long 111°24'16", Emery County, at road crossing.		1980-81	10-19-82	0
Duncan Draw	East Spring Canyon	Lat 38°56'12", long 111°24'54", Emery County, at road crossing 0.5 mi upstream from mouth.		1980-81	10-19-82	0
Mud Spring Hollow	East Spring Canyon	Lat 38°55'48", long 111°25'53", Emery County, at road crossing.		1980-81	10-19-82	0
Mud Spring Hollow	East Spring Canyon	Lat 38°54'56", long 111°25'01", Emery County, at mouth above SUFCo Mine.		1980-81	10-19-82	0
East Spring Canyon	Quitchupah Creek	Lat 38°54'57", long 111°24'57", Emery County, above SUFCo Mine.		1980-81	10-19-82	0
Convulsion Canyon	Quitchupah Creek	Lat 38°54'22", long 111°26'05", Emery County, above Broad Hollow Creek.		1980-81	10-19-82	0
Broad Hollow	Quitchupah Creek	Lat 38°54'22", long 111°25'56", Emery County, at mouth.		1980-81	10-19-82	0
Convulsion Canyon	Quitchupah Creek	Lat 38°54'24", long 111°25'40", Emery County, below Broad Hollow.		1980-81	10-19-82	0
		GREEN RIVER BASIN				
Pole Creek Canal	Uinta River	Lat 40°33'08", long 110°03'09", Duchesne County, above diversion.			1-16-83 1-18-83 3- 8-83 5-20-83 6-17-83	1.52 2.71 2.94 1.41 2.61
Whitmore Canyon	Grassy Trail Creek	Lat 34°37'09", long 110°23'35", Carbon County, below Grassy Trail Reservoir.		1981-82	8-30-83	5.73
Whitmore Canyon	Grassy Trail Creek	Lat 39°45'46", long 110°22'36", Carbon County, below Water Canyon.		1981-82	8-30-83	6.48
Whitmore Canyon	Grassy Trail Creek	Lat 39°35'02", long 110°22'10", Carbon County, above Pole Canyon.		1981-82	8-30-83	7.28
Soldier Creek	Price River	Lat 39°43'13", long 110°36'18", Carbon County, above Pine Canyon east of Wellington.		1981-82	8-29-83	2.14
Soldier Creek	Price River	Lat 39°42'31", long 100°36'25", Carbon County, on Utah Highway 53 east of Wellington.		1981-82	8-29-83	2.69
Pine Canyon	Soldier Creek	Lat 39°43'13", long 110°36'18", Carbon County, at mouth on Utah Highway 53.		1981-82	8-29-83	.53
		JORDAN RIVER BASIN				
Thistle Creek	Soldier Creek	Lat 39°57'53", long 111°31'10", Utah County, 2 mi above mouth.			4-17-83 5-11-83	162 406
Soldier Creek	Spanish Fork	Lat 39°59'44", long 111°26'26", Utah County, above reservoir near Thistle.			5-10-83 5-18-83	349 321
Soldier Creek	Spanish Fork	Lat 39°59'39", long 111°28'36", Utah County, below Lake Fork near Pace Ranch.			4-17-83 4-19-83	122 149
Lake Fork	Soldier Creek	Lat 39°58'56", long 111°28'20", Utah County, above Thistle Lake.			5-10-83	172
10172500 City Creek	Jordan River	Lat 40°47'05", long 111°52'57", Salt Lake County, 0.6 mi northeast of Utah State Capitol Building.	17.7	1899-1908, 1911-68, 1975, 1980-81	5-31-83	268

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		TRIBUTARIES BETWEEN WEBER AND JORDAN RIVER BASINS				
10141500 Holmes Creek	Great Salt Lake	Lat 41°03'13", long 111°54'35", Davis County, 1 mi northeast of Kaysville.	2.49	1950-66	6- 1-83	a100
10142000 Farmington Creek	Great Salt Lake	Lat 41°00'05", long 111°52'21", Davis County, 1 mi northeast of Farmington.	10.0	1949-82	6- 1-83	a590
10142500 Ricks Creek	Great Salt Lake	Lat 40°56'24", long 111°52'44", Davis County, 1.6 mi north of Centerville.	2.35	1950-66	6- 1-83	a270
10143000 Parish Creek	Great Salt Lake	Lat 40°55'25", long 111°51'50", Davis County, 1 mi northeast of Centerville.	2.08	1949-68	6- 1-83	a40
10143500 Centerville Creek	Great Salt Lake	Lat 40°54'59", long 111°51'44", Davis County, 0.5 mi east of of 600 East Street in Centerville.	3.15	1949-80	6- 1-83	a170
10144000 Stone Creek	Great Salt Lake	Lat 40°53'49", long 111°50'10", Davis County, 0.9 mi east of Bountiful.	4.48	1950-66	6- 1-83	a3,300
10145000 Mill Creek	Great Salt Lake	Lat 40°52'50", long 111°52'19", Davis County, 100 ft southeast of intersection of Orchard Dr. and Mill St. in Bountiful.	10.4	1950-68	6- 1-83	a190
		WEBER RIVER BASIN				
10140480 Cold Water Canyon	Weber River	Lat 41°14'21", long 111°53'53", Weber County, 0.25 mi upstream from Highway 39.	1.84		6- 1-83	a70

a Indirect measurement of peak flow.

Compilation of data for flow through the two 15-ft culverts

GREAT SALT LAKE BASIN

Date of observation	EAST CULVERT Lat 41°13'17", Long 112° 33'36" 3.2 mi west along the railroad causeway from the east end of the causeway			WEST CULVERT Lat 41°13'24", Long 112°40'00" 8.2 mi west along the railroad causeway from the east end of the causeway		
	Discharge (ft^3/s)	Specific gravity	Temperature (°C)	Discharge (ft^3/s)	Specific gravity	Temperature (°C)
Oct. 14, 1982	(a) 853	1.082	12.0	(a) 819	1.085	12.5
	(b) 63.3	1.145	12.5	(b) 116	1.154	12.5
Nov. 15	(a) 966	1.076	5.5	(a) 955	1.088	6.5
	(b) 71.0	1.148	6.5	(b) 101	1.126	6.5
Dec. 15	(a) 1,020	1.072	.5	(a) 1,150	1.082	2.0
	(b) 79.7	1.148	3.0	(b) 109	1.097	2.0
Jan. 14, 1983	(a) 1,270	1.076	1.0	(a) 1,100	1.080	.0
	(b) 83.7	1.128	.0	(b) 112	1.086	.5
Feb. 15	(a) 1,240	1.068	2.5	(a) 1,120	1.074	3.0
	(b) 84.5	1.078	2.5	(b) 105	1.118	2.5
Mar. 14	(a) 1,260	1.080	5.0	(a) 1,080	1.078	6.0
	(b) 85.4	1.120	5.0	(b) 132	1.084	5.0
Apr. 14	(a) 1,400	1.071	9.0	(a) 1,400	1.071	9.5
	(b) 0	--	--	(b) 0	--	--
May 16	(a) 1,190	1.071	12.0	(a) 1,020	1.071	12.0
	(b) 0	--	--	(b) 0	--	--
June 15	(a) 1,660	1.052	20.0	(a) 1,930	1.054	20.5
	(b) 0	--	--	(b) 0	--	--
Aug. 15	(a) 1,450	1.060	26.0	(a) 2,070	1.061	26.0
	(b) 0	--	--	(b) 0	--	--
Sept. 16	(a) 1,430	1.061	20.5	(a) 1,910	1.060	22.5
	(b) 0	--	--	(b) 0	--	--

(a) Indicates flow from south to north
(b) Indicates flow from north to south

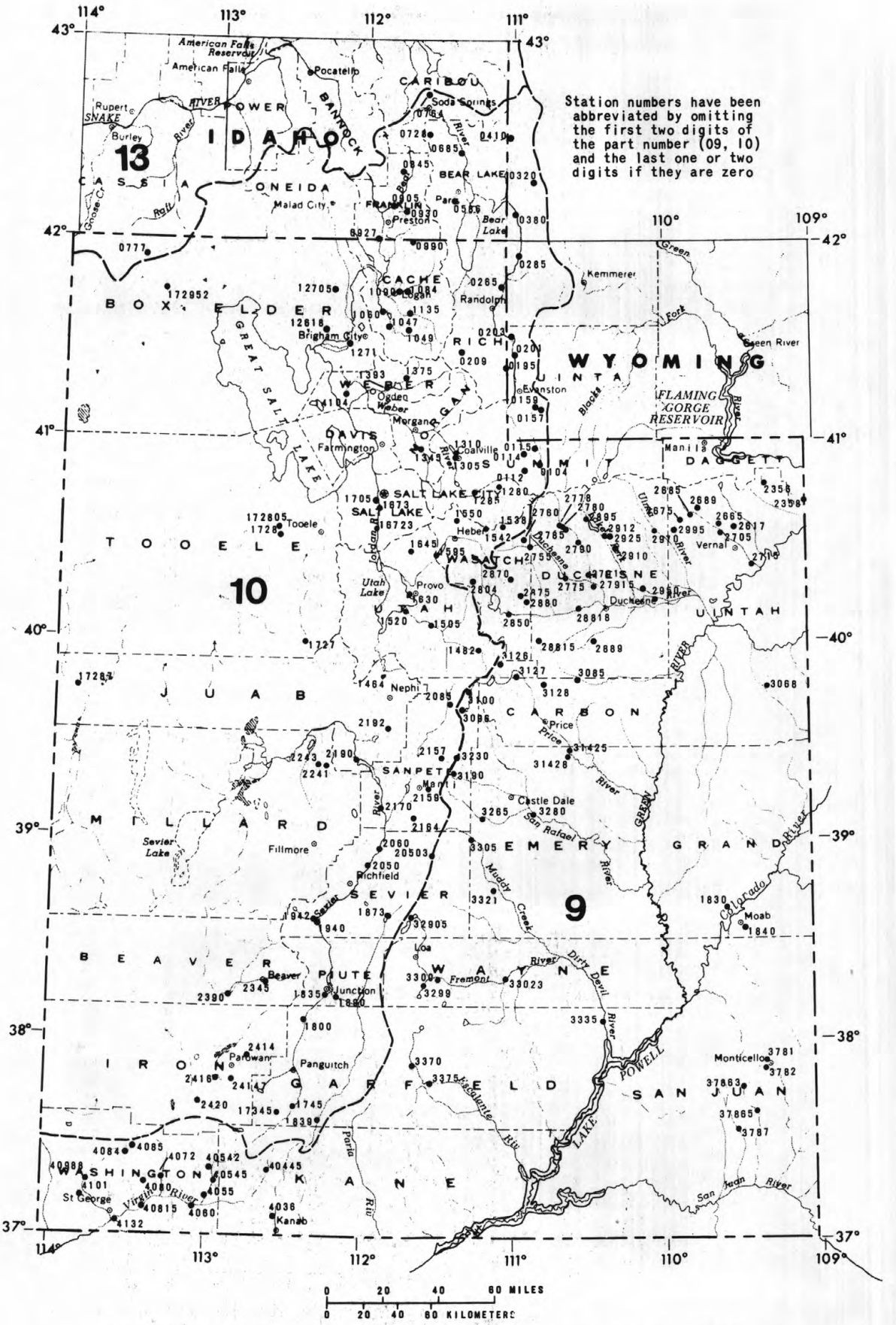

Figure 12.—Location of sites in Utah where data were obtained on the specific conductance of surface water.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
COLORADO RIVER BASIN									
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER									
09183000 COURTHOUSE WASH NEAR MOAB, UT (LAT 38°36'46", LONG 109°34'45")									
OCT , 1982					APR , 1983				
01...	0920	.15	9.0	820	19...	0940	.61	11.5	1000
21...	0835	.18	4.0	890	MAY				
NOV					12...	0935	.18	6.5	830
18...	0950	.56	7.0	860	JUN				
DEC					08...	1240	.10	31.5	830
17...	1435	.72	1.0	800	22...	1000	.13	20.0	--
JAN , 1983					AUG				
13...	1200	.56	.0	1040	11...	1030	1.9	23.0	720
FEB					SEP				
09...	0955	.94	5.5	880	13...	1110	.12	19.0	820
MAR									
21...	1005	1.0	6.0	880					
09184000 MILL CREEK NEAR MOAB, UT (LAT 38°33'44", LONG 109°30'48")									
OCT , 1982					APR , 1983				
01...	1115	10	11.0	210	19...	1215	6.8	15.0	290
NOV					MAY				
18...	1215	14	6.5	205	12...	1110	11	8.0	260
DEC					JUN				
17...	1220	12	1.0	200	08...	1005	95	11.0	140
JAN , 1983					JUL				
13...	0940	5.0	.0	275	07...	1030	60	15.5	135
FEB					AUG				
09...	1210	3.5	6.5	295	11...	1440	20	26.5	160
MAR					SEP				
21...	1230	6.7	6.5	280	13...	1325	12	22.0	200
GREEN RIVER BASIN									
09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT (LAT 40°46'05", LONG 109°19'06")									
JAN , 1983					JUN , 1983				
12...	1250	.58	.0	400	10...	1515	64	16.0	145
21...	1300	.36	.0	--	JUL				
MAR					11...	1515	38	20.0	230
11...	1355	.88	1.0	--	AUG				
APR					17...	0740	.97	16.0	265
27...	1255	67	1.0	180	SEP				
MAY					22...	1620	.38	12.0	310
09...	1405	126	7.0	140	29...	1620	.78	13.0	--
23...	1220	58	12.0	160					
31...	2025	91	9.0	120					
09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT (LAT 40°35'20", LONG 109°27'53")									
OCT , 1982					MAY , 1983				
14...	--	29	--	--	03...	1205	32	9.0	380
NOV					27...	1310	247	7.5	190
16...	1150	21	5.0	410	JUN				
DEC					06...	1555	301	5.5	130
10...	1545	20	6.0	510	15...	1450	312	7.5	110
FEB , 1983					19...	0925	327	8.0	94
03...	1050	16	3.5	470	JUL				
MAR					06...	1205	224	10.5	205
02...	1115	18	8.0	560	20...	1515	60	12.5	280
APR					AUG				
05...	1500	17	9.0	450	24...	1645	41	16.5	280

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
GREEN RIVER BASIN									
09266500 ASHLEY CREEK NEAR VERNAL, UT (LAT 40°34'39", LONG 109°37'17")									
OCT , 1982					JUN , 1983				
29...	1245	87	6.0	100	13...	1220	845	4.0	<50
DEC					19...	1005	1290	5.0	<50
21...	1005	45	5.5	155	27...	1550	643	9.5	55
FEB , 1983					JUL				
16...	1310	30	6.0	150	06...	1640	333	12.0	63
MAR					19...	1400	153	12.0	90
21...	1130	31	6.5	160	AUG				
APR					29...	1335	89	12.0	140
25...	1210	37	5.0	180					
MAY									
31...	1700	946	4.5	60					
09267500 MOSBY CANAL NEAR LAPOINT, UT (LAT 40°36'30", LONG 109°53'00")									
DEC , 1982					JUL , 1983				
04...	--	.00	--	--	20...	1120	20	14.0	<50
JUN , 1983					SEP				
09...	1315	6.2	3.0	<50	06...	1720	14	9.5	<50
30...	1530	4.5	18.0	<50					
09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (LAT 40°38'34", LONG 109°48'37")									
DEC , 1982					JUN , 1983				
28...	1230	2.8	.0	50	08...	1230	64	4.5	<50
MAR , 1983					29...	1355	64	8.0	<50
16...	1330	1.6	1.5	<50	JUL				
APR					07...	1205	44	8.0	<50
14...	1230	1.3	2.0	<50	25...	1015	22	7.0	<50
MAY					SEP				
18...	1105	2.7	2.0	<50	07...	1405	4.4	7.0	<50
09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT (LAT 40°39'34", LONG 109°45'01")									
JAN , 1983					JUN , 1983				
11...	1310	3.0	.0	<50	29...	1735	126	8.5	<50
MAR					JUL				
10...	1250	2.8	.5	--	07...	1440	74	9.5	<50
APR					25...	1300	22	8.0	<50
14...	1500	2.3	1.5	<50	SEP				
MAY					07...	1125	6.4	5.0	<50
18...	1355	3.4	1.0	<50					
JUN									
09...	1210	96	3.0	<50					
20...	1350	187	6.0	<50					
09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (LAT 40°31'35", LONG 109°36'18")									
NOV , 1982					JUN , 1983				
10...	1005	10	3.0	670	09...	1540	434	8.5	100
DEC					15...	1140	444	7.5	95
17...	1405	6.1	.0	930	19...	1715	1150	6.5	95
FEB , 1983					21...	--	112	--	--
10...	1110	2.3	.5	900	27...	1235	770	9.5	90
MAR					JUL				
09...	1120	6.9	5.0	860	06...	1335	396	14.0	110
APR					19...	1600	113	15.0	180
06...	1225	6.0	5.5	860	AUG				
MAY					24...	1430	30	17.0	330
03...	1550	5.0	10.5	920	SEP				
JUN					21...	1430	3.2	12.5	670
02...	1310	447	6.0	130					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GREEN RIVER BASIN

09271500 ASHLEY CREEK NEAR JENSEN, UT
(LAT 40°22'29", LONG 109°24'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
06...	1550	242	9.0	820
DEC				
13...	1250	33	3.0	2090
FEB , 1983				
16...	1020	64	2.5	1410
MAR				
02...	1450	153	5.0	1410
APR				
05...	1240	155	4.0	700
MAY				
19...	1015	43	9.0	1500
27...	1010	230	9.0	400
JUN , 1983				
03...	1040	966	7.0	300
13...	1605	1290	9.0	340
19...	1315	2750	12.0	410
21...	1250	3010	11.5	1250
JUL				
01...	1145	1130	28.5	305
15...	1200	56	19.0	1900
AUG				
29...	1130	36	20.0	2400

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT
(LAT 40°27'01", LONG 110°53'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
19...	1520	24	6.0	480
NOV				
30...	1350	22	.0	500
JAN , 1983				
26...	1305	17	.0	510
MAR				
09...	1410	19	5.0	480
APR				
19...	1230	24	10.0	470
MAY				
11...	1625	86	5.5	430
27...	1310	301	9.0	330
JUN , 1983				
02...	1515	448	7.0	330
08...	1420	502	8.5	315
21...	1655	450	12.0	285
JUL				
12...	1715	112	16.5	375
AUG				
10...	1415	46	18.5	460
SEP				
15...	1325	28	13.0	495

09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UT
(LAT 40°28'16", LONG 110°55'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
19...	1155	7.4	4.5	305
NOV				
30...	1035	7.5	3.0	310
JAN , 1983				
26...	1030	5.9	4.0	310
MAR				
09...	1140	3.0	5.0	315
APR				
19...	1025	4.7	7.5	295
MAY				
27...	1155	32	6.5	280
JUN , 1983				
02...	1155	54	4.0	220
08...	1130	64	5.0	240
21...	1350	71	8.0	220
JUL				
12...	1420	36	9.5	285
AUG				
10...	1155	16	10.0	305
SEP				
15...	1150	9.8	7.5	310

09277500 DUCHESNE RIVER NEAR TABIONA, UT
(LAT 40°18'01", LONG 110°36'06")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
20...	1800	213	7.0	415
DEC				
02...	1650	158	2.5	420
JAN , 1983				
25...	1445	114	4.0	460
MAR				
08...	1735	110	7.5	480
APR				
19...	1655	123	12.0	450
MAY				
25...	1845	533	13.0	285
JUN , 1983				
01...	1400	1440	7.5	205
09...	1800	1450	10.5	230
23...	1400	1880	9.0	195
JUL				
12...	2020	604	15.0	305
AUG				
11...	1510	195	17.0	470
SEP				
14...	1410	204	15.0	460

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT
(LAT 40°33'27", LONG 110°41'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
01...	0755	253	7.0	<50
NOV				
17...	1510	102	.0	<50
JAN , 1983				
06...	1450	44	.5	52
FEB				
23...	1215	38	.5	50
MAR				
29...	1125	36	1.0	50
MAY				
05...	1215	52	5.0	58
JUN , 1983				
03...	1150	667	4.5	<50
17...	1230	1180	5.5	<50
29...	2055	1140	8.0	--
JUL				
12...	1255	477	10.0	<50
26...	1345	262	13.0	<50
AUG				
30...	1515	109	14.0	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GREEN RIVER BASIN

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT
(LAT 40°32'54", LONG 110°41'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
01...	1110	15	2.0	155
NOV				
17...	1650	8.0	.0	170
JAN , 1983				
06...	1500	4.4	.5	215
FEB				
23...	1425	3.3	.5	235
MAR				
29...	1310	3.0	1.0	240
MAY				
05...	1400	4.3	3.0	220
JUN , 1983				
03...	1345	75	5.5	150
17...	1435	112	8.0	150
29...	1840	115	8.0	--
JUL				
12...	1500	62	10.0	150
26...	1500	31	10.0	160
AUG				
30...	1755	17	10.0	180

09278500 ROCK CREEK NEAR HANNA, UT
(LAT 40°32'44", LONG 110°39'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
01...	1415	274	4.0	<50
NOV				
17...	1320	105	.0	58
JAN , 1983				
07...	1000	53	.5	64
FEB				
23...	1645	38	1.0	70
APR				
08...	1010	42	2.0	70
MAY , 1983				
16...	1155	65	3.0	70
JUN				
07...	1240	916	6.0	<50
20...	1705	1750	8.0	<50
30...	1550	1020	9.5	<50
JUL				
15...	1745	555	11.5	<50
SEP				
01...	1210	178	10.0	60

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT
(LAT 40°29'36", LONG 110°34'39")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
01...	1700	298	4.5	60
NOV				
18...	1010	98	1.0	105
JAN , 1983				
07...	1230	69	.0	125
FEB				
23...	1150	63	1.0	145
APR				
08...	1250	54	3.5	160
MAY , 1983				
16...	1350	90	4.5	150
JUN				
07...	1540	911	8.5	70
20...	2050	1710	11.0	<50
JUL				
13...	1120	601	10.0	140
26...	1815	341	16.0	60
SEP				
01...	1030	151	10.0	100

09279100 ROCK CREEK NEAR TALMAGE, UT
(LAT 40°18'40", LONG 110°29'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
JAN , 1983				
25...	1240	48	.0	240
APR				
21...	1350	80	8.5	305
MAY				
25...	1430	331	13.0	145
JUN				
09...	1340	1050	7.0	70
23...	1835	1400	10.5	60
JUL , 1983				
13...	1425	546	16.0	83
AUG				
11...	1645	214	19.0	140
SEP				
14...	1535	138	17.0	180

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT
(LAT 40°16'14", LONG 110°26'31")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
20...	1100	413	3.0	305
DEC				
02...	1030	278	.5	345
JAN , 1983				
25...	0900	186	.0	395
MAR				
08...	1030	184	4.0	420
APR				
21...	1710	233	10.0	400
MAY				
25...	1020	882	10.0	235
JUN , 1983				
01...	1540	2190	8.0	170
09...	1045	2590	7.5	165
23...	1515	3420	11.0	145
JUL				
13...	1730	1090	17.5	205
AUG				
11...	1110	430	17.5	410
SEP				
14...	1110	326	13.5	360

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GREEN RIVER BASIN

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UT
(LAT 40°17'54", LONG 111°15'52")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
18...	1620	.83	4.0	165
NOV				
29...	1315	.38	.0	180
JAN , 1983				
24...	1425	.33	.0	195
MAR				
07...	1415	.41	.0	205
APR				
18...	1335	.97	.5	175
MAY				
30...	1505	77	1.5	65
JUN , 1983				
06...	1645	56	4.0	60
24...	1135	23	8.5	62
JUL				
11...	1340	2.5	13.0	110
AUG				
08...	1315	.35	18.5	185
SEP				
12...	1325	.51	12.0	195

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT
(LAT 40°08'00", LONG 111°01'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
18...	1850	25	6.5	470
NOV				
29...	1630	114	4.0	420
FEB , 1983				
23...	1425	44	4.5	480
MAR				
07...	1740	143	3.5	440
APR				
18...	1600	190	3.5	440
MAY , 1983				
30...	1815	41	4.5	450
JUN				
24...	1010	187	15.0	330
JUL				
11...	1630	230	17.0	335
AUG				
08...	1515	222	21.0	325
SEP				
12...	1550	203	17.5	355

09287000 CURRANT CREEK BELOW RED LEDGE HOLLOW, NEAR FRUITLAND, UT
(LAT 40°19'27", LONG 111°02'43")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
22...	1325	.82	6.0	445
DEC				
03...	1200	16	3.5	440
JAN , 1983				
28...	1035	16	2.0	440
MAR				
11...	1420	15	5.5	410
APR				
22...	1325	42	3.5	420
MAY				
23...	1425	204	6.5	310
26...	1700	428	6.5	270
26...	2000	610	6.0	270
JUN , 1983				
03...	1410	453	6.0	260
07...	1810	176	7.0	265
10...	1400	375	8.0	265
20...	1920	233	9.0	275
JUL				
14...	1430	60	13.0	300
AUG				
08...	1910	23	15.5	340
SEP				
15...	1725	12	18.0	340

09287500 WATER HOLLOW NEAR FRUITLAND, UT
(LAT 40°14'30", LONG 110°58'48")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
22...	1150	.69	4.0	650
JAN , 1983				
28...	1325	4.4	.0	400
MAR				
09...	1840	5.1	1.5	380
APR				
22...	1105	6.6	9.0	425
MAY				
09...	1440	11	12.0	430
23...	1740	13	16.0	420
30...	1955	20	13.5	380
JUN , 1983				
07...	1250	40	10.0	360
20...	1720	31	15.5	355
JUL				
14...	1605	19	17.0	390
AUG				
08...	1655	15	18.5	390
SEP				
12...	1800	11	14.0	380

09288000 CURRANT CREEK NEAR FRUITLAND, UT
(LAT 40°12'01", LONG 110°54'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
19...	1810	23	6.0	520
NOV				
30...	1700	47	.0	450
JAN , 1983				
24...	1645	41	1.0	425
MAR				
09...	1725	46	6.0	430
APR				
18...	1820	56	7.0	480
MAY				
13...	1410	173	6.5	400
23...	1945	293	11.0	350
MAY , 1983				
26...	1305	547	8.5	320
JUN				
02...	1855	512	9.0	295
07...	2045	268	12.0	320
20...	1505	330	15.0	315
JUL				
14...	1135	128	12.0	480
AUG				
12...	1025	82	14.0	405
SEP				
12...	1950	66	15.0	430

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GREEN RIVER BASIN

09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT
(LAT 39°59'35", LONG 110°48'51")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982					MAY , 1983				
21...	1740	4.3	8.0	580	31...	1900	387	8.0	470
DEC					JUN				
01...	1550	3.5	5.0	600	08...	1845	192	9.0	480
JAN , 1983					22...	1530	71	14.5	510
27...	1510	3.3	6.0	610	JUL				
MAR					11...	1900	26	16.0	570
10...	1600	12	5.5	660	AUG				
APR					09...	1735	9.0	21.0	600
20...	1440	27	10.0	630	SEP				
MAY					13...	1645	5.7	17.0	600
09...	1700	113	9.5	590					
24...	1945	215	9.0	520					

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT
(LAT 40°09'17", LONG 110°33'15")

OCT , 1982					MAY , 1983				
21...	1445	107	7.0	730	31...	1630	2090	9.0	500
DEC					JUN				
01...	1240	194	2.5	620	09...	2055	1440	12.5	510
JAN , 1983					21...	2010	917	15.0	540
25...	1700	102	.0	730	JUL				
MAR					12...	1210	540	15.0	560
11...	1120	283	5.0	730	AUG				
APR					09...	1425	397	21.0	590
21...	1145	393	6.0	650	SEP				
MAY					13...	1345	335	16.0	590
24...	1525	1250	9.0	530					

09288900 SOWERS CREEK NEAR DUCHESNE, UT
(LAT 39°59'22", LONG 110°27'33")

OCT , 1982					MAY , 1983				
21...	1110	3.5	2.0	1200	31...	1110	57	7.5	970
DEC					JUN				
01...	1115	1.7	1.5	1340	06...	1930	44	11.0	1100
JAN , 1983					22...	1140	25	11.0	1220
27...	1010	2.6	1.0	1250	JUL				
MAR					13...	1130	20	11.0	1260
10...	1110	3.4	2.5	1280	AUG				
APR					09...	1110	16	13.0	1250
20...	1115	7.6	6.5	1190	SEP				
MAY					13...	1100	9.9	8.0	1300
09...	1945	28	9.0	970					
24...	1115	35	9.0	980					

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT
(LAT 40°36'24", LONG 110°31'35")

OCT , 1982					JUN , 1983				
07...	--	177	--	--	07...	1105	498	3.0	<50
DEC					20...	1225	1170	5.0	<50
14...	1110	53	.5	<50	JUL				
FEB , 1983					12...	1330	398	9.0	<50
25...	1020	34	1.0	<50	27...	1150	220	9.0	<50
APR					AUG				
20...	1155	26	3.0	<50	31...	1120	110	11.0	<50

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT
(LAT 40°33'23", LONG 110°29'02")

OCT , 1982					JUN , 1983				
07...	1640	113	9.0	--	07...	1430	624	3.5	<50
DEC					19...	1840	1290	7.0	<50
30...	1015	13	.0	<50	JUL				
FEB , 1983					06...	1500	563	9.0	<50
25...	1100	30	2.0	<50	27...	1450	231	15.0	<50
APR					AUG				
20...	1210	12	2.0	50	31...	1550	333	10.0	<50
MAY									
25...	1220	285	4.0	50					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GREEN RIVER BASIN

09291200 LAKE FORK RIVER BELOW TASKEECH DAMSITE, NEAR MOUNTAIN HOME, UT
(LAT 40°30'05", LONG 110°24'17")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
08...	1210	26	6.0	--
DEC				
14...	1105	23	.0	320
FEB , 1983				
15...	1105	40	.0	155
APR				
07...	1135	18	4.5	250
MAY				
18...	1200	300	4.5	<50
JUN , 1983				
02...	1220	548	5.5	50
15...	1215	758	8.5	<50
20...	1545	1120	10.0	<50
JUL				
12...	1715	379	15.0	<50
27...	1810	113	17.0	80
AUG				
31...	1900	315	--	--

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT
(LAT 40°30'43", LONG 110°20'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
07...	1840	272	6.5	--
DEC				
14...	1255	95	.0	85
FEB , 1983				
15...	1350	66	2.0	110
APR				
07...	1410	54	5.5	120
MAY				
18...	1415	71	5.5	120
JUN , 1983				
02...	1415	673	5.0	<50
15...	1435	873	9.0	<50
20...	1755	1370	10.5	<50
JUL				
13...	1145	480	11.0	<50
28...	1150	356	12.0	<50
SEP				
01...	1455	183	11.0	<50

09295000 DUCHESNE RIVER AT MYTON, UT
(LAT 40°12'01", LONG 110°03'47")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
04...	1345	590	12.0	690
NOV				
09...	1135	770	6.5	580
JAN , 1983				
04...	1150	723	1.5	790
28...	1120	738	1.5	680
MAR				
07...	1300	891	4.0	810
APR				
13...	1235	762	6.0	720
MAY				
17...	1215	427	8.0	880
JUN , 1983				
03...	1445	4360	11.5	520
14...	1145	5100	10.0	400
19...	1540	5920	14.5	300
JUL				
03...	1630	2920	--	--
18...	1345	1050	18.0	560
AUG				
22...	1450	740	20.0	630
SEP				
29...	1125	313	13.0	950

09297000 UINTA RIVER NEAR NEOLA, UT
(LAT 40°32'08", LONG 110°03'46")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
NOV , 1982				
16...	1230	152	1.0	<50
JAN , 1983				
18...	1400	86	.0	54
MAR				
08...	1045	69	2.0	60
APR				
14...	1500	88	6.0	80
MAY				
20...	1330	98	8.5	75
JUN				
01...	1255	910	7.0	<50
10...	1100	1250	6.0	<50
JUN , 1983				
17...	1250	1800	7.0	<50
JUL				
13...	1555	753	15.0	<50
AUG				
03...	1345	431	12.5	<50
16...	1135	406	13.0	<50
SEP				
06...	1540	282	9.0	<50

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT
(LAT 40°33'54", LONG 109°55'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
20...	1455	100	6.0	<50
NOV				
30...	1315	64	.0	<50
JAN , 1983				
19...	1245	42	.5	70
MAR				
09...	1300	33	2.0	92
APR				
14...	1130	36	--	110
MAY				
09...	1305	81	9.0	120
24...	--	192	--	--
JUN , 1983				
01...	1530	735	5.0	<50
10...	1400	882	8.0	<50
17...	1600	1050	9.0	<50
21...	1100	1980	6.0	<50
JUL				
11...	1130	481	10.0	<50
AUG				
16...	1325	172	12.5	<50
26...	1115	132	11.5	50
SEP				
20...	1345	114	11.0	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GREEN RIVER BASIN

09306800 BITTER CREEK NEAR BONANZA, UT
(LAT 39°45'12", LONG 110°35'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
NOV , 1982				
19...	1320	2.4	3.5	3350
JAN , 1983				
11...	1410	1.2	.0	--
FEB				
23...	1450	2.6	3.0	--
MAR				
11...	1325	6.0	9.0	3660
MAY				
04...	1540	7.9	18.5	4100
24...	1650	9.9	21.5	3370
JUN , 1983				
02...	1855	85	16.5	1540
06...	1555	64	18.5	1780
24...	1830	30	18.5	2590
JUL				
07...	1355	17	23.0	2690
27...	1220	18	17.5	2900
SEP				
01...	1650	10	19.0	3080

09308500 MINNIE MAUD CREEK NEAR MYTON, UT
(LAT 39°47'55", LONG 110°33'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
06...	1000	3.6	1.0	720
NOV				
17...	0930	1.1	.0	820
MAY , 1983				
10...	1120	98	5.0	640
24...	1130	164	8.5	540
JUN				
14...	0950	67	6.0	580
JUL , 1983				
11...	1155	21	14.0	820
AUG				
16...	1230	8.2	17.5	900
SEP				
21...	1220	4.5	9.0	860

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT
(LAT 39°40'03", LONG 111°18'41")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
JUN , 1983				
29...	1440	37	12.0	310
AUG , 1983				
08...	2005	16	18.0	330

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT
(LAT 39°42'57", LONG 111°17'58")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
13...	0925	9.7	4.0	215
MAR , 1983				
10...	1005	7.0	1.0	--
APR				
14...	0825	8.0	.5	365
MAY				
02...	--	15	--	380
MAY , 1983				
26...	0810	145	2.0	290
JUN				
29...	1120	155	11.5	--
AUG				
09...	1010	14	20.0	280

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT
(LAT 39°52'33", LONG 111°02'12")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
12...	1405	9.0	7.5	630
DEC				
07...	1205	7.5	.0	640
FEB , 1983				
01...	1110	5.9	.0	590
MAR				
01...	1405	6.9	.0	620
APR				
15...	1425	13	7.0	680
MAY , 1983				
05...	1445	159	8.0	550
24...	1250	525	9.5	530
JUN				
01...	--	590	10.5	510
09...	2035	252	12.5	550
30...	1300	67	12.0	--
AUG				
03...	1610	30	20.5	530

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT
(LAT 39°49'50", LONG 110°58'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
12...	1440	.30	10.5	580
DEC				
07...	1355	.14	.5	540
FEB , 1983				
01...	1345	.09	.0	580
APR				
15...	1125	.52	5.0	580
MAY				
05...	1125	21	5.5	400
24...	1430	68	10.	
JUN , 1983				
01...	1410	166	8.5	330
30...	0955	23	12.0	--
JUL				
15...	0835	10	12.0	465
26...	1915	8.1	20.0	420
AUG				
03...	1855	6.8	21.0	415

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
GREEN RIVER BASIN									
09312800 WILLOW CREEK NEAR CASTLE GATE, UT (LAT 39°46'37", LONG 110°47'30")									
OCT , 1982					MAY , 1983				
12...	1600	4.9	12.0	830	05...	1020	155	4.0	640
DEC					24...	1715	300	13.5	600
08...	1015	3.2	.0	950	JUN				
MAR , 1983					01...	1105	249	6.0	560
01...	1105	2.8	.0	940	29...	1900	33	19.5	840
APR					AUG				
15...	0900	15	.0	950	04...	0935	13	16.5	870
09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT (LAT 39°26'59", LONG 110°37'38")									
OCT , 1982					APR , 1983				
04...	1300	78	11.5	2000	29...	1435	749	9.0	--
NOV					MAY				
15...	1200	34	1.5	3500	17...	1320	934	7.5	900
DEC					JUN				
14...	1400	42	.0	2340	13...	1540	2400	13.5	720
JAN , 1983					JUL				
19...	1400	79	.0	1540	12...	1035	285	19.0	1240
FEB					AUG				
16...	1235	196	4.0	990	17...	0935	133	20.5	1520
MAR					SEP				
22...	1435	354	11.0	1140	22...	1300	126	13.5	1730
APR									
20...	1645	469	10.0	920					
09314280 DESERT SEEP WASH NEAR WELLINGTON, UT (LAT 39°25'16", LONG 110°38'44")									
OCT , 1982					MAY , 1983				
04...	1420	102	13.0	2500	18...	0920	38	8.0	3270
NOV					JUN				
15...	1435	27	3.0	5000	13...	1610	61	19.0	3330
JAN , 1983					JUL				
20...	0910	13	.0	3650	11...	1500	66	22.5	2290
MAR					AUG				
22...	1150	26	6.0	3590	16...	1505	59	26.0	2400
APR					SEP				
20...	1330	42	13.0	3430	22...	0930	55	9.5	1390
09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (LAT 39°19'47", LONG 111°25'51")									
JUN , 1983					AUG , 1983				
27...	1410	2.6	4.5	210	10...	1450	6.8	18.0	300
09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (LAT 39°25'34", LONG 111°21'51")									
JUN , 1983					AUG , 1983				
08...	--	46	--	245	09...	1645	5.1	14.5	330
28...	1735	1.2	3.0	275					
09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT (LAT 39°06'15", LONG 111°12'47")									
OCT , 1982					APR , 1983				
05...	1340	44	9.0	470	21...	0950	32	5.0	510
NOV					MAY				
16...	1250	37	1.0	510	18...	1000	90	3.0	510
DEC					JUN				
16...	1000	13	.0	520	14...	1510	595	9.0	390
JAN , 1983					JUL				
20...	1230	14	.0	560	12...	1320	376	15.0	380
FEB					AUG				
18...	1000	13	2.0	570	17...	0915	92	13.0	430
MAR					SEP				
23...	1250	18	4.5	630	22...	0950	32	6.0	510

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
GREEN RIVER BASIN									
09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT (LAT 39°08'37", LONG 110°53'50")									
OCT , 1982					MAY , 1983				
06...	1025	125	7.5	2510	17...	1500	196	10.5	1870
NOV					JUN				
15...	1435	61	3.0	3480	13...	1615	2680	12.5	810
DEC					JUL				
14...	1415	59	.5	3340	11...	1555	1040	18.5	830
JAN , 1983					AUG				
19...	1400	99	.0	1780	16...	1505	207	23.0	1910
MAR					SEP				
22...	1405	155	7.0	1790	22...	1220	175	12.5	1910
APR									
20...	1500	332	10.0	960					
DIRTY DEVIL RIVER BASIN									
09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT (LAT 38°37'40", LONG 111°38'50")									
OCT , 1982					MAY , 1983				
05...	1120	15	1.5	130	31...	1045	189	7.0	--
NOV					JUN				
18...	1040	11	.5	135	15...	1635	113	13.0	100
FEB , 1983					AUG				
02...	1200	6.4	.5	155	10...	1310	26	12.5	--
09330000 FREMONT RIVER NEAR BICKNELL, UT (LAT 38°18'25", LONG 111°31'03")									
OCT , 1982					APR , 1983				
05...	1245	77	4.0	540	26...	1235	193	6.0	390
NOV					MAY				
17...	1055	82	3.0	520	24...	1200	154	16.0	330
DEC					JUN				
29...	1420	76	1.0	500	21...	1225	140	15.5	495
FEB , 1983					AUG				
15...	1230	90	4.0	540	10...	1045	104	14.0	435
MAR									
29...	1345	89	11.0	560					
09330230 FREMONT RIVER NEAR CAINEVILLE, UT (LAT 38°16'40", LONG 111°04'00")									
OCT , 1982					APR , 1983				
05...	1440	55	15.0	750	26...	1425	199	12.0	640
NOV					MAY				
17...	1215	71	2.5	660	24...	1350	117	21.0	465
DEC					JUN				
29...	1555	48	1.0	670	21...	1430	141	21.0	520
FEB , 1983					AUG				
15...	1410	93	7.0	630	03...	1305	97	24.5	750
MAR									
29...	1450	94	12.0	630					
09330500 MUDDY CREEK NEAR EMERY, UT (LAT 38°58'55", LONG 111°14'55")									
OCT , 1982					APR , 1983				
05...	1015	48	6.5	410	22...	0950	20	5.0	470
NOV					MAY				
16...	1020	15	2.0	400	19...	0955	64	3.5	450
DEC					JUN				
16...	1200	17	.0	460	15...	0955	276	6.5	390
JAN , 1983					JUL				
21...	1000	14	.0	405	13...	1000	273	10.0	360
FEB					AUG				
18...	1105	13	.0	420	18...	1040	80	19.5	650
MAR					SEP				
24...	1000	8.8	.0	470	21...	1500	50	10.5	390

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
DIRTY DEVIL RIVER BASIN									
09332100 MUDDY CREEK BELOW INTERSTATE I-70, NEAR EMERY, UT (LAT 38°48'44", LONG 111°11'53")									
OCT , 1982					APR , 1983				
05...	1210	29	11.5	1900	22...	1335	48	15.0	1300
NOV					MAY				
17...	1220	23	.5	2070	19...	1145	56	11.0	1520
DEC					JUN				
16...	1200	30	.0	2370	15...	1200	230	11.0	700
JAN , 1983					JUL				
21...	1030	26	.0	1860	13...	1340	177	16.5	660
FEB					AUG				
18...	1325	27	6.0	2240	18...	1250	69	24.0	1100
MAR					SEP				
24...	1150	22	2.5	1820	21...	1150	12	10.5	2230
09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT (LAT 38°05'50", LONG 110°24'27")									
OCT , 1982					APR , 1983				
06...	--	66	--	2520	27...	0925	324	11.0	1590
20...	0940	62	8.0	2130	MAY				
NOV					25...	0830	259	17.0	1850
22...	1430	119	5.0	1800	JUN				
DEC					22...	--	E500	--	1030
30...	--	E20	--	2330	AUG				
FEB , 1983					30...	0900	113	20.5	2890
16...	0945	135	6.0	1750					
MAR									
30...	0915	122	8.0	1680					
ESCALANTE RIVER BASIN									
09337000 PINE CREEK NEAR ESCALANTE, UT (LAT 37°51'45", LONG 111°38'07")									
OCT , 1982					APR , 1983				
07...	0915	5.0	3.0	365	15...	1130	1.7	2.0	435
NOV					MAY				
15...	1030	2.2	.5	445	18...	1030	18	3.0	470
DEC					JUN				
28...	1405	6.4	.5	270	20...	1300	27	12.0	330
JAN , 1983					AUG				
26...	1345	3.2	--	400	09...	1230	15	17.0	370
MAR					SEP				
07...	1200	4.2	.5	395	20...	1050	7.4	7.0	335
09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (LAT 37°46'41", LONG 111°34'26")									
OCT , 1982					APR , 1983				
07...	1045	5.9	6.0	1210	15...	1040	16	4.0	970
NOV					MAY				
15...	1200	6.8	1.0	1550	18...	1115	14	5.0	810
DEC					JUN				
28...	1215	19	.5	630	20...	--	153	--	420
JAN , 1983					AUG				
26...	1245	22	3.0	850	09...	1330	19	26.0	650
MAR									
07...	1230	22	7.0	--					
SAN JUAN RIVER BASIN									
09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT (LAT 37°52'23", LONG 109°21'57")									
OCT , 1982					MAY , 1983				
15...	1040	.00	--	--	12...	1620	17	11.0	220
DEC					JUN				
03...	1225	.26	1.0	200	29...	1530	15	14.0	160
JAN , 1983					JUL				
13...	1325	.26	4.0	230	27...	1700	.08	11.0	480
MAR					AUG				
09...	1420	.42	6.0	480	23...	1545	.00	--	--
APR					SEP				
14...	1425	.72	6.0	410	27...	--	.00	--	--

E Estimate

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

SAN JUAN RIVER BASIN

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT
(LAT 37°51'38", LONG 109°20'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
14...	1540	.20	10.5	540
DEC				
03...	1115	.22	.0	200
JAN , 1983				
13...	1420	.45	3.0	210
MAR				
09...	1255	3.0	6.5	520
APR				
14...	1245	6.8	8.0	500
MAY , 1983				
12...	1600	82	10.0	230
JUN				
29...	1505	24	17.0	200
JUL				
27...	1440	.63	19.0	410
AUG				
23...	1510	.19	22.0	600
SEP				
27...	1405	.13	19.5	560

09378630 RECAPTURE CREEK NEAR BLANDING, UT
(LAT 37°45'20", LONG 109°28'33")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
15...	1215	.04	11.5	220
JAN , 1983				
13...	1115	.07	.0	210
MAY				
03...	1120	16	4.0	100
JUN				
06...	1315	20	10.0	100
30...	1200	1.8	14.5	130
JUL , 1983				
28...	1130	.15	16.5	200
AUG				
24...	1115	.06	16.0	200
SEP				
28...	1350	.01	16.0	310

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT
(LAT 37°40'51", LONG 109°27'43")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
15...	1145	.00	--	--
NOV				
30...	1410	.16	.0	200
JAN , 1983				
12...	1010	.24	.0	230
MAR				
10...	1205	22	4.0	230
APR				
14...	1035	14	4.0	310
MAY				
03...	1255	80	9.0	180
MAY , 1983				
12...	1135	123	10.0	160
JUN				
06...	1145	74	11.0	160
30...	1025	14	14.0	220
JUL				
28...	1030	.10	17.0	470
AUG				
24...	1000	.03	15.5	400
SEP				
28...	1245	1.8	14.5	390

09378700 COTTONWOOD WASH NEAR BLANDING, UT
(LAT 37°33'38", LONG 109°34'41")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
14...	1500	.89	20.0	660
NOV				
30...	1115	8.2	2.5	540
JAN , 1983				
12...	1330	3.8	.0	570
MAR				
10...	1515	27	13.0	550
APR				
18...	1225	44	12.0	460
MAY				
05...	1350	150	14.0	230
MAY , 1983				
13...	0935	71	10.0	320
JUN				
30...	0900	5.7	17.0	410
JUL				
28...	0910	5.9	19.0	240
AUG				
24...	0845	.00	--	--
SEP				
28...	1020	3.9	14.5	260

09403600 KANAB CREEK NEAR KANAB, UT
(LAT 37°06'02", LONG 112°32'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
04...	1500	8.0	13.0	690
NOV				
18...	1150	12	10.0	1020
DEC				
28...	1540	21	.0	620
JAN , 1983				
11...	1125	16	2.0	900
FEB				
09...	1230	20	9.0	780
MAR				
04...	1200	91	5.0	770
30...	1450	58	15.0	890
APR , 1983				
26...	1320	47	17.0	740
MAY				
26...	1125	9.4	25.0	720
JUN				
16...	1020	7.6	18.0	620
JUL				
18...	1955	4.1	22.0	460
AUG				
15...	1145	9.9	22.5	760
31...	1245	10	26.0	620
SEP				
29...	1325	9.9	15.0	710

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
VIRGIN RIVER BASIN									
09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT (LAT 37°20'19", LONG 112°36'13")									
OCT , 1982					APR , 1983				
04...	1235	15	9.0	530	26...	1130	191	6.0	600
NOV					MAY				
18...	0940	21	5.5	530	26...	1130	93	11.0	580
DEC					JUN				
28...	1215	20	.5	550	15...	1935	40	8.5	550
FEB , 1983					JUL				
09...	0945	24	3.0	570	18...	1830	18	19.0	510
MAR					20...	1240	23	17.0	530
04...	1405	40	7.0	600	AUG				
31...	0950	62	4.0	640	31...	1135	20	14.0	510
09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCH CANYON, NEAR GLENDALE, UT (LAT 37°25'06", LONG 112°47'59")									
OCT , 1982					MAY , 1983				
04...	0950	19	5.5	410	19...	1055	85	6.0	450
NOV					JUN				
16...	1145	13	3.0	455	15...	1650	52	15.0	400
FEB , 1983					JUL				
01...	1155	14	.5	475	18...	1450	21	12.0	--
APR					AUG				
26...	1125	67	5.5	490	23...	1035	27	11.0	400
09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT (LAT 37°23'26", LONG 112°49'30")									
OCT , 1982					MAY , 1983				
04...	1150	16	8.0	430	19...	1135	92	--	--
NOV					JUN				
16...	1255	13	3.0	540	15...	1500	58	15.0	445
FEB , 1983					JUL				
01...	1035	6.3	.5	620	18...	1550	24	12.0	415
APR					AUG				
26...	1235	74	6.5	550	23...	1215	26	15.0	430
09405501 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT (LAT 37°12'35", LONG 112°58'40")									
OCT , 1982					APR , 1983				
04...	1535	63	14.5	680	19...	1115	190	7.5	640
NOV					MAY				
08...	1150	58	8.0	800	03...	1030	426	6.5	500
DEC					16...	1030	884	6.5	370
22...	1035	50	4.0	820	JUN				
JAN , 1983					01...	1120	1560	8.0	340
24...	1030	58	4.0	790	JUL				
FEB					12...	1400	117	22.0	540
23...	1155	71	7.0	740	AUG				
MAR					17...	1330	127	21.0	520
04...	0845	206	5.0	640					
28...	1025	149	7.0	700					
09406000 VIRGIN RIVER AT VIRGIN, UT (LAT 37°11'53", LONG 113°12'22")									
OCT , 1982					MAR , 1983				
05...	1115	117	12.0	840	28...	1200	491	9.0	1230
NOV					MAY				
08...	1355	124	9.0	910	03...	1245	724	12.0	620
DEC					16...	1200	1270	9.0	420
22...	1210	146	5.0	830	JUL				
JAN , 1983					12...	1250	191	24.0	750
24...	1235	143	6.0	870	AUG				
FEB					17...	1100	220	21.5	850
23...	1330	187	10.0	800					
MAR									
04...	--	707	--	--					
17...	1105	341	6.5	850					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
VIRGIN RIVER BASIN									
09408000 LEEDS CREEK NEAR LEEDS, UT (LAT 37°16'03", LONG 113°22'12")									
OCT , 1982					MAR , 1983				
06...	0935	3.3	7.0	250	10...	1405	16	11.5	300
NOV					APR				
09...	1330	3.3	8.0	285	21...	1420	21	8.5	290
DEC					JUN				
21...	0945	4.9	3.0	290	07...	--	29	--	190
JAN , 1983					JUL				
25...	0915	5.1	3.5	275	26...	--	28	--	190
FEB									
22...	0905	9.7	4.0	285					
09408150 VIRGIN RIVER NEAR HURRICANE, UT (LAT 37°09'45", LONG 113°23'42")									
OCT , 1982					MAR , 1983				
06...	1450	140	18.5	2430	17...	1310	467	10.5	1100
NOV					28...	1350	641	11.5	1320
09...	1110	332	11.5	1090	JUL				
DEC					05...	1255	271	25.5	1300
22...	1410	195	7.5	1700	AUG				
JAN , 1983					30...	1035	168	21.0	1930
24...	1425	198	9.0	1640					
FEB									
22...	1305	246	10.5	1470					
09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT (LAT 37°23'00", LONG 113°28'57")									
OCT , 1982					MAY , 1983				
07...	1100	4.6	8.0	90	05...	1205	35	5.5	93
NOV					17...	1015	44	4.0	67
15...	1325	4.0	3.5	110	JUN				
JAN , 1983					08...	--	136	--	--
10...	1445	4.2	2.0	98	JUL				
FEB					27...	1255	31	12.0	95
15...	1405	4.2	3.0	99					
MAR									
16...	0940	17	2.5	100					
09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT (LAT 37°28'04", LONG 113°28'21")									
OCT , 1982					MAY , 1983				
07...	--	.00	--	--	05...	1320	22	6.5	95
NOV					17...	0900	28	2.0	92
15...	--	.00	--	--	JUN				
MAR , 1983					07...	--	75	--	73
15...	1140	22	.5	155	JUL				
APR					27...	1025	1.0	16.0	244
18...	1135	28	8.0	130					
09409880 SANTA CLARA RIVER AT GUNLOCK, UT (LAT 37°16'55", LONG 113°46'00")									
OCT , 1982					MAR , 1983				
07...	1315	13	16.0	440	29...	1000	89	9.0	410
NOV					APR				
15...	1145	18	7.0	415	21...	1025	174	9.0	315
JAN , 1983					MAY				
10...	1230	8.6	7.5	490	05...	1045	89	11.5	345
FEB					18...	0935	64	11.5	345
15...	1230	28	9.0	485	JUL				
MAR					06...	1430	29	21.0	290
03...	--	1560	--	--	AUG				
11...	1020	111	7.5	335	12...	1125	12	23.0	415
16...	1110	87	8.5	360					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
VIRGIN RIVER BASIN									
09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT (LAT 37°11'24", LONG 113°46'03")									
OCT , 1982					MAR , 1983				
07...	--	.00	--	--	29...	0840	110	8.0	380
NOV					MAY				
15...	1020	1.7	5.0	700	04...	1245	83	14.5	370
JAN , 1983					18...	1045	66	12.0	375
07...	0955	10	4.0	495	JUL				
FEB					06...	1305	50	20.0	320
15...	1045	34	5.0	455	AUG				
MAR					12...	1335	26	21.0	285
11...	1200	110	11.0	355					
16...	1205	70	9.0	365					
09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (LAT 37°04'14", LONG 113°34'55")									
OCT , 1982					MAR , 1983				
05...	0855	140	12.0	2520	04...	1530	2260	10.5	860
NOV					17...	1530	565	12.5	1200
09...	0800	538	9.5	1900	28...	1640	784	13.0	1250
DEC					MAY				
21...	1325	211	7.0	1920	04...	0950	1170	14.0	910
JAN , 1983					18...	1415	1430	13.5	660
10...	--	218	--	--	JUL				
25...	1110	339	7.0	1680	06...	1500	257	26.0	1640
FEB					AUG				
09...	1115	786	7.5	790	30...	1430	99	26.0	2430
22...	1110	269	9.0	1720					
BEAR RIVER BASIN									
10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY (LAT 40°52'25", LONG 110°47'00")									
OCT , 1982					JUN , 1983				
05...	0830	86	2.0	120	15...	1450	259	6.0	140
NOV					28...	1910	532	7.0	<50
17...	1510	30	.5	110	JUL				
DEC					13...	0750	245	7.0	50
14...	0945	14	.0	95	AUG				
FEB , 1983					17...	0830	66	8.0	75
15...	0900	14	.0	100	SEP				
APR					22...	1635	33	9.5	100
05...	0900	12	2.0	110					
10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT (LAT 40°50'30", LONG 110°55'35")									
OCT , 1982					JUN , 1983				
20...	1110	4.6	2.0	320	29...	0940	63	5.0	180
DEC					JUL				
14...	1100	2.6	.5	110	13...	1020	2.7	11.0	400
FEB , 1983					AUG				
15...	1020	1.6	2.0	135	17...	1025	6.5	7.0	110
APR					SEP				
05...	1010	1.8	1.0	220	22...	1110	25	11.0	240
10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY (LAT 40°56'40", LONG 110°51'40")									
DEC , 1982					JUL , 1983				
14...	1200	20	1.0	150	12...	1550	86	10.0	300
FEB , 1983					AUG				
15...	1120	20	1.0	170	16...	1655	44	12.0	210
APR					SEP				
05...	1110	22	.0	120	22...	1840	42	12.0	200
JUN									
15...	1045	297	9.0	180					
28...	1830	257	10.0	--					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

BEAR RIVER BASIN

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE
(LAT 40°57'55", LONG 110°51'10")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
05...	1015	351	4.0	295
NOV				
17...	1210	119	2.0	240
DEC				
14...	1245	74	.0	300
FEB , 1983				
14...	1700	65	2.0	270
MAR				
09...	1640	66	4.0	260
APR				
05...	1205	64	1.0	210
MAY , 1983				
27...	1425	837	9.5	210
JUN				
01...	1015	1570	3.0	180
15...	0830	1270	--	200
16...	0810	1400	4.0	200
28...	1310	1290	10.0	200
JUL				
12...	1735	659	12.0	150
AUG				
16...	1615	193	10.0	290

10015700 SULPHER CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY
(LAT 41°08'38", LONG 110°48'19")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
04...	1405	13	9.0	800
NOV				
17...	1245	9.6	1.0	620
DEC				
14...	1500	5.5	.0	610
FEB , 1983				
15...	1250	3.7	.0	650
APR				
05...	1420	14	.0	580
26...	0925	81	1.0	800
29...	--	145	--	--
MAY , 1983				
10...	1520	112	6.0	410
JUN				
01...	1645	510	11.0	370
10...	1240	205	9.5	350
28...	1305	36	13.0	490
AUG				
16...	1410	19	11.0	370
SEP				
23...	1230	7.6	12.0	650

10015900 SULPHER CREEK BELOW RESERVOIR, NEAR EVANSTON, WY
(LAT 41°09'21", LONG 110°50'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
04...	1500	72	7.0	500
NOV				
17...	1000	15	2.0	700
DEC				
14...	1410	16	2.0	700
FEB , 1983				
15...	--	E.10	--	--
APR				
05...	--	E.20	--	--
26...	1115	146	4.5	650
29...	1400	202	2.5	530
MAY , 1983				
10...	1300	200	4.0	550
JUN				
01...	2035	501	9.5	360
28...	1125	2.3	15.0	380
AUG				
16...	1235	133	19.0	720
SEP				
23...	0930	41	13.0	520

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY
(LAT 41°24'24", LONG 111°02'26")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
04...	--	E1.0	--	--
NOV				
17...	--	.00	--	--
DEC				
13...	1515	8.3	.0	340
JAN , 1983				
19...	--	.00	--	--
FEB				
14...	--	.00	--	--
MAR				
09...	--	E1.0	--	--
APR				
04...	1025	.96	1.0	540
26...	1240	58	5.0	500
29...	2030	64	5.0	--
MAY , 1983				
10...	0815	60	5.5	510
27...	1705	45	17.0	300
JUN				
02...	0940	9.5	9.5	335
14...	1420	70	12.0	610
JUL				
07...	1910	47	17.5	150
AUG				
10...	1310	2.0	25.0	690
SEP				
21...	1805	.36	15.5	310

E Estimate

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
BEAR RIVER BASIN				
10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT (LAT 41°30'20", LONG 111°00'50")				
OCT , 1982				
04...	--	563	--	480
NOV				
16...	0920	359	3.0	350
DEC				
14...	1620	113	2.5	500
JAN , 1983				
19...	1300	129	4.0	750
FEB				
15...	1440	104	3.0	520
APR				
05...	1550	14	3.0	1200
MAY , 1983				
04...	1740	776	7.0	405
JUN				
02...	1700	3600	12.5	390
28...	1130	1940	19.0	200
JUL				
07...	1710	918	19.0	230
AUG				
16...	1125	374	22.0	260
SEP				
20...	1735	174	13.0	--
10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT (LAT 41°28'06", LONG 111°18'50")				
OCT , 1982				
04...	--	E.50	--	--
DEC				
14...	1800	1.3	2.0	750
FEB , 1983				
15...	1550	7.4	4.0	310
APR				
05...	1715	14	2.0	320
26...	1600	48	4.0	510
MAY , 1983				
09...	1710	86	5.0	205
31...	1950	518	6.0	275
JUN				
28...	0925	74	12.0	500
AUG				
16...	0930	38	12.0	265
SEP				
23...	--	E.10	--	--
10026500 BEAR RIVER NEAR RANDOLPH, UT (LAT 41°48'02", LONG 111°04'20")				
OCT				
19...	1440	422	10.0	300
DEC				
13...	1220	213	0.5	310
FEB				
14...	0900	180	0.0	310
APR				
13...	0820	128	2.0	800
MAY				
04...	1330	855	8.0	500
JUN				
03...	1330	2930	15.5	390
27...	1850	2030	17.0	590
AUG				
15...	1720	527	22.0	--
SEP				
21...	1425	271	12.0	450
10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY (LAT 41°56'20", LONG 110°59'05")				
APR				
28...	1610	757	7.5	550
JUL				
07...	1230	1350	20.5	510
AUG				
24...	1530	649	20.5	405
SEP				
20...	1715	339	12.0	490
10032000 SMITHS FORK NEAR BORDER, WY (LAT 42°17'16", LONG 110°52'14")				
OCT , 1982				
19...	1225	125	5.0	375
NOV				
16...	1455	104	2.0	380
DEC				
15...	1010	93	1.0	300
FEB , 1983				
15...	1750	74	2.0	350
APR				
06...	1025	43	.0	380
MAY , 1983				
26...	2040	1240	10.0	275
JUN				
09...	1635	1300	9.0	275
27...	1500	1040	12.0	250
AUG				
15...	1430	243	15.0	--
SEP				
20...	1050	139	8.0	275

E Estimate

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

BEAR RIVER BASIN

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY
(LAT 42°07'36", LONG 110°58'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
DEC					AUG				
15...	0820	374	0.5	290	15...	1125	730	16.0	490
FEB					NOV				
16...	1200	314	2.0	410	16...	1140	670	1.0	600
APR					MAY				
13...	1050	472	4.5	720	09...	1240	1750	7.0	--
JUN					SEP				
09...	1425	4870	15.5	540	21...	1120	532	8.0	--
27...	1210	3050	12.0	580					

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE
(LAT 42°24'10", LONG 111°01'30")

OCT					APR				
07...	1550	28	8.0	950	06...	1135	28	2.0	400
NOV					MAY				
16...	1210	23	0.0	1250	05...	1200	335	5.0	495
DEC					26...	1000	812	6.0	375
15...	1135	21	0.0	810	JUN				
JAN					08...	1120	361	9.5	500
19...	1620	19	0.0	870	27...	1120	138	10.0	500
FEB					AUG				
16...	0925	16	2.0	920	15...	1045	47	15.0	800
MAR					SEP				
09...	0910	18	3.0	820	20...	1240	30	7.0	1080

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID
(LAT 42°11'05", LONG 111°25'30")

OCT , 1982					APR , 1983				
07...	1320	26	7.0	320	06...	1235	20	6.0	340
NOV					25...	1430	34	5.0	200
10...	1335	24	5.0	340	MAY				
DEC					03...	1325	36	7.0	265
15...	1250	22	4.0	340	JUN				
JAN , 1983					07...	1340	134	8.5	205
20...	0835	20	4.0	340	23...	1340	121	9.0	230
FEB					AUG				
16...	1310	19	4.0	320	15...	0815	41	12.0	320
MAR					SEP				
08...	1750	19	5.0	240	19...	1630	30	8.0	350

10068500 BEAR RIVER AT PESCADERO, ID
(LAT 42°24'06", LONG 111°21'22")

OCT , 1982					MAY , 1983				
07...	0930	1140	7.5	510	03...	1600	523	10.0	560
NOV					JUN				
16...	0905	1400	3.0	590	07...	1835	1700	17.0	500
DEC					27...	0845	3610	20.0	540
15...	1515	1110	2.0	520	JUL				
JAN , 1983					06...	1850	3590	22.0	520
20...	1455	956	.5	550	AUG				
FEB					15...	0905	1930	13.0	375
16...	1400	1150	3.0	610	SEP				
APR					19...	1940	1660	14.0	630
06...	1530	1030	2.0	410					

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID
(LAT 42°32'15", LONG 111°34'20")

OCT , 1982					MAY , 1983				
08...	1255	8.7	4.5	280	25...	1825	91	10.5	225
NOV					JUN				
10...	1115	8.7	3.0	300	09...	1045	138	7.0	215
DEC					23...	1020	116	7.0	205
16...	1000	4.2	2.0	270	JUL				
FEB , 1983					06...	1500	53	12.5	230
08...	1420	2.8	3.0	280	AUG				
MAR					12...	1255	18	11.0	230
08...	1410	3.7	4.0	270	SEP				
APR					29...	1350	12	14.0	240
06...	1520	5.3	4.0	280					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

BEAR RIVER BASIN

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID
(LAT 42°43'45", LONG 111°36'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
08...	1415	20	9.0	740
NOV				
10...	0950	22	3.0	760
DEC				
16...	0840	16	4.0	750
FEB , 1983				
08...	1100	16	3.0	740
MAR				
08...	1050	18	2.5	740
APR				
06...	1505	27	11.0	850
APR , 1983				
25...	1210	34	8.0	800
27...	1630	34	8.0	800
MAY				
25...	1650	31	16.0	850
JUL				
06...	1245	30	13.5	780
AUG				
12...	1010	32	14.0	220
SEP				
29...	--	30	--	--

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID
(LAT 42°19'57", LONG 111°46'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
08...	1745	23	6.0	310
NOV				
10...	0830	21	3.0	300
DEC				
16...	1100	22	3.0	290
FEB , 1983				
08...	0900	19	3.0	350
MAR				
08...	0910	45	4.0	260
APR				
07...	1210	45	3.0	300
25...	0915	238	3.5	260
MAY , 1983				
04...	--	292	--	300
19...	1320	215	8.0	220
25...	1355	353	11.0	195
JUN				
09...	0820	205	10.0	225
23...	0825	92	10.0	280
AUG				
12...	0835	30	14.0	200
SEP				
29...	0955	22	9.5	300

10090500 BEAR RIVER NEAR PRESTON, ID
(LAT 42°10'05", LONG 111°50'59")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
09...	1620	2120	10.5	620
JAN , 1983				
25...	1045	1510	4.0	475
MAR				
12...	1300	2890	7.0	560
APR				
16...	1015	179	8.0	470
MAY				
21...	1245	3090	7.5	--
JUN , 1983				
14...	1330	3780	11.0	480
29...	1145	3640	18.5	470
JUL				
27...	0950	2520	21.0	530
AUG				
30...	1300	189	17.0	500

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE
(LAT 42°00'47", LONG 111°55'14")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
NOV , 1982				
23...	1330	2360	1.0	600
DEC				
21...	0940	1370	4.0	850
JAN , 1983				
25...	0850	2060	2.0	820
MAR				
12...	1620	2560	6.0	550
APR				
16...	1315	911	8.5	800
20...	1100	1080	7.0	750
25...	1830	3270	9.0	680
MAY , 1983				
21...	1730	1220	10.0	700
JUN				
14...	1510	4180	17.0	440
21...	1230	4820	10.0	540
JUL				
27...	1610	2730	22.5	580
AUG				
30...	0935	2880	13.0	660
SEP				
12...	1545	328	18.5	1100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

BEAR RIVER BASIN

10093000 CUB RIVER NEAR PRESTON, ID
(LAT 42°08'28", LONG 111°41'19")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
07...	0930	47	6.0	310
12...	1420	52	5.0	--
NOV				
23...	1050	39	3.0	235
DEC				
21...	1315	39	3.0	210
JAN , 1983				
25...	1340	30	1.0	240
FEB				
24...	1015	24	3.0	250
MAR				
23...	1000	42	5.0	--
APR				
20...	1350	67	8.0	250
MAY , 1983				
04...	1250	97	9.0	210
19...	1815	106	8.5	265
25...	1010	349	8.0	165
JUN				
01...	1025	670	6.0	250
07...	0915	604	9.0	190
29...	1530	582	8.0	220
JUL				
28...	1010	122	8.0	250
AUG				
25...	0915	65	9.0	230
SEP				
13...	1510	46	12.0	295

10099000 HIGH CREEK NEAR RICHMOND, UT
(LAT 41°58'40, LONG 111°44'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
07...	1200	23	7.0	215
NOV				
23...	1505	15	1.0	--
DEC				
21...	1350	12	3.0	200
JAN , 1983				
27...	0900	12	4.0	--
FEB				
24...	1240	16	4.5	200
MAR				
23...	1400	16	4.0	--
APR				
20...	0900	49	6.0	210
MAY , 1983				
04...	1450	66	8.0	175
25...	0830	124	7.0	240
JUN				
06...	1210	181	8.0	210
21...	1030	171	6.0	275
JUL				
28...	0820	42	6.0	300
AUG				
08...	1510	30	12.0	300
SEP				
12...	1220	16	8.5	310

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT
(LAT 41°30'45", LONG 111°48'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
05...	1330	46	9.5	360
28...	1120	42	5.0	360
DEC				
01...	1120	42	4.0	410
JAN , 1983				
29...	1330	33	4.5	--
MAR				
01...	1045	90	6.0	260
31...	1140	131	2.0	275
APR , 1983				
22...	1620	185	8.0	220
MAY				
05...	--	312	8.0	--
JUN				
08...	1050	371	7.0	240
JUL				
15...	1035	101	11.0	320
AUG				
22...	1040	64	12.0	360

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT
(LAT 41°31'06", LONG 111°42'49")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
28...	1350	11	6.5	370
DEC				
16...	1510	15	3.0	340
FEB , 1983				
17...	1350	14	2.0	310
APR				
07...	1535	49	8.0	310
MAY				
02...	1345	219	8.0	275
23...	1030	356	6.0	250
MAY , 1983				
26...	0915	488	7.0	--
JUN				
07...	--	255	--	--
JUL				
15...	--	40	--	--
AUG				
09...	1540	31	13.0	310
SEP				
07...	--	19	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

BEAR RIVER BASIN

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT
(LAT 41°35'25", LONG 111°51'10")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
28...	1000	99	5.0	340
DEC				
01...	0815	74	4.0	420
29...	1545	66	.5	440
JAN , 1983				
31...	0915	76	2.0	600
MAR				
01...	0855	114	6.0	290
04...	1710	154	4.5	280
31...	0925	213	4.0	300
APR				
22...	1840	282	7.5	260
APR , 1983				
29...	1045	320	7.0	320
MAY				
06...	1900	742	5.0	300
JUN				
01...	1810	638	7.5	275
30...	1350	180	14.5	350
AUG				
01...	1045	94	15.0	430
22...	--	193	16.0	--
31...	0910	137	13.0	300

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT
(LAT 41°44'35", LONG 111°45'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
28...	0810	8.6	5.0	380
NOV				
06...	1330	.10	5.5	320
DEC				
01...	0810	2.2	3.0	210
30...	1120	1.3	.5	360
JAN , 1983				
31...	0855	1.9	2.0	370
MAR				
01...	0815	1.3	4.5	300
31...	0830	1.4	2.0	380
APR , 1983				
28...	--	E.10	--	--
MAY				
31...	1010	32	9.0	320
JUN				
30...	1340	61	9.0	270
AUG				
01...	0940	59	10.0	280
SEP				
01...	1340	39	11.0	355

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT
(LAT 41°44'40", LONG 111°47'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
28...	0910	188	5.0	375
DEC				
01...	0915	187	3.0	210
30...	1335	125	1.5	360
JAN , 1983				
31...	1015	137	3.0	360
MAR				
01...	1010	132	4.5	200
31...	0940	168	5.0	390
APR				
28...	1315	291	5.0	320
MAY , 1983				
19...	1350	392	8.5	340
25...	1235	849	10.0	240
31...	0740	1410	9.0	320
JUN				
07...	1120	1280	8.0	225
10...	1230	1290	9.0	200
30...	1540	956	10.0	270
AUG				
01...	--	383	--	--
SEP				
01...	1105	245	10.5	330

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT
(LAT 41°37'18", LONG 111°44'42")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
28...	1535	125	6.0	400
DEC				
01...	1150	119	5.0	320
30...	1545	108	.5	390
JAN , 1983				
31...	1100	101	1.0	410
MAR				
01...	1145	104	4.0	275
31...	1135	150	5.0	360
MAY				
02...	0840	369	7.0	320
05...	--	491	7.0	--
MAY , 1983				
19...	1240	551	8.0	235
23...	1440	642	5.0	230
31...	1315	761	8.0	220
JUN				
30...	1640	297	11.0	360
AUG				
01...	1105	228	11.0	290
31...	1415	186	10.0	350

E Estimate

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
BEAR RIVER BASIN									
10126180 SULPHER CREEK NEAR CORINNE, UT (LAT 41°34'25", LONG 112°13'07")									
OCT , 1982					MAY , 1983				
21...	1220	71	13.0	2950	13...	1700	73	16.0	2000
DEC					JUN				
04...	1500	65	6.0	2000	10...	1500	82	24.5	1600
JAN , 1983					JUL				
08...	1415	22	6.0	4000	08...	1300	78	24.0	2200
FEB					AUG				
12...	1540	18	7.0	5000	10...	1440	91	28.0	2100
MAR					SEP				
05...	1510	82	9.0	2500	08...	--	93	--	1500
09...	1750	36	8.0	3600					
APR									
09...	1550	12	16.0	4000					
10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT (LAT 41°42'41", LONG 112°13'36")									
OCT , 1982					APR , 1983				
21...	1035	60	20.0	600	21...	1310	24	18.5	800
NOV					JUN				
29...	1415	26	17.0	810	03...	0910	27	18.0	780
JAN , 1983					JUL				
13...	1035	24	18.0	800	13...	1410	34	19.0	--
FEB					AUG				
19...	1425	21	18.0	800	12...	1440	51	22.0	1700
MAR					SEP				
26...	1545	28	18.0	780	16...	1225	53	18.5	900
10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT (LAT 41°30'36", LONG 112°03'34")									
OCT , 1982					MAY , 1983				
27...	1350	110	8.0	1250	13...	1425	168	13.0	1800
DEC					JUN				
04...	1310	140	5.0	1220	10...	1040	74	19.0	1500
JAN , 1983					JUL				
15...	1655	75	5.0	1280	08...	1100	33	24.0	1800
FEB					AUG				
05...	1220	83	2.0	1240	10...	1145	43	25.0	1500
MAR					SEP				
05...	1235	87	8.0	1300	08...	0825	88	18.0	1400
APR									
02...	1325	126	9.0	1600					
WEBER RIVER BASIN									
10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (LAT 40°47'09", LONG 111°06'42")									
OCT , 1982					APR , 1983				
06...	1305	103	4.0	81	26...	1200	31	3.0	160
NOV					JUN				
15...	1215	26	.0	170	01...	1250	483	5.0	85
DEC					06...	1150	510	5.0	70
16...	1045	20	1.0	215	22...	1300	564	7.0	<50
FEB , 1983					JUL				
25...	1245	16	2.5	230	29...	1410	55	16.0	60
APR									
07...	1105	15	1.5	165					
10128500 WEBER RIVER NEAR OAKLEY, UT (LAT 40°44'14", LONG 111°14'50")									
OCT , 1982					APR , 1983				
06...	1450	275	7.0	150	26...	1355	194	6.0	265
NOV					JUN				
15...	1120	79	.0	240	01...	1045	1980	5.0	165
DEC					22...	1130	2090	7.0	120
16...	1240	95	1.5	230	JUL				
JAN , 1983					29...	1205	242	13.0	150
28...	1200	80	2.0	260	AUG				
FEB					31...	1120	223	10.5	200
25...	1000	67	2.0	240	SEP				
MAR					28...	--	138	--	--
31...	1300	83	4.0	250					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
BEAR RIVER BASIN									
10130500 WEBER RIVER NEAR COALVILLE, UT (LAT 40°53'43", LONG 111°24'04")									
NOV , 1982					MAY , 1983				
15...	1505	209	6.0	340	23...	1230	662	9.5	360
DEC					JUN				
29...	1510	271	1.0	345	06...	--	1610	10.0	280
FEB , 1983					13...	1230	1860	10.0	245
04...	1455	277	2.0	390	JUL				
23...	1515	195	5.5	375	06...	1230	829	16.0	250
MAR					AUG				
29...	1635	410	5.5	360	17...	1015	228	12.0	375
APR					SEP				
27...	1300	320	7.0	400	15...	1125	235	14.0	350
10131000 CHALK CREEK AT COALVILLE, UT (LAT 40°55'14", LONG 111°24'03")									
NOV , 1982					MAY , 1983				
15...	1345	22	3.0	690	25...	0950	899	7.0	440
DEC					JUN				
29...	1340	30	.0	650	02...	--	1340	--	--
FEB , 1983					23...	1305	551	13.0	410
04...	1340	24	1.0	660	JUL				
23...	1355	21	3.5	640	06...	1350	248	16.5	510
MAR					28...	0910	108	14.0	590
29...	1350	40	4.5	630	AUG				
APR					17...	1255	119	16.5	590
27...	1100	224	4.0	590	SEP				
MAY					15...	1320	68	14.0	560
23...	1015	660	20.0	--					
10134500 EAST CANYON CREEK NEAR MORGAN, UT (LAT 40°55'21", LONG 111°36'23")									
NOV , 1982					MAY , 1983				
15...	1025	7.4	8.0	590	23...	1450	281	7.5	500
DEC					JUN				
27...	1200	35	1.0	560	02...	1525	618	17.5	--
FEB , 1983					JUL				
04...	1200	58	3.0	570	06...	1615	131	19.0	440
23...	1210	48	4.0	570	SEP				
MAR					15...	1520	230	12.5	550
29...	1145	242	4.0	550					
APR									
27...	1515	122	6.0	540					
10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (LAT 41°16'07", LONG 111°40'24")									
OCT , 1982					MAY , 1983				
04...	1045	62	8.0	350	18...	1215	461	6.0	230
NOV					26...	1130	952	8.5	125
08...	1230	49	5.0	360	27...	--	1230	9.0	200
JAN , 1983					JUN				
20...	1230	100	3.5	365	01...	1145	1220	8.5	205
FEB					JUL				
23...	1230	62	3.5	330	12...	1500	136	18.0	300
MAR					AUG				
30...	1440	134	7.0	255	18...	1345	107	12.5	335
APR									
25...	1330	452	5.0	205					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
BEAR RIVER BASIN									
10139300 WHEELER CREEK NEAR HUNTSVILLE, UT (LAT 41°15'14", LONG 111°50'32")									
OCT , 1982					APR , 1983				
04...	1250	7.1	8.5	330	25...	1350	55	4.5	320
NOV					MAY				
08...	1510	5.5	6.0	340	18...	1430	58	6.5	260
JAN , 1983					JUN				
20...	1415	3.5	4.0	405	01...	1400	102	9.5	270
FEB					JUL				
23...	1500	4.4	3.5	410	12...	1720	22	12.5	260
MAR					AUG				
30...	1745	45	4.0	325	18...	1545	9.8	13.0	370
10141040 HOOPER SLOUGH NEAR HOOPER, UT (LAT 41°11'26", LONG 112°09'07")									
OCT , 1982					MAY , 1983				
14...	1400	11	12.0	1300	19...	1415	32	8.0	980
JAN , 1983					JUN				
11...	1615	8.0	3.0	1330	07...	1505	35	20.5	570
FEB					JUL				
24...	1250	14	4.0	1300	19...	1540	20	23.5	810
APR					AUG				
05...	1310	14	6.0	1110	25...	1500	45	22.0	690
JORDAN RIVER BASIN									
10146400 CURRANT CREEK NEAR MONA, UT (LAT 39°48'09", LONG 111°51'44")									
OCT , 1982					MAY , 1983				
04...	1430	38	12.0	2250	03...	2035	218	13.0	1620
NOV					11...	--	373	--	--
17...	1630	45	6.5	2240	13...	1230	250	9.0	--
DEC					JUN				
15...	1620	37	1.5	2680	27...	1830	147	26.5	--
JAN , 1983					JUL				
19...	1205	67	1.0	2450	18...	1600	24	20.5	1325
FEB					AUG				
09...	1135	87	2.5	2320	18...	1600	40	20.0	1800
MAR					SEP				
17...	1635	110	7.0	1700	12...	1605	30	18.0	910
APR									
13...	1125	118	6.0	2060					
10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (LAT 39°57'00", LONG 111°12'58")									
OCT , 1982					MAY , 1983				
12...	1145	5.2	4.5	650	05...	1635	34	10.5	670
NOV					10...	1510	40	8.5	670
22...	1450	4.5	3.0	640	24...	0850	52	6.0	670
DEC					JUN				
08...	1350	4.1	3.5	660	01...	1935	74	9.0	590
JAN , 1983					30...	1510	28	--	--
28...	1400	3.6	5.0	620	AUG				
MAR					03...	1305	16	15.0	660
01...	1535	5.2	6.5	510					
APR									
14...	1515	9.0	8.0	660					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
JORDAN RIVER BASIN									
10150500 SPANISH FORK AT CASTILLA, UT (LAT 40°02'59", LONG 111°32'50")									
OCT , 1982					MAY , 1983				
12...	0745	139	6.0	760	31...	--	2680	--	--
NOV					JUN				
22...	1225	125	4.5	810	02...	--	2820	--	--
JAN , 1983					06...	--	2530	--	--
27...	1000	113	4.5	800	14...	--	1570	--	--
MAR					20...	--	1150	--	--
08...	0805	203	4.5	760	JUL				
APR					01...	--	605	--	--
14...	1145	340	6.5	820	AUG				
19...	--	184	--	--	08...	1555	376	24.0	700
MAY					SEP				
10...	0915	537	4.5	580	28...	1010	232	13.5	840
18...	0935	521	6.5	680					
24...	1330	1340	9.0	560					
10152000 SPANISH FORK NEAR LAKESHORE, UT (LAT 40°09'30", LONG 111°43'50")									
OCT , 1982					APR , 1983				
18...	1630	158	9.5	700	14...	1230	397	7.0	760
NOV					MAY				
18...	1625	135	5.5	780	31...	--	3110	--	--
JAN , 1983					JUN				
27...	1610	138	5.0	820	16...	1120	929	13.0	560
FEB					JUL				
24...	1225	158	7.0	810	21...	1120	62	18.0	800
10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT (LAT 40°35'48", LONG 111°05'48")									
OCT , 1982					JUN , 1983				
15...	1030	35	3.0	<50	02...	1115	272	4.0	<50
NOV					06...	1525	270	5.0	<50
16...	1355	18	.0	<50	JUL				
JAN , 1983					21...	1525	41	13.0	<50
20...	1120	10	.0	<50	AUG				
MAY					08...	1040	51	12.0	<50
03...	1305	21	3.5	65	SEP				
24...	1435	90	7.0	--	14...	1625	27	13.5	<50
29...	1130	321	5.0	<50					
10154200 PROVO RIVER NEAR WOODLAND, UT (LAT 40°33'28", LONG 111°10'05")									
OCT , 1982					MAY , 1983				
15...	1325	136	7.0	145	23...	--	366	--	--
NOV					29...	1415	1690	9.0	82
17...	1545	111	2.5	165	JUN				
JAN , 1983					02...	1335	1670	5.5	91
24...	1325	71	2.0	215	06...	1310	1520	6.0	92
FEB					JUL				
24...	1725	82	3.5	200	21...	1420	318	13.0	119
MAR					AUG				
28...	1118	73	2.0	210	12...	1230	202	14.0	130
APR					SEP				
13...	--	80	3.0	--	14...	1500	148	14.5	145
10155000 PROVO RIVER NEAR HAILSTONE, UT (LAT 40°36'03", LONG 111°21'35")									
OCT , 1982					MAY , 1983				
18...	1105	159	5.0	165	24...	--	797	--	--
NOV					29...	--	1810	--	--
17...	1420	122	2.0	210	JUN				
JAN , 1983					06...	1105	1840	6.0	--
24...	1535	82	2.0	215	JUL				
FEB					20...	--	311	--	--
24...	1505	80	4.5	220	AUG				
MAR					08...	1345	247	18.0	145
28...	1330	99	2.5	220	SEP				
APR					14...	1710	194	14.0	180
13...	1245	103	3.5	230					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
JORDAN RIVER BASIN									
10159500 PROVO RIVER BELOW DEER CREEK DAM, UT (LAT 40°24'12", LONG 111°31'44")									
OCT , 1982					JUN , 1983				
18...	1345	408	12.0	385	02...	1650	2240	11.0	335
NOV					07...	1620	2040	14.0	225
17...	1205	513	8.0	380	JUL				
JAN , 1983					19...	--	377	--	--
25...	1610	237	3.5	445	AUG				
FEB					12...	1450	481	11.5	265
23...	1345	230	3.0	360	SEP				
MAR					14...	1215	460	14.0	265
03...	--	356	--	470					
APR									
15...	1310	514	7.0	380					
10163000 PROVO RIVER AT PROVO, UT (LAT 40°14'16", LONG 111°41'55")									
OCT , 1982					JUN , 1983				
12...	1520	305	11.0	380	02...	1945	2430	11.5	325
NOV					07...	1330	1940	12.5	300
18...	1415	597	8.0	380	JUL				
JAN , 1983					19...	1155	37	15.0	390
25...	1225	317	4.0	420	AUG				
FEB					11...	1345	148	15.5	315
24...	0950	299	3.5	435	SEP				
MAR					13...	1345	173	15.5	310
24...	1355	368	3.0	465					
APR									
15...	1000	552	6.0	400					
10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT (LAT 40°26'52", LONG 111°40'53")									
OCT , 1982					APR , 1983				
12...	1230	52	5.5	360	13...	--	29	--	--
NOV					JUN				
18...	1140	43	4.5	390	01...	1020	664	5.0	315
JAN , 1983					AUG				
24...	1030	24	2.0	465	11...	1145	109	11.0	--
FEB					SEP				
23...	1030	22	2.0	485	12...	1210	61	10.5	370
MAR									
24...	1130	31	2.5	--					
10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT (LAT 40°38'43", LONG 111°55'18")									
DEC , 1982					APR , 1983				
21...	1210	1080	3.0	1390	27...	1310	1270	11.5	1310
29...	1500	1140	1.0	1430	29...	1640	1280	12.5	1430
JAN , 1983					MAY				
31...	1500	1240	4.0	1380	17...	--	1370	--	--
FEB					JUL				
02...	1500	1140	2.0	1410	13...	1500	1740	23.0	1200
10...	--	1250	4.0	1310	AUG				
MAR					04...	1600	1350	26.5	1270
16...	1210	1130	7.0	1310					
29...	1050	1170	7.0	1500					
10170500 SURPLUS CANAL AT SALT LAKE CITY, UT (LAT 40°43'37", LONG 111°55'33")									
NOV , 1982					MAY , 1983				
17...	1600	970	4.0	1460	31...	1115	2940	11.0	780
18...	1145	969	4.5	1470	JUN				
JAN , 1983					03...	1330	2880	15.5	900
12...	1515	1060	2.5	1490	19...	--	3170	--	--
FEB					JUL				
16...	1430	1160	4.0	1430	14...	1630	2040	20.5	1060
MAR					AUG				
28...	1200	1420	7.5	1450	08...	1515	1370	26.0	1280
APR					19...	1045	2390	19.5	1120
19...	1210	1470	9.0	1420					
MAY									
06...	1515	1800	11.0	1230					
16...	1130	2000	8.0	1180					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
RUSH VALLEY									
10172700 VERNON CREEK NEAR VERNON, UT (LAT 39°58'46", LONG 112°22'46")									
OCT , 1982					MAY , 1983				
05...	1400	5.8	9.0	470	03...	1415	40	8.5	520
NOV					05...	1350	54	9.0	--
16...	1305	4.2	6.5	470	22...	1855	45	13.5	380
DEC					JUN				
16...	1320	4.6	4.0	460	07...	1105	24	10.0	--
JAN , 1983					JUL				
17...	1135	4.3	5.0	460	12...	1455	12	18.0	540
FEB					AUG				
15...	0920	4.2	3.0	460	15...	1030	10	12.0	570
MAR					SEP				
16...	1655	11	7.5	560	19...	1730	9.6	12.0	530
APR									
11...	0910	11	6.0	650					
TOOELE VALLEY									
10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°29'47", LONG 112°34'25")									
OCT , 1982					MAY , 1983				
13...	1115	6.8	7.0	280	31...	--	68	--	--
NOV					JUN				
17...	--	5.2	--	--	06...	1025	49	7.5	240
JAN , 1983					08...	1135	41	7.0	240
05...	--	4.2	--	--	17...	--	38	--	--
FEB					JUL				
17...	--	3.9	--	--	01...	1035	26	--	200
MAR					AUG				
30...	0945	4.9	11.0	335	15...	1220	14	10.0	290
MAY					SEP				
04...	0945	11	7.0	370	14...	1225	8.9	9.5	295
24...	1035	24	--	--					
10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°31'58", LONG 112°34'19")									
OCT , 1982					JUN , 1983				
13...	1400	4.7	9.0	230	01...	--	73	--	--
NOV					06...	1200	50	9.0	215
19...	--	3.7	5.0	--	08...	1345	43	10.0	220
JAN , 1983					17...	0950	29	12.5	250
12...	--	3.6	2.5	--	JUL				
FEB					01...	1235	22	8.5	215
17...	--	3.2	--	--	AUG				
MAR					15...	1035	5.8	10.5	300
29...	0945	5.9	7.0	300	SEP				
MAY					14...	1050	4.2	11.0	310
04...	1135	20	8.0	330					
24...	--	44	--	--					
10172870 TROUT CREEK NEAR CALLAO, UT (LAT 39°44'39", LONG 113°53'21")									
OCT , 1982					MAY , 1983				
06...	1525	9.4	7.0	95	04...	1655	10	8.0	380
NOV					26...	1300	67	7.0	130
16...	1805	4.3	1.0	85	JUN				
DEC					13...	1600	71	8.0	--
20...	1110	3.1	1.5	90	JUL				
JAN , 1983					13...	1855	19	11.0	85
17...	1755	3.4	1.0	90	AUG				
FEB					15...	1645	5.6	14.0	120
16...	1505	3.1	2.5	100	SEP				
MAR					07...	1805	4.4	13.0	135
10...	1720	5.6	6.0	150					
APR									
11...	1445	5.7	1.5	240					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER									
10172952 DUNN CREEK NEAR PARK VALLEY, UT									
(LAT 41°51'31", LONG 113°19'35")									
OCT , 1982					JUN , 1983				
14...	1240	2.8	12.0	--	08...	0930	85	7.0	200
DEC					JUL				
17...	0910	2.1	4.0	270	19...	0950	15	11.0	160
FEB , 1983					AUG				
17...	0940	1.6	2.0	290	03...	0900	9.8	10.0	210
APR					SEP				
08...	0925	3.2	4.0	260	14...	1115	3.4	15.5	230
MAY									
17...	1310	13	7.0	290					
28...	1410	125	6.0	400					
SEVIER LAKE BASIN									
10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT									
(LAT 37°37'19", LONG 112°31'07")									
OCT , 1982					MAY , 1983				
06...	1350	33	6.5	195	26...	1415	331	8.5	185
NOV					JUN				
08...	1415	24	3.0	205	09...	1430	635	10.0	165
JAN , 1983					JUL				
12...	1320	12	.0	240	26...	1310	143	12.0	200
MAR					SEP				
21...	1135	16	2.5	245	01...	1110	75	9.0	200
APR									
18...	1245	19	8.0	270					
10174500 SEVIER RIVER AT HATCH, UT									
(LAT 37°39'04", LONG 112°25'46")									
OCT , 1982					APR , 1983				
06...	--	91	8.0	320	18...	1055	94	6.0	410
NOV					MAY				
08...	1250	81	6.0	325	26...	1125	948	7.5	300
DEC					31...	1410	1260	12.0	250
16...	1250	62	2.5	355	JUL				
JAN , 1983					26...	1105	291	12.0	280
11...	1120	73	.5	360	SEP				
FEB					01...	0945	164	12.0	290
09...	1205	64	4.0	345					
28...	1350	71	7.0	350					
10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT									
(LAT 38°06'15", LONG 112°20'08")									
OCT , 1982					MAY , 1983				
06...	1015	164	6.0	440	31...	1105	1640	12.5	295
NOV					JUN				
08...	1045	152	5.5	445	09...	1045	1260	12.5	300
DEC					JUL				
16...	1015	129	.0	450	18...	1320	361	17.0	370
JAN , 1983					AUG				
13...	1305	142	1.0	435	08...	1400	311	19.5	410
FEB					SEP				
28...	1135	181	5.5	440	12...	1415	166	17.5	430
APR									
20...	1045	225	9.0	400					
10183500 SEVIER RIVER NEAR KINGSTON, UT									
(LAT 38°12'22", LONG 112°12'25")									
OCT , 1982					APR , 1983				
04...	1105	151	9.0	480	28...	1045	299	7.0	420
28...	1210	156	4.0	485	MAY				
DEC					23...	1100	721	13.0	340
14...	1050	162	3.0	510	JUN				
JAN , 1983					03...	1030	1570	11.0	415
12...	1030	140	.5	450	30...	1040	660	14.0	315
FEB					AUG				
23...	1120	193	6.5	465	11...	1035	174	17.5	465
MAR					31...	1235	282	18.0	425
29...	1015	180	8.0	520					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
SEVIER LAKE BASIN									
10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT (LAT 37°34'33", LONG 112°15'54")									
OCT , 1982					JUL , 1983				
07...	1320	12	8.0	470	20...	--	27	--	455
MAY , 1983					SEP				
10...	1000	181	5.0	425	08...	1400	18	16.0	465
JUN									
03...	1450	245	8.0	455					
10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT (LAT 38°11'49", LONG 112°09'01")									
OCT , 1982					MAY , 1983				
04...	1205	21	9.5	580	23...	1400	593	13.0	370
28...	1305	21	9.0	580	26...	1030	1060	11.0	--
DEC					JUN				
14...	1100	23	.5	620	08...	1240	812	12.0	--
JAN , 1983					30...	1115	125	17.0	460
12...	1215	12	.5	510	JUL				
FEB					12...	--	77	--	--
23...	1200	86	7.0	450	AUG				
MAR					04...	1255	84	21.0	485
29...	1120	167	8.0	440	31...	1345	106	19.0	445
APR									
28...	1245	275	10.0	420					
10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT (LAT 38°34'20", LONG 112°15'27")									
OCT , 1982					MAR , 1983				
04...	1335	69	12.0	520	31...	0900	50	10.0	530
NOV					APR				
16...	1110	43	3.0	560	28...	0940	530	9.5	460
DEC					MAY				
14...	1310	267	3.0	500	17...	1300	931	8.0	460
JAN , 1983					JUN				
13...	1030	283	.5	510	29...	1125	1570	17.0	340
FEB					AUG				
17...	1040	408	3.0	510	11...	1300	304	20.5	420
10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT (LAT 38°34'45", LONG 112°17'22")									
OCT , 1982					APR , 1983				
04...	1450	23	10.5	175	27...	1510	141	9.0	280
NOV					MAY				
16...	1235	12	2.0	340	26...	0800	396	6.0	155
DEC					JUN				
14...	--	8.6	--	260	09...	0935	332	7.0	130
JAN , 1983					29...	1240	219	11.5	110
13...	1005	8.9	.5	250	JUL				
FEB					14...	1035	104	17.0	--
17...	1115	8.3	3.0	275	AUG				
MAR					04...	1115	78	17.0	240
31...	0945	46	5.5	280	31...	1050	29	14.0	225
10205000 SEVIER RIVER NEAR SIGURD, UT (LAT 38°52'13", LONG 111°57'14")									
OCT , 1982					MAY , 1983				
13...	1710	131	10.0	990	25...	1730	921	19.0	630
NOV					JUN				
19...	1115	133	7.0	980	29...	0845	1350	21.0	520
FEB , 1983					AUG				
02...	1330	455	2.5	700	04...	0815	257	21.0	900
MAR					31...	0900	32	19.5	1200
10...	1030	534	7.5	670					
APR									
20...	1050	501	7.0	640					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
SEVIER LAKE BASIN									
10205030 SALINA CREEK NEAR EMERY, UT (LAT 38°54'43", LONG 111°31'47")									
OCT , 1982					MAY , 1983				
14...	0925	11	1.5	425	03...	1300	19	7.0	560
NOV					AUG				
18...	1215	9.9	1.0	425	04...	0820	38	10.0	490
FEB , 1983					SEP				
03...	0815	2.9	.0	520	08...	0945	27	8.5	445
10206000 SALINA CREEK AT SALINA, UT (LAT 38°57'24", LONG 111°51'58")									
OCT , 1982					APR , 1983				
13...	1525	14	10.0	950	26...	1625	133	7.0	630
NOV					JUN				
19...	0955	34	2.0	--	06...	1705	523	12.0	465
DEC					AUG				
22...	1700	24	4.0	870	04...	1420	57	21.0	770
FEB , 1983					SEP				
03...	0830	6.0	.0	1440	08...	1300	20	18.0	1130
MAR									
10...	0830	40	2.0	990					
10208500 OAK CREEK NEAR FAIRVIEW, UT (LAT 39°40'26", LONG 111°24'30")									
OCT , 1982					MAY , 1983				
13...	1115	4.3	4.5	470	31...	1500	324	6.0	475
JAN , 1983					JUN				
28...	1035	3.9	2.0	435	08...	1135	188	10.5	485
MAR					29...	0750	63	7.5	485
03...	1700	5.0	4.0	450	AUG				
APR					09...	1255	8.9	10.0	465
13...	0915	7.1	2.0	560					
MAY									
03...	1635	21	5.5	600					
26...	1100	124	6.5	520					
10215700 OAK CREEK NEAR SPRING CITY, UT (LAT 39°26'52", LONG 111°25'29")									
OCT , 1982					MAY , 1983				
13...	1315	6.7	4.5	430	31...	1840	103	4.5	--
JAN , 1983					JUN				
27...	1400	4.6	3.5	400	08...	1445	111	7.0	375
MAR					28...	1415	84	9.5	425
03...	1330	3.9	4.5	400	AUG				
APR					09...	2005	17	17.0	420
13...	1315	4.0	4.0	450					
MAY									
03...	1300	5.0	6.0	435					
26...	1315	30	7.0	400					
10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT (LAT 39°15'33", LONG 111°34'45")									
OCT , 1982					MAY , 1983				
13...	1510	14	6.5	540	03...	1100	21	4.5	660
JAN , 1983					26...	1700	241	10.5	--
26...	1235	6.5	1.0	455	31...	--	463	--	--
MAR					JUN				
03...	1030	6.6	4.0	580	28...	1040	261	7.0	520
APR					AUG				
13...	1655	9.7	3.0	620	10...	1045	40	13.5	510
10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT (LAT 39°09'19", LONG 111°52'37")									
OCT , 1982					MAR , 1983				
13...	1330	327	10.5	1890	09...	1620	1380	8.5	2700
NOV					APR				
18...	1700	536	6.0	1610	27...	0955	1080	9.0	1120
DEC					AUG				
22...	1400	696	4.0	1290	03...	1500	563	22.0	1630
FEB , 1983					SEP				
02...	1625	737	4.0	1190	07...	1315	348	18.5	2070

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
SEVIER LAKE BASIN									
10219000 SEVIER RIVER NEAR JUAB, UT (LAT 39°22'29", LONG 112°02'20")									
OCT , 1982					MAY , 1983				
13...	1025	4.6	9.5	2020	03...	1300	1240	10.0	1520
NOV					23...	1530	2270	18.0	1440
17...	1330	3.9	9.0	1980	JUN				
DEC					28...	1330	4840	19.5	--
22...	1000	310	3.5	2000	AUG				
FEB , 1983					22...	1230	1780	22.5	1230
03...	1230	407	3.5	2000	30...	1035	74	21.5	1710
MAR									
09...	1235	1550	5.5	1800					
10219200 CHICKEN CREEK NEAR LEVAN, UT (LAT 39°33'08", LONG 111°49'45")									
OCT , 1982					MAY , 1983				
04...	1125	4.1	7.0	680	03...	1840	83	8.5	550
NOV					31...	1735	374	12.0	580
17...	1425	2.9	4.5	710	JUN				
DEC					07...	--	148	--	--
15...	1255	3.8	1.0	680	27...	1605	45	16.0	--
JAN , 1983					JUL				
19...	1605	4.5	4.0	690	15...	1340	24	16.5	890
FEB					AUG				
09...	1430	4.2	6.0	690	18...	1250	16	16.0	880
MAR					SEP				
17...	1350	18	6.0	610	12...	1315	11	16.5	910
APR									
13...	1420	18	9.0	750					
10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT (LAT 39°21'23", LONG 112°13'55")									
OCT , 1982					JUN , 1983				
06...	0840	3.4	4.0	--	15...	1240	26	10.5	155
NOV					JUL				
16...	1035	2.8	3.5	145	19...	1245	3.2	12.0	285
JAN , 1983					AUG				
26...	1325	2.8	4.0	--	30...	1435	2.2	15.0	305
MAY					SEP				
03...	1655	34	8.0	165	21...	1135	2.1	8.0	300
17...	1525	30	8.0	160					
10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT (LAT 39°21'11", LONG 112°17'07")									
OCT , 1982					MAY , 1983				
06...	--	6.4	--	--	03...	1525	82	9.5	320
NOV					17...	1400	89	9.0	340
16...	1235	7.1	5.0	330	JUN				
DEC					15...	1125	83	10.0	430
21...	1140	8.6	8.0	355	JUL				
JAN , 1983					19...	1140	28	7.0	510
26...	1530	11	7.5	375	AUG				
FEB					30...	1325	14	12.5	520
23...	1420	14	8.0	335	SEP				
MAR					21...	1015	9.9	8.0	510
29...	1135	28	7.5	355					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
BEAVER RIVER BASIN									
10234500 BEAVER RIVER NEAR BEAVER, UT (LAT 38°16'49", LONG 112°34'01")									
OCT , 1982					JUN , 1983				
25...	1110	32	6.5	125	06...	--	614	--	--
NOV					16...	1250	642	8.0	66
23...	1255	25	1.5	125	27...	--	E500	--	--
DEC					JUL				
21...	1130	24	1.5	120	19...	1025	148	10.5	89
JAN , 1983					25...	1100	128	13.0	94
26...	1315	22	2.5	130	28...	1000	109	12.0	--
FEB					AUG				
23...	1230	21	3.0	140	01...	1110	112	13.0	99
MAR					10...	1010	91	13.0	105
25...	1055	25	2.0	145	25...	1105	90	13.0	105
APR					SEP				
25...	1015	84	3.0	120	26...	1135	52	10.0	115
MAY									
24...	1045	328	4.5	76					
27...	1230	488	6.5	68					
10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT (LAT 38°13'03", LONG 112°50'22")									
OCT , 1982					JUN , 1983				
13...	1235	7.1	13.0	580	27...	1045	609	15.5	210
25...	1310	7.5	13.0	590	JUL				
DEC					12...	1100	179	17.0	230
20...	1320	11	11.0	590	28...	1250	138	19.5	265
FEB , 1983					AUG				
10...	1420	70	7.0	530	10...	1300	80	19.5	320
MAR					SEP				
25...	1250	81	8.0	530	14...	1305	115	19.0	365
APR									
25...	1330	116	10.5	510					
PAROWAN VALLEY									
10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT (LAT 37°47'35", LONG 112°48'55")									
OCT , 1982					JUN , 1983				
08...	1110	5.3	4.0	295	09...	1045	22	7.5	240
NOV					JUL				
18...	1240	5.0	4.5	310	13...	1415	37	11.0	170
FEB , 1983					AUG				
17...	1215	4.4	2.5	330	12...	0935	12	10.0	245
APR					SEP				
01...	1150	5.0	6.0	360	13...	1120	7.6	8.5	245
MAY									
05...	1215	8.7	8.0	350					
25...	1440	18	10.5	290					
10241600 SUMMIT CREEK NEAR SUMMIT, UT (LAT 37°47'13", LONG 112°54'56")									
OCT , 1982					MAY , 1983				
08...	1230	2.4	5.0	420	25...	1315	53	8.5	335
NOV					JUN				
16...	0900	1.4	.5	495	09...	1215	53	9.0	350
JAN , 1983					JUL				
05...	1215	2.1	2.5	455	14...	1230	8.3	15.0	445
FEB					AUG				
17...	1330	1.6	5.0	440	12...	1050	5.5	15.0	415
APR					SEP				
01...	1325	4.5	9.0	510	13...	1250	3.4	13.5	395
MAY									
05...	1545	9.4	10.0	580					

E Estimate

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)

PAROWAN VALLEY
10242000 COAL CREEK NEAR CEDAR CITY, UT
(LAT 37°40'20", LONG 113°02'02")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
08...	1420	14	9.5	510
NOV				
16...	1050	14	.0	570
JAN , 1983				
06...	1410	19	1.0	540
FEB				
09...	1440	14	5.5	600
APR				
01...	1445	28	10.5	700
MAY				
09...	1410	164	8.0	440
22...	2055	662	5.5	265
MAY , 1983				
24...	2030	809	6.0	280
26...	2000	804	6.5	275
JUN				
13...	1455	404	10.0	365
JUL				
13...	0910	78	10.0	475
AUG				
12...	1240	36	18.0	560
SEP				
16...	1030	19	11.0	550

RAFT RIVER BASIN
13077700 GEORGE CREEK NEAR YOST, UT
(LAT 41°55'07", LONG 113°28'51")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1982				
14...	1015	4.1	5.0	--
DEC				
17...	1020	2.7	2.0	360
FEB , 1983				
17...	1015	2.2	2.0	410
APR				
08...	1025	2.8	4.5	360
MAY				
17...	0910	7.0	4.0	310
JUN , 1983				
08...	1410	122	10.0	270
JUL				
19...	1350	15	14.0	110
AUG				
03...	1725	8.2	13.0	250
SEP				
14...	1650	4.5	14.0	150

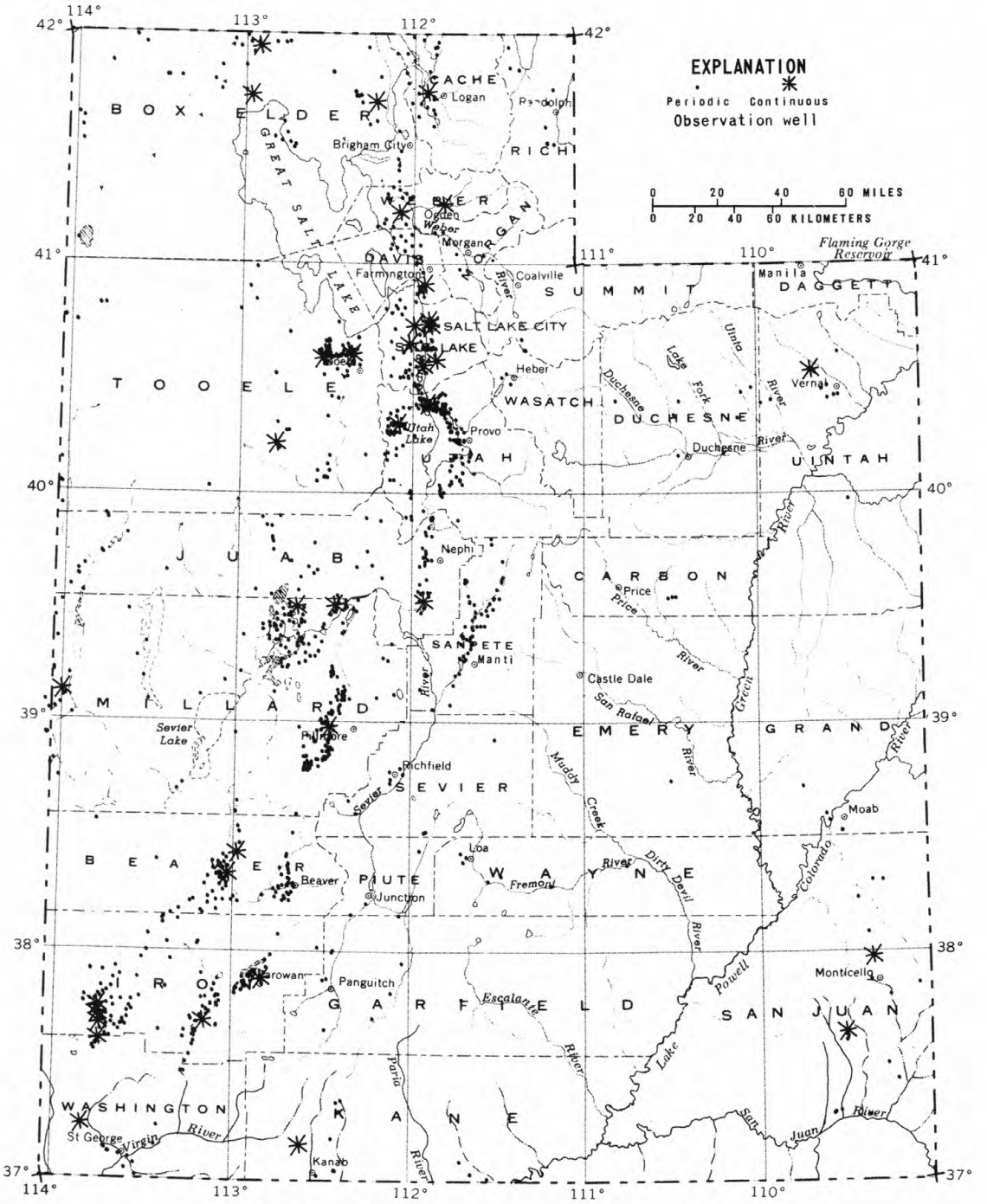

Figure 13.—Location of observation wells in Utah where data were obtained on ground-water levels.

BEAVER COUNTY

382551112555101. LOCAL NUMBER, (C-27-10)25cbd-1.
LOCATION.--Lat 38°25'51", long 112°55'51", Hydrologic Unit 16030007.
Owner: Phillips Petroleum.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled well, diameter 6 in., depth 400 ft.
DATUM.--Land-surface datum is 5,320 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 323.75 ft below land-surface datum, May 15, 1976; lowest, 326.29 ft below land-surface datum, July 10, Aug. 25, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	325.83	325.95	325.92	326.05	326.11	326.25	326.03	326.11	326.22	326.17	326.25	326.24
10	325.89	325.94	325.91	326.08	326.10	325.96	326.04	326.13	326.11	326.29	326.26	326.31
15	325.96	325.94	325.91	325.92	326.02	326.08	326.06	326.15	326.10	326.10	326.27	326.22
20	325.90	325.93	325.90	325.89	326.15	326.11	326.07	326.16	326.12	326.27	326.28	326.41
25	325.92	325.93	326.15	326.01	326.01	326.01	326.08	326.18	326.17	326.20	326.29	326.31
EOM	325.95	325.92	326.11	326.09	326.16	326.01	326.10	325.98	326.13	326.22	326.21	326.19

382020112585901. LOCAL NUMBER, (C-28-10)28cdd-1.
LOCATION.--Lat 38°20'20", Long 112°58'59", Hydrologic Unit 16030007.
Owner: Wiseman.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in., depth 360 ft, cased to 60 ft.
DATUM.--Land-surface datum is 5,019 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.56 ft below land-surface datum, Oct. 7, 1952; lowest, 59.26 below land-surface datum, Oct. 8, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.21	29.51	29.77	30.08	30.64	31.22	31.53	30.73	31.12	27.36	23.97	22.22
10	30.46	29.41	29.69	30.25	30.76	31.36	31.58	30.72	30.86	27.30	23.01	21.27
15	30.03	29.40	29.79	30.27	30.89	31.47	31.67	30.53	30.03	26.69	22.93	20.78
20	29.73	29.40	29.81	30.27	31.02	31.49	31.47	30.34	28.44	26.73	21.69	19.88
25	29.54	29.49	29.88	30.41	31.04	31.45	30.81	31.37	27.76	26.76	20.58	18.85
EOM	29.48	29.34	30.01	30.55	31.11	31.50	30.73	31.53	27.11	25.68	22.10	18.59

BOX ELDER COUNTY

414236112101201. LOCAL NUMBER, (B-11-3)10abb-4.
LOCATION.--Lat 41°42'36", long 112°10'12", Hydrologic Unit 16010204.
Owner: Rocky Mountain Packing Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 705 ft, cased to 437 ft.
DATUM.--Land-surface datum is 4,318 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--October 1979 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.15 ft below land-surface datum, Sept. 30, 1983; lowest, 24.43 ft below land-surface datum, Mar. 5, 9, 10, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.52	21.62	21.59	21.89	21.88	21.78	21.63	20.92	19.79	18.52	17.76	17.25
10	21.61	21.53	21.66	21.88	21.90	21.95	21.54	20.84	19.55	18.34	17.64	17.20
15	21.62	21.65	21.67	21.94	21.95	21.86	21.46	20.68	19.34	18.16	17.59	17.22
20	21.62	21.51	21.71	21.81	21.96	21.75	21.34	20.51	19.06	18.04	17.42	17.20
25	21.59	21.65	21.66	21.87	21.90	21.67	21.22	20.31	18.87	17.94	17.36	17.23
EOM	21.54	21.44	21.83	21.84	21.90	21.71	21.07	19.98	18.64	17.86	17.33	17.15

BOX ELDER--Continued

415703112514501. LOCAL NUMBER, (B-14-9)9add-1.
LOCATION.--Lat 41°57'03", long 112°51'45", Hydrologic Unit 16020309.
Owner: Hogan.
AQUIFER.--Basalt.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 20 in., depth 400 ft, cased to 395 ft.
DATUM.--Land-surface datum is 4,384 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--July 1981 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 165.67 below land-surface datum, May 26, 1983; lowest, 177.03 below land-surface datum, Oct. 1, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	170.66	168.54	167.79	166.96	166.65	166.35	166.05	165.75	168.54	169.61	172.32	170.88
10	170.16	168.35	167.63	166.91	166.60	166.30	166.00	165.70	167.50	169.66	173.11	171.37
15	169.77	168.21	167.64	166.86	166.55	166.25	165.95	165.70	168.88	170.15	171.41	171.36
20	169.41	168.12	167.48	166.81	166.50	166.20	165.90	165.69	169.94	171.40	169.88	170.29
25	169.01	168.03	167.06	166.75	166.45	166.15	165.85	165.69	170.30	171.68	169.12	169.42
EOM	168.80	167.35	167.01	166.70	166.40	166.10	165.80	166.36	170.48	172.78	170.53	168.79

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.
LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.
Owner: U.S. Geological Survey.
AQUIFER.--Basalt.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 162 ft, cased to 131 ft.
DATUM.--Land-surface datum is 4,239 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.88 ft below land-surface datum, Aug. 22, 1972; lowest, 25.53 ft below land-surface datum, Oct. 15, 20, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.44	25.47	25.46	25.39	25.29	25.20	25.14	25.11	25.11	24.95	24.89	24.86
10	25.46	25.45	25.43	25.38	25.26	25.18	25.13	25.12	25.11	24.91	24.89	24.85
15	25.46	25.47	25.40	25.37	25.23	25.16	25.13	25.11	25.10	24.90	24.89	24.84
20	25.46	25.46	25.40	25.37	25.23	25.16	25.12	25.12	25.10	24.89	24.89	24.85
25	25.46	25.46	25.40	25.36	25.22	25.15	25.12	25.12	25.10	24.88	24.88	24.84
EOM	25.46	25.40	25.40	25.32	25.20	25.14	25.11	25.11	25.00	24.88	24.87	24.84

CACHE COUNTY

414501111520001. LOCAL NUMBER, (A-12-1)29cab-1.
LOCATION.--Lat 41°45'01", long 111°52'00", Hydrologic Unit 16010203.
Owner: Edwin Gossner.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in., depth 43 ft, cased to 43 ft.
DATUM.--Land-surface datum is 4,442 ft above mean sea level. Measuring point: Top of coupling, 0.30 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.60 ft above land-surface datum, Sept. 10-15, 1983; lowest, 13.60 ft above land-surface datum, Aug. 24, 1940.

WATER-LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.50	21.20	20.70	20.40	20.20	19.50	19.70	19.60	20.10	21.30	21.90	23.00
10	21.50	21.00	20.80	20.20	19.90	19.60	19.40	19.60	20.80	20.80	22.00	23.60
15	21.60	21.00	20.80	20.20	20.00	19.70	19.80	19.60	20.70	21.30	22.90	23.60
20	21.80	21.00	20.40	20.20	19.80	19.70	19.50	19.70	20.70	21.00	22.40	23.30
25	21.50	20.90	20.40	20.10	20.00	19.60	19.40	20.10	20.70	21.50	22.70	23.00
EOM	21.30	20.80	20.30	20.00	19.80	19.60	19.40	20.10	20.70	21.80	23.00	23.10

DAVIS COUNTY

405447111524301. LOCAL NUMBER, (A-2-1)18abd-12.
LOCATION.--Lat 40°54'47", long 111°52'43". Hydrologic Unit 16020102.
Owner: T. Q. Williams.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted unused artesian well, diameter 2 in., depth 90 ft, cased to 90 ft.
DATUM.--Land-surface datum is 4,285 ft above mean sea level. Measuring point: Top of recorder shelter support, 2.40 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.60 ft above land-surface datum, June 9, 1944; lowest, 2.70 ft above land-surface datum Aug. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.00	19.40	15.80	16.00	16.80	14.00	15.80	16.40	19.50	20.00	23.20	25.10
10	17.80	17.80	15.80	15.70	17.00	14.50	15.60	16.30	20.90	19.90	23.50	23.90
15	17.90	16.30	16.20	15.30	16.50	14.00	15.00	16.50	20.90	20.00	22.50	24.20
20	18.60	16.20	18.00	16.30	15.00	14.40	15.40	16.90	19.90	20.70	24.60	24.90
25	19.70	16.00	17.90	16.50	15.00	15.10	15.40	17.50	19.00	22.30	24.70	25.10
EOM	19.30	16.80	16.30	16.50	14.70	15.00	15.50	18.20	19.50	21.20	24.70	25.50

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.
LOCATION.--Lat 37°52'41", long 112°47'10", Hydrologic Unit 16030006.
Owner: Paragonah Canal Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISITCS.--Drilled unused artesian well, diameter 12 in., depth 420 ft.
DATUM.--Land-surface datum is 5,802 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--September 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.45 ft below land-surface datum, June 26, 1949; lowest, 42.40 ft below land-surface datum, Sept. 7, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.13	39.85	39.90	39.84	39.54	38.98	39.00	39.00	38.70	38.41	38.37	37.86
10	41.07	39.82	39.85	39.81	39.54	39.01	38.98	38.85	38.66	38.45	38.22	37.94
15	40.97	39.80	39.90	39.75	39.43	39.00	39.38	38.58	38.57	38.43	38.17	37.85
20	40.71	39.81	39.85	39.67	39.25	39.01	39.10	38.68	38.49	38.48	38.12	37.82
25	39.92	39.92	39.91	39.65	38.93	38.97	39.07	38.65	38.37	38.48	38.09	37.72
EOM	39.74	39.76	39.90	39.57	38.94	38.97	39.00	38.60	38.37	38.47	37.94	37.57

374524113421501. LOCAL NUMBER, (C-35-17)13bdc-1.
LOCATION.--Lat 37°45'24", long 113°42'15", Hydrologic Unit 16030006.
Owner: Austin D. Moyle.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in., depth 100 ft, perforated 26-35 ft, 60-70 ft, 90-100 ft.
DATUM.--Land-surface datum is 5,164.80 ft above mean sea level. Measuring point: Top of tie, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1937 to December 1942, August 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.99 ft below land-surface datum, Apr. 16, 1938; lowest, 81.64 ft below land-surface datum, Sept. 15, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.70	72.84	72.46	72.14	71.86	71.61	71.32	73.73	76.40	78.26	80.30	80.85
10	73.48	72.74	72.39	72.10	71.81	71.54	71.25	74.15	77.07	78.80	79.89	81.29
15	73.32	72.68	72.36	72.02	71.76	71.51	71.24	74.65	77.24	79.40	78.46	81.64
20	73.16	72.64	72.27	71.96	71.74	71.45	71.29	74.79	77.78	79.86	76.51	78.29
25	73.04	72.58	72.27	71.95	71.66	71.40	71.63	75.32	78.17	80.09	79.23	77.12
EOM	72.94	72.37	72.19	71.88	71.64	71.34	73.38	75.99	78.22	80.58	80.25	76.42

IRON COUNTY--Continued

374132113063601. LOCAL NUMBER, (C-36-11)8aab-1.
LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.
Owner: Arll Stratton.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 220 ft.
DATUM.--Land-surface datum is 5,563 ft above mean sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--September 1935 to December 1943, March 1945 to March 1973, April 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.67 ft below land-surface datum, Sept. 27, 1943; lowest, 100.08 ft below land-surface datum, Sept. 10, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.06	69.83	67.08	64.90	62.70	60.63	58.98	57.96	57.46	57.21	57.01	57.96
10	73.05	69.19	66.71	64.55	62.30	60.16	58.71	57.74	57.40	57.18	56.68	60.53
15	72.68	68.81	66.46	64.10	61.89	59.96	58.78	57.58	57.35	57.16	55.77	61.40
20	72.30	68.35	65.97	63.76	61.61	59.64	58.49	58.46	57.29	57.12	55.08	60.01
25	71.24	68.01	65.75	63.56	61.12	59.37	58.34	57.76	57.26	57.08	54.77	58.94
EOM	70.46	67.12	65.28	63.03	60.95	59.04	58.19	57.50	57.23	57.04	56.31	57.86

374053113415101. LOCAL NUMBER, (C-36-16)6cbc-1.
LOCATION.--Lat 37°40'53", long 113°41'51", Hydrologic Unit 16030006.
Owner: Robert Holt.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in., depth 270 ft, perforated 81-85 ft, 95-100 ft, 114-120 ft, 144-147 ft, 156-162 ft, 182-184 ft, 188-193 ft, 198-202 ft, 218-222 ft, 227-232 ft, 249-252 ft, 257-259 ft, 263-267 ft.
DATUM.--Land-surface datum is 5,210.67 ft above mean sea level. Measuring point: Bottom lip of access pipe, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--December 1951 to December 1953, April 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.35 ft below land-surface datum, Apr. 4, 1952; Lowest, 139.86 ft below land-surface datum, Aug. 31, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	137.52	134.45	132.01	130.39	128.81	127.23	125.16	124.24	127.07	130.92	135.18	137.37
10	137.13	134.14	131.74	130.12	128.45	126.83	124.90	124.14	127.72	131.96	135.25	137.84
15	136.61	133.69	131.47	129.85	128.29	126.58	124.64	124.04	128.24	133.10	135.66	137.71
20	136.13	133.38	131.20	129.58	128.10	126.16	124.54	124.57	128.46	133.86	135.54	137.46
25	135.52	132.99	130.93	129.31	127.71	125.83	124.44	125.05	128.87	134.41	135.86	137.21
EOM	134.97	132.28	130.66	129.04	127.58	125.42	124.34	126.00	129.49	135.13	136.85	136.96

374306113422501. LOCAL NUMBER, (C-36-17)1acc-1.
LOCATION.--Lat 37°43'06", long 113°42'25", Hydrologic Unit 16030006.
Owmer: Sam Arentz.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in., depth 200 ft, cased to 200 ft.
DATUM.--Land-surface datum is 5,208.41 ft above mean sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 111.11 ft below land-surface datum, Apr. 11, 1975; lowest, 149.09 ft below land-surface datum, Sept. 15, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	146.48	145.66	144.93	143.80	142.28	140.97	139.51	138.39	140.08	142.99	146.17	148.43
10	146.47	145.38	144.77	143.67	142.04	140.74	139.27	138.28	140.70	143.95	146.18	148.84
15	146.45	145.17	144.68	143.38	141.78	140.54	139.18	138.42	141.04	144.43	147.31	148.98
20	146.28	145.07	144.39	143.07	141.60	140.20	138.90	138.38	141.60	145.24	147.57	149.09
25	146.11	145.07	144.23	142.85	141.35	139.90	138.75	138.50	141.98	146.11	147.21	149.03
EOM	145.92	144.88	143.93	142.53	141.27	139.55	138.58	139.26	142.25	146.17	147.99	148.95

IRON COUNTY--Continued

373643113415301. LOCAL NUMBER, (C-36-17)36add-1.
LOCATION.--Lat 37°36'43", long 113°41'53", Hydrologic Unit 16030006.
Owner: Sherwood Bracken.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., depth 202 ft.
DATUM.--Land-surface datum is 5,269.89 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.
REMARKS.--There are several nearby pumped wells. Record good.
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.40 ft below land-surface datum, Mar. 24, 1950; lowest, 183.94 ft below land-surface datum, Sept. 10, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	165.34	164.05	163.23	162.63	162.13	161.74	160.23	155.85	155.58	160.46	164.95	163.46
10	165.09	163.84	163.05	162.56	162.07	161.56	159.33	154.62	155.42	159.96	164.52	163.57
15	164.95	163.67	163.08	162.32	161.95	161.47	158.83	155.20	154.95	164.12	164.32	163.33
20	164.66	163.63	162.77	162.13	161.98	161.20	157.83	156.15	154.06	165.34	164.11	163.46
25	164.41	163.49	162.90	162.22	161.72	160.98	157.60	156.53	157.71	164.02	164.05	163.19
EOM	164.26	162.77	162.76	162.15	161.73	160.48	157.18	156.98	160.10	164.42	163.83	162.84

JUAB COUNTY

393143111523301. LOCAL NUMBER, (C-15-1)12aba-1.
LOCATION.--Lat 39°31'43", long 111°52'33", Hydrologic Unit 16030005.
Owner: R. C. Mangelson.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 6 in., depth 117 ft, cased to 117 ft.
DATUM.--Land-surface datum is 5,196.90 ft above mean sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.70 ft below land-surface datum, Sept. 19, 20, 1983; lowest, 62.16 ft below land-surface datum, June 20, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.92	57.53	57.20	56.82	56.38	55.91	55.09	53.58	49.77	46.27	43.90	42.36
10	57.90	57.46	57.15	56.76	56.32	55.83	54.85	53.27	49.05	46.05	43.85	42.17
15	57.82	57.42	57.06	56.67	56.24	55.73	54.68	52.94	48.40	45.70	43.85	41.92
20	57.73	57.34	56.97	56.57	56.20	55.62	54.40	52.64	47.90	45.46	43.50	41.75
25	57.66	57.30	56.96	56.56	56.08	55.42	54.19	51.50	47.15	45.03	43.10	41.74
EOM	57.57	57.25	56.89	56.44	56.02	55.25	53.86	49.96	46.67	44.53	42.70	41.73

KANE COUNTY

370901112335001. LOCAL NUMBER, (C-42-6)19baa-1.
LOCATION.--Lat 37°09'01", long 112°33'50", Hydrologic Unit 15010003.
Owner: Kanab City.
AQUIFER.--Navajo Sandstone.
WELL CHARACTERISTICS.--Drilled well, diameter 18 in., depth 700 ft.
DATUM.--Land-surface datum is 5,620 ft above mean sea level. Measuring point: Top of casing, 1.60 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--February 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 162.99 ft below land-surface datum, May 31, 1983; lowest, 167.40 ft below land-surface datum, Apr. 8, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	164.08	163.91	164.20	164.93	163.80	163.27	163.81	163.28	163.47	163.67	163.82	163.62
10	164.06	163.88	164.01	164.84	163.96	164.22	163.85	163.09	163.42	163.66	163.70	163.83
15	164.04	163.85	164.27	164.73	163.93	163.95	164.21	163.28	163.48	163.41	163.77	163.78
20	164.01	163.94	164.65	164.32	163.90	163.94	163.93	163.49	163.34	163.76	163.74	163.87
25	163.97	164.11	164.75	164.68	163.44	163.64	163.26	163.43	163.46	163.73	163.86	163.93
EOM	163.94	163.27	164.79	163.71	163.50	163.76	163.39	162.99	163.41	163.88	163.76	163.59

MILLARD COUNTY

393046112231301. LOCAL NUMBER, (C-15-5)15dad-1.
LOCATION.--Lat 39°30'46", long 112°23'13", Hydrologic Unit 16030005.
Owner: Anaconda Copper Co.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 1,190 ft, cased to 1,115 ft, perforated 860-1,050 ft.
DATUM.--Land-surface datum is 4,780 ft above mean sea level. Measuring point: Top of 12-in. casing, 2.00 ft above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--January 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 102.33 ft below land-surface datum, June 20, July 6, 1975; lowest, 174.62 ft below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	107.20	106.94	106.64	105.98	105.71	105.31	104.64	104.32	103.07	102.34	102.82	103.01
10	107.22	106.88	106.60	106.07	105.59	105.20	104.68	104.40	102.76	102.59	102.78	103.20
15	107.23	106.80	106.46	105.97	105.70	105.15	104.80	104.25	102.57	102.57	103.03	103.31
20	107.27	106.82	106.38	105.73	105.62	104.89	104.44	104.30	102.33	102.60	103.00	103.45
25	107.04	106.83	106.38	105.88	105.36	104.66	104.50	104.03	102.45	102.77	103.01	103.44
EOM	106.91	106.15	106.13	105.68	105.41	104.74	104.47	103.14	102.43	102.85	103.17	103.34

393020112362201. LOCAL NUMBER, (C-15-7)23bac-1.
LOCATION.--Lat 39°30'20", long 112°36'22", Hydrologic Unit 16030007.
Owner: U.S. Geological Survey.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 182 ft.
DATUM.--Land-surface datum is 4,630 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.37 ft below land-surface datum, Feb. 8, 1983; lowest, 15.91 ft below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.51	11.25	10.88	10.64	10.39	10.74	10.81	10.82	10.90	11.10	11.30	11.22
10	11.50	11.17	10.80	10.62	10.45	10.86	10.78	10.84	10.87	11.14	11.31	11.23
15	11.46	11.15	10.77	10.55	10.55	10.85	10.83	10.89	10.89	11.15	11.33	11.21
20	11.41	11.07	10.70	10.47	10.64	10.86	10.76	10.89	10.90	11.23	11.32	11.22
25	11.35	11.04	10.73	10.46	10.66	10.78	10.77	10.90	10.98	11.24	11.33	11.15
EOM	11.25	10.78	10.68	10.44	10.71	10.79	10.80	10.83	11.02	11.29	11.26	11.06

390758113565501. LOCAL NUMBER, (C-19-19)26aba-1.
LOCATION.--Lat 39°07'58", long 113°56'55", Hydrologic Unit 16020301.
Owner: Eskdale town.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth unknown.
DATUM.--Land-surface datum is 4,948 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.24 ft below land-surface datum, Apr. 5, 1977; lowest, 20.81 ft below land-surface datum, Sept. 21-24, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.66	20.20	19.71	19.22	18.83	18.56	18.34	18.21	18.43	18.80	19.13	18.92
10	20.60	20.11	19.62	19.16	18.78	18.52	18.30	18.24	18.51	18.89	19.14	18.86
15	20.53	20.03	19.54	19.09	18.73	18.48	18.30	18.25	18.60	18.98	19.17	18.83
20	20.46	19.95	19.45	19.01	18.69	18.44	18.25	18.27	18.66	19.08	19.16	18.86
25	20.37	19.87	19.39	18.96	18.62	18.40	18.23	18.27	18.71	19.12	19.11	18.84
EOM	20.28	19.76	19.30	18.89	18.60	18.36	18.22	18.34	18.74	19.12	19.01	18.80

MILLARD COUNTY--Continued

385844112245801. LOCAL NUMBER, (C-21-5)21aba-1.
LOCATION.--Lat 38°58'44", long 112°24'58", Hydrologic Unit 16030005.
Owner: Delbert Crapo.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 246 ft, cased to 220 ft.
DATUM.--Land-surface datum is 4,744.44 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--May 1929 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.96 ft above land-surface datum, Feb. 24, 1949; lowest, 83.02 ft below land-surface datum, July 20, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.63	47.90	45.01	42.30	39.75	37.77	36.15	38.71	39.89	43.29	40.17	35.39
10	51.00	47.35	44.51	42.01	39.38	37.43	35.79	38.74	41.76	42.16	39.47	35.61
15	50.30	46.82	44.11	41.33	38.99	37.17	35.68	38.94	39.50	42.47	38.46	35.40
20	49.70	46.45	43.51	40.95	38.76	36.76	37.25	38.17	38.14	44.40	36.10	33.64
25	49.01	46.04	43.21	40.61	38.27	36.43	36.73	41.22	41.28	41.61	35.89	31.32
EOM	48.46	45.12	42.81	40.10	38.11	36.18	38.42	41.54	42.29	40.78	38.39	30.12

SALT LAKE COUNTY

404403111562001. LOCAL NUMBER, (C-1-1)15bdd-11.
LOCATION.--Lat 40°44'03", long 111°56'20", Hydrologic Unit 16020204.
Owner: Souvall Brothers.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted artesian well, diameter 2 in., depth 455 ft.
DATUM.--Land-surface datum is 4,230 ft above mean sea level. Measuring point: Bottom of recorder shelter, 0.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--December 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.00 ft above land-surface datum, May 25, 1973; lowest, 8.00 ft above land-surface datum, Sept. 20, 1964, July 20, 25, 1970, Aug. 10, 15, 1970.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.80	12.70	12.60	13.30	12.90	13.50	14.10	13.30	12.20	11.40	12.80	15.20
10	11.60	12.50	13.20	13.10	12.90	13.90	13.90	13.30	12.20	11.70	12.60	15.80
15	12.40	12.60	13.60	13.00	13.20	13.80	14.10	13.20	11.80	12.60	12.60	16.20
20	12.60	12.30	13.90	12.80	13.10	13.70	13.90	13.00	11.30	13.70	12.60	15.70
25	12.80	12.20	13.50	12.70	13.50	13.80	13.90	12.80	11.30	13.40	13.90	15.60
EOM	12.40	12.60	13.40	12.60	13.30	13.70	13.60	12.60	11.20	13.00	14.60	15.80

403916111575901. LOCAL NUMBER, (C-2-1)9ccc-1.
LOCATION.--Lat 40°39'16", long 111°57'59", Hydrologic Unit 16020204.
Owner: Salt Lake County Conservancy District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian unused public supply well, diameter 16 in., depth 795 ft, perforated 187-372 ft.
DATUM.--Land-surface datum is 4,461 ft above mean sea level. Measuring point: Top of casing, 2.10 ft above land-surface datum.
REMARKS.--Record poor.
PERIOD OF RECORD.--April 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.75 ft below land-surface datum, Oct. 25, 1971; lowest, 86.80 ft below land-surface datum, July 25, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	85.52	84.64	84.29	84.29	77.99	81.33	82.70	82.99	83.35	83.52	83.48	83.45
10	85.38	84.65	84.12	83.07	78.66	81.75	82.37	83.31	82.85	83.51	83.48	83.44
15	85.23	84.60	84.16	81.13	79.21	81.79	82.22	83.55	82.97	83.51	83.47	83.44
20	85.08	84.57	84.15	79.49	79.82	81.75	82.23	83.33	83.19	83.50	83.47	83.43
25	85.01	84.60	84.35	78.28	80.43	81.78	82.54	83.37	83.52	83.50	83.46	83.62
EOM	84.84	84.13	84.48	77.37	80.81	82.35	82.77	83.39	83.52	83.49	83.45	83.77

SALT LAKE COUNTY--Continued

404531111510101. LOCAL NUMBER, (D-1-1)4cbc-1.
LOCATION.--Lat 40°45'31", long 111°51'01", Hydrologic Unit 16020204.
Owner: University of Utah.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 20 in, depth 500 ft, cased to 138 ft.
DATUM.--Land-surface datum is 4,606.34 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--January 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.14 ft below land-surface datum, Sept. 26, 27, 1982; lowest, 168.73 ft below land-surface datum, Oct. 11, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	155.94	151.18	145.59	141.24	138.87	136.82	134.94	133.47	136.34	149.12	155.41	153.13
10	154.75	150.07	144.90	140.88	138.42	136.55	134.40	132.94	141.68	149.32	157.38	153.36
15	154.25	148.75	144.51	140.49	137.98	136.41	134.47	132.77	139.10	152.15	157.67	154.55
20	153.48	147.90	143.37	140.10	137.55	135.77	134.27	132.84	142.85	153.31	151.87	154.45
25	152.83	147.02	142.63	139.63	137.46	135.25	133.87	134.18	146.11	152.01	151.51	153.69
EOM	151.35	146.10	141.95	138.67	136.99	135.34	133.47	136.62	147.66	151.39	152.82	152.38

404356111503901. LOCAL NUMBER, (D-1-1)16caa-1.
LOCATION.--Lat 40°43'56", long 111°50'39", Hydrologic Unit 16020204.
Owner: Salt Lake City Corporation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 20 in., depth 502 ft, cased to 502 ft, perforated 90-486 ft.
DATUM.--Land-surface datum is 4,489.69 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.-- Record good.
PERIOD OF RECORD.--September 1934 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 48.08 ft below land-surface datum, May 31, 1983; lowest, 70.65 ft below land-surface datum, Apr. 29, 1935.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.42	53.24	52.89	52.97	52.80	52.57	51.81	49.71	48.12	48.51	48.91	49.12
10	54.28	53.10	52.90	52.93	52.77	52.48	51.59	49.30	48.12	48.63	48.94	49.16
15	54.07	53.04	52.94	52.89	52.74	52.33	51.39	49.04	48.18	48.64	49.03	49.18
20	53.85	52.97	52.93	52.83	52.74	52.24	51.05	48.77	48.23	48.71	49.03	49.28
25	53.63	52.95	52.99	52.84	52.67	52.12	50.45	48.32	48.32	48.75	49.06	49.29
EOM	53.40	52.81	53.02	52.80	52.65	51.92	50.14	48.08	48.38	48.86	49.09	49.28

403452111484301. LOCAL NUMBER, (D-3-1)2ccc-1.
LOCATION.--Lat 40°34'52", long 111°48'43", Hydrologic Unit 16020204.
Owner: Metropolitan Water District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in., depth 1,007 ft, perforated 525-990 ft.
DATUM.--Land-surface datum is 5,000 ft above mean sea level. Measuring point: Top of flange, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--March 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 515.66 ft below land-surface datum, Nov. 25, 1958; lowest, 564.51 ft below land-surface datum, Oct. 1, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	556.77	552.94	550.39	548.54	547.32	546.40	545.70	544.98	547.46	553.47	556.50	553.50
10	556.06	552.26	549.99	548.31	547.20	546.45	545.36	545.04	548.30	554.61	556.00	553.00
15	555.29	551.97	549.73	547.96	547.05	546.34	545.49	545.02	548.86	554.96	555.50	552.50
20	554.62	551.48	549.15	547.52	547.03	546.16	545.13	545.09	549.86	555.64	555.00	551.88
25	553.95	551.24	549.25	547.68	546.54	545.80	545.21	545.18	551.25	556.17	554.50	551.13
EOM	553.41	549.95	548.92	547.45	546.56	545.82	545.11	546.66	552.27	556.86	554.00	550.17

SALT LAKE COUNTY--Continued

403330111531601. LOCAL NUMBER, (D-3-1)18cba-1.
LOCATION.--Lat 40°33'30", long 111°53'16", Hydrologic Unit 16020204.
Owner: Sandy City Corporation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in. to 350 ft, 12 in. from 350-741 ft, 10 in. from 741-1,150 ft, perforated 400-1,150 ft.
DATUM.--Land-surface datum is 4,414 ft above mean sea level. Measuring point: Top of casing, 1.15 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.67 ft below land-surface datum, July 5, 1967; lowest, 83.20 ft below land-surface datum, Aug. 6, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	76.32	74.53	73.04	72.97	73.00	73.08	73.29	72.94	75.95	78.83	79.11	75.68
10	75.97	73.94	72.93	73.01	72.95	73.30	73.22	73.14	76.64	79.50	79.23	75.89
15	75.66	73.75	72.89	72.97	72.92	73.50	73.18	72.87	76.22	79.59	78.00	76.97
20	75.51	73.42	72.84	72.87	72.99	73.47	73.25	72.89	77.56	79.69	75.96	77.05
25	75.54	73.47	72.98	72.99	73.10	73.28	73.25	73.16	79.15	79.08	75.47	75.97
EOM	75.02	72.92	73.00	72.95	73.09	73.37	73.01	76.11	79.19	79.97	76.50	74.97

SAN JUAN COUNTY

385802109191301. LOCAL NUMBER, (D-33-24)30dab-1.
LOCATION.--Lat 38°58'02", long 109°19'13", Hydrologic Unit 14080203.
Owner: A. E. C.
AQUIFER.--Sandstone.
WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in., depth 319 ft.
DATUM.--Land-surface datum is 6,916 ft above mean sea level. Measuring Point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--July 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.20 ft below land-surface datum, May 20, 1975; lowest, 202.89 ft below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	167.91	167.90	167.51	167.17	166.82	166.70	166.12	165.78	165.67	166.11	166.25	166.34
10	168.10	167.50	167.38	166.77	166.82	166.61	166.06	165.73	165.75	166.10	166.22	166.44
15	168.19	167.74	167.53	166.96	166.54	166.24	166.00	165.72	165.86	165.90	166.36	166.41
20	168.07	167.53	167.43	166.74	166.30	166.14	165.95	165.71	165.83	166.16	166.31	166.45
25	167.98	167.66	167.15	166.65	166.53	166.24	165.90	165.74	165.88	166.12	166.51	166.54
EOM	167.79	166.97	167.28	166.80	166.70	166.17	165.84	165.47	165.86	166.30	166.47	166.27

373830109283201. LOCAL NUMBER, (D-36-22)22daa-1.
LOCATION.--Lat 37°38'30", long 109°28'32", Hydrologic Unit 14080201.
Owner: Joseph L. Nielson.
AQUIFER.--
WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 7 in., depth 140 ft.
DATUM.--Land-surface datum is 6,200 ft above mean sea level. Measuring point: Top of recorder platform, 3.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--October 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.18 ft below land-surface datum, Aug. 17, 1980; lowest, 57.23 ft below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.49	46.14	46.41	46.99	46.93	46.89	47.54	47.34	46.55	44.97	43.23	42.12
10	45.82	45.77	46.35	46.98	47.21	47.55	47.53	47.22	46.26	44.60	42.76	42.25
15	46.08	46.19	46.72	47.03	47.37	47.22	47.80	47.34	46.05	44.04	42.56	42.20
20	46.02	46.11	46.61	46.52	47.39	47.34	47.42	47.29	45.58	44.01	42.42	42.21
25	45.99	46.34	46.49	46.92	47.24	47.17	47.38	47.13	45.35	43.78	42.49	42.33
EOM	45.89	45.57	46.69	46.83	47.37	47.38	47.44	46.42	44.98	43.50	42.36	42.08

TOOELE COUNTY

403628112174701. LOCAL NUMBER, (C-2-4)33aac-1.
LOCATION.--Lat 40°36'28", long 112°17'47", Hydrologic Unit 16020304.
Owner: J. E. England.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted unused observation artesian well, diameter 4 in., depth 182 ft.
DATUM.--Land-surface datum is 4,393.88 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--October 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.50 ft below land-surface datum, Apr. 25, 1976; lowest, 25.44 ft below land-surface datum, July 20, 1968.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.26	15.14	14.47	13.95	13.35	12.89	12.10	11.89	12.20	12.50	12.81	12.23
10	16.02	14.98	14.36	13.88	13.33	12.82	12.01	11.95	12.25	12.55	12.86	11.99
15	15.81	14.90	14.26	13.67	13.24	12.86	12.03	11.99	12.31	12.60	12.90	11.49
20	15.63	14.81	14.14	13.58	13.27	12.68	11.95	12.04	12.35	12.65	13.20	11.37
25	15.46	14.70	14.21	13.64	12.80	12.63	11.86	12.09	12.40	12.70	13.20	11.05
EOM	15.30	14.59	14.13	13.43	12.83	12.15	11.82	12.15	12.45	12.76	13.08	10.78

403539112282901. LOCAL NUMBER, (C-2-6)36dcc-1.
LOCATION.--Lat 40°35'39", long 112°28'29", Hydrologic Unit 16020304.
Owner: E. C. Walk.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 176 ft, cased to 166 ft.
DATUM.--Land-surface datum is 4,373.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--June 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.82 ft below land-surface datum, June 11, 1952; lowest, 98.81 ft below land-surface datum, Oct. 7, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	90.02	88.75	88.07	87.35	86.48	86.09	85.63	84.06	80.40	79.99	81.84	82.30
10	89.71	88.62	87.86	87.28	86.32	85.90	85.49	83.28	80.15	80.43	82.19	82.33
15	89.57	88.46	87.67	87.08	86.23	85.85	85.43	82.55	79.98	80.59	82.54	82.34
20	89.35	88.40	87.49	86.85	86.22	85.83	85.04	82.08	79.96	80.89	82.62	82.57
25	89.22	88.28	87.55	86.76	86.06	85.80	84.90	81.70	80.04	80.87	82.44	82.59
EOM	88.90	88.00	87.47	86.59	86.08	85.74	84.62	80.80	80.02	81.57	82.39	82.43

401312112442301. LOCAL NUMBER, (C-7-8)10cbd-1.
LOCATION.--Lat 40°13'12", long 112°44'23", Hydrologic Unit 16020305.
Owner: Dugway Proving Gound.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 175 ft, cased to 175 ft, perforated 115-175 ft.
DATUM.--Land-surface datum is 4,850 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--November 1946 to March 1947, January 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.32 ft below land-surface datum, Jan. 26, 1951; lowest, 93.67 ft below land-surface datum, Oct. 15, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	82.38	81.97	81.42	81.40	81.05	80.87	80.63	80.38	80.42	80.55	81.02	81.00
10	82.32	81.88	81.44	81.30	80.98	80.71	80.51	80.36	80.35	80.75	80.98	81.05
15	82.28	81.80	81.45	81.20	80.91	80.77	80.60	80.33	80.39	80.73	81.04	81.09
20	82.20	81.81	81.39	81.12	80.97	80.70	80.50	80.37	80.37	80.87	81.02	81.10
25	82.09	81.74	81.49	81.18	80.79	80.64	80.45	80.33	80.44	80.87	81.04	81.03
EOM	82.06	81.41	81.43	81.05	80.80	80.57	80.40	80.26	80.43	80.99	81.04	81.00

UINTAH COUNTY

403158109372201. LOCAL NUMBER, (D-3-20)25abc-2.
LOCATION.--Lat 40°31'58", long 109°37'22", Hydrologic Unit 14060002.
Owner: H. T. Peltier.
AQUIFER.--Glacial outwash.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 43 ft, cased to 32 ft.
DATUM.--Land-surface datum is 5,992 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1965 to August 1966, March 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.97 ft below land-surface datum, July 5, 1966; lowest, 7.50 ft below land-surface datum, Sept. 5, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.96	4.31	4.80	5.10	5.40	4.31	5.14	4.77	5.28	5.50	6.35	6.74
10	5.12	3.86	4.85	5.15	5.44	4.12	5.32	5.26	5.25	5.47	6.53	6.80
15	5.11	4.26	4.90	5.20	5.46	4.44	5.09	5.29	4.96	5.87	6.49	6.98
20	5.03	4.22	4.95	5.25	5.46	4.74	5.38	5.43	4.50	6.09	6.57	7.00
25	4.82	4.59	5.00	5.30	5.42	4.93	5.52	5.68	4.76	5.97	6.76	6.78
EOM	4.14	4.82	5.05	5.35	5.36	4.88	5.27	5.66	5.22	6.20	6.92	6.27

UTAH COUNTY

401818112014501. LOCAL NUMBER, (C-6-2)14aba-1.
LOCATION.--Lat 40°18'18", long 112°01'45", Hydrologic Unit 16020201.
Owner: Coop Security Corp.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in., depth 1,258 ft, cased to 1,254 ft.
DATUM.--Land-surface datum is 4,865.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--December 1954 to April 1955, March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 109.06 ft below land-surface datum, Apr. 12, 1955; lowest, 141.41 ft below land-surface datum, Aug. 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	119.20	118.44	118.13	117.88	117.59	117.34	117.32	117.25	117.49	117.56	117.70	117.17
10	119.09	118.31	118.07	117.86	117.55	117.45	117.32	117.25	117.50	117.52	117.57	117.13
15	118.94	118.32	118.02	117.80	117.56	117.39	117.38	117.27	117.59	117.48	117.40	117.16
20	118.80	118.20	117.95	117.66	117.55	117.37	117.32	117.28	117.62	117.52	117.16	117.33
25	118.63	118.24	117.91	117.69	117.44	117.26	117.31	117.28	117.74	117.65	117.16	117.34
EOM	118.45	117.91	117.92	117.60	117.37	117.33	117.27	117.33	117.60	117.81	117.18	117.25

402333111513401. LOCAL NUMBER, (D-5-1)8dcc-1.
LOCATION.--Lat 40°23'33", long 111°51'34", Hydrologic Unit 16020201.
Owner: Lehi Irrigation Co.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 14 in., depth 240 ft, cased to 240 ft, perforated at 85, 105, 165, and 200 ft.
DATUM.--Land-surface datum is 4,555.03 ft above mean sea level. Measuring point: Top of recorder platform, 3.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--September 1935 to December 1936, April 1947, March 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.96 ft below land-surface datum, May 5, 1983; lowest, 35.29 ft below land-surface datum, Aug. 31, 1963.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.60	3.80	3.28	3.18	2.88	2.31	1.70	.96	5.07	8.44	8.97	1.78
10	5.70	3.58	3.26	3.18	2.82	2.07	1.43	1.16	5.99	7.51	8.97	2.16
15	5.04	3.60	3.29	3.17	2.92	1.89	1.47	1.23	6.05	7.52	7.37	3.62
20	4.73	3.44	3.10	3.14	2.80	1.85	1.47	1.16	8.04	8.86	3.88	3.48
25	4.40	3.43	3.20	3.20	2.74	1.64	1.40	2.14	9.44	8.38	2.46	3.71
EOM	4.02	3.15	3.15	3.05	2.56	1.77	1.18	5.42	9.59	8.98	2.47	3.79

WASHINGTON COUNTY

371415113471501. LOCAL NUMBER, (C-41-17)7ada-1.
LOCATION.--Lat 37°14'15", long 113°47'15", Hydrologic Unit 15010008.
Owner: St. George City.
AQUIFER.--Navajo Sandstone.
WELL CHARACTERISTICS.--Diameter 12 in., depth 375 ft, cased to 203 ft.
DATUM.--Land-surface datum is 3,600 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--March 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 209.79 ft below land-surface datum, Jan 20, 1974; lowest, 229.53 ft below land-surface datum, Sept. 28, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	228.97	228.70	228.32	227.11	225.98	225.41	224.61	225.53	225.99	226.34	228.04	228.20
10	229.21	229.16	228.10	226.92	225.75	225.06	224.54	225.74	225.89	226.75	228.34	228.20
15	229.13	228.99	227.80	226.60	225.55	225.15	224.98	225.73	225.69	226.92	228.52	228.20
20	228.88	229.01	227.61	226.41	225.50	225.14	224.99	225.61	225.49	227.38	228.32	228.20
25	228.81	228.73	227.70	226.31	225.36	224.86	225.14	225.48	225.54	227.65	228.20	228.21
EOM	228.60	228.07	227.36	226.09	225.40	224.56	225.49	225.51	225.82	227.91	228.20	228.21

WEBER COUNTY

411544111461001. LOCAL NUMBER, (A-6-2)18bad-1.
LOCATION.--Lat 41°15'44", long 111°46'10", Hydrologic Unit 16020102.
Owner: U.S. Bureau of Reclamation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 155 ft, perforated 105-115 ft, 125-145 ft.
DATUM.--Land-surface datum is 4,924 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--January 1956 to March 1966, October 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.01 ft below land-surface datum, June 20, 1982; lowest, 34.96 ft below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.72	15.77	15.41	14.79	18.39	21.75	16.20	15.11	11.73	10.84	11.38	10.45
10	16.80	15.59	15.11	15.22	19.79	19.23	17.12	14.01	11.99	11.51	11.32	13.19
15	16.91	15.48	14.86	15.42	20.75	17.15	18.17	13.76	11.58	9.50	10.58	16.59
20	17.35	15.30	14.57	15.44	20.66	16.01	17.49	13.78	13.13	9.73	9.39	17.37
25	16.17	15.49	14.36	15.38	20.58	15.60	16.38	13.55	13.26	9.71	9.38	17.24
EOM	16.06	16.82	14.45	16.61	20.50	15.93	15.69	13.26	13.33	10.82	9.90	16.25

411348112013601. LOCAL NUMBER, (B-6-2)26ada-1.
LOCATION.--Lat 41°13'48", long 112°01'36", Hydrologic Unit 16020102.
Owner: Amalgamated Sugar Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in., depth 595 ft, cased to 400 ft.
DATUM.--Land-surface datum is 4,275 ft above mean sea level. Measuring point: Top of casing, 0.10 ft below land-surface datum.
REMARKS.--Record good. Recorder installed Oct. 1981. Replaces (B-6-1)30cca-1.
PERIOD OF RECORD.--August 1935 to December 1950, January 1953 to October 1961, February 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft above land-surface datum, Mar. 11, 1937; lowest, 11.38 below land-surface datum, Sept. 10, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.36	6.25	5.85	5.69	5.42	5.20	5.16	4.62	4.15	5.23	5.51	5.76
10	6.33	6.21	5.79	5.66	5.37	5.28	5.19	4.45	4.26	5.26	5.60	5.93
15	6.28	6.26	5.76	5.65	5.34	5.23	5.26	4.20	4.49	5.28	5.76	6.15
20	6.23	6.13	5.72	5.55	5.33	5.18	5.27	4.02	4.59	5.29	5.72	6.44
25	6.21	6.13	5.67	5.52	5.29	5.11	5.16	4.06	4.75	5.37	5.69	6.61
EOM	6.17	5.82	5.70	5.47	5.28	5.18	4.89	4.10	4.99	5.46	5.72	6.75

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				BEAVER COUNTY							
383101112365301	(C-26- 7)26CAC- 1		--	83-08-09	590	7.8	15.0	260	90	80	15
382336112592601	(C-28-10) 8ADD- 2		185	83-07-14	1340	7.4	16.0	480	310	130	38
382204113001302	(C-28-10)17CDC- 2	100VLFL	220	83-09-01	880	--	24.0	--	--	--	--
382313113021201	(C-28-11)12DBC- 1		460	83-09-01	950	7.8	17.0	280	70	65	28
382020113015701	(C-28-11)25DCD- 1	100VLFL	431	83-08-24	2570	6.8	15.0	1300	1000	370	86
381516112422201	(C-29- 8)25CAC- 1	100VLFL	250	83-08-25	295	--	18.5	--	--	--	--
381435112471401	(C-29- 8)31ADD- 1	100VLFL	310	83-09-01	710	--	14.0	--	--	--	--
381835113000001	(C-29-10) 5CDD- 5	100VLFL	295	83-07-14	970	7.4	14.0	440	180	130	27
381700113033401	(C-29-11)14CDB- 1	100VLFL	--	83-07-14	450	8.1	18.0	150	40	42	10
381543113035501	(C-29-11)27AAD- 1	100VLFL	204	83-08-24	930	7.6	16.5	290	120	85	19
				BOX ELDER COUNTY							
412214112023301	(B- 7- 2) 2CBA- 5	100VLFL	342	83-08-22	380	7.4	13.5	180	20	56	8.8
412405112022501	(B- 8- 2)26BCD- 1	100VLFL	118	83-08-22	440	--	13.0	--	--	--	--
413057112023901	(B- 9- 2)15DAA- 1	100VLFL	465	83-08-22	600	--	17.0	--	--	--	--
413637113545401	(B-10-18) 4DCC- 1	100VLFL	--	83-08-03	1130	--	13.0	--	--	--	--
413545113544901	(B-10-18) 9DCA- 1		--	83-08-03	1240	--	13.0	--	--	--	--
413300113543001	(B-10-18)33AAA- 1		84	83-08-03	1010	7.4	13.5	390	140	110	27
413910113535001	(B-11-18)27BAA- 1	100VLFL	367	83-08-03	670	--	13.0	--	--	--	--
413806113543401	(B-11-18)33ADB- 1		200	83-08-03	960	7.5	10.0	--	--	--	--
414339112173401	(B-12- 4)34CCA- 1	100VLFL	292	83-07-27	1880	7.2	16.5	--	--	--	--
414832112265801	(B-12- 5) 5BBD- 1		303	83-07-12	3260	--	11.0	--	--	--	--
414813113075401	(B-12-11) 5BBB- 1	100VLFL	240	83-08-09	1900	7.5	15.0	--	--	--	--
414747113073701	(B-12-11) 5BDC- 1		190	83-08-09	2450	7.9	14.5	1000	810	290	70
414720113071601	(B-12-11) 8ABB- 1		--	83-08-09	2380	7.5	14.0	--	--	--	--
415833112145001	(B-14- 4) 1DAD- 1		212	83-07-27	880	--	14.0	--	--	--	--
415737112431601	(B-14- 8)11BCA- 1	100VLFL	416	83-08-02	2870	7.7	11.5	770	530	170	85
415845112562201	(B-14-10) 1BBB- 1	100VLFL	420	83-08-09	560	7.7	16.5	--	--	--	--
415610112583001	(B-14-10)15CDC- 1		--	83-08-09	1350	--	24.5	--	--	--	--
415850112481201	(B-15- 8)31CCC- 1		400	83-08-02	1440	7.5	20.0	400	240	91	43
415956112525201	(B-15- 9)28CBC- 1	100VLFL	400	83-08-09	6100	7.2	24.5	1600	1500	450	120
415939112562201	(B-15-10)36BBB- 1	100VLFL	613	83-08-09	470	--	16.5	--	--	--	--
				CACHE COUNTY							
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	85	83-09-06	530	7.3	12.0	--	--	--	--
415020111520401	(A-13- 1)29BCD- 1	100VLFL	334	83-07-26	440	--	12.0	--	--	--	--
				DAVIS COUNTY							
405535111525101	(A- 2- 1) 7ABA- 4	100VLFL	450	83-08-17	270	--	15.0	--	--	--	--
405019111560001	(B- 1- 1)10AAC- 1		231	83-08-17	289	--	19.0	--	--	--	--
405338111544001	(B- 2- 1)23ADD- 2		--	83-08-17	490	--	17.5	--	--	--	--
405451111540801	(B- 2- 1)24BAD- 3	100VLFL	386	83-08-17	460	--	17.0	--	--	--	--
405258111544101	(B- 2- 1)26AAD- 3	100VLFL	--	83-08-17	860	--	12.5	--	--	--	--
410135111580001	(B- 3- 1) 4BCA- 2		250	83-08-17	345	--	16.5	--	--	--	--
410008111545401	(B- 3- 1)12CCD- 1	100VLFL	65	83-08-17	400	--	13.0	--	--	--	--
405959111564101	(B- 3- 1)15BAC- 1	100VLFL	985	83-08-17	385	--	20.5	--	--	--	--
410608112064401	(B- 4- 2) 7BAD- 1	100VLFL	--	83-08-22	410	--	14.5	--	--	--	--
410430112054001	(B- 4- 2)17CDD- 1	100VLFL	583	83-08-22	360	--	14.5	--	--	--	--
410340112030001	(B- 4- 2)27ABA- 1		304	83-08-17	630	7.7	15.0	53	--	14	4.5
410830111584001	(B- 5- 1)29BDC- 1		627	83-08-23	550	--	12.0	--	--	--	--
410835111591501	(B- 5- 1)30ADA- 1		900	83-08-23	590	7.2	12.5	250	17	71	18
410850112035501	(B- 5- 2)21DDD- 1		110	83-08-22	1030	--	12.5	--	--	--	--
410759112073501	(B- 5- 3)25DCD- 1	100VLFL	520	83-08-22	365	--	15.5	--	--	--	--
				GARFIELD COUNTY							
375924112234001	(C-32- 5)35BAB- 1		456	83-08-29	300	7.6	14.5	120	3	35	7.8

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
						BEAVER COUNTY						
24	2.5	--	25	82	0.3	43	375	1.9	0.03	6.00	3	30.00
100	1.6	--	360	130	0.6	36	900	1.1	0.06	9.00	2	440
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110	12	--	170	120	1.9	53	685	2.0	0.01	20	38	340
110	12	--	860	280	0.2	45	1920	2.9	0.02	30	10	210
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30	5.7	--	100	91	0.3	36	572	4.1	0.06	190	12	70.00
25	4.7	--	42	41	0.5	42	271	2.0	0.25	20	3	80.00
58	5.5	--	83	120	0.4	41	516	3.5	0.02	10	2	130
						BOX ELDER COUNTY						
10	1.6	--	15	16	0.1	12	213	1.4	0.02	30	6	20.00
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64	7.2	--	91	150	0.3	45	642	1.2	0.05	20	2	140
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130	8.9	--	73	700	0.1	20	1410	5.2	0.02	20	10	160
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330	20	--	310	690	0.8	49	1800	0.89	0.05	30	10	140
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130	4.0	--	31	360	0.2	20	778	0.61	0.04	4.00	<1	50.00
700	40	--	55	2000	0.2	69	3500	2.4	0.02	50	10	110
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						CACHE COUNTY						
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						DAVIS COUNTY						
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130	5.5	--	5.6	47	0.5	32	404	0.47	0.59	300	57	90.00
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19	1.8	--	23	27	0.2	12	312	1.3	0.02	20	11	30.00
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						GARFIELD COUNTY						
12	4.1	--	8.5	15	0.2	50	203	0.86	0.03	6.00	2	30.00

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				GRAND COUNTY							
383539109340901	(D-25-21)26DCC- 1	112ALVM	55	83-09-09	580	--	24.0	--	--	--	--
				IRON COUNTY							
375257112483501	(C-33- 8)31CCC- 2		450	83-06-30	460	--	14.0	--	--	--	--
375320112510001	(C-33- 9)35ACD- 2	100VLFL	500	83-06-30	450	--	13.0	--	--	--	--
375151112525002	(C-34- 9) 9BBD- 2		324	83-06-30	520	7.3	11.5	260	55	54	31
375033112561101	(C-34-10)13CBD- 2	100VLFL	--	83-06-30	510	--	12.5	--	--	--	--
374834113384301	(C-34-16)28DCC- 2	100VLFL	148	83-06-27	1030	7.2	12.0	390	260	120	23
374550113040601	(C-35-11)11CCC- 1		300	83-07-07	940	6.7	14.0	410	240	76	54
374248113075201	(C-35-11)31DBB- 1		--	83-08-04	730	7.7	14.0	370	210	77	44
374623113381301	(C-35-16) 9ADD- 1		150	83-08-24	970	--	12.0	--	--	--	--
374412113384503	(C-35-16)21DCC- 3	100VLFL	300	83-07-27	465	--	14.0	--	--	--	--
374040113343102	(C-36-15) 7CDD- 2		500	83-06-27	1110	7.7	24.0	230	110	60	20
374212113394501	(C-36-16) 5L 1- 1	100VLFL	200	83-06-27	1910	7.2	13.0	880	530	270	50
374014113391101	(C-36-16) 9BDC- 2		--	83-07-27	445	7.3	15.0	190	10	60	10
373854113411501	(C-36-16)19ABB- 1	100VLFL	352	83-06-27	445	7.2	11.0	180	36	55	10
373710113381201	(C-36-16)27CDC- 1	100VLFL	344	83-07-27	650	7.2	17.0	280	58	85	16
373656113415201	(C-36-17)36AAD- 1	100VLFL	363	83-06-27	520	--	10.0	--	--	--	--
373542113122401	(C-37-12) 9ACC- 1		--	83-08-04	350	7.5	16.0	150	13	50	6.3
373407113100801	(C-37-12)23ACB- 1	100VLFL	300	83-08-24	740	--	24.0	--	--	--	--
373234113111601	(C-37-12)34ABB- 1	100VLFL	190	83-08-24	930	--	11.0	--	--	--	--
				JUAB COUNTY							
394545111531001	(C-12- 1)24BAA- 1	100VLFL	66	83-07-18	1250	--	13.0	--	--	--	--
394215111530501	(C-13- 1) 1CDD- 1		150	83-07-18	1050	--	11.0	--	--	--	--
395244111502501	(D-11- 1) 9BBB- 1		--	83-07-21	520	--	13.0	--	--	--	--
394518111515801	(D-12- 1)19DBB- 1	100VLFL	248	83-07-18	1280	7.5	12.5	310	110	75	31
394421111505001	(D-12- 1)29CAA- 1		--	83-07-19	1500	--	14.0	--	--	--	--
394203111521701	(D-13- 1) 7BBD- 2	100VLFL	158	83-07-19	1750	--	11.0	--	--	--	--
394136111512001	(D-13- 1) 7DAD- 2		228	83-07-18	1700	--	11.0	--	--	--	--
394132111512001	(D-13- 1) 7DDA- 1	100VLFL	145	83-07-18	1760	--	10.5	--	--	--	--
				KANE COUNTY							
371034112230401	(C-42- 5)11BDB- 1		245	83-07-19	780	7.2	13.5	370	180	88	37
370843112340602	(C-42- 6)19BDC- 2	220NWJO	250	83-07-19	250	7.6	19.0	130	12	26	17
370222112220901	(C-43- 5)25CDA- 1		110	83-07-19	1880	--	12.0	--	--	--	--
				MILLARD COUNTY							
392850112162101	(C-15- 4)34AAA- 1	100VLFL	520	83-08-04	2310	--	15.5	--	--	--	--
392344112203801	(C-16- 4)30CAC- 1	100VLFL	337	83-08-04	800	--	14.5	--	--	--	--
391234112233701	(C-18- 5)34ADB- 3		--	83-08-10	1970	7.1	15.5	820	560	170	95
391326113595801	(C-18-19)20DAD- 1	100VLFL	100	83-08-04	395	7.3	12.0	190	13	63	8.6
390714112200401	(C-19- 4)31ADA- 1		545	83-08-05	1860	--	15.0	--	--	--	--
390604112175901	(C-20- 4) 4DAB- 1		755	83-06-24	770	--	12.0	--	--	--	--
390558112194601	(C-20- 4) 5CCA- 1		565	83-08-10	1290	--	15.0	--	--	--	--
390628112201401	(C-20- 4) 6ACA- 1	100VLFL	506	83-06-24	2560	7.1	13.5	1100	880	270	110
390528112231301	(C-20- 5)11BCA- 1		--	83-08-05	1600	--	19.5	--	--	--	--
390304112232101	(C-20- 5)25BBB- 1		--	83-08-10	2930	--	15.0	--	--	--	--
390224112243401	(C-20- 5)28DDA- 1		--	83-06-21	660	--	14.0	--	--	--	--
385846112252001	(C-21- 5)16CDC- 2		--	83-08-10	680	--	14.0	--	--	--	--
385912112254101	(C-21- 5)17ADD- 3		385	83-08-05	480	--	14.0	--	--	--	--
385848112261501	(C-21- 5)17CDD- 3		--	83-08-11	730	--	14.5	--	--	--	--
385901112254001	(C-21- 5)17DAD- 1		285	83-08-05	590	--	13.0	--	--	--	--
385848112254101	(C-21- 5)17DDD- 1		281	83-06-21	640	--	13.0	--	--	--	--
385911112270501	(C-21- 5)18DBA- 1		--	83-08-11	1170	--	14.0	--	--	--	--
385816112264801	(C-21- 5)19DAA- 3	100VLFL	650	83-08-11	890	--	16.5	--	--	--	--
385806112263201	(C-21- 5)20CCA- 2	100VLFL	631	83-06-21	610	--	17.5	--	--	--	--
385806112254001	(C-21- 5)20DAD- 1		293	83-06-21	630	--	15.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
						GRAND COUNTY						
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						IRON COUNTY						
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9.5	2.8	--	33	17	0.2	27	299	2.5	0.08	<3.00	1	30.00
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35	8.0	--	89	180	0.5	61	599	2.0	0.03	5.00	2	100
29	4.2	--	240	28	0.3	33	569	8.0	0.09	<3.00	<1	70.00
11	2.3	--	200	14	0.3	22	471	1.2	0.02	30	4	30.00
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150	4.9	--	370	48	1.9	43	771	0.42	0.04	4.00	2	450
31	8.8	--	130	350	0.2	38	1090	7.6	0.06	<3.00	1	40.00
16	3.8	--	13	32	0.2	39	283	1.2	0.03	5.00	2	30.00
18	4.2	--	14	29	0.3	35	251	3.2	0.08	<3.00	1	40.00
19	3.2	--	25	55	0.1	44	379	3.0	0.05	4.00	<1	50.00
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15	3.5	--	18	22	0.3	53	251	0.88	0.00	<3.00	<1	40.00
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						JUAB COUNTY						
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130	3.4	--	87	230	0.2	25	706	1.4	0.07	9.00	2	60.00
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						KANE COUNTY						
25	2.9	--	220	12	0.2	12	511	3.3	0.03	10	3	80.00
4.1	2.4	--	8.0	3.8	<0.1	14	149	2.5	0.04	4.00	1	30.00
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						MILLARD COUNTY						
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85	3.1	--	170	420	0.1	21	1120	7.5	0.04	10	<1	100
12	0.5	--	17	19	0.1	11	239	0.12	0.04	7.00	1	30.00
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110	4.8	--	490	460	0.3	23	1620	6.9	0.03	40	10	170
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				MILLARD COUNTY							
385752112243201	(C-21- 5)28AAA- 1		510	83-06-21	620	--	15.0	--	--	--	--
385714112264701	(C-21- 5)29CBC- 1	100VLFL	--	83-06-21	2960	--	20.0	--	--	--	--
385713112271601	(C-21- 5)30DBC- 2		250	83-08-11	1050	--	14.0	--	--	--	--
385715112271201	(C-21- 5)30DBC- 3	100VLFL	787	83-08-11	1970	7.2	19.0	690	430	170	64
385611112272601	(C-21- 5)31CDD- 2		800	83-06-21	1070	--	19.0	--	--	--	--
385656112263101	(C-21- 5)32BBA- 1		600	83-06-21	1830	--	18.5	--	--	--	--
385650112243601	(C-21- 5)33AAD- 1		352	83-08-11	530	--	15.0	--	--	--	--
385611112252801	(C-21- 5)33CCD- 1	100VLFL	250	83-06-21	1110	--	16.0	--	--	--	--
385755112280801	(C-21- 6)24DDC- 1		--	83-06-21	4370	--	14.5	--	--	--	--
385557112232801	(C-22- 5) 2BBC- 1		--	83-06-22	990	--	16.5	--	--	--	--
385605112240301	(C-22- 5) 3BAA- 1		380	83-08-12	1300	--	14.0	--	--	--	--
385514112241801	(C-22- 5)10BAB- 1		--	83-08-09	1220	--	16.5	--	--	--	--
385335112262101	(C-22- 5)17CDD- 1		260	83-08-11	710	--	15.0	--	--	--	--
385324112252301	(C-22- 5)21BAB- 2	100VLFL	--	83-08-12	910	--	12.0	--	--	--	--
385303112234801	(C-22- 5)22ADC- 2	100VLFL	260	83-08-09	1120	7.3	15.5	310	50	76	28
385214112245601	(C-22- 5)28ADB- 1		--	83-06-22	1010	--	15.5	--	--	--	--
385213112263901	(C-22- 5)29BCD- 1	110ALVM	387	83-08-12	860	--	14.0	--	--	--	--
385149112262302	(C-22- 5)29CDD- 2		--	83-06-30	1120	--	15.0	--	--	--	--
385130112244201	(C-22- 5)33ADA- 1		--	83-06-22	420	--	13.5	--	--	--	--
385002112252301	(C-23- 5) 4CCD- 1		--	83-08-09	610	--	14.5	--	--	--	--
385026112261001	(C-23- 5) 5ACD- 1	100VLFL	353	83-08-09	880	7.3	14.0	370	92	94	32
385021112270001	(C-23- 5) 6DAA- 4		--	83-08-09	870	--	12.5	--	--	--	--
384946112321601	(C-23- 6) 9BCA- 1		--	83-06-23	9900	--	17.0	--	--	--	--
384910112312101	(C-23- 6)10CCC- 2		--	83-06-23	2530	--	19.0	--	--	--	--
384906112305001	(C-23- 6)15BAA- 1		125	83-06-23	4300	--	15.0	--	--	--	--
384850112310701	(C-23- 6)15BCA- 1		145	83-08-09	3160	7.4	17.0	810	510	220	64
384857112315701	(C-23- 6)16BAD- 1	100VLFL	130	83-06-23	6200	6.9	16.5	1900	1600	510	150
384828112313801	(C-23- 6)16DDB- 1		--	83-06-23	4520	--	16.0	--	--	--	--
384815112331401	(C-23- 6)17CDC- 1		440	83-06-23	8250	--	17.0	--	--	--	--
384830112323501	(C-23- 6)17DAD- 1		--	83-06-23	6260	--	16.0	--	--	--	--
				PIUTE COUNTY							
381440111584001	(C-29- 2)35BAD- 1	122BRHD	197	83-08-10	445	--	16.0	--	--	--	--
381003112010301	(C-30- 2)28BDC- 1		--	83-08-28	440	--	12.0	--	--	--	--
				RICH COUNTY							
415048111194001	(A-13- 6)30BBB- 1		125	83-09-06	425	7.7	9.0	200	--	50	19
				SALT LAKE COUNTY							
405047112014301	(B- 1- 2) 2DAC- 2	100VLFL	541	83-09-01	850	--	27.0	--	--	--	--
404659112005601	(B- 1- 2)36BAA- 1	100VLFL	464	83-06-28	5960	--	27.5	--	--	--	--
404306112031201	(C- 1- 2)22BDD- 4	100VLFL	35	83-06-28	1850	--	15.0	--	--	--	--
403952111541101	(C- 2- 1)12BAC- 1	100VLFL	157	83-07-05	240	--	13.0	--	--	--	--
403408111543201	(C- 3- 1)12CCB- 1	100VLFL	118	83-08-11	920	--	20.0	--	--	--	--
402721111550801	(C- 4- 1)23DBB- 1	100VLFL	262	83-07-08	1120	--	22.0	--	--	--	--
403027112012401	(C- 4- 2) 1BBB- 1	100VLFL	540	83-07-08	1330	--	15.0	--	--	--	--
404506111523301	(D- 1- 1) 7ABD- 6	100VLFL	130	83-07-05	1120	--	14.0	--	--	--	--
403742111503201	(D- 2- 1)21DBC- 1	100VLFL	740	83-07-14	225	8.0	11.5	110	10	28	9.4
				SAN JUAN COUNTY							
371657109331901	(D-40-21)25ACD- 1	220NVJO	450	82-11-19	400	8.6	17.0	--	--	--	--
371716109325501	(D-40-22)30BBB- 1	220JRSC	825	83-04-14	760	9.0	20.0	10	--	3.3	0.4
		220JRSC	825	83-09-07	780	--	21.0	--	--	--	--
				SEVIER COUNTY							
385910111512101	(C-21- 1)13ABD- 1		291	83-08-09	790	7.6	19.0	140	21	30	17
384800112002001	(C-23- 2)15DCB- 4	100VLFL	75	83-08-09	660	7.4	12.0	330	53	69	38
384702112031001	(C-23- 2)19DAB- 1	100VLFL	310	83-08-09	520	--	16.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
						MILLARD COUNTY						
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160	13	--	400	290	0.4	19	1270	0.92	0.05	40	3	600
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110	20	--	74	180	0.7	13	655	0.99	0.00	10	<1	560
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52	2.6	--	79	87	0.2	21	533	3.6	0.03	10	<1	150
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340	54	--	370	620	1.6	40	1900	5.3	0.02	40	10	1500
830	87	--	970	1700	1.1	43	4500	2.1	0.04	50	10	3600
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						PIUTE COUNTY						
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						RICH COUNTY						
7.9	1.5	--	8.9	11	0.1	25	246	0.1	0.01	30	74	10.00
						SALT LAKE COUNTY						
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8.4	1.6	--	20	7.4	0.3	11	145	0.82	--	<3.00	<1	--
						SAN JUAN COUNTY						
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180	1.1	--	53	14	0.4	11	466	--	--	--	--	--
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						SEVIER COUNTY						
95	4.7	--	87	110	0.6	41	460	0.31	0.00	<3.00	<1	260
19	3.3	--	44	41	0.5	33	413	0.94	0.02	<3.00	<1	50.00
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
					SEVIER COUNTY						
384450112034001	(C-24- 2) 6ABC- 1	100VLFL	323	83-08-09	1290	7.1	12.0	610	300	160	50
383140111522001	(C-26- 1)23DDB- 1	100VLFL	200	83-08-10	245	7.6	12.0	73	--	23	3.9
					TOOELE COUNTY						
403657112173901	(C- 2- 4)28DAA- 1		--	83-07-05	870	--	14.0	--	--	--	--
403607112185601	(C- 2- 4)32ADC- 1		--	83-07-05	1270	--	14.5	--	--	--	--
403608112174301	(C- 2- 4)33ADD- 1	100VLFL	165	83-07-05	680	--	14.5	--	--	--	--
403629112174801	(C- 2- 4)33BDD- 1		--	83-06-20	820	--	15.0	--	--	--	--
			--	83-07-05	820	--	16.0	--	--	--	--
403600112254501	(C- 2- 5)32DAA-13		--	83-07-05	2200	--	17.0	--	--	--	--
403611112241201	(C- 2- 5)34BCA- 3	100VLFL	320	83-07-05	3150	--	24.5	--	--	--	--
403605112211301	(C- 2- 5)36ADC- 1	100VLFL	442	83-07-05	990	--	20.0	--	--	--	--
403603112215801	(C- 2- 5)36CBA- 1		--	83-07-05	1180	--	21.0	--	--	--	--
403532112253601	(C- 3- 5) 4BBB- 2	100VLFL	410	83-07-06	1400	7.5	17.0	370	190	91	34
403126112444501	(C- 3- 8)28DDB- 1		241	83-07-26	660	--	16.5	--	--	--	--
402525112251502	(C- 4- 5)33CCA- 2		210	83-07-14	1130	7.5	12.5	--	--	--	--
400418112271701	(C- 8- 5)31CCD- 5		60	83-07-14	930	7.5	12.0	360	230	110	20
					UTAH COUNTY						
402355111531501	(C- 5- 1)12DAA- 2		330	83-07-28	840	--	15.5	--	--	--	--
401702111594001	(C- 6- 1)19ACC- 1	100VLFL	--	83-08-10	600	--	23.5	--	--	--	--
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	505	83-07-13	475	8.0	11.5	220	4	38	30
401610112053101	(C- 6- 2)29BDD- 1	100VLFL	150	83-07-13	400	--	10.5	--	--	--	--
400502111581201	(C- 8- 1)20CDB- 3		--	83-07-25	1260	--	25.5	--	--	--	--
400513111572801	(C- 8- 1)29DDA- 1		--	83-07-25	2870	--	18.0	--	--	--	--
395710111571801	(C-10- 1) 9CCC- 1	100VLFL	474	83-07-25	2020	--	18.0	--	--	--	--
402605111481101	(D- 4- 1)35BAA- 1		500	83-07-28	630	--	12.5	--	--	--	--
402246111505101	(D- 5- 1)16CCB- 4		293	83-07-28	300	--	13.0	--	--	--	--
402259111525201	(D- 5- 1)18CAB- 2		618	83-07-28	330	7.6	15.0	120	--	25	13
402103111461601	(D- 5- 2)30CCB- 2		225	83-07-28	840	7.4	12.0	340	140	76	37
401801111442501	(D- 6- 2)17ACA- 1		200	83-07-28	580	--	14.0	--	--	--	--
401021111362701	(D- 7- 3)33BAA- 6	100VLFL	138	83-07-29	560	7.2	13.5	260	39	68	22
400751111392202	(D- 8- 2)12DDC- 2		372	83-07-26	510	--	15.5	--	--	--	--
400221111471301	(D- 9- 1)14AAD- 2		--	83-07-25	470	--	14.0	--	--	--	--
400212111471201	(D- 9- 1)14ADA- 2		363	83-07-25	760	--	13.0	--	--	--	--
400120111452001	(D- 9- 2)19ACB- 1		--	83-07-26	510	--	14.5	--	--	--	--
					WASHINGTON COUNTY						
373551113391101	(C-37-16) 4BDC- 1		500	83-07-27	370	--	20.0	--	--	--	--
373456113423501	(C-37-17)12BDC- 2		290	83-08-24	180	7.5	24.0	76	--	23	4.4
373419113434201	(C-37-17)14BAC- 1	100VLFL	100	83-08-08	640	7.1	13.0	260	--	77	16
371305113470401	(C-41-17)17CBA- 1		626	83-08-04	470	--	18.0	--	--	--	--
370515113310302	(C-42-15)34DBA- 2		--	83-08-04	5660	6.6	17.0	2300	2000	610	190
370036113282801	(C-43-14)31BBB- 1		--	83-08-02	3500	--	19.0	--	--	--	--
					WAYNE COUNTY						
382717111365601	(D-27- 3)19AAA- 1		285	83-08-10	1570	--	10.0	--	--	--	--
381902111321101	(D-29- 3) 1CAB- 1	110ALVM	433	83-08-10	205	--	16.0	--	--	--	--
					WEBER COUNTY						
410410112050001	(B- 4- 2)20ADA- 1		--	83-08-17	260	--	15.0	--	--	--	--
411153112064602	(B- 5- 2) 6BDD- 3	100VLFL	609	83-08-22	355	--	16.0	--	--	--	--
411153112064601	(B- 5- 2) 6BDD- 4	100VLFL	303	83-08-22	415	--	17.5	--	--	--	--
411130112064502	(B- 5- 2) 6CDD- 2	100VLFL	612	83-08-22	360	--	18.0	--	--	--	--
411041112072001	(B- 5- 3)12DDA- 4	100VLFL	--	83-08-22	370	--	16.5	--	--	--	--
410953112094201	(B- 5- 3)15DDA- 1		649	83-08-22	385	--	23.0	--	--	--	--
411702112071701	(B- 6- 2) 6CBC- 2	100VLFL	512	83-08-23	1400	--	18.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
						SEVIER COUNTY						
59	4.3	--	390	31	0.2	31	909	2.5	0.04	3.00	7	180
10	2.8	--	4.0	8.7	0.3	41	144	0.3	0.00	<3.00	<1	30.00
						TOOELE COUNTY						
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170	3.4	--	41	350	0.1	22	819	1.2	0.00	30	4	70.00
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47	1.3	--	41	190	0.1	17	502	0.9	0.03	9.00	1	50.00
						UTAH COUNTY						
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19	3.1	--	23	24	0.4	55	321	0.18	0.05	10	14	60.00
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18	1.9	--	8.0	19	0.4	16	177	0.3	0.06	6.00	2	20.00
35	1.7	--	160	26	0.3	14	471	4.0	0.04	150	2	60.00
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14	1.6	--	47	14	0.2	11	310	0.76	0.04	7.00	<1	30.00
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						WASHINGTON COUNTY						
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8.8	2.5	--	4.8	4.7	0.3	23	124	0.26	0.10	20	130	20.00
42	6.0	--	23	35	0.4	53	413	4.0	0.08	<3.00	<1	80.00
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510	20	--	2000	760	0.5	25	4300	4.9	0.00	100	20	1100
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						WAYNE COUNTY						
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						WEBER COUNTY						
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
					WEBER COUNTY						
411708112105701	(B- 6- 3) 4DAB- 1		540	83-08-23	810	--	20.5	--	--	--	--
411523112082101	(B- 6- 3)15CBC- 1	100VLFL	--	83-08-23	400	--	16.0	--	--	--	--
411830111581501	(B- 7- 1)29DDC- 1		245	83-08-22	315	--	12.0	--	--	--	--
411835111593001	(B- 7- 1)30DCA- 1		180	83-08-22	335	--	15.0	--	--	--	--
411807111580501	(B- 7- 1)32ADA- 4		60	83-08-22	295	--	13.0	--	--	--	--
412011112041401	(B- 7- 2)16DCD- 2	100VLFL	1180	83-08-22	335	--	--	--	--	--	--
411943112045801	(B- 7- 2)20DAA- 1	100VLFL	150	83-08-22	1320	--	14.0	--	--	--	--
411827112030901	(B- 7- 2)27DCC- 1	100VLFL	--	83-08-22	5030	--	16.5	--	--	--	--
411824112060101	(B- 7- 2)32BBB- 1		546	83-08-22	2450	--	18.0	--	--	--	--
411821112034601	(B- 7- 2)34BBB- 2	100VLFL	517	83-08-22	1760	7.6	17.5	360	200	92	31
411810112131802	(B- 7- 3)31AAC- 2		920	83-08-23	1490	--	36.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
						WEBER COUNTY						
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190	5.4	--	1.0	420	0.4	23	859	0.1	0.01	890	250	150
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
1016 Administration Building 1745 West, 1700 South,
Salt Lake City, UT 84104

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE $300

SPECIAL 4TH CLASS BOOK RATE